

PES Environmental, Inc.- WA

Sample Delivery Group: L1800138
Samples Received: 11/15/2024
Project Number: 1413001.10.603.04
Description: American Linen

Report To: Craig Peterson
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



Jordan Dozier
Project Manager

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

SAMPLE SUMMARY

MW-328-111424 L1800138-01 GW

				Collected by D. Del G	Collected date/time 11/14/24 09:51	Received date/time 11/15/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 17:53	11/22/24 17:53	JBE	Mt. Juliet, TN

MW-341-111424 L1800138-02 GW

				Collected by D. Del G	Collected date/time 11/14/24 10:39	Received date/time 11/15/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 18:12	11/22/24 18:12	JBE	Mt. Juliet, TN

MW-327-111424 L1800138-03 GW

				Collected by D. Del G	Collected date/time 11/14/24 11:26	Received date/time 11/15/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 18:32	11/22/24 18:32	JBE	Mt. Juliet, TN

MW-340-111424 L1800138-04 GW

				Collected by D. Del G	Collected date/time 11/14/24 12:08	Received date/time 11/15/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 18:51	11/22/24 18:51	JBE	Mt. Juliet, TN

MW-338-111424 L1800138-05 GW

				Collected by D. Del G	Collected date/time 11/14/24 12:53	Received date/time 11/15/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 19:10	11/22/24 19:10	JBE	Mt. Juliet, TN

MW123-111424 L1800138-06 GW

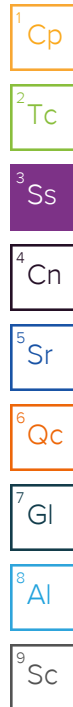
				Collected by D. Del G	Collected date/time 11/14/24 13:59	Received date/time 11/15/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 19:29	11/22/24 19:29	JBE	Mt. Juliet, TN

MW128-111424 L1800138-07 GW

				Collected by D. Del G	Collected date/time 11/14/24 07:49	Received date/time 11/15/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 19:48	11/22/24 19:48	JBE	Mt. Juliet, TN

MW-329-111424 L1800138-08 GW

				Collected by D. Del G	Collected date/time 11/14/24 08:23	Received date/time 11/15/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 20:08	11/22/24 20:08	JBE	Mt. Juliet, TN



SAMPLE SUMMARY

MW-335-111424 L1800138-09 GW

				Collected by D. Del G	Collected date/time 11/14/24 09:22	Received date/time 11/15/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2403985	1	11/19/24 12:39	11/19/24 12:39	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2402471	1	11/15/24 22:35	11/15/24 22:35	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2404586	1	11/20/24 14:27	11/20/24 14:27	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404363	1	11/22/24 14:11	11/24/24 19:29	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403411	1	11/18/24 22:00	11/18/24 22:00	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 20:27	11/22/24 20:27	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2409707	50	11/27/24 15:01	11/27/24 15:01	JHH	Mt. Juliet, TN

MW-336-111424 L1800138-10 GW

				Collected by D. Del G	Collected date/time 11/14/24 10:11	Received date/time 11/15/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 20:46	11/22/24 20:46	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2409707	1	11/27/24 14:03	11/27/24 14:03	JHH	Mt. Juliet, TN

FMW-131-111424 L1800138-11 GW

				Collected by D. Del G	Collected date/time 11/14/24 11:10	Received date/time 11/15/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 21:05	11/22/24 21:05	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2409707	10	11/27/24 15:20	11/27/24 15:20	JHH	Mt. Juliet, TN

GEI-2-111424 L1800138-12 GW

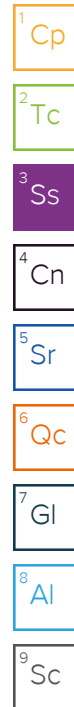
				Collected by D. Del G	Collected date/time 11/14/24 12:36	Received date/time 11/15/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 21:24	11/22/24 21:24	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2409707	1	11/27/24 14:22	11/27/24 14:22	JHH	Mt. Juliet, TN

EQ1-111424 L1800138-13 GW

				Collected by D. Del G	Collected date/time 11/14/24 10:45	Received date/time 11/15/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2403985	1	11/19/24 12:43	11/19/24 12:43	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2402471	1	11/15/24 22:54	11/15/24 22:54	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2404586	1	11/20/24 20:10	11/20/24 20:10	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404363	1	11/22/24 14:11	11/24/24 19:32	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403411	1	11/18/24 22:06	11/18/24 22:06	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 21:44	11/22/24 21:44	JBE	Mt. Juliet, TN

EQ2-111424 L1800138-14 GW

				Collected by D. Del G	Collected date/time 11/14/24 11:01	Received date/time 11/15/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2403985	1	11/19/24 12:47	11/19/24 12:47	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2402471	1	11/15/24 23:10	11/15/24 23:10	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2404586	1	11/20/24 20:47	11/20/24 20:47	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404368	1	11/22/24 10:04	11/24/24 17:46	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403411	1	11/18/24 22:14	11/18/24 22:14	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 22:03	11/22/24 22:03	JBE	Mt. Juliet, TN



CASE NARRATIVE

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



Jordan Dozier
Project Manager



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 17:53	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 17:53	WG2406633
Benzene	0.509		0.0160	0.0400	1	11/22/2024 17:53	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 17:53	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 17:53	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 17:53	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 17:53	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 17:53	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 17:53	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 17:53	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 17:53	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 17:53	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 17:53	WG2406633
Chlorobenzene	0.0230	J	0.0229	0.100	1	11/22/2024 17:53	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 17:53	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 17:53	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 17:53	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 17:53	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 17:53	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 17:53	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 17:53	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 17:53	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 17:53	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 17:53	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 17:53	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 17:53	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 17:53	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 17:53	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 17:53	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 17:53	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 17:53	WG2406633
cis-1,2-Dichloroethene	0.223		0.0276	0.100	1	11/22/2024 17:53	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 17:53	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 17:53	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 17:53	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 17:53	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 17:53	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 17:53	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 17:53	WG2406633
Di-isopropyl ether	0.0300	J	0.0140	0.0400	1	11/22/2024 17:53	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 17:53	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 17:53	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 17:53	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 17:53	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 17:53	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 17:53	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 17:53	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 17:53	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 17:53	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 17:53	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 17:53	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 17:53	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 17:53	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 17:53	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 17:53	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 17:53	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 17:53	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 17:53	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 17:53	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 17:53	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 17:53	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 17:53	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 17:53	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 17:53	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 17:53	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 17:53	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 17:53	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 17:53	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 17:53	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 17:53	WG2406633
Vinyl chloride	0.459		0.0273	0.100	1	11/22/2024 17:53	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 17:53	WG2406633
(S) Toluene-d8	98.6			75.0-131		11/22/2024 17:53	WG2406633
(S) 4-Bromofluorobenzene	88.1			67.0-138		11/22/2024 17:53	WG2406633
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/22/2024 17:53	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 18:12	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 18:12	WG2406633
Benzene	18.5		0.0160	0.0400	1	11/22/2024 18:12	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 18:12	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 18:12	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 18:12	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 18:12	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 18:12	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 18:12	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 18:12	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 18:12	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 18:12	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 18:12	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 18:12	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 18:12	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 18:12	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 18:12	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 18:12	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 18:12	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 18:12	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 18:12	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 18:12	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 18:12	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 18:12	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 18:12	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 18:12	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 18:12	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 18:12	WG2406633
1,1-Dichloroethane	0.0510	J	0.0230	0.100	1	11/22/2024 18:12	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 18:12	WG2406633
1,1-Dichloroethene	0.0570	J	0.0200	0.100	1	11/22/2024 18:12	WG2406633
cis-1,2-Dichloroethene	29.8		0.0276	0.100	1	11/22/2024 18:12	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 18:12	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 18:12	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 18:12	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 18:12	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 18:12	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 18:12	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 18:12	WG2406633
Di-isopropyl ether	0.420		0.0140	0.0400	1	11/22/2024 18:12	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 18:12	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 18:12	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 18:12	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 18:12	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 18:12	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 18:12	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 18:12	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 18:12	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 18:12	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 18:12	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 18:12	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 18:12	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 18:12	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 18:12	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 18:12	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 18:12	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 18:12	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 18:12	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 18:12	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 18:12	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 18:12	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 18:12	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 18:12	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 18:12	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 18:12	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 18:12	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 18:12	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 18:12	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 18:12	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 18:12	WG2406633
Vinyl chloride	58.0		0.0273	0.100	1	11/22/2024 18:12	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 18:12	WG2406633
(S) Toluene-d8	97.4			75.0-131		11/22/2024 18:12	WG2406633
(S) 4-Bromofluorobenzene	94.1			67.0-138		11/22/2024 18:12	WG2406633
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/22/2024 18:12	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 18:32	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 18:32	WG2406633
Benzene	U		0.0160	0.0400	1	11/22/2024 18:32	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 18:32	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 18:32	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 18:32	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 18:32	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 18:32	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 18:32	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 18:32	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 18:32	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 18:32	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 18:32	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 18:32	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 18:32	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 18:32	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 18:32	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 18:32	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 18:32	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 18:32	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 18:32	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 18:32	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 18:32	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 18:32	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 18:32	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 18:32	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 18:32	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 18:32	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 18:32	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 18:32	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 18:32	WG2406633
cis-1,2-Dichloroethene	0.0610	J	0.0276	0.100	1	11/22/2024 18:32	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 18:32	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 18:32	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 18:32	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 18:32	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 18:32	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 18:32	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 18:32	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 18:32	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 18:32	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 18:32	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 18:32	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 18:32	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 18:32	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 18:32	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 18:32	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 18:32	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 18:32	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 18:32	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 18:32	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 18:32	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 18:32	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 18:32	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 18:32	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 18:32	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 18:32	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 18:32	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 18:32	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 18:32	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 18:32	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 18:32	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 18:32	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 18:32	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 18:32	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 18:32	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 18:32	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 18:32	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 18:32	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 18:32	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 18:32	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 18:32	WG2406633
(S) Toluene-d8	98.8			75.0-131		11/22/2024 18:32	WG2406633
(S) 4-Bromofluorobenzene	91.1			67.0-138		11/22/2024 18:32	WG2406633
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2024 18:32	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 18:51	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 18:51	WG2406633
Benzene	U		0.0160	0.0400	1	11/22/2024 18:51	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 18:51	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 18:51	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 18:51	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 18:51	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 18:51	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 18:51	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 18:51	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 18:51	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 18:51	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 18:51	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 18:51	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 18:51	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 18:51	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 18:51	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 18:51	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 18:51	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 18:51	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 18:51	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 18:51	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 18:51	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 18:51	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 18:51	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 18:51	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 18:51	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 18:51	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 18:51	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 18:51	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 18:51	WG2406633
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/22/2024 18:51	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 18:51	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 18:51	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 18:51	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 18:51	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 18:51	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 18:51	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 18:51	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 18:51	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 18:51	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 18:51	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 18:51	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 18:51	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 18:51	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 18:51	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 18:51	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 18:51	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 18:51	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 18:51	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 18:51	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 18:51	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 18:51	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 18:51	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 18:51	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 18:51	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 18:51	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 18:51	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 18:51	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 18:51	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 18:51	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 18:51	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 18:51	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 18:51	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 18:51	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 18:51	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 18:51	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 18:51	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 18:51	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 18:51	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 18:51	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 18:51	WG2406633
(S) Toluene-d8	98.9			75.0-131		11/22/2024 18:51	WG2406633
(S) 4-Bromofluorobenzene	90.3			67.0-138		11/22/2024 18:51	WG2406633
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2024 18:51	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 19:10	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 19:10	WG2406633
Benzene	U		0.0160	0.0400	1	11/22/2024 19:10	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 19:10	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 19:10	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 19:10	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 19:10	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 19:10	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 19:10	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 19:10	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 19:10	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 19:10	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 19:10	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 19:10	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 19:10	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 19:10	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 19:10	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 19:10	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 19:10	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 19:10	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 19:10	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 19:10	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 19:10	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 19:10	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 19:10	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 19:10	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 19:10	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 19:10	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 19:10	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 19:10	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 19:10	WG2406633
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/22/2024 19:10	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 19:10	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 19:10	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 19:10	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 19:10	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 19:10	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 19:10	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 19:10	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 19:10	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 19:10	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 19:10	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 19:10	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 19:10	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 19:10	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 19:10	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 19:10	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 19:10	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 19:10	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 19:10	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 19:10	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 19:10	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 19:10	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 19:10	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 19:10	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 19:10	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 19:10	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 19:10	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 19:10	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 19:10	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 19:10	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 19:10	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 19:10	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 19:10	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 19:10	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 19:10	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 19:10	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 19:10	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 19:10	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 19:10	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 19:10	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 19:10	WG2406633
(S) Toluene-d8	97.1			75.0-131		11/22/2024 19:10	WG2406633
(S) 4-Bromofluorobenzene	92.4			67.0-138		11/22/2024 19:10	WG2406633
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/22/2024 19:10	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/22/2024 19:29	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 19:29	WG2406633
Benzene	U		0.0160	0.0400	1	11/22/2024 19:29	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 19:29	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 19:29	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 19:29	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 19:29	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 19:29	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 19:29	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 19:29	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 19:29	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 19:29	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 19:29	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 19:29	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 19:29	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 19:29	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 19:29	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 19:29	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 19:29	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 19:29	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 19:29	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 19:29	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 19:29	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 19:29	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 19:29	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 19:29	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 19:29	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 19:29	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 19:29	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 19:29	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 19:29	WG2406633
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/22/2024 19:29	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 19:29	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 19:29	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 19:29	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 19:29	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 19:29	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 19:29	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 19:29	WG2406633
Di-isopropyl ether	0.241		0.0140	0.0400	1	11/22/2024 19:29	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 19:29	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 19:29	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 19:29	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 19:29	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 19:29	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 19:29	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 19:29	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 19:29	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 19:29	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 19:29	WG2406633
Methyl tert-butyl ether	0.0990		0.0118	0.0400	1	11/22/2024 19:29	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 19:29	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 19:29	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 19:29	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 19:29	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 19:29	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 19:29	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 19:29	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 19:29	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 19:29	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 19:29	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 19:29	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 19:29	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 19:29	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 19:29	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 19:29	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 19:29	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 19:29	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 19:29	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 19:29	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 19:29	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 19:29	WG2406633
(S) Toluene-d8	98.0			75.0-131		11/22/2024 19:29	WG2406633
(S) 4-Bromofluorobenzene	90.4			67.0-138		11/22/2024 19:29	WG2406633
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/22/2024 19:29	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

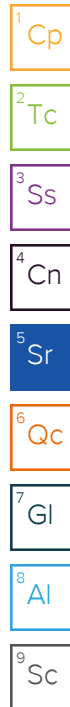
7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 19:48	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 19:48	WG2406633
Benzene	7.49		0.0160	0.0400	1	11/22/2024 19:48	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 19:48	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 19:48	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 19:48	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 19:48	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 19:48	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 19:48	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 19:48	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 19:48	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 19:48	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 19:48	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 19:48	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 19:48	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 19:48	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 19:48	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 19:48	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 19:48	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 19:48	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 19:48	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 19:48	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 19:48	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 19:48	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 19:48	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 19:48	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 19:48	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 19:48	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 19:48	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 19:48	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 19:48	WG2406633
cis-1,2-Dichloroethene	0.144		0.0276	0.100	1	11/22/2024 19:48	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 19:48	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 19:48	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 19:48	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 19:48	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 19:48	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 19:48	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 19:48	WG2406633
Di-isopropyl ether	0.226		0.0140	0.0400	1	11/22/2024 19:48	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 19:48	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 19:48	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 19:48	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 19:48	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 19:48	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 19:48	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 19:48	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 19:48	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 19:48	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 19:48	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 19:48	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 19:48	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 19:48	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 19:48	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 19:48	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 19:48	WG2406633



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 19:48	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 19:48	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 19:48	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 19:48	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 19:48	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 19:48	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 19:48	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 19:48	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 19:48	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 19:48	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 19:48	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 19:48	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 19:48	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 19:48	WG2406633
Vinyl chloride	0.764		0.0273	0.100	1	11/22/2024 19:48	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 19:48	WG2406633
(S) Toluene-d8	98.6			75.0-131		11/22/2024 19:48	WG2406633
(S) 4-Bromofluorobenzene	88.9			67.0-138		11/22/2024 19:48	WG2406633
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2024 19:48	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 20:08	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 20:08	WG2406633
Benzene	0.148		0.0160	0.0400	1	11/22/2024 20:08	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 20:08	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 20:08	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 20:08	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 20:08	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 20:08	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 20:08	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 20:08	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 20:08	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 20:08	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 20:08	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 20:08	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 20:08	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 20:08	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 20:08	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 20:08	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 20:08	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 20:08	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 20:08	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 20:08	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 20:08	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 20:08	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 20:08	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 20:08	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 20:08	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 20:08	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 20:08	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 20:08	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 20:08	WG2406633
cis-1,2-Dichloroethene	7.64		0.0276	0.100	1	11/22/2024 20:08	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 20:08	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 20:08	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 20:08	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 20:08	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 20:08	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 20:08	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 20:08	WG2406633
Di-isopropyl ether	0.0600		0.0140	0.0400	1	11/22/2024 20:08	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 20:08	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 20:08	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 20:08	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 20:08	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 20:08	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 20:08	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 20:08	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 20:08	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 20:08	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 20:08	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 20:08	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 20:08	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 20:08	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 20:08	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 20:08	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 20:08	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 20:08	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 20:08	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 20:08	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 20:08	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 20:08	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 20:08	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 20:08	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 20:08	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 20:08	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 20:08	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 20:08	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 20:08	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 20:08	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 20:08	WG2406633
Vinyl chloride	28.5		0.0273	0.100	1	11/22/2024 20:08	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 20:08	WG2406633
(S) Toluene-d8	98.1			75.0-131		11/22/2024 20:08	WG2406633
(S) 4-Bromofluorobenzene	90.1			67.0-138		11/22/2024 20:08	WG2406633
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2024 20:08	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	335000		4750	20000	1	11/19/2024 12:39	WG2403985

Sample Narrative:
L1800138-09 WG2403985: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	31700		547	1000	1	11/15/2024 22:35	WG2402471
Nitrate as (N)	U		88.4	100	1	11/15/2024 22:35	WG2402471
Sulfate	80100		637	5000	1	11/15/2024 22:35	WG2402471

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3300		495	1000	1	11/20/2024 14:27	WG2404586

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	214		22.6	100	1	11/24/2024 19:29	WG2404363
Manganese	1140		0.700	5.00	1	11/24/2024 19:29	WG2404363

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	389		0.287	0.678	1	11/18/2024 22:00	WG2403411
Ethane	16.2		0.296	1.29	1	11/18/2024 22:00	WG2403411
Ethene	U		0.422	1.27	1	11/18/2024 22:00	WG2403411

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/22/2024 20:27	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 20:27	WG2406633
Benzene	0.431		0.0160	0.0400	1	11/22/2024 20:27	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 20:27	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 20:27	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 20:27	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 20:27	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 20:27	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 20:27	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 20:27	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 20:27	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 20:27	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 20:27	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 20:27	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 20:27	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 20:27	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 20:27	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 20:27	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 20:27	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 20:27	WG2406633

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 20:27	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 20:27	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 20:27	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 20:27	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 20:27	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 20:27	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 20:27	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 20:27	WG2406633
1,1-Dichloroethane	0.0790	U	0.0230	0.100	1	11/22/2024 20:27	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 20:27	WG2406633
1,1-Dichloroethene	2.04		0.0200	0.100	1	11/22/2024 20:27	WG2406633
cis-1,2-Dichloroethene	1550		1.38	5.00	50	11/27/2024 15:01	WG2409707
trans-1,2-Dichloroethene	2.01		0.0572	0.200	1	11/22/2024 20:27	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 20:27	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 20:27	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 20:27	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 20:27	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 20:27	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 20:27	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 20:27	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 20:27	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 20:27	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 20:27	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 20:27	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 20:27	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 20:27	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 20:27	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 20:27	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 20:27	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 20:27	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 20:27	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 20:27	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 20:27	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 20:27	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 20:27	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 20:27	WG2406633
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 20:27	WG2406633
Tetrachloroethene	78.8		0.0280	0.100	1	11/22/2024 20:27	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 20:27	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 20:27	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 20:27	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 20:27	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 20:27	WG2406633
Trichloroethene	215		0.800	2.00	50	11/27/2024 15:01	WG2409707
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 20:27	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 20:27	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 20:27	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 20:27	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 20:27	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 20:27	WG2406633
Vinyl chloride	0.591		0.0273	0.100	1	11/22/2024 20:27	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 20:27	WG2406633
(S) Toluene-d8	99.5			75.0-131		11/22/2024 20:27	WG2406633
(S) Toluene-d8	101			75.0-131		11/27/2024 15:01	WG2409707
(S) 4-Bromofluorobenzene	91.4			67.0-138		11/22/2024 20:27	WG2406633
(S) 4-Bromofluorobenzene	98.4			67.0-138		11/27/2024 15:01	WG2409707

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/22/2024 20:27	WG2406633
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/27/2024 15:01	WG2409707

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 20:46	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 20:46	WG2406633
Benzene	U		0.0160	0.0400	1	11/22/2024 20:46	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 20:46	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 20:46	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 20:46	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 20:46	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 20:46	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 20:46	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 20:46	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 20:46	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 20:46	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 20:46	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 20:46	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 20:46	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 20:46	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 20:46	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 20:46	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 20:46	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 20:46	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 20:46	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 20:46	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 20:46	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 20:46	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 20:46	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 20:46	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 20:46	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 20:46	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 20:46	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 20:46	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 20:46	WG2406633
cis-1,2-Dichloroethene	0.767		0.0276	0.100	1	11/27/2024 14:03	WG2409707
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 20:46	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 20:46	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 20:46	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 20:46	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 20:46	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 20:46	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 20:46	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 20:46	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 20:46	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 20:46	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 20:46	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 20:46	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 20:46	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 20:46	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 20:46	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 20:46	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 20:46	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 20:46	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 20:46	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 20:46	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 20:46	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 20:46	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 20:46	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 20:46	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 20:46	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/27/2024 14:03	WG2409707
Toluene	U		0.0500	0.200	1	11/22/2024 20:46	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 20:46	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 20:46	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 20:46	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 20:46	WG2406633
Trichloroethene	0.394		0.0160	0.0400	1	11/27/2024 14:03	WG2409707
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 20:46	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 20:46	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 20:46	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 20:46	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 20:46	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 20:46	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 20:46	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 20:46	WG2406633
(S) Toluene-d8	100			75.0-131		11/22/2024 20:46	WG2406633
(S) Toluene-d8	103			75.0-131		11/27/2024 14:03	WG2409707
(S) 4-Bromofluorobenzene	91.0			67.0-138		11/22/2024 20:46	WG2406633
(S) 4-Bromofluorobenzene	99.1			67.0-138		11/27/2024 14:03	WG2409707
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/22/2024 20:46	WG2406633
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/27/2024 14:03	WG2409707

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

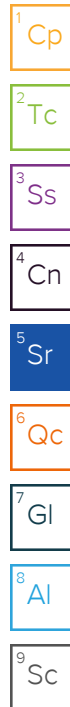
7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 21:05	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 21:05	WG2406633
Benzene	9.98		0.0160	0.0400	1	11/22/2024 21:05	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 21:05	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 21:05	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 21:05	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 21:05	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 21:05	WG2406633
n-Butylbenzene	7.67		0.153	0.500	1	11/22/2024 21:05	WG2406633
sec-Butylbenzene	8.93		0.101	0.500	1	11/22/2024 21:05	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 21:05	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 21:05	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 21:05	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 21:05	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 21:05	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 21:05	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 21:05	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 21:05	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 21:05	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 21:05	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 21:05	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 21:05	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 21:05	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 21:05	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 21:05	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 21:05	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 21:05	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 21:05	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 21:05	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 21:05	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 21:05	WG2406633
cis-1,2-Dichloroethene	0.366		0.0276	0.100	1	11/22/2024 21:05	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 21:05	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 21:05	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 21:05	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 21:05	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 21:05	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 21:05	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 21:05	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 21:05	WG2406633
Ethylbenzene	136		0.212	1.00	10	11/27/2024 15:20	WG2409707
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 21:05	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 21:05	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 21:05	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 21:05	WG2406633
Isopropylbenzene	49.5		0.0345	0.100	1	11/22/2024 21:05	WG2406633
p-Isopropyltoluene	2.15		0.0932	0.200	1	11/22/2024 21:05	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 21:05	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 21:05	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 21:05	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 21:05	WG2406633
Naphthalene	85.6	J3	1.24	5.00	10	11/27/2024 15:20	WG2409707
n-Propylbenzene	102		0.472	2.00	10	11/27/2024 15:20	WG2409707
Styrene	U		0.109	0.500	1	11/22/2024 21:05	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 21:05	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 21:05	WG2406633



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 21:05	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 21:05	WG2406633
Toluene	1.70		0.0500	0.200	1	11/22/2024 21:05	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 21:05	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 21:05	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 21:05	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 21:05	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 21:05	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 21:05	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 21:05	WG2406633
1,2,4-Trimethylbenzene	249		0.464	2.00	10	11/27/2024 15:20	WG2409707
1,2,3-Trimethylbenzene	145		0.460	2.00	10	11/27/2024 15:20	WG2409707
1,3,5-Trimethylbenzene	45.9		0.0432	0.200	1	11/22/2024 21:05	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 21:05	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 21:05	WG2406633
Xylenes, Total	150		0.191	0.260	1	11/22/2024 21:05	WG2406633
(S) Toluene-d8	92.3			75.0-131		11/22/2024 21:05	WG2406633
(S) Toluene-d8	103			75.0-131		11/27/2024 15:20	WG2409707
(S) 4-Bromofluorobenzene	92.3			67.0-138		11/22/2024 21:05	WG2406633
(S) 4-Bromofluorobenzene	100			67.0-138		11/27/2024 15:20	WG2409707
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/22/2024 21:05	WG2406633
(S) 1,2-Dichloroethane-d4	112			70.0-130		11/27/2024 15:20	WG2409707

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 21:24	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 21:24	WG2406633
Benzene	0.101		0.0160	0.0400	1	11/22/2024 21:24	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 21:24	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 21:24	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 21:24	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 21:24	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 21:24	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 21:24	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 21:24	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 21:24	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 21:24	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 21:24	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 21:24	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 21:24	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 21:24	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 21:24	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 21:24	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 21:24	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 21:24	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 21:24	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 21:24	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 21:24	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 21:24	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 21:24	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 21:24	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 21:24	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 21:24	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 21:24	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 21:24	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 21:24	WG2406633
cis-1,2-Dichloroethene	0.242		0.0276	0.100	1	11/22/2024 21:24	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 21:24	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 21:24	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 21:24	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 21:24	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 21:24	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 21:24	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 21:24	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 21:24	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/27/2024 14:22	WG2409707
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 21:24	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 21:24	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 21:24	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 21:24	WG2406633
Isopropylbenzene	0.0990	J	0.0345	0.100	1	11/22/2024 21:24	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 21:24	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 21:24	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 21:24	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 21:24	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 21:24	WG2406633
Naphthalene	U	J3	0.124	0.500	1	11/27/2024 14:22	WG2409707
n-Propylbenzene	U		0.0472	0.200	1	11/27/2024 14:22	WG2409707
Styrene	U		0.109	0.500	1	11/22/2024 21:24	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 21:24	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 21:24	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 21:24	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 21:24	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 21:24	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 21:24	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 21:24	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 21:24	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 21:24	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 21:24	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 21:24	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 21:24	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/27/2024 14:22	WG2409707
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/27/2024 14:22	WG2409707
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/27/2024 14:22	WG2409707
Vinyl acetate	U		0.141	0.500	1	11/22/2024 21:24	WG2406633
Vinyl chloride	0.195		0.0273	0.100	1	11/22/2024 21:24	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/27/2024 14:22	WG2409707
(S) Toluene-d8	98.0			75.0-131		11/22/2024 21:24	WG2406633
(S) Toluene-d8	103			75.0-131		11/27/2024 14:22	WG2409707
(S) 4-Bromofluorobenzene	97.7			67.0-138		11/22/2024 21:24	WG2406633
(S) 4-Bromofluorobenzene	99.6			67.0-138		11/27/2024 14:22	WG2409707
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/22/2024 21:24	WG2406633
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/27/2024 14:22	WG2409707

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	U		4750	20000	1	11/19/2024 12:43	WG2403985

Sample Narrative:

L1800138-13 WG2403985: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	U		547	1000	1	11/15/2024 22:54	WG2402471
Nitrate as (N)	U		88.4	100	1	11/15/2024 22:54	WG2402471
Sulfate	U		637	5000	1	11/15/2024 22:54	WG2402471

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	U		495	1000	1	11/20/2024 20:10	WG2404586

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	94.1	J	22.6	100	1	11/24/2024 19:32	WG2404363
Manganese	3.11	J	0.700	5.00	1	11/24/2024 19:32	WG2404363

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	1.13		0.287	0.678	1	11/18/2024 22:06	WG2403411
Ethane	U		0.296	1.29	1	11/18/2024 22:06	WG2403411
Ethene	U		0.422	1.27	1	11/18/2024 22:06	WG2403411

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 21:44	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 21:44	WG2406633
Benzene	U		0.0160	0.0400	1	11/22/2024 21:44	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 21:44	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 21:44	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 21:44	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 21:44	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 21:44	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 21:44	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 21:44	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 21:44	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 21:44	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 21:44	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 21:44	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 21:44	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 21:44	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 21:44	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 21:44	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 21:44	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 21:44	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 21:44	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 21:44	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 21:44	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 21:44	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 21:44	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 21:44	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 21:44	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 21:44	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 21:44	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 21:44	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 21:44	WG2406633
cis-1,2-Dichloroethene	0.106		0.0276	0.100	1	11/22/2024 21:44	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 21:44	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 21:44	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 21:44	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 21:44	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 21:44	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 21:44	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 21:44	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 21:44	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 21:44	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 21:44	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 21:44	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 21:44	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 21:44	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 21:44	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 21:44	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 21:44	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 21:44	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 21:44	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 21:44	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 21:44	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 21:44	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 21:44	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 21:44	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 21:44	WG2406633
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 21:44	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 21:44	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 21:44	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 21:44	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 21:44	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 21:44	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 21:44	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 21:44	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 21:44	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 21:44	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 21:44	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 21:44	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 21:44	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 21:44	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 21:44	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 21:44	WG2406633
(S) Toluene-d8	97.1			75.0-131		11/22/2024 21:44	WG2406633
(S) 4-Bromofluorobenzene	96.1			67.0-138		11/22/2024 21:44	WG2406633
(S) 1,2-Dichloroethane-d4	112			70.0-130		11/22/2024 21:44	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	U		4750	20000	1	11/19/2024 12:47	WG2403985

Sample Narrative:

L1800138-14 WG2403985: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	U		547	1000	1	11/15/2024 23:10	WG2402471
Nitrate as (N)	U		88.4	100	1	11/15/2024 23:10	WG2402471
Sulfate	U		637	5000	1	11/15/2024 23:10	WG2402471

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	U		495	1000	1	11/20/2024 20:47	WG2404586

Metals (ICPMS) by Method 6020B

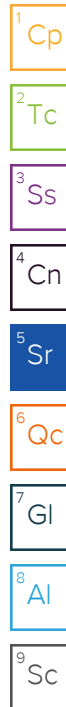
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	50.2	J	22.6	100	1	11/24/2024 17:46	WG2404368
Manganese	1.28	J	0.700	5.00	1	11/24/2024 17:46	WG2404368

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	0.854		0.287	0.678	1	11/18/2024 22:14	WG2403411
Ethane	U		0.296	1.29	1	11/18/2024 22:14	WG2403411
Ethene	U		0.422	1.27	1	11/18/2024 22:14	WG2403411

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 22:03	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 22:03	WG2406633
Benzene	U		0.0160	0.0400	1	11/22/2024 22:03	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 22:03	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 22:03	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 22:03	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 22:03	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 22:03	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 22:03	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 22:03	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 22:03	WG2406633
Carbon disulfide	0.172	J	0.162	0.500	1	11/22/2024 22:03	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 22:03	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 22:03	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 22:03	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 22:03	WG2406633
Chloroform	0.0810	J	0.0166	0.100	1	11/22/2024 22:03	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 22:03	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 22:03	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 22:03	WG2406633



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 22:03	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 22:03	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 22:03	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 22:03	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 22:03	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 22:03	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 22:03	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 22:03	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 22:03	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 22:03	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 22:03	WG2406633
cis-1,2-Dichloroethene	0.0820	U	0.0276	0.100	1	11/22/2024 22:03	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 22:03	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 22:03	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 22:03	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 22:03	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 22:03	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 22:03	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 22:03	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 22:03	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 22:03	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 22:03	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 22:03	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 22:03	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 22:03	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 22:03	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 22:03	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 22:03	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 22:03	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 22:03	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 22:03	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 22:03	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 22:03	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 22:03	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 22:03	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 22:03	WG2406633
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 22:03	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 22:03	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 22:03	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 22:03	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 22:03	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 22:03	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 22:03	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 22:03	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 22:03	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 22:03	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 22:03	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 22:03	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 22:03	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 22:03	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 22:03	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 22:03	WG2406633
(S) Toluene-d8	99.1			75.0-131		11/22/2024 22:03	WG2406633
(S) 4-Bromofluorobenzene	90.3			67.0-138		11/22/2024 22:03	WG2406633
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/22/2024 22:03	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4148105-2 11/19/24 12:19

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Alkalinity	U		4750	20000

Sample Narrative:
BLANK: Endpoint pH 4.5

L1800242-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1800242-02 11/19/24 12:28 • (DUP) R4148105-3 11/19/24 12:32

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	205000	206000	1	0.578		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

L1800260-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1800260-04 11/19/24 14:04 • (DUP) R4148105-4 11/19/24 14:07

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	46400	47400	1	2.11		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4148105-1 11/19/24 12:13

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	103000	103	90.0-110	

Sample Narrative:
LCS: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4147056-1 11/15/24 17:01

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		547	1000
Nitrate as (N)	U		88.4	100
Sulfate	U		637	5000

L1800090-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1800090-02 11/15/24 17:49 • (DUP) R4147056-3 11/15/24 18:04

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	115000	115000	1	0.0490	⚠	15
Nitrate as (N)	4470	4450	1	0.410		15
Sulfate	184000	184000	1	0.0641	⚠	15

L1800090-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1800090-03 11/15/24 19:24 • (DUP) R4147056-6 11/15/24 19:40

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	91800	92000	1	0.215		15
Nitrate as (N)	U	U	1	0.000		15
Sulfate	119000	119000	1	0.0195	⚠	15

Laboratory Control Sample (LCS)

(LCS) R4147056-2 11/15/24 17:17

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	39300	98.3	80.0-120	
Nitrate as (N)	8000	8060	101	80.0-120	
Sulfate	40000	39600	99.1	80.0-120	

1
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

L1800090-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1800090-02 11/15/24 17:49 • (MS) R4147056-4 11/15/24 18:20 • (MSD) R4147056-5 11/15/24 18:36

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	115000	133000	133000	44.0	43.0	1	80.0-120	E J6	E J6	0.282	15
Nitrate as (N)	8000	4470	12000	11900	94.4	93.4	1	80.0-120	E	E	0.687	15
Sulfate	40000	184000	189000	189000	12.0	11.9	1	80.0-120	E V	E V	0.0124	15

L1800090-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1800090-03 11/15/24 19:24 • (MS) R4147056-7 11/15/24 19:56

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	91800	113000	53.5	1	80.0-120	E J6
Nitrate as (N)	8000	U	7690	96.2	1	80.0-120	
Sulfate	40000	119000	136000	42.9	1	80.0-120	E J6

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4148723-2 11/20/24 11:31

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	U		495	1000

L1800138-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1800138-09 11/20/24 14:27 • (DUP) R4148723-5 11/20/24 14:47

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	3300	3340	1	1.45		20

L1800138-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1800138-13 11/20/24 20:10 • (DUP) R4148723-6 11/20/24 20:27

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4148723-1 11/20/24 11:14

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	25000	24200	96.9	85.0-115	

L1800133-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1800133-04 11/20/24 13:26 • (MS) R4148723-3 11/20/24 13:47 • (MSD) R4148723-4 11/20/24 14:08

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	U	25000	23700	99.8	94.8	1	85.0-115			5.18	20

L1800226-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1800226-01 11/20/24 22:34 • (MS) R4148723-7 11/20/24 22:57 • (MSD) R4148723-8 11/20/24 23:18

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	9220	29800	28500	82.5	77.3	1	85.0-115	J6	J6	4.49	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4150017-1 11/24/24 16:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		22.6	100
Manganese	U		0.700	5.00

Laboratory Control Sample (LCS)

(LCS) R4150017-2 11/24/24 16:30

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	1000	990	99.0	80.0-120	
Manganese	50.0	49.8	99.6	80.0-120	

L1800088-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1800088-02 11/24/24 16:33 • (MS) R4150017-6 11/24/24 17:15 • (MSD) R4150017-7 11/24/24 17:18

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	1000	56.0	1030	46700	97.9	104	1	75.0-125	J3		191	20
Manganese	50.0	1.77	50.7	2310	97.8	103	1	75.0-125	J3		191	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4150028-1 11/24/24 17:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		22.6	100
Manganese	U		0.700	5.00

Laboratory Control Sample (LCS)

(LCS) R4150028-2 11/24/24 17:30

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	1000	917	91.7	80.0-120	
Manganese	50.0	46.5	93.0	80.0-120	

L1800268-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1800268-04 11/24/24 17:34 • (MS) R4150028-4 11/24/24 17:40 • (MSD) R4150028-5 11/24/24 17:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	1000	68.3	1010	990	94.0	92.1	1	75.0-125			1.86	20
Manganese	50.0	19.4	66.3	66.6	93.7	94.4	1	75.0-125			0.525	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R4147523-2 11/18/24 17:35

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

L1800064-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1800064-01 11/18/24 21:12 • (DUP) R4147523-3 11/18/24 21:24

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

L1800163-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1800163-08 11/18/24 23:13 • (DUP) R4147523-4 11/18/24 23:35

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

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

(LCS) R4147523-1 11/18/24 17:30 • (LCSD) R4147523-5 11/18/24 23:52

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methane	67.8	70.6	73.8	104	109	85.0-115			4.43	20
Ethane	129	127	128	98.4	99.2	85.0-115			0.784	20
Ethene	127	127	128	100	101	85.0-115			0.784	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4151330-3 11/22/24 13:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromochloromethane	U		0.0452	0.200
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon disulfide	U		0.162	0.500
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.200
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4151330-3 11/22/24 13:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
2-Hexanone	U		0.400	1.00
n-Hexane	U		0.0424	0.200
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl acetate	U		0.141	0.500
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	99.3			75.0-131
(S) 4-Bromofluorobenzene	88.7			67.0-138
(S) 1,2-Dichloroethane-d4	103			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4151330-1 11/22/24 12:24 • (LCSD) R4151330-2 11/22/24 12:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	25.0	34.1	31.3	136	125	10.0-160			8.56	31
Acrylonitrile	25.0	35.0	30.5	140	122	45.0-153			13.7	22
Benzene	5.00	4.57	4.58	91.4	91.6	70.0-123			0.219	20
Bromobenzene	5.00	4.55	4.77	91.0	95.4	73.0-121			4.72	20
Bromochloromethane	5.00	5.28	5.04	106	101	77.0-128			4.65	20
Bromodichloromethane	5.00	4.62	4.72	92.4	94.4	73.0-121			2.14	20
Bromoform	5.00	3.74	3.82	74.8	76.4	64.0-132			2.12	20
Bromomethane	5.00	5.61	5.79	112	116	56.0-147			3.16	20
n-Butylbenzene	5.00	4.24	4.77	84.8	95.4	68.0-135			11.8	20
sec-Butylbenzene	5.00	4.39	4.79	87.8	95.8	74.0-130			8.71	20
tert-Butylbenzene	5.00	4.41	4.73	88.2	94.6	75.0-127			7.00	20
Carbon disulfide	5.00	4.05	4.26	81.0	85.2	56.0-133			5.05	20
Carbon tetrachloride	5.00	4.95	4.96	99.0	99.2	66.0-128			0.202	20
Chlorobenzene	5.00	4.32	4.37	86.4	87.4	76.0-128			1.15	20
Chlorodibromomethane	5.00	4.04	4.18	80.8	83.6	74.0-127			3.41	20
Chloroethane	5.00	5.51	5.70	110	114	61.0-134			3.39	20
Chloroform	5.00	4.74	4.71	94.8	94.2	72.0-123			0.635	20
Chloromethane	5.00	6.11	4.51	122	90.2	51.0-138		J3	30.1	20
2-Chlorotoluene	5.00	4.69	4.88	93.8	97.6	75.0-124			3.97	20
4-Chlorotoluene	5.00	4.54	4.80	90.8	96.0	75.0-124			5.57	20
1,2-Dibromo-3-Chloropropane	5.00	4.32	3.93	86.4	78.6	59.0-130			9.45	20
1,2-Dibromoethane	5.00	4.47	4.53	89.4	90.6	74.0-128			1.33	20
Dibromomethane	5.00	4.87	4.76	97.4	95.2	75.0-122			2.28	20
1,2-Dichlorobenzene	5.00	4.46	4.56	89.2	91.2	76.0-124			2.22	20
1,3-Dichlorobenzene	5.00	4.33	4.51	86.6	90.2	76.0-125			4.07	20
1,4-Dichlorobenzene	5.00	4.39	4.52	87.8	90.4	77.0-121			2.92	20
trans-1,4-Dichloro-2-butene	5.00	3.53	3.77	70.6	75.4	45.0-143			6.58	20
Dichlorodifluoromethane	5.00	4.57	4.68	91.4	93.6	43.0-156			2.38	20
1,1-Dichloroethane	5.00	5.14	5.02	103	100	70.0-127			2.36	20
1,2-Dichloroethane	5.00	4.71	4.60	94.2	92.0	65.0-131			2.36	20
1,1-Dichloroethene	5.00	4.91	4.95	98.2	99.0	65.0-131			0.811	20
cis-1,2-Dichloroethene	5.00	4.93	4.90	98.6	98.0	73.0-125			0.610	20
trans-1,2-Dichloroethene	5.00	4.61	4.71	92.2	94.2	71.0-125			2.15	20
1,2-Dichloropropane	5.00	4.95	5.04	99.0	101	74.0-125			1.80	20
1,1-Dichloropropene	5.00	4.82	4.87	96.4	97.4	73.0-125			1.03	20
1,3-Dichloropropane	5.00	4.62	4.81	92.4	96.2	80.0-125			4.03	20
cis-1,3-Dichloropropene	5.00	4.66	4.93	93.2	98.6	76.0-127			5.63	20
trans-1,3-Dichloropropene	5.00	4.23	4.47	84.6	89.4	73.0-127			5.52	20
2,2-Dichloropropane	5.00	6.29	5.91	126	118	59.0-135			6.23	20
Di-isopropyl ether	5.00	5.05	4.86	101	97.2	60.0-136			3.83	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4151330-1 11/22/24 12:24 • (LCSD) R4151330-2 11/22/24 12:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	5.00	4.43	4.46	88.6	89.2	74.0-126			0.675	20
Hexachloro-1,3-butadiene	5.00	3.70	4.44	74.0	88.8	57.0-150			18.2	20
2-Hexanone	25.0	24.7	24.1	98.8	96.4	54.0-147			2.46	20
n-Hexane	5.00	4.36	4.59	87.2	91.8	55.0-137			5.14	20
Iodomethane	25.0	23.1	22.5	92.4	90.0	74.0-134			2.63	20
Isopropylbenzene	5.00	4.51	4.57	90.2	91.4	72.0-127			1.32	20
p-Isopropyltoluene	5.00	4.52	4.85	90.4	97.0	72.0-133			7.04	20
2-Butanone (MEK)	25.0	27.2	26.4	109	106	30.0-160			2.99	24
Methylene Chloride	5.00	5.36	5.21	107	104	68.0-123			2.84	20
4-Methyl-2-pentanone (MIBK)	25.0	29.7	27.7	119	111	56.0-143			6.97	20
Methyl tert-butyl ether	5.00	5.54	4.61	111	92.2	66.0-132			18.3	20
Naphthalene	5.00	4.28	3.91	85.6	78.2	59.0-130			9.04	20
n-Propylbenzene	5.00	4.46	4.85	89.2	97.0	74.0-126			8.38	20
Styrene	5.00	4.52	4.40	90.4	88.0	72.0-127			2.69	20
1,1,1,2-Tetrachloroethane	5.00	4.36	4.36	87.2	87.2	74.0-129			0.000	20
1,1,2,2-Tetrachloroethane	5.00	5.09	5.00	102	100	68.0-128			1.78	20
1,1,2-Trichlorotrifluoroethane	5.00	4.81	4.90	96.2	98.0	61.0-139			1.85	20
Tetrachloroethene	5.00	4.32	4.48	86.4	89.6	70.0-136			3.64	20
Toluene	5.00	4.37	4.43	87.4	88.6	75.0-121			1.36	20
1,2,3-Trichlorobenzene	5.00	4.22	4.39	84.4	87.8	59.0-139			3.95	20
1,2,4-Trichlorobenzene	5.00	3.97	4.18	79.4	83.6	62.0-137			5.15	20
1,1,1-Trichloroethane	5.00	5.04	4.99	101	99.8	69.0-126			0.997	20
1,1,2-Trichloroethane	5.00	4.66	4.91	93.2	98.2	78.0-123			5.22	20
Trichloroethene	5.00	4.36	4.57	87.2	91.4	76.0-126			4.70	20
Trichlorofluoromethane	5.00	4.70	5.31	94.0	106	61.0-142	U	U	12.2	20
1,2,3-Trichloropropane	5.00	5.47	5.17	109	103	67.0-129			5.64	20
1,2,4-Trimethylbenzene	5.00	4.54	4.75	90.8	95.0	70.0-126			4.52	20
1,2,3-Trimethylbenzene	5.00	4.45	4.58	89.0	91.6	74.0-124			2.88	20
1,3,5-Trimethylbenzene	5.00	4.36	4.51	87.2	90.2	73.0-127			3.38	20
Vinyl acetate	25.0	27.2	25.2	109	101	43.0-159			7.63	20
Vinyl chloride	5.00	4.94	4.95	98.8	99.0	63.0-134			0.202	20
Xylenes, Total	15.0	12.8	13.1	85.3	87.3	72.0-127			2.32	20
(S) Toluene-d8				93.4	95.3	75.0-131				
(S) 4-Bromofluorobenzene				96.8	95.4	67.0-138				
(S) 1,2-Dichloroethane-d4				112	106	70.0-130				

1
Cp

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Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4151898-3 11/27/24 08:54

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Ethylbenzene	U		0.0212	0.100
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Tetrachloroethene	U		0.0280	0.100
Trichloroethene	U		0.0160	0.0400
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	103			75.0-131
(S) 4-Bromofluorobenzene	101			67.0-138
(S) 1,2-Dichloroethane-d4	103			70.0-130

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

(LCS) R4151898-1 11/27/24 07:35 • (LCSD) R4151898-2 11/27/24 07:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	5.00	5.05	4.95	101	99.0	73.0-125			2.00	20
Ethylbenzene	5.00	5.18	5.00	104	100	74.0-126			3.54	20
Naphthalene	5.00	4.64	3.38	92.8	67.6	59.0-130		J3	31.4	20
n-Propylbenzene	5.00	4.90	5.13	98.0	103	74.0-126			4.59	20
Tetrachloroethene	5.00	5.22	5.18	104	104	70.0-136			0.769	20
Trichloroethene	5.00	5.35	5.10	107	102	76.0-126			4.78	20
1,2,4-Trimethylbenzene	5.00	4.25	4.54	85.0	90.8	70.0-126			6.60	20
1,2,3-Trimethylbenzene	5.00	4.48	4.39	89.6	87.8	74.0-124			2.03	20
1,3,5-Trimethylbenzene	5.00	4.42	4.63	88.4	92.6	73.0-127			4.64	20
Xylenes, Total	15.0	14.7	14.6	98.0	97.3	72.0-127			0.683	20
(S) Toluene-d8				102	102	75.0-131				
(S) 4-Bromofluorobenzene				101	99.2	67.0-138				
(S) 1,2-Dichloroethane-d4				108	101	70.0-130				

1
Cp

2
Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

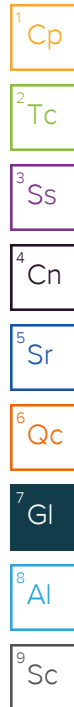
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

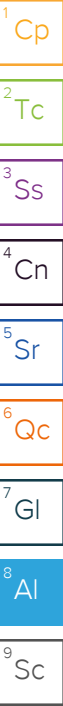
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



Company Name/Address: PES Environmental, Inc.- WA 2101 Fourth Ave., Suite 1310 Seattle, WA 98121				Billing Information: Attn: Accounts Payable 2101 4th Avenue, Suite 1310 Seattle, WA 98121				Pres Chk		Analysis / Container / Preservative								Chain of Custody Page 1 of 2	
Report to: Daniel Balbiani				Email To: Daniel.balbani@nv5.com;sam.graber@nv5.com														PEOPLE ADVANCING SCIENCE MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf SDG # L1860176 F056 Acctnum: PESENVSWA Template: T262759 Prelogin: P1112668 PM: 3768 - Jordan Dozier PB: Shipped Via: FedEX Ground	
Project Description: American Linen				City/State Collected: Seattle, WA		Please Circle: PT MT CT ET													
Phone: 206-529-3980		Client Project # 1413001.10.603.04 701.02		Lab Project # PESENVSWA-ALP															
Collected by (print): D. Del Giudice		Site/Facility ID #		P.O. # 1413001.10.603.04															
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #		Date Results Needed		No. of Cntrs											
Immediately Packed on Ice ☐ N ☒ Y																			
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time													
MW-328-111424		G	GW	—	11/14/24	0951	3												
MW-341-111424			GW			1039	1												
MW-327-111424			GW			1126													
MW-340-111424			GW			1208													
MW-338-111424			GW			1253													
MW123-111424			GW			1359													
MW128-111424			GW			0749													
MW-329-111424			GW			0823													
MW-335-111424			GW			0922	9	X	X	X	X	X	X	X	X	X			
MW-336-111424			GW			1011	3												
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Tier 2 lab QA/QC (Batch QC OK)				pH _____ Temp _____ Flow _____ Other _____				Sample Receipt Checklist COC Seal Present/Intact: ☒ NP ☐ Y ☐ N COC Signed/Accurate: ☐ Y ☐ N Bottles arrive intact: ☐ Y ☐ N Correct bottles used: ☐ Y ☐ N Sufficient volume sent: ☐ Y ☐ N If Applicable VOA Zero Headspace: ☐ Y ☐ N Preservation Correct/Checked: ☐ Y ☐ N RAD Screen <0.5 mR/hr: ☒ Y ☐ N									
Samples returned via: ☐ UPS ☐ FedEx ☐ Courier		Tracking #																	
Relinquished by: (Signature) 		Date: 11/14/24	Time: 1447	Received by: (Signature)		Trip Blank Received: Yes/No HCL MeOH TBR													
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: °C Bottles Received:		If preservation required by Login: Date/Time											
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature)		Date: Time:		Hold:				Condition: NCF / (OK)							

[illegible]

PES Environmental, Inc.- WA

Sample Delivery Group: L1800716
Samples Received: 11/16/2024
Project Number: 1413001.10.603.04
Description: American Linen

Report To: Craig Peterson
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



Jordan Dozier
Project Manager

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

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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

SAMPLE SUMMARY

FMW-142-111524 L1800716-01 GW

				Collected by D. Del G	Collected date/time 11/15/24 06:20	Received date/time 11/16/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 22:22	11/22/24 22:22	JBE	Mt. Juliet, TN

FMW-140-111524 L1800716-02 GW

				Collected by D. Del G	Collected date/time 11/15/24 08:10	Received date/time 11/16/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 22:41	11/22/24 22:41	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2409819	10	11/28/24 11:52	11/28/24 11:52	DWR	Mt. Juliet, TN

FMW-137-111524 L1800716-03 GW

				Collected by D. Del G	Collected date/time 11/15/24 09:42	Received date/time 11/16/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 23:01	11/22/24 23:01	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2409707	10	11/27/24 15:39	11/27/24 15:39	JHH	Mt. Juliet, TN

GEI-MW-1-111524 L1800716-04 GW

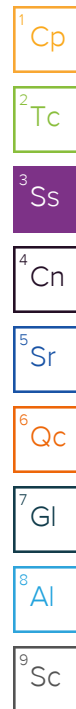
				Collected by D. Del G	Collected date/time 11/15/24 10:31	Received date/time 11/16/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 23:20	11/22/24 23:20	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2409707	1	11/27/24 14:41	11/27/24 14:41	JHH	Mt. Juliet, TN

MW-170-111524 L1800716-05 GW

				Collected by D. Del G	Collected date/time 11/15/24 11:20	Received date/time 11/16/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2403981	1	11/19/24 16:20	11/19/24 16:20	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2402993	1	11/16/24 19:22	11/16/24 19:22	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2406226	1	11/22/24 20:01	11/22/24 20:01	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2405967	1	11/26/24 22:16	11/30/24 11:18	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2405967	10	11/26/24 22:16	11/30/24 11:59	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403965	1	11/20/24 12:20	11/20/24 12:20	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2405297	10	11/20/24 15:45	11/20/24 15:45	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406633	1	11/22/24 23:39	11/22/24 23:39	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2409819	250	11/28/24 12:11	11/28/24 12:11	DWR	Mt. Juliet, TN

MW-998-111524 L1800716-06 GW

				Collected by D. Del G	Collected date/time 11/15/24 11:11	Received date/time 11/16/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2403981	1	11/19/24 16:25	11/19/24 16:25	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2402993	1	11/16/24 19:47	11/16/24 19:47	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2406226	1	11/22/24 21:28	11/22/24 21:28	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2405967	1	11/26/24 22:16	11/30/24 11:21	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2405967	10	11/26/24 22:16	11/30/24 12:02	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403965	1	11/20/24 12:31	11/20/24 12:31	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2405297	10	11/20/24 15:48	11/20/24 15:48	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408141	1	11/25/24 18:28	11/25/24 18:28	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2409739	250	11/27/24 22:46	11/27/24 22:46	JHH	Mt. Juliet, TN



SAMPLE SUMMARY

MW-171-111524 L1800716-07 GW

Collected by
D. Del G

Collected date/time
11/15/24 12:59

Received date/time
11/16/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2403994	1	11/19/24 13:35	11/19/24 13:35	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2402993	1	11/16/24 20:13	11/16/24 20:13	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2406687	1	11/22/24 17:00	11/22/24 17:00	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2405967	1	11/26/24 22:16	11/30/24 11:24	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2405967	5	11/26/24 22:16	11/30/24 12:06	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403965	1	11/20/24 13:34	11/20/24 13:34	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2405297	10	11/20/24 15:53	11/20/24 15:53	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408141	1	11/25/24 18:47	11/25/24 18:47	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2409739	250	11/27/24 23:06	11/27/24 23:06	JHH	Mt. Juliet, TN

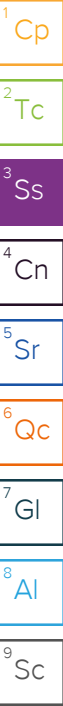
TB-111524 L1800716-08 GW

Collected by
D. Del G

Collected date/time
11/15/24 00:00

Received date/time
11/16/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408141	1	11/25/24 12:14	11/25/24 12:14	ACG	Mt. Juliet, TN



CASE NARRATIVE

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



Jordan Dozier
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

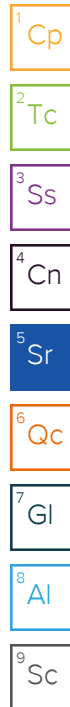
⁷ Gl

⁸ Al

⁹ Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 22:22	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 22:22	WG2406633
Benzene	U		0.0160	0.0400	1	11/22/2024 22:22	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 22:22	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 22:22	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 22:22	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 22:22	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 22:22	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 22:22	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 22:22	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 22:22	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 22:22	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 22:22	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 22:22	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 22:22	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 22:22	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 22:22	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 22:22	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 22:22	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 22:22	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 22:22	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 22:22	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 22:22	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 22:22	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 22:22	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 22:22	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 22:22	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 22:22	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 22:22	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 22:22	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 22:22	WG2406633
cis-1,2-Dichloroethene	0.0890	J	0.0276	0.100	1	11/22/2024 22:22	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 22:22	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 22:22	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 22:22	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 22:22	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 22:22	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 22:22	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 22:22	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 22:22	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 22:22	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 22:22	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 22:22	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 22:22	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 22:22	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 22:22	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 22:22	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 22:22	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 22:22	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 22:22	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 22:22	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 22:22	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 22:22	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 22:22	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 22:22	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 22:22	WG2406633



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 22:22	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 22:22	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 22:22	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 22:22	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 22:22	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 22:22	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 22:22	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 22:22	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 22:22	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 22:22	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 22:22	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 22:22	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 22:22	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 22:22	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 22:22	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 22:22	WG2406633
(S) Toluene-d8	99.9			75.0-131		11/22/2024 22:22	WG2406633
(S) 4-Bromofluorobenzene	91.8			67.0-138		11/22/2024 22:22	WG2406633
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2024 22:22	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 22:41	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 22:41	WG2406633
Benzene	29.2		0.0160	0.0400	1	11/22/2024 22:41	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 22:41	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 22:41	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 22:41	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 22:41	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 22:41	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 22:41	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 22:41	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 22:41	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 22:41	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 22:41	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 22:41	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 22:41	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 22:41	WG2406633
Chloroform	0.220		0.0166	0.100	1	11/22/2024 22:41	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 22:41	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 22:41	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 22:41	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 22:41	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 22:41	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 22:41	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 22:41	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 22:41	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 22:41	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 22:41	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 22:41	WG2406633
1,1-Dichloroethane	0.128		0.0230	0.100	1	11/22/2024 22:41	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 22:41	WG2406633
1,1-Dichloroethene	0.155		0.0200	0.100	1	11/22/2024 22:41	WG2406633
cis-1,2-Dichloroethene	45.1		0.0276	0.100	1	11/22/2024 22:41	WG2406633
trans-1,2-Dichloroethene	0.300		0.0572	0.200	1	11/22/2024 22:41	WG2406633
1,2-Dichloropropane	0.0800	J	0.0508	0.200	1	11/22/2024 22:41	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 22:41	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 22:41	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 22:41	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 22:41	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 22:41	WG2406633
Di-isopropyl ether	0.439		0.0140	0.0400	1	11/22/2024 22:41	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 22:41	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 22:41	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 22:41	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 22:41	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 22:41	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 22:41	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 22:41	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 22:41	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 22:41	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 22:41	WG2406633
Methyl tert-butyl ether	0.258		0.0118	0.0400	1	11/22/2024 22:41	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 22:41	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 22:41	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 22:41	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 22:41	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 22:41	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

FMW-140-111524

SAMPLE RESULTS - 02

Collected date/time: 11/15/24 08:10

L1800716

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 22:41	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 22:41	WG2406633
Toluene	0.119	J	0.0500	0.200	1	11/22/2024 22:41	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 22:41	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 22:41	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 22:41	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 22:41	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 22:41	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 22:41	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 22:41	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 22:41	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 22:41	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 22:41	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 22:41	WG2406633
Vinyl chloride	144		0.273	1.00	10	11/28/2024 11:52	WG2409819
Xylenes, Total	U		0.191	0.260	1	11/22/2024 22:41	WG2406633
(S) Toluene-d8	101			75.0-131		11/22/2024 22:41	WG2406633
(S) Toluene-d8	96.8			75.0-131		11/28/2024 11:52	WG2409819
(S) 4-Bromofluorobenzene	95.5			67.0-138		11/22/2024 22:41	WG2406633
(S) 4-Bromofluorobenzene	101			67.0-138		11/28/2024 11:52	WG2409819
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/22/2024 22:41	WG2406633
(S) 1,2-Dichloroethane-d4	114			70.0-130		11/28/2024 11:52	WG2409819

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

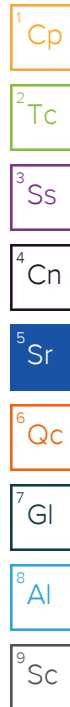
7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 23:01	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 23:01	WG2406633
Benzene	0.100		0.0160	0.0400	1	11/22/2024 23:01	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 23:01	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 23:01	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 23:01	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 23:01	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 23:01	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 23:01	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 23:01	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 23:01	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 23:01	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 23:01	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 23:01	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 23:01	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 23:01	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 23:01	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 23:01	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 23:01	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 23:01	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 23:01	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 23:01	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 23:01	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 23:01	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 23:01	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 23:01	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 23:01	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 23:01	WG2406633
1,1-Dichloroethane	0.107		0.0230	0.100	1	11/22/2024 23:01	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 23:01	WG2406633
1,1-Dichloroethene	0.0960	J	0.0200	0.100	1	11/22/2024 23:01	WG2406633
cis-1,2-Dichloroethene	112		0.276	1.00	10	11/27/2024 15:39	WG2409707
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 23:01	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 23:01	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 23:01	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 23:01	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 23:01	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 23:01	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 23:01	WG2406633
Di-isopropyl ether	0.110		0.0140	0.0400	1	11/22/2024 23:01	WG2406633
Ethylbenzene	0.0860	J	0.0212	0.100	1	11/22/2024 23:01	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 23:01	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 23:01	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 23:01	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 23:01	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 23:01	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 23:01	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 23:01	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 23:01	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 23:01	WG2406633
Methyl tert-butyl ether	0.0280	J	0.0118	0.0400	1	11/22/2024 23:01	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 23:01	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 23:01	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 23:01	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 23:01	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 23:01	WG2406633



FMW-137-111524

Collected date/time: 11/15/24 09:42

SAMPLE RESULTS - 03

L1800716

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 23:01	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 23:01	WG2406633
Toluene	0.244		0.0500	0.200	1	11/22/2024 23:01	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 23:01	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 23:01	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 23:01	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 23:01	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 23:01	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 23:01	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 23:01	WG2406633
1,2,4-Trimethylbenzene	0.101	J	0.0464	0.200	1	11/22/2024 23:01	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 23:01	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 23:01	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 23:01	WG2406633
Vinyl chloride	0.515		0.0273	0.100	1	11/22/2024 23:01	WG2406633
Xylenes, Total	0.529		0.191	0.260	1	11/22/2024 23:01	WG2406633
(S) Toluene-d8	98.4			75.0-131		11/22/2024 23:01	WG2406633
(S) Toluene-d8	102			75.0-131		11/27/2024 15:39	WG2409707
(S) 4-Bromofluorobenzene	94.1			67.0-138		11/22/2024 23:01	WG2406633
(S) 4-Bromofluorobenzene	98.4			67.0-138		11/27/2024 15:39	WG2409707
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/22/2024 23:01	WG2406633
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/27/2024 15:39	WG2409707

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

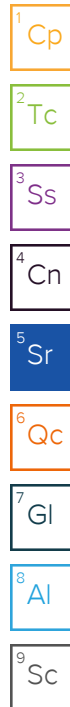
7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 23:20	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 23:20	WG2406633
Benzene	U		0.0160	0.0400	1	11/22/2024 23:20	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 23:20	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 23:20	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 23:20	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 23:20	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 23:20	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 23:20	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 23:20	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 23:20	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 23:20	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 23:20	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 23:20	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 23:20	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 23:20	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 23:20	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 23:20	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 23:20	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 23:20	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 23:20	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 23:20	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 23:20	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 23:20	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 23:20	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 23:20	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 23:20	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 23:20	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 23:20	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 23:20	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 23:20	WG2406633
cis-1,2-Dichloroethene	0.0540	J	0.0276	0.100	1	11/27/2024 14:41	WG2409707
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 23:20	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 23:20	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 23:20	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 23:20	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 23:20	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 23:20	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 23:20	WG2406633
Di-isopropyl ether	0.0570		0.0140	0.0400	1	11/22/2024 23:20	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 23:20	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 23:20	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 23:20	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 23:20	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 23:20	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 23:20	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 23:20	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 23:20	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 23:20	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 23:20	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 23:20	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 23:20	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 23:20	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 23:20	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 23:20	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 23:20	WG2406633



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 23:20	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 23:20	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 23:20	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 23:20	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 23:20	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 23:20	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 23:20	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 23:20	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 23:20	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 23:20	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 23:20	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 23:20	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 23:20	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 23:20	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 23:20	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 23:20	WG2406633
(S) Toluene-d8	98.3			75.0-131		11/22/2024 23:20	WG2406633
(S) Toluene-d8	101			75.0-131		11/27/2024 14:41	WG2409707
(S) 4-Bromofluorobenzene	87.8			67.0-138		11/22/2024 23:20	WG2406633
(S) 4-Bromofluorobenzene	98.3			67.0-138		11/27/2024 14:41	WG2409707
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/22/2024 23:20	WG2406633
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/27/2024 14:41	WG2409707

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	621000		4750	20000	1	11/19/2024 16:20	WG2403981

Sample Narrative:
L1800716-05 WG2403981: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	193000		547	1000	1	11/16/2024 19:22	WG2402993
Nitrate as (N)	U		88.4	100	1	11/16/2024 19:22	WG2402993
Sulfate	7690		637	5000	1	11/16/2024 19:22	WG2402993

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	23200		495	1000	1	11/22/2024 20:01	WG2406226

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	2970		22.6	100	1	11/30/2024 11:18	WG2405967
Manganese	1550		7.00	50.0	10	11/30/2024 11:59	WG2405967

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	32800		2.87	6.78	10	11/20/2024 15:45	WG2405297
Ethane	42.4		0.296	1.29	1	11/20/2024 12:20	WG2403965
Ethene	909		0.422	1.27	1	11/20/2024 12:20	WG2403965

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/22/2024 23:39	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 23:39	WG2406633
Benzene	0.313		0.0160	0.0400	1	11/22/2024 23:39	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 23:39	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 23:39	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 23:39	WG2406633
Bromoform	U	C3	0.239	1.00	1	11/22/2024 23:39	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 23:39	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 23:39	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 23:39	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 23:39	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 23:39	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 23:39	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 23:39	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 23:39	WG2406633
Chloroethane	6.24		0.0432	0.200	1	11/22/2024 23:39	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 23:39	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 23:39	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 23:39	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 23:39	WG2406633

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 23:39	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 23:39	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 23:39	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 23:39	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 23:39	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 23:39	WG2406633
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/22/2024 23:39	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 23:39	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 23:39	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 23:39	WG2406633
1,1-Dichloroethene	49.6		0.0200	0.100	1	11/22/2024 23:39	WG2406633
cis-1,2-Dichloroethene	16900		6.90	25.0	250	11/28/2024 12:11	WG2409819
trans-1,2-Dichloroethene	334		14.3	50.0	250	11/28/2024 12:11	WG2409819
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 23:39	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 23:39	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 23:39	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 23:39	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 23:39	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 23:39	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 23:39	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 23:39	WG2406633
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/22/2024 23:39	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 23:39	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 23:39	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 23:39	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 23:39	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 23:39	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 23:39	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 23:39	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 23:39	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 23:39	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 23:39	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 23:39	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 23:39	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 23:39	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 23:39	WG2406633
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 23:39	WG2406633
Tetrachloroethene	45.0		0.0280	0.100	1	11/22/2024 23:39	WG2406633
Toluene	0.297		0.0500	0.200	1	11/22/2024 23:39	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 23:39	WG2406633
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/22/2024 23:39	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 23:39	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 23:39	WG2406633
Trichloroethene	195		4.00	10.0	250	11/28/2024 12:11	WG2409819
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 23:39	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 23:39	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 23:39	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 23:39	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 23:39	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 23:39	WG2406633
Vinyl chloride	16900		6.82	25.0	250	11/28/2024 12:11	WG2409819
Xylenes, Total	U		0.191	0.260	1	11/22/2024 23:39	WG2406633
(S) Toluene-d8	100			75.0-131		11/22/2024 23:39	WG2406633
(S) Toluene-d8	96.5			75.0-131		11/28/2024 12:11	WG2409819
(S) 4-Bromofluorobenzene	93.4			67.0-138		11/22/2024 23:39	WG2406633
(S) 4-Bromofluorobenzene	94.3			67.0-138		11/28/2024 12:11	WG2409819

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/22/2024 23:39	WG2406633
(S) 1,2-Dichloroethane-d4	113			70.0-130		11/28/2024 12:11	WG2409819

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	611000		4750	20000	1	11/19/2024 16:25	WG2403981

Sample Narrative:

L1800716-06 WG2403981: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	198000		547	1000	1	11/16/2024 19:47	WG2402993
Nitrate as (N)	U		88.4	100	1	11/16/2024 19:47	WG2402993
Sulfate	7580		637	5000	1	11/16/2024 19:47	WG2402993

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	18400		495	1000	1	11/22/2024 21:28	WG2406226

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2830		22.6	100	1	11/30/2024 11:21	WG2405967
Manganese	1590		7.00	50.0	10	11/30/2024 12:02	WG2405967

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	32000		2.87	6.78	10	11/20/2024 15:48	WG2405297
Ethane	41.9		0.296	1.29	1	11/20/2024 12:31	WG2403965
Ethene	900		0.422	1.27	1	11/20/2024 12:31	WG2403965

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/25/2024 18:28	WG2408141
Acrylonitrile	U		0.0760	0.500	1	11/25/2024 18:28	WG2408141
Benzene	0.275		0.0160	0.0400	1	11/25/2024 18:28	WG2408141
Bromobenzene	U		0.0420	0.500	1	11/25/2024 18:28	WG2408141
Bromochloromethane	U		0.0452	0.200	1	11/25/2024 18:28	WG2408141
Bromodichloromethane	U		0.0315	0.100	1	11/25/2024 18:28	WG2408141
Bromoform	U		0.239	1.00	1	11/25/2024 18:28	WG2408141
Bromomethane	U		0.148	0.500	1	11/25/2024 18:28	WG2408141
n-Butylbenzene	U		0.153	0.500	1	11/25/2024 18:28	WG2408141
sec-Butylbenzene	U		0.101	0.500	1	11/25/2024 18:28	WG2408141
tert-Butylbenzene	U		0.0620	0.200	1	11/25/2024 18:28	WG2408141
Carbon disulfide	U		0.162	0.500	1	11/25/2024 18:28	WG2408141
Carbon tetrachloride	U		0.0432	0.200	1	11/25/2024 18:28	WG2408141
Chlorobenzene	U		0.0229	0.100	1	11/25/2024 18:28	WG2408141
Chlorodibromomethane	U		0.0180	0.100	1	11/25/2024 18:28	WG2408141
Chloroethane	6.74		0.0432	0.200	1	11/25/2024 18:28	WG2408141
Chloroform	U		0.0166	0.100	1	11/25/2024 18:28	WG2408141
Chloromethane	U		0.0556	0.500	1	11/25/2024 18:28	WG2408141
2-Chlorotoluene	U		0.0368	0.100	1	11/25/2024 18:28	WG2408141
4-Chlorotoluene	U		0.0452	0.200	1	11/25/2024 18:28	WG2408141

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/25/2024 18:28	WG2408141
1,2-Dibromoethane	U		0.0210	0.100	1	11/25/2024 18:28	WG2408141
Dibromomethane	U		0.0400	0.200	1	11/25/2024 18:28	WG2408141
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/25/2024 18:28	WG2408141
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/25/2024 18:28	WG2408141
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/25/2024 18:28	WG2408141
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/25/2024 18:28	WG2408141
Dichlorodifluoromethane	U		0.0327	0.200	1	11/25/2024 18:28	WG2408141
1,1-Dichloroethane	U		0.0230	0.100	1	11/25/2024 18:28	WG2408141
1,2-Dichloroethane	U		0.0190	0.100	1	11/25/2024 18:28	WG2408141
1,1-Dichloroethene	44.4		0.0200	0.100	1	11/25/2024 18:28	WG2408141
cis-1,2-Dichloroethene	16800		6.90	25.0	250	11/27/2024 22:46	WG2409739
trans-1,2-Dichloroethene	301		14.3	50.0	250	11/27/2024 22:46	WG2409739
1,2-Dichloropropane	U		0.0508	0.200	1	11/25/2024 18:28	WG2408141
1,1-Dichloropropene	U		0.0280	0.100	1	11/25/2024 18:28	WG2408141
1,3-Dichloropropane	U		0.0700	0.200	1	11/25/2024 18:28	WG2408141
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/25/2024 18:28	WG2408141
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/25/2024 18:28	WG2408141
2,2-Dichloropropane	U		0.0317	0.100	1	11/25/2024 18:28	WG2408141
Di-isopropyl ether	U		0.0140	0.0400	1	11/25/2024 18:28	WG2408141
Ethylbenzene	U		0.0212	0.100	1	11/25/2024 18:28	WG2408141
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/25/2024 18:28	WG2408141
2-Hexanone	U		0.400	1.00	1	11/25/2024 18:28	WG2408141
n-Hexane	U		0.0424	0.200	1	11/25/2024 18:28	WG2408141
Iodomethane	U		0.242	0.500	1	11/25/2024 18:28	WG2408141
Isopropylbenzene	U		0.0345	0.100	1	11/25/2024 18:28	WG2408141
p-Isopropyltoluene	U		0.0932	0.200	1	11/25/2024 18:28	WG2408141
2-Butanone (MEK)	U		0.500	1.00	1	11/25/2024 18:28	WG2408141
Methylene Chloride	U		0.265	1.00	1	11/25/2024 18:28	WG2408141
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/25/2024 18:28	WG2408141
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/25/2024 18:28	WG2408141
Naphthalene	U		0.124	0.500	1	11/25/2024 18:28	WG2408141
n-Propylbenzene	U		0.0472	0.200	1	11/25/2024 18:28	WG2408141
Styrene	U		0.109	0.500	1	11/25/2024 18:28	WG2408141
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/25/2024 18:28	WG2408141
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/25/2024 18:28	WG2408141
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/25/2024 18:28	WG2408141
Tetrachloroethene	42.3		0.0280	0.100	1	11/25/2024 18:28	WG2408141
Toluene	0.281		0.0500	0.200	1	11/25/2024 18:28	WG2408141
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/25/2024 18:28	WG2408141
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/25/2024 18:28	WG2408141
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/25/2024 18:28	WG2408141
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/25/2024 18:28	WG2408141
Trichloroethene	112	E	0.0160	0.0400	1	11/25/2024 18:28	WG2408141
Trichlorofluoromethane	U		0.0200	0.100	1	11/25/2024 18:28	WG2408141
1,2,3-Trichloropropane	U		0.204	0.500	1	11/25/2024 18:28	WG2408141
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/25/2024 18:28	WG2408141
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/25/2024 18:28	WG2408141
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/25/2024 18:28	WG2408141
Vinyl acetate	U		0.141	0.500	1	11/25/2024 18:28	WG2408141
Vinyl chloride	11800		6.82	25.0	250	11/27/2024 22:46	WG2409739
Xylenes, Total	U		0.191	0.260	1	11/25/2024 18:28	WG2408141
(S) Toluene-d8	99.3			75.0-131		11/25/2024 18:28	WG2408141
(S) Toluene-d8	103			75.0-131		11/27/2024 22:46	WG2409739
(S) 4-Bromofluorobenzene	92.5			67.0-138		11/25/2024 18:28	WG2408141
(S) 4-Bromofluorobenzene	78.8			67.0-138		11/27/2024 22:46	WG2409739

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/25/2024 18:28	WG2408141
(S) 1,2-Dichloroethane-d4	96.3			70.0-130		11/27/2024 22:46	WG2409739

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	336000		4750	20000	1	11/19/2024 13:35	WG2403994

Sample Narrative:
L1800716-07 WG2403994: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	116000		547	1000	1	11/16/2024 20:13	WG2402993
Nitrate as (N)	U		88.4	100	1	11/16/2024 20:13	WG2402993
Sulfate	11500		637	5000	1	11/16/2024 20:13	WG2402993

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6370		495	1000	1	11/22/2024 17:00	WG2406687

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	2000		22.6	100	1	11/30/2024 11:24	WG2405967
Manganese	645		3.50	25.0	5	11/30/2024 12:06	WG2405967

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	9070		2.87	6.78	10	11/20/2024 15:53	WG2405297
Ethane	21.0		0.296	1.29	1	11/20/2024 13:34	WG2403965
Ethene	921		0.422	1.27	1	11/20/2024 13:34	WG2403965

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/25/2024 18:47	WG2408141
Acrylonitrile	U		0.0760	0.500	1	11/25/2024 18:47	WG2408141
Benzene	0.217		0.0160	0.0400	1	11/25/2024 18:47	WG2408141
Bromobenzene	U		0.0420	0.500	1	11/25/2024 18:47	WG2408141
Bromochloromethane	U		0.0452	0.200	1	11/25/2024 18:47	WG2408141
Bromodichloromethane	U		0.0315	0.100	1	11/25/2024 18:47	WG2408141
Bromoform	U		0.239	1.00	1	11/25/2024 18:47	WG2408141
Bromomethane	U		0.148	0.500	1	11/25/2024 18:47	WG2408141
n-Butylbenzene	U		0.153	0.500	1	11/25/2024 18:47	WG2408141
sec-Butylbenzene	U		0.101	0.500	1	11/25/2024 18:47	WG2408141
tert-Butylbenzene	U		0.0620	0.200	1	11/25/2024 18:47	WG2408141
Carbon disulfide	U		0.162	0.500	1	11/25/2024 18:47	WG2408141
Carbon tetrachloride	U		0.0432	0.200	1	11/25/2024 18:47	WG2408141
Chlorobenzene	U		0.0229	0.100	1	11/25/2024 18:47	WG2408141
Chlorodibromomethane	U		0.0180	0.100	1	11/25/2024 18:47	WG2408141
Chloroethane	U		0.0432	0.200	1	11/25/2024 18:47	WG2408141
Chloroform	U		0.0166	0.100	1	11/25/2024 18:47	WG2408141
Chloromethane	U		0.0556	0.500	1	11/25/2024 18:47	WG2408141
2-Chlorotoluene	U		0.0368	0.100	1	11/25/2024 18:47	WG2408141
4-Chlorotoluene	U		0.0452	0.200	1	11/25/2024 18:47	WG2408141

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/25/2024 18:47	WG2408141
1,2-Dibromoethane	U		0.0210	0.100	1	11/25/2024 18:47	WG2408141
Dibromomethane	U		0.0400	0.200	1	11/25/2024 18:47	WG2408141
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/25/2024 18:47	WG2408141
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/25/2024 18:47	WG2408141
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/25/2024 18:47	WG2408141
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/25/2024 18:47	WG2408141
Dichlorodifluoromethane	U		0.0327	0.200	1	11/25/2024 18:47	WG2408141
1,1-Dichloroethane	0.0870	L	0.0230	0.100	1	11/25/2024 18:47	WG2408141
1,2-Dichloroethane	U		0.0190	0.100	1	11/25/2024 18:47	WG2408141
1,1-Dichloroethene	57.6		0.0200	0.100	1	11/25/2024 18:47	WG2408141
cis-1,2-Dichloroethene	7840		6.90	25.0	250	11/27/2024 23:06	WG2409739
trans-1,2-Dichloroethene	16.5		0.0572	0.200	1	11/25/2024 18:47	WG2408141
1,2-Dichloropropane	U		0.0508	0.200	1	11/25/2024 18:47	WG2408141
1,1-Dichloropropene	U		0.0280	0.100	1	11/25/2024 18:47	WG2408141
1,3-Dichloropropane	U		0.0700	0.200	1	11/25/2024 18:47	WG2408141
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/25/2024 18:47	WG2408141
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/25/2024 18:47	WG2408141
2,2-Dichloropropane	U		0.0317	0.100	1	11/25/2024 18:47	WG2408141
Di-isopropyl ether	U		0.0140	0.0400	1	11/25/2024 18:47	WG2408141
Ethylbenzene	0.0510	L	0.0212	0.100	1	11/25/2024 18:47	WG2408141
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/25/2024 18:47	WG2408141
2-Hexanone	U		0.400	1.00	1	11/25/2024 18:47	WG2408141
n-Hexane	U		0.0424	0.200	1	11/25/2024 18:47	WG2408141
Iodomethane	U		0.242	0.500	1	11/25/2024 18:47	WG2408141
Isopropylbenzene	U		0.0345	0.100	1	11/25/2024 18:47	WG2408141
p-Isopropyltoluene	U		0.0932	0.200	1	11/25/2024 18:47	WG2408141
2-Butanone (MEK)	U		0.500	1.00	1	11/25/2024 18:47	WG2408141
Methylene Chloride	U		0.265	1.00	1	11/25/2024 18:47	WG2408141
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/25/2024 18:47	WG2408141
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/25/2024 18:47	WG2408141
Naphthalene	U		0.124	0.500	1	11/25/2024 18:47	WG2408141
n-Propylbenzene	U		0.0472	0.200	1	11/25/2024 18:47	WG2408141
Styrene	U		0.109	0.500	1	11/25/2024 18:47	WG2408141
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/25/2024 18:47	WG2408141
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/25/2024 18:47	WG2408141
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/25/2024 18:47	WG2408141
Tetrachloroethene	34.3		0.0280	0.100	1	11/25/2024 18:47	WG2408141
Toluene	0.715		0.0500	0.200	1	11/25/2024 18:47	WG2408141
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/25/2024 18:47	WG2408141
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/25/2024 18:47	WG2408141
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/25/2024 18:47	WG2408141
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/25/2024 18:47	WG2408141
Trichloroethene	130	LE	0.0160	0.0400	1	11/25/2024 18:47	WG2408141
Trichlorofluoromethane	U		0.0200	0.100	1	11/25/2024 18:47	WG2408141
1,2,3-Trichloropropane	U		0.204	0.500	1	11/25/2024 18:47	WG2408141
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/25/2024 18:47	WG2408141
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/25/2024 18:47	WG2408141
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/25/2024 18:47	WG2408141
Vinyl acetate	U		0.141	0.500	1	11/25/2024 18:47	WG2408141
Vinyl chloride	2000		6.82	25.0	250	11/27/2024 23:06	WG2409739
Xylenes, Total	0.314		0.191	0.260	1	11/25/2024 18:47	WG2408141
(S) Toluene-d8	102			75.0-131		11/25/2024 18:47	WG2408141
(S) Toluene-d8	101			75.0-131		11/27/2024 23:06	WG2409739
(S) 4-Bromofluorobenzene	89.2			67.0-138		11/25/2024 18:47	WG2408141
(S) 4-Bromofluorobenzene	80.0			67.0-138		11/27/2024 23:06	WG2409739

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	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
(S) 1,2-Dichloroethane-d4	98.4			70.0-130		11/25/2024 18:47	WG2408141
(S) 1,2-Dichloroethane-d4	101			70.0-130		11/27/2024 23:06	WG2409739

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/25/2024 12:14	WG2408141
Acrylonitrile	U		0.0760	0.500	1	11/25/2024 12:14	WG2408141
Benzene	U		0.0160	0.0400	1	11/25/2024 12:14	WG2408141
Bromobenzene	U		0.0420	0.500	1	11/25/2024 12:14	WG2408141
Bromochloromethane	U		0.0452	0.200	1	11/25/2024 12:14	WG2408141
Bromodichloromethane	U		0.0315	0.100	1	11/25/2024 12:14	WG2408141
Bromoform	U		0.239	1.00	1	11/25/2024 12:14	WG2408141
Bromomethane	U		0.148	0.500	1	11/25/2024 12:14	WG2408141
n-Butylbenzene	U		0.153	0.500	1	11/25/2024 12:14	WG2408141
sec-Butylbenzene	U		0.101	0.500	1	11/25/2024 12:14	WG2408141
tert-Butylbenzene	U		0.0620	0.200	1	11/25/2024 12:14	WG2408141
Carbon disulfide	U		0.162	0.500	1	11/25/2024 12:14	WG2408141
Carbon tetrachloride	U		0.0432	0.200	1	11/25/2024 12:14	WG2408141
Chlorobenzene	U		0.0229	0.100	1	11/25/2024 12:14	WG2408141
Chlorodibromomethane	U		0.0180	0.100	1	11/25/2024 12:14	WG2408141
Chloroethane	U		0.0432	0.200	1	11/25/2024 12:14	WG2408141
Chloroform	U		0.0166	0.100	1	11/25/2024 12:14	WG2408141
Chloromethane	U		0.0556	0.500	1	11/25/2024 12:14	WG2408141
2-Chlorotoluene	U		0.0368	0.100	1	11/25/2024 12:14	WG2408141
4-Chlorotoluene	U		0.0452	0.200	1	11/25/2024 12:14	WG2408141
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/25/2024 12:14	WG2408141
1,2-Dibromoethane	U		0.0210	0.100	1	11/25/2024 12:14	WG2408141
Dibromomethane	U		0.0400	0.200	1	11/25/2024 12:14	WG2408141
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/25/2024 12:14	WG2408141
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/25/2024 12:14	WG2408141
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/25/2024 12:14	WG2408141
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/25/2024 12:14	WG2408141
Dichlorodifluoromethane	U		0.0327	0.200	1	11/25/2024 12:14	WG2408141
1,1-Dichloroethane	U		0.0230	0.100	1	11/25/2024 12:14	WG2408141
1,2-Dichloroethane	U		0.0190	0.100	1	11/25/2024 12:14	WG2408141
1,1-Dichloroethene	U		0.0200	0.100	1	11/25/2024 12:14	WG2408141
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/25/2024 12:14	WG2408141
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/25/2024 12:14	WG2408141
1,2-Dichloropropane	U		0.0508	0.200	1	11/25/2024 12:14	WG2408141
1,1-Dichloropropene	U		0.0280	0.100	1	11/25/2024 12:14	WG2408141
1,3-Dichloropropane	U		0.0700	0.200	1	11/25/2024 12:14	WG2408141
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/25/2024 12:14	WG2408141
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/25/2024 12:14	WG2408141
2,2-Dichloropropane	U		0.0317	0.100	1	11/25/2024 12:14	WG2408141
Di-isopropyl ether	U		0.0140	0.0400	1	11/25/2024 12:14	WG2408141
Ethylbenzene	U		0.0212	0.100	1	11/25/2024 12:14	WG2408141
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/25/2024 12:14	WG2408141
2-Hexanone	U		0.400	1.00	1	11/25/2024 12:14	WG2408141
n-Hexane	U		0.0424	0.200	1	11/25/2024 12:14	WG2408141
Iodomethane	U		0.242	0.500	1	11/25/2024 12:14	WG2408141
Isopropylbenzene	U		0.0345	0.100	1	11/25/2024 12:14	WG2408141
p-Isopropyltoluene	U		0.0932	0.200	1	11/25/2024 12:14	WG2408141
2-Butanone (MEK)	U		0.500	1.00	1	11/25/2024 12:14	WG2408141
Methylene Chloride	U		0.265	1.00	1	11/25/2024 12:14	WG2408141
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/25/2024 12:14	WG2408141
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/25/2024 12:14	WG2408141
Naphthalene	U		0.124	0.500	1	11/25/2024 12:14	WG2408141
n-Propylbenzene	U		0.0472	0.200	1	11/25/2024 12:14	WG2408141
Styrene	U		0.109	0.500	1	11/25/2024 12:14	WG2408141
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/25/2024 12:14	WG2408141
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/25/2024 12:14	WG2408141

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/25/2024 12:14	WG2408141
Tetrachloroethene	U		0.0280	0.100	1	11/25/2024 12:14	WG2408141
Toluene	U		0.0500	0.200	1	11/25/2024 12:14	WG2408141
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/25/2024 12:14	WG2408141
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/25/2024 12:14	WG2408141
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/25/2024 12:14	WG2408141
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/25/2024 12:14	WG2408141
Trichloroethene	U		0.0160	0.0400	1	11/25/2024 12:14	WG2408141
Trichlorofluoromethane	U		0.0200	0.100	1	11/25/2024 12:14	WG2408141
1,2,3-Trichloropropane	U		0.204	0.500	1	11/25/2024 12:14	WG2408141
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/25/2024 12:14	WG2408141
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/25/2024 12:14	WG2408141
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/25/2024 12:14	WG2408141
Vinyl acetate	U		0.141	0.500	1	11/25/2024 12:14	WG2408141
Vinyl chloride	0.0680	U	0.0273	0.100	1	11/25/2024 12:14	WG2408141
Xylenes, Total	U		0.191	0.260	1	11/25/2024 12:14	WG2408141
(S) Toluene-d8	101			75.0-131		11/25/2024 12:14	WG2408141
(S) 4-Bromofluorobenzene	90.3			67.0-138		11/25/2024 12:14	WG2408141
(S) 1,2-Dichloroethane-d4	97.7			70.0-130		11/25/2024 12:14	WG2408141

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4148106-2 11/19/24 15:16

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Alkalinity	U		4750	20000

Sample Narrative:
BLANK: Endpoint pH 4.5

L1800385-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1800385-01 11/19/24 15:31 • (DUP) R4148106-4 11/19/24 15:35

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	88500	89100	1	0.696		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

L1800955-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1800955-04 11/19/24 17:31 • (DUP) R4148106-6 11/19/24 17:38

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	119000	121000	1	1.86		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4148106-1 11/19/24 15:09

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	101000	101	90.0-110	

Sample Narrative:
LCS: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4147884-2 11/19/24 12:16

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Alkalinity	U		4750	20000

Sample Narrative:
BLANK: Endpoint pH 4.5

L1800242-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1800242-03 11/19/24 12:28 • (DUP) R4147884-4 11/19/24 12:33

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	230000	232000	1	0.653		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

L1800813-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1800813-03 11/19/24 14:13 • (DUP) R4147884-6 11/19/24 14:19

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	181000	179000	1	1.04		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4147884-1 11/19/24 12:09

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	100000	100	90.0-110	

Sample Narrative:
LCS: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4149060-1 11/16/24 15:33

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		547	1000
Nitrate as (N)	U		88.4	100
Sulfate	U		637	5000

L1800664-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1800664-01 11/16/24 17:02 • (DUP) R4149060-3 11/16/24 21:16

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	1440	1440	1	0.0487		15
Nitrate as (N)	U	U	1	0.000		15
Sulfate	22000	22100	1	0.600		15

L1800696-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1800696-02 11/16/24 16:24 • (DUP) R4149060-6 11/16/24 21:57

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	91200	91700	1	0.546		15
Nitrate as (N)	587	600	1	2.07		15
Sulfate	149000	150000	1	0.491		15

Laboratory Control Sample (LCS)

(LCS) R4149060-2 11/16/24 15:45

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	38700	96.6	80.0-120	
Nitrate as (N)	8000	7670	95.9	80.0-120	
Sulfate	40000	38900	97.2	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1800664-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1800664-01 11/16/24 17:02 • (MS) R4149060-4 11/16/24 21:31 • (MSD) R4149060-5 11/16/24 21:44

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	1440	41800	41700	101	101	1	80.0-120			0.268	15
Nitrate as (N)	8000	U	8070	8040	101	100	1	80.0-120			0.397	15
Sulfate	40000	22000	60100	59800	95.3	94.6	1	80.0-120			0.485	15

L1800696-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1800696-02 11/16/24 16:24 • (MS) R4149060-8 11/16/24 22:22

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	91200	114000	55.9	1	80.0-120	J6
Nitrate as (N)	8000	587	8650	101	1	80.0-120	
Sulfate	40000	149000	160000	26.5	1	80.0-120	J6

1
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Method Blank (MB)

(MB) R4149789-2 11/22/24 17:11

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	U		495	1000

L1800716-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1800716-06 11/22/24 21:28 • (DUP) R4149789-5 11/22/24 21:54

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	18400	18400	1	0.217		20

L1800840-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1800840-13 11/23/24 02:48 • (DUP) R4149789-6 11/23/24 03:10

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	9910	10900	1	9.08		20

Laboratory Control Sample (LCS)

(LCS) R4149789-1 11/22/24 16:49

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	25000	23500	93.9	85.0-115	

L1800716-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1800716-05 11/22/24 20:01 • (MS) R4149789-3 11/22/24 20:32 • (MSD) R4149789-4 11/22/24 21:02

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	23200	45000	45000	87.5	87.3	1	85.0-115			0.143	20

L1800856-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1800856-08 11/23/24 06:05 • (MS) R4149789-7 11/23/24 06:32 • (MSD) R4149789-8 11/23/24 06:59

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	4110	27100	27200	92.0	92.3	1	85.0-115			0.267	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4149827-2 11/22/24 14:28

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	U		495	1000

L1800856-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1800856-10 11/22/24 18:04 • (DUP) R4149827-5 11/22/24 18:22

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	1050	932	1	12.3	⬇	20

L1800883-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1800883-01 11/22/24 23:18 • (DUP) R4149827-8 11/22/24 23:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	1190	1180	1	0.506		20

Laboratory Control Sample (LCS)

(LCS) R4149827-1 11/22/24 14:11

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	25000	24200	96.7	85.0-115	

L1800716-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1800716-07 11/22/24 17:00 • (MS) R4149827-3 11/22/24 17:23 • (MSD) R4149827-4 11/22/24 17:45

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	6370	31200	31100	99.1	98.8	1	85.0-115			0.289	20

L1800879-38 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1800879-38 11/22/24 22:17 • (MS) R4149827-6 11/22/24 22:38 • (MSD) R4149827-7 11/22/24 23:00

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	U	24200	24200	96.7	96.9	1	85.0-115			0.207	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4151977-1 11/30/24 10:56

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		22.6	100
Manganese	U		0.700	5.00

Laboratory Control Sample (LCS)

(LCS) R4151977-2 11/30/24 10:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	1000	1040	104	80.0-120	
Manganese	50.0	51.3	103	80.0-120	

L1800813-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1800813-05 11/30/24 11:02 • (MS) R4151977-4 11/30/24 11:09 • (MSD) R4151977-5 11/30/24 11:12

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	1000	U	985	974	98.5	97.4	1	75.0-125			1.15	20
Manganese	50.0	U	49.8	49.8	99.5	99.6	1	75.0-125			0.0510	20

1
Cp

2
Tc

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Ss

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Cn

5
Sr

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Qc

7
Gl

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Al

9
Sc

Method Blank (MB)

(MB) R4148447-2 11/20/24 11:09

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

L1800663-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1800663-03 11/20/24 11:23 • (DUP) R4148447-3 11/20/24 13:46

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

L1800797-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1800797-02 11/20/24 13:52 • (DUP) R4148447-4 11/20/24 15:16

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

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

(LCS) R4148447-1 11/20/24 11:04 • (LCSD) R4148447-5 11/20/24 15:20

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Ethane	129	126	125	97.7	96.9	85.0-115			0.797	20
Ethene	127	126	126	99.2	99.2	85.0-115			0.000	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4148493-2 11/20/24 15:42

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

L1800797-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1800797-08 11/20/24 15:58 • (DUP) R4148493-3 11/20/24 16:02

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	10800	10300	10	4.74		20

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

(LCS) R4148493-1 11/20/24 15:37 • (LCSD) R4148493-4 11/20/24 16:07

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	65.0	67.6	95.9	99.7	85.0-115			3.92	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4151330-3 11/22/24 13:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromochloromethane	U		0.0452	0.200
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon disulfide	U		0.162	0.500
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.200
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4151330-3 11/22/24 13:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
2-Hexanone	U		0.400	1.00
n-Hexane	U		0.0424	0.200
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl acetate	U		0.141	0.500
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	99.3			75.0-131
(S) 4-Bromofluorobenzene	88.7			67.0-138
(S) 1,2-Dichloroethane-d4	103			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4151330-1 11/22/24 12:24 • (LCSD) R4151330-2 11/22/24 12:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	25.0	34.1	31.3	136	125	10.0-160			8.56	31
Acrylonitrile	25.0	35.0	30.5	140	122	45.0-153			13.7	22
Benzene	5.00	4.57	4.58	91.4	91.6	70.0-123			0.219	20
Bromobenzene	5.00	4.55	4.77	91.0	95.4	73.0-121			4.72	20
Bromochloromethane	5.00	5.28	5.04	106	101	77.0-128			4.65	20
Bromodichloromethane	5.00	4.62	4.72	92.4	94.4	73.0-121			2.14	20
Bromoform	5.00	3.74	3.82	74.8	76.4	64.0-132			2.12	20
Bromomethane	5.00	5.61	5.79	112	116	56.0-147			3.16	20
n-Butylbenzene	5.00	4.24	4.77	84.8	95.4	68.0-135			11.8	20
sec-Butylbenzene	5.00	4.39	4.79	87.8	95.8	74.0-130			8.71	20
tert-Butylbenzene	5.00	4.41	4.73	88.2	94.6	75.0-127			7.00	20
Carbon disulfide	5.00	4.05	4.26	81.0	85.2	56.0-133			5.05	20
Carbon tetrachloride	5.00	4.95	4.96	99.0	99.2	66.0-128			0.202	20
Chlorobenzene	5.00	4.32	4.37	86.4	87.4	76.0-128			1.15	20
Chlorodibromomethane	5.00	4.04	4.18	80.8	83.6	74.0-127			3.41	20
Chloroethane	5.00	5.51	5.70	110	114	61.0-134			3.39	20
Chloroform	5.00	4.74	4.71	94.8	94.2	72.0-123			0.635	20
Chloromethane	5.00	6.11	4.51	122	90.2	51.0-138		J3	30.1	20
2-Chlorotoluene	5.00	4.69	4.88	93.8	97.6	75.0-124			3.97	20
4-Chlorotoluene	5.00	4.54	4.80	90.8	96.0	75.0-124			5.57	20
1,2-Dibromo-3-Chloropropane	5.00	4.32	3.93	86.4	78.6	59.0-130			9.45	20
1,2-Dibromoethane	5.00	4.47	4.53	89.4	90.6	74.0-128			1.33	20
Dibromomethane	5.00	4.87	4.76	97.4	95.2	75.0-122			2.28	20
1,2-Dichlorobenzene	5.00	4.46	4.56	89.2	91.2	76.0-124			2.22	20
1,3-Dichlorobenzene	5.00	4.33	4.51	86.6	90.2	76.0-125			4.07	20
1,4-Dichlorobenzene	5.00	4.39	4.52	87.8	90.4	77.0-121			2.92	20
trans-1,4-Dichloro-2-butene	5.00	3.53	3.77	70.6	75.4	45.0-143			6.58	20
Dichlorodifluoromethane	5.00	4.57	4.68	91.4	93.6	43.0-156			2.38	20
1,1-Dichloroethane	5.00	5.14	5.02	103	100	70.0-127			2.36	20
1,2-Dichloroethane	5.00	4.71	4.60	94.2	92.0	65.0-131			2.36	20
1,1-Dichloroethene	5.00	4.91	4.95	98.2	99.0	65.0-131			0.811	20
cis-1,2-Dichloroethene	5.00	4.93	4.90	98.6	98.0	73.0-125			0.610	20
trans-1,2-Dichloroethene	5.00	4.61	4.71	92.2	94.2	71.0-125			2.15	20
1,2-Dichloropropane	5.00	4.95	5.04	99.0	101	74.0-125			1.80	20
1,1-Dichloropropene	5.00	4.82	4.87	96.4	97.4	73.0-125			1.03	20
1,3-Dichloropropane	5.00	4.62	4.81	92.4	96.2	80.0-125			4.03	20
cis-1,3-Dichloropropene	5.00	4.66	4.93	93.2	98.6	76.0-127			5.63	20
trans-1,3-Dichloropropene	5.00	4.23	4.47	84.6	89.4	73.0-127			5.52	20
2,2-Dichloropropane	5.00	6.29	5.91	126	118	59.0-135			6.23	20
Di-isopropyl ether	5.00	5.05	4.86	101	97.2	60.0-136			3.83	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4151330-1 11/22/24 12:24 • (LCSD) R4151330-2 11/22/24 12:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	4.43	4.46	88.6	89.2	74.0-126			0.675	20
Hexachloro-1,3-butadiene	5.00	3.70	4.44	74.0	88.8	57.0-150			18.2	20
2-Hexanone	25.0	24.7	24.1	98.8	96.4	54.0-147			2.46	20
n-Hexane	5.00	4.36	4.59	87.2	91.8	55.0-137			5.14	20
Iodomethane	25.0	23.1	22.5	92.4	90.0	74.0-134			2.63	20
Isopropylbenzene	5.00	4.51	4.57	90.2	91.4	72.0-127			1.32	20
p-Isopropyltoluene	5.00	4.52	4.85	90.4	97.0	72.0-133			7.04	20
2-Butanone (MEK)	25.0	27.2	26.4	109	106	30.0-160			2.99	24
Methylene Chloride	5.00	5.36	5.21	107	104	68.0-123			2.84	20
4-Methyl-2-pentanone (MIBK)	25.0	29.7	27.7	119	111	56.0-143			6.97	20
Methyl tert-butyl ether	5.00	5.54	4.61	111	92.2	66.0-132			18.3	20
Naphthalene	5.00	4.28	3.91	85.6	78.2	59.0-130			9.04	20
n-Propylbenzene	5.00	4.46	4.85	89.2	97.0	74.0-126			8.38	20
Styrene	5.00	4.52	4.40	90.4	88.0	72.0-127			2.69	20
1,1,1,2-Tetrachloroethane	5.00	4.36	4.36	87.2	87.2	74.0-129			0.000	20
1,1,2,2-Tetrachloroethane	5.00	5.09	5.00	102	100	68.0-128			1.78	20
1,1,2-Trichlorotrifluoroethane	5.00	4.81	4.90	96.2	98.0	61.0-139			1.85	20
Tetrachloroethene	5.00	4.32	4.48	86.4	89.6	70.0-136			3.64	20
Toluene	5.00	4.37	4.43	87.4	88.6	75.0-121			1.36	20
1,2,3-Trichlorobenzene	5.00	4.22	4.39	84.4	87.8	59.0-139			3.95	20
1,2,4-Trichlorobenzene	5.00	3.97	4.18	79.4	83.6	62.0-137			5.15	20
1,1,1-Trichloroethane	5.00	5.04	4.99	101	99.8	69.0-126			0.997	20
1,1,2-Trichloroethane	5.00	4.66	4.91	93.2	98.2	78.0-123			5.22	20
Trichloroethene	5.00	4.36	4.57	87.2	91.4	76.0-126			4.70	20
Trichlorofluoromethane	5.00	4.70	5.31	94.0	106	61.0-142	U	U	12.2	20
1,2,3-Trichloropropane	5.00	5.47	5.17	109	103	67.0-129			5.64	20
1,2,4-Trimethylbenzene	5.00	4.54	4.75	90.8	95.0	70.0-126			4.52	20
1,2,3-Trimethylbenzene	5.00	4.45	4.58	89.0	91.6	74.0-124			2.88	20
1,3,5-Trimethylbenzene	5.00	4.36	4.51	87.2	90.2	73.0-127			3.38	20
Vinyl acetate	25.0	27.2	25.2	109	101	43.0-159			7.63	20
Vinyl chloride	5.00	4.94	4.95	98.8	99.0	63.0-134			0.202	20
Xylenes, Total	15.0	12.8	13.1	85.3	87.3	72.0-127			2.32	20
(S) Toluene-d8				93.4	95.3	75.0-131				
(S) 4-Bromofluorobenzene				96.8	95.4	67.0-138				
(S) 1,2-Dichloroethane-d4				112	106	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4150359-2 11/25/24 11:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromochloromethane	U		0.0452	0.200
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon disulfide	U		0.162	0.500
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	0.0280	U	0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.200
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	0.0570	U	0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4150359-2 11/25/24 11:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
2-Hexanone	U		0.400	1.00
n-Hexane	U		0.0424	0.200
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl acetate	U		0.141	0.500
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	99.4			75.0-131
(S) 4-Bromofluorobenzene	96.0			67.0-138
(S) 1,2-Dichloroethane-d4	109			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4150359-1 11/25/24 09:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	25.0	24.8	99.2	10.0-160	
Acrylonitrile	25.0	32.0	128	45.0-153	
Benzene	5.00	5.05	101	70.0-123	
Bromobenzene	5.00	5.32	106	73.0-121	
Bromochloromethane	5.00	5.29	106	77.0-128	
Bromodichloromethane	5.00	5.30	106	73.0-121	
Bromoform	5.00	4.21	84.2	64.0-132	
Bromomethane	5.00	5.53	111	56.0-147	
n-Butylbenzene	5.00	5.04	101	68.0-135	
sec-Butylbenzene	5.00	5.14	103	74.0-130	
tert-Butylbenzene	5.00	5.15	103	75.0-127	
Carbon disulfide	5.00	4.20	84.0	56.0-133	
Carbon tetrachloride	5.00	5.28	106	66.0-128	
Chlorobenzene	5.00	4.74	94.8	76.0-128	
Chlorodibromomethane	5.00	4.70	94.0	74.0-127	
Chloroethane	5.00	5.87	117	61.0-134	
Chloroform	5.00	5.00	100	72.0-123	
Chloromethane	5.00	5.04	101	51.0-138	
2-Chlorotoluene	5.00	5.44	109	75.0-124	
4-Chlorotoluene	5.00	5.36	107	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	4.55	91.0	59.0-130	
1,2-Dibromoethane	5.00	4.83	96.6	74.0-128	
Dibromomethane	5.00	5.18	104	75.0-122	
1,2-Dichlorobenzene	5.00	5.04	101	76.0-124	
1,3-Dichlorobenzene	5.00	5.04	101	76.0-125	
1,4-Dichlorobenzene	5.00	5.17	103	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	4.14	82.8	45.0-143	
Dichlorodifluoromethane	5.00	5.54	111	43.0-156	
1,1-Dichloroethane	5.00	5.27	105	70.0-127	
1,2-Dichloroethane	5.00	5.03	101	65.0-131	
1,1-Dichloroethene	5.00	4.75	95.0	65.0-131	
cis-1,2-Dichloroethene	5.00	5.07	101	73.0-125	
trans-1,2-Dichloroethene	5.00	4.66	93.2	71.0-125	
1,2-Dichloropropane	5.00	5.50	110	74.0-125	
1,1-Dichloropropene	5.00	5.46	109	73.0-125	
1,3-Dichloropropane	5.00	5.18	104	80.0-125	
cis-1,3-Dichloropropene	5.00	5.53	111	76.0-127	
trans-1,3-Dichloropropene	5.00	5.19	104	73.0-127	
2,2-Dichloropropane	5.00	5.51	110	59.0-135	
Di-isopropyl ether	5.00	5.09	102	60.0-136	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4150359-1 11/25/24 09:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	5.00	4.84	96.8	74.0-126	
Hexachloro-1,3-butadiene	5.00	4.40	88.0	57.0-150	
2-Hexanone	25.0	23.2	92.8	54.0-147	
n-Hexane	5.00	4.49	89.8	55.0-137	
Iodomethane	25.0	22.8	91.2	74.0-134	
Isopropylbenzene	5.00	4.85	97.0	72.0-127	
p-Isopropyltoluene	5.00	5.25	105	72.0-133	
2-Butanone (MEK)	25.0	24.7	98.8	30.0-160	
Methylene Chloride	5.00	5.06	101	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	28.8	115	56.0-143	
Methyl tert-butyl ether	5.00	5.05	101	66.0-132	
Naphthalene	5.00	4.85	97.0	59.0-130	
n-Propylbenzene	5.00	5.29	106	74.0-126	
Styrene	5.00	4.77	95.4	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	4.75	95.0	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	5.57	111	68.0-128	
1,1,2-Trichlorotrifluoroethane	5.00	5.03	101	61.0-139	
Tetrachloroethene	5.00	4.96	99.2	70.0-136	
Toluene	5.00	4.93	98.6	75.0-121	
1,2,3-Trichlorobenzene	5.00	5.12	102	59.0-139	
1,2,4-Trichlorobenzene	5.00	4.59	91.8	62.0-137	
1,1,1-Trichloroethane	5.00	5.26	105	69.0-126	
1,1,2-Trichloroethane	5.00	5.30	106	78.0-123	
Trichloroethene	5.00	4.99	99.8	76.0-126	
Trichlorofluoromethane	5.00	5.48	110	61.0-142	N
1,2,3-Trichloropropane	5.00	5.83	117	67.0-129	
1,2,4-Trimethylbenzene	5.00	5.21	104	70.0-126	
1,2,3-Trimethylbenzene	5.00	5.01	100	74.0-124	
1,3,5-Trimethylbenzene	5.00	5.03	101	73.0-127	
Vinyl acetate	25.0	29.1	116	43.0-159	
Vinyl chloride	5.00	5.40	108	63.0-134	
Xylenes, Total	15.0	13.8	92.0	72.0-127	
(S) Toluene-d8			97.2	75.0-131	
(S) 4-Bromofluorobenzene			92.8	67.0-138	
(S) 1,2-Dichloroethane-d4			108	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4151898-3 11/27/24 08:54

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
(S) Toluene-d8	103			75.0-131
(S) 4-Bromofluorobenzene	101			67.0-138
(S) 1,2-Dichloroethane-d4	103			70.0-130

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

(LCS) R4151898-1 11/27/24 07:35 • (LCSD) R4151898-2 11/27/24 07:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	5.00	5.05	4.95	101	99.0	73.0-125			2.00	20
(S) Toluene-d8				102	102	75.0-131				
(S) 4-Bromofluorobenzene				101	99.2	67.0-138				
(S) 1,2-Dichloroethane-d4				108	101	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4151806-3 11/27/24 13:46

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	102			75.0-131
(S) 4-Bromofluorobenzene	81.7			67.0-138
(S) 1,2-Dichloroethane-d4	97.4			70.0-130

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

(LCS) R4151806-1 11/27/24 12:28 • (LCSD) R4151806-2 11/27/24 12:47

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	5.00	4.87	4.90	97.4	98.0	73.0-125			0.614	20
trans-1,2-Dichloroethene	5.00	4.53	4.63	90.6	92.6	71.0-125			2.18	20
Vinyl chloride	5.00	4.26	4.27	85.2	85.4	63.0-134			0.234	20
(S) Toluene-d8				103	100	75.0-131				
(S) 4-Bromofluorobenzene				87.1	84.1	67.0-138				
(S) 1,2-Dichloroethane-d4				96.0	94.1	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4151836-3 11/28/24 10:38

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
Trichloroethene	U		0.0160	0.0400
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	96.3			75.0-131
(S) 4-Bromofluorobenzene	95.6			67.0-138
(S) 1,2-Dichloroethane-d4	116			70.0-130

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

(LCS) R4151836-1 11/28/24 09:22 • (LCSD) R4151836-2 11/28/24 09:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	5.00	4.73	4.64	94.6	92.8	73.0-125			1.92	20
trans-1,2-Dichloroethene	5.00	4.84	4.77	96.8	95.4	71.0-125			1.46	20
Trichloroethene	5.00	6.00	5.55	120	111	76.0-126			7.79	20
Vinyl chloride	5.00	5.59	5.28	112	106	63.0-134			5.70	20
(S) Toluene-d8				99.2	98.8	75.0-131				
(S) 4-Bromofluorobenzene				99.7	96.4	67.0-138				
(S) 1,2-Dichloroethane-d4				112	113	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

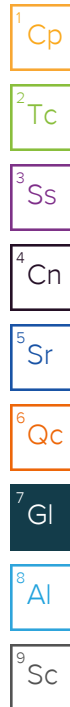
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.



ACCREDITATIONS & LOCATIONS

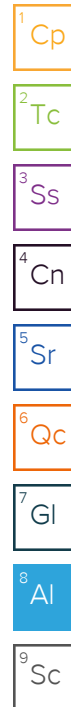
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



Company Name/Address: PES Environmental, Inc.- WA				Billing Information: Attn: Accounts Payable 2101 4th Avenue, Suite 1310 Seattle, WA 98121				Chain of Custody Page <u>1</u> of <u>1</u>			
2101 Fourth Ave., Suite 1310 Seattle, WA 98121				Report to: Daniel Balbiani				Email To: Daniel.balbiani@nv5.com;sam.graber@nv5.com			
Project Description: American Linen				City/State Collected: Seattle, WA		Please Circle: PT MT CT ET					
Phone: 206-529-3980		Client Project # 1413001.10.603.04 <i>701.02</i>		Lab Project # PESENVSWA-ALP							
Collected by (print): <i>D. Del Giudice</i>		Site/Facility ID #		P.O. # 1413001.10.603.04							
Collected by (signature): <i>[Signature]</i>		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 ☒				Date Results Needed		No. of Cntrs					
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time						
FMW-142-111524	G	GW	—	11/15/24	0620	3					
FMW-140-111524	 	GW	 	 	0810	3					
FMW-137-111524	 	GW	 	 	0942	3					
GEI-MW-1-111524	 	GW	 	 	1031	3					
MW-170-111524	 	GW	 	 	1120	9	X	X	X	X	X
MW-998-111524	 	GW	 	 	1111	9	X	X	X	X	X
MW-171-111524	 	GW	 	 	1259	9	X	X	X	X	X
TB-111524	✓	GW	✓	✓	—	1				X	
		GW									
		GW									

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

Remarks: **Tier 2 lab QA/QC (Batch QC OK)**

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier Tracking # _____

Relinquished by: (Signature) *[Signature]* Date: **11/15/24** Time: **1411**

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

Relinquished by: (Signature) Date: Time: Received for lab by: (Signature) *[Signature]*

pH _____ Temp _____

Flow _____ Other _____

Trip Blank Received: Yes / No
☒ HCl / MeOH
☐ TBR

Temp: **20.0-20.38** °C Bottles Received: **2040-2038**

Date: **11/16/24** Time: **900**

PH - 10BDM0941
TRC - 3327A333

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ Y ☐ N

COC Signed/Accurate: ☒ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

If Applicable

VOA Zero Headspace: ☒ Y ☐ N

Preservation Correct/Checked: ☒ Y ☐ N

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

If preservation required by Login: Date/Time

Hold: Condition: **NCF / OK**

Table # **L1800716**

Acctnum: **PESENVSWA**

Template: **T262759**

Prelogin: **P1112668**

PM: **3768 - Jordan Dozier**

PB:

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

J021

PES Environmental, Inc.- WA

Sample Delivery Group: L1801569
Samples Received: 11/19/2024
Project Number: 443022-1413001.10
Description: American Linen Q2 2024

Report To: Craig Peterson
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



Jordan Dozier
Project Manager

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

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

MW-173-111824 L1801569-01 GW

Collected by
D. Del G

Collected date/time
11/18/24 10:08

Received date/time
11/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2406563	1	11/22/24 10:59	11/22/24 10:59	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2404909	1	11/25/24 02:41	11/25/24 02:41	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2407687	1	11/26/24 18:21	11/26/24 18:21	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2405975	1	11/27/24 08:57	11/27/24 18:45	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2405441	1	11/21/24 13:59	11/21/24 13:59	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406229	10	11/21/24 22:23	11/21/24 22:23	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/26/24 00:16	11/26/24 00:16	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	1	12/02/24 14:40	12/02/24 14:40	JHH	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

MW-174-111824 L1801569-02 GW

Collected by
D. Del G

Collected date/time
11/18/24 10:50

Received date/time
11/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2406563	1	11/22/24 11:08	11/22/24 11:08	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2404909	1	11/25/24 02:54	11/25/24 02:54	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2404909	5	11/25/24 21:13	11/25/24 21:13	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2407687	1	11/26/24 18:37	11/26/24 18:37	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2405975	1	11/27/24 08:57	11/27/24 18:48	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2405441	1	11/21/24 14:06	11/21/24 14:06	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406229	10	11/21/24 22:30	11/21/24 22:30	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/26/24 00:35	11/26/24 00:35	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	10	12/02/24 19:26	12/02/24 19:26	JHH	Mt. Juliet, TN

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-175-111824 L1801569-03 GW

Collected by
D. Del G

Collected date/time
11/18/24 11:57

Received date/time
11/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2406563	1	11/22/24 11:13	11/22/24 11:13	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2404909	1	11/25/24 03:08	11/25/24 03:08	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2407687	1	11/26/24 19:38	11/26/24 19:38	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2405975	1	11/27/24 08:57	11/27/24 18:58	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2405441	1	11/21/24 14:12	11/21/24 14:12	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406229	10	11/21/24 22:37	11/21/24 22:37	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/26/24 00:55	11/26/24 00:55	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	1	12/02/24 14:59	12/02/24 14:59	JHH	Mt. Juliet, TN

MW-176-111824 L1801569-04 GW

Collected by
D. Del G

Collected date/time
11/18/24 13:49

Received date/time
11/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2406563	1	11/22/24 12:19	11/22/24 12:19	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2405410	1	11/25/24 11:22	11/25/24 11:22	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2407687	1	11/26/24 20:10	11/26/24 20:10	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2405975	1	11/27/24 08:57	11/27/24 19:01	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2405441	1	11/21/24 14:19	11/21/24 14:19	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406229	10	11/21/24 22:43	11/21/24 22:43	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/26/24 01:14	11/26/24 01:14	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	1	12/02/24 15:18	12/02/24 15:18	JHH	Mt. Juliet, TN

SAMPLE SUMMARY

MW-166-111824 L1801569-05 GW

Collected by
D. Del G

Collected date/time
11/18/24 15:07

Received date/time
11/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2406563	1	11/22/24 12:24	11/22/24 12:24	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2405410	1	11/25/24 12:17	11/25/24 12:17	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2407687	2	11/26/24 20:27	11/26/24 20:27	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2405975	10	11/27/24 08:57	11/27/24 19:04	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2405441	1	11/21/24 14:25	11/21/24 14:25	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406229	10	11/21/24 22:50	11/21/24 22:50	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	2	11/26/24 01:33	11/26/24 01:33	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	100	12/02/24 19:45	12/02/24 19:45	JHH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

EQ1-111824 L1801569-06 GW

Collected by
D. Del G

Collected date/time
11/18/24 14:54

Received date/time
11/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2406563	1	11/22/24 12:28	11/22/24 12:28	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2405410	1	11/25/24 12:56	11/25/24 12:56	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2407687	1	11/26/24 20:39	11/26/24 20:39	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2405975	1	11/27/24 08:57	11/27/24 19:08	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2405441	1	11/21/24 14:40	11/21/24 14:40	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/26/24 01:52	11/26/24 01:52	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	1	12/02/24 12:46	12/02/24 12:46	JHH	Mt. Juliet, TN

⁶Qc

⁷Gl

⁸Al

⁹Sc

EQ2-111824 L1801569-07 GW

Collected by
D. Del G

Collected date/time
11/18/24 15:09

Received date/time
11/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2406563	1	11/22/24 12:31	11/22/24 12:31	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2405410	1	11/25/24 13:08	11/25/24 13:08	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2407687	1	11/26/24 20:51	11/26/24 20:51	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2405975	1	11/27/24 08:57	11/27/24 19:11	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2405441	1	11/21/24 14:44	11/21/24 14:44	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/26/24 02:12	11/26/24 02:12	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	1	12/02/24 13:04	12/02/24 13:04	JHH	Mt. Juliet, TN

CASE NARRATIVE

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

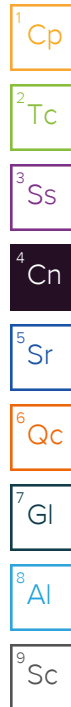


Jordan Dozier
Project Manager

Sample Delivery Group (SDG) Narrative

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
L1801569-01	MW-173-111824	9060A



Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	683000		4750	20000	1	11/22/2024 10:59	WG2406563

Sample Narrative:

L1801569-01 WG2406563: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	51200		547	1000	1	11/25/2024 02:41	WG2404909
Nitrate as (N)	U	T8	88.4	100	1	11/25/2024 02:41	WG2404909
Sulfate	U		637	5000	1	11/25/2024 02:41	WG2404909

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	14800		495	1000	1	11/26/2024 18:21	WG2407687

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	4100		22.6	100	1	11/27/2024 18:45	WG2405975
Manganese	2290		0.700	5.00	1	11/27/2024 18:45	WG2405975

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	28600		2.87	6.78	10	11/21/2024 22:23	WG2406229
Ethane	664		0.296	1.29	1	11/21/2024 13:59	WG2405441
Ethene	62.3		0.422	1.27	1	11/21/2024 13:59	WG2405441

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3 J3	0.548	1.00	1	11/26/2024 00:16	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 00:16	WG2408490
Benzene	0.161		0.0160	0.0400	1	11/26/2024 00:16	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 00:16	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 00:16	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 00:16	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 00:16	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 00:16	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 00:16	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 00:16	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 00:16	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 00:16	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 00:16	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 00:16	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 00:16	WG2408490
Chloroethane	U		0.0432	0.200	1	11/26/2024 00:16	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 00:16	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 00:16	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 00:16	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 00:16	WG2408490

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 00:16	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 00:16	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 00:16	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 00:16	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 00:16	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 00:16	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 00:16	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 00:16	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 00:16	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 00:16	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 00:16	WG2408490
cis-1,2-Dichloroethene	0.247		0.0276	0.100	1	12/02/2024 14:40	WG2410807
trans-1,2-Dichloroethene	0.104	U	0.0572	0.200	1	11/26/2024 00:16	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 00:16	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 00:16	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 00:16	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 00:16	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 00:16	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 00:16	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 00:16	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 00:16	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 00:16	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 00:16	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 00:16	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 00:16	WG2408490
Isopropylbenzene	0.0550	U	0.0345	0.100	1	11/26/2024 00:16	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 00:16	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 00:16	WG2408490
Methylene Chloride	U	U3	0.265	1.00	1	11/26/2024 00:16	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 00:16	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 00:16	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 00:16	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 00:16	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 00:16	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 00:16	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 00:16	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 00:16	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 00:16	WG2408490
Toluene	0.0960	U	0.0500	0.200	1	11/26/2024 00:16	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 00:16	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 00:16	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 00:16	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 00:16	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 00:16	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 00:16	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 00:16	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 00:16	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 00:16	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 00:16	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 00:16	WG2408490
Vinyl chloride	0.285		0.0273	0.100	1	12/02/2024 14:40	WG2410807
Xylenes, Total	U		0.191	0.260	1	11/26/2024 00:16	WG2408490
(S) Toluene-d8	98.2			75.0-131		11/26/2024 00:16	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 14:40	WG2410807
(S) 4-Bromofluorobenzene	87.6			67.0-138		11/26/2024 00:16	WG2408490
(S) 4-Bromofluorobenzene	94.5			67.0-138		12/02/2024 14:40	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/26/2024 00:16	WG2408490
(S) 1,2-Dichloroethane-d4	96.0			70.0-130		12/02/2024 14:40	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Alkalinity	1080000		4750	20000	1	11/22/2024 11:08	WG2406563

Sample Narrative:
L1801569-02 WG2406563: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Chloride	107000		2740	5000	5	11/25/2024 21:13	WG2404909
Nitrate as (N)	U	T8	88.4	100	1	11/25/2024 02:54	WG2404909
Sulfate	2800	J	637	5000	1	11/25/2024 02:54	WG2404909

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
TOC (Total Organic Carbon)	37900		495	1000	1	11/26/2024 18:37	WG2407687

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Iron	17400		22.6	100	1	11/27/2024 18:48	WG2405975
Manganese	3900		0.700	5.00	1	11/27/2024 18:48	WG2405975

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Methane	33000		2.87	6.78	10	11/21/2024 22:30	WG2406229
Ethane	302		0.296	1.29	1	11/21/2024 14:06	WG2405441
Ethene	109		0.422	1.27	1	11/21/2024 14:06	WG2405441

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Acetone	U	C3 J3	0.548	1.00	1	11/26/2024 00:35	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 00:35	WG2408490
Benzene	0.0250	J	0.0160	0.0400	1	11/26/2024 00:35	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 00:35	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 00:35	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 00:35	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 00:35	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 00:35	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 00:35	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 00:35	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 00:35	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 00:35	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 00:35	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 00:35	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 00:35	WG2408490
Chloroethane	0.365		0.0432	0.200	1	11/26/2024 00:35	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 00:35	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 00:35	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 00:35	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 00:35	WG2408490

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 00:35	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 00:35	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 00:35	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 00:35	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 00:35	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 00:35	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 00:35	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 00:35	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 00:35	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 00:35	WG2408490
1,1-Dichloroethene	0.504		0.0200	0.100	1	11/26/2024 00:35	WG2408490
cis-1,2-Dichloroethene	279		0.276	1.00	10	12/02/2024 19:26	WG2410807
trans-1,2-Dichloroethene	4.54		0.0572	0.200	1	11/26/2024 00:35	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 00:35	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 00:35	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 00:35	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 00:35	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 00:35	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 00:35	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 00:35	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 00:35	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 00:35	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 00:35	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 00:35	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 00:35	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 00:35	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 00:35	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 00:35	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/26/2024 00:35	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 00:35	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 00:35	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 00:35	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 00:35	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 00:35	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 00:35	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 00:35	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 00:35	WG2408490
Tetrachloroethene	0.0410	J	0.0280	0.100	1	11/26/2024 00:35	WG2408490
Toluene	U		0.0500	0.200	1	11/26/2024 00:35	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 00:35	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 00:35	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 00:35	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 00:35	WG2408490
Trichloroethene	0.459		0.0160	0.0400	1	11/26/2024 00:35	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 00:35	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 00:35	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 00:35	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 00:35	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 00:35	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 00:35	WG2408490
Vinyl chloride	374		0.273	1.00	10	12/02/2024 19:26	WG2410807
Xylenes, Total	U		0.191	0.260	1	11/26/2024 00:35	WG2408490
(S) Toluene-d8	98.9			75.0-131		11/26/2024 00:35	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 19:26	WG2410807
(S) 4-Bromofluorobenzene	89.7			67.0-138		11/26/2024 00:35	WG2408490
(S) 4-Bromofluorobenzene	93.6			67.0-138		12/02/2024 19:26	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	99.4			70.0-130		11/26/2024 00:35	WG2408490
(S) 1,2-Dichloroethane-d4	98.5			70.0-130		12/02/2024 19:26	WG2410807

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	1030000		4750	20000	1	11/22/2024 11:13	WG2406563

Sample Narrative:
L1801569-03 WG2406563: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	97600		547	1000	1	11/25/2024 03:08	WG2404909
Nitrate as (N)	U	T8	88.4	100	1	11/25/2024 03:08	WG2404909
Sulfate	U		637	5000	1	11/25/2024 03:08	WG2404909

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	29700		495	1000	1	11/26/2024 19:38	WG2407687

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	12600		22.6	100	1	11/27/2024 18:58	WG2405975
Manganese	3110		0.700	5.00	1	11/27/2024 18:58	WG2405975

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	30200		2.87	6.78	10	11/21/2024 22:37	WG2406229
Ethane	512		0.296	1.29	1	11/21/2024 14:12	WG2405441
Ethene	62.4		0.422	1.27	1	11/21/2024 14:12	WG2405441

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3 J3	0.548	1.00	1	11/26/2024 00:55	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 00:55	WG2408490
Benzene	0.0280	J	0.0160	0.0400	1	11/26/2024 00:55	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 00:55	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 00:55	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 00:55	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 00:55	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 00:55	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 00:55	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 00:55	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 00:55	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 00:55	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 00:55	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 00:55	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 00:55	WG2408490
Chloroethane	0.240		0.0432	0.200	1	11/26/2024 00:55	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 00:55	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 00:55	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 00:55	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 00:55	WG2408490

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 00:55	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 00:55	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 00:55	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 00:55	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 00:55	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 00:55	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 00:55	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 00:55	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 00:55	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 00:55	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 00:55	WG2408490
cis-1,2-Dichloroethene	0.637		0.0276	0.100	1	12/02/2024 14:59	WG2410807
trans-1,2-Dichloroethene	0.941		0.0572	0.200	1	11/26/2024 00:55	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 00:55	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 00:55	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 00:55	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 00:55	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 00:55	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 00:55	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 00:55	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 00:55	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 00:55	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 00:55	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 00:55	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 00:55	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 00:55	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 00:55	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 00:55	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/26/2024 00:55	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 00:55	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 00:55	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 00:55	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 00:55	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 00:55	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 00:55	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 00:55	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 00:55	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 00:55	WG2408490
Toluene	0.0560	J	0.0500	0.200	1	11/26/2024 00:55	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 00:55	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 00:55	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 00:55	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 00:55	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 00:55	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 00:55	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 00:55	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 00:55	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 00:55	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 00:55	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 00:55	WG2408490
Vinyl chloride	8.45		0.0273	0.100	1	11/26/2024 00:55	WG2408490
Xylenes, Total	U		0.191	0.260	1	11/26/2024 00:55	WG2408490
(S) Toluene-d8	96.9			75.0-131		11/26/2024 00:55	WG2408490
(S) Toluene-d8	105			75.0-131		12/02/2024 14:59	WG2410807
(S) 4-Bromofluorobenzene	86.8			67.0-138		11/26/2024 00:55	WG2408490
(S) 4-Bromofluorobenzene	96.0			67.0-138		12/02/2024 14:59	WG2410807

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	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/26/2024 00:55	WG2408490
(S) 1,2-Dichloroethane-d4	96.3			70.0-130		12/02/2024 14:59	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	887000		4750	20000	1	11/22/2024 12:19	WG2406563

Sample Narrative:

L1801569-04 WG2406563: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	78900	J6	547	1000	1	11/25/2024 11:22	WG2405410
Nitrate as (N)	U	T8	88.4	100	1	11/25/2024 11:22	WG2405410
Sulfate	U		637	5000	1	11/25/2024 11:22	WG2405410

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	23100		495	1000	1	11/26/2024 20:10	WG2407687

Metals (ICPMS) by Method 6020B

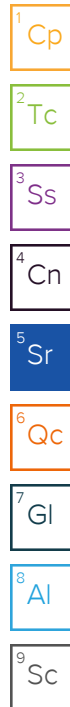
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	11600		22.6	100	1	11/27/2024 19:01	WG2405975
Manganese	2690		0.700	5.00	1	11/27/2024 19:01	WG2405975

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	27800		2.87	6.78	10	11/21/2024 22:43	WG2406229
Ethane	536		0.296	1.29	1	11/21/2024 14:19	WG2405441
Ethene	44.6		0.422	1.27	1	11/21/2024 14:19	WG2405441

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	C3 J3	0.548	1.00	1	11/26/2024 01:14	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 01:14	WG2408490
Benzene	0.0230	J	0.0160	0.0400	1	11/26/2024 01:14	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 01:14	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 01:14	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 01:14	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 01:14	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 01:14	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 01:14	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 01:14	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 01:14	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 01:14	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 01:14	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 01:14	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 01:14	WG2408490
Chloroethane	0.114	J	0.0432	0.200	1	11/26/2024 01:14	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 01:14	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 01:14	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 01:14	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 01:14	WG2408490



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 01:14	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 01:14	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 01:14	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 01:14	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 01:14	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 01:14	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 01:14	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 01:14	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 01:14	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 01:14	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 01:14	WG2408490
cis-1,2-Dichloroethene	0.734		0.0276	0.100	1	12/02/2024 15:18	WG2410807
trans-1,2-Dichloroethene	0.802		0.0572	0.200	1	11/26/2024 01:14	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 01:14	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 01:14	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 01:14	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 01:14	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 01:14	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 01:14	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 01:14	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 01:14	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 01:14	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 01:14	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 01:14	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 01:14	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 01:14	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 01:14	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 01:14	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/26/2024 01:14	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 01:14	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 01:14	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 01:14	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 01:14	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 01:14	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 01:14	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 01:14	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 01:14	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 01:14	WG2408490
Toluene	U		0.0500	0.200	1	11/26/2024 01:14	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 01:14	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 01:14	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 01:14	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 01:14	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 01:14	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 01:14	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 01:14	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 01:14	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 01:14	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 01:14	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 01:14	WG2408490
Vinyl chloride	8.71		0.0273	0.100	1	11/26/2024 01:14	WG2408490
Xylenes, Total	U		0.191	0.260	1	11/26/2024 01:14	WG2408490
(S) Toluene-d8	98.1			75.0-131		11/26/2024 01:14	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 15:18	WG2410807
(S) 4-Bromofluorobenzene	89.9			67.0-138		11/26/2024 01:14	WG2408490
(S) 4-Bromofluorobenzene	96.3			67.0-138		12/02/2024 15:18	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/26/2024 01:14	WG2408490
(S) 1,2-Dichloroethane-d4	97.3			70.0-130		12/02/2024 15:18	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	1010000		4750	20000	1	11/22/2024 12:24	WG2406563

Sample Narrative:
L1801569-05 WG2406563: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	74000	J6	547	1000	1	11/25/2024 12:17	WG2405410
Nitrate as (N)	U	T8	88.4	100	1	11/25/2024 12:17	WG2405410
Sulfate	8550		637	5000	1	11/25/2024 12:17	WG2405410

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	57100		990	2000	2	11/26/2024 20:27	WG2407687

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	41600		226	1000	10	11/27/2024 19:04	WG2405975
Manganese	1210		7.00	50.0	10	11/27/2024 19:04	WG2405975

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	27300		2.87	6.78	10	11/21/2024 22:50	WG2406229
Ethane	630		0.296	1.29	1	11/21/2024 14:25	WG2405441
Ethene	1170		0.422	1.27	1	11/21/2024 14:25	WG2405441

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	C3 J3	1.10	2.00	2	11/26/2024 01:33	WG2408490
Acrylonitrile	U	J3	0.152	1.00	2	11/26/2024 01:33	WG2408490
Benzene	0.878		0.0320	0.0800	2	11/26/2024 01:33	WG2408490
Bromobenzene	U		0.0840	1.00	2	11/26/2024 01:33	WG2408490
Bromochloromethane	U		0.0904	0.400	2	11/26/2024 01:33	WG2408490
Bromodichloromethane	U		0.0630	0.200	2	11/26/2024 01:33	WG2408490
Bromoform	U		0.478	2.00	2	11/26/2024 01:33	WG2408490
Bromomethane	U		0.296	1.00	2	11/26/2024 01:33	WG2408490
n-Butylbenzene	U		0.306	1.00	2	11/26/2024 01:33	WG2408490
sec-Butylbenzene	U		0.202	1.00	2	11/26/2024 01:33	WG2408490
tert-Butylbenzene	U		0.124	0.400	2	11/26/2024 01:33	WG2408490
Carbon disulfide	U		0.324	1.00	2	11/26/2024 01:33	WG2408490
Carbon tetrachloride	U		0.0864	0.400	2	11/26/2024 01:33	WG2408490
Chlorobenzene	U		0.0458	0.200	2	11/26/2024 01:33	WG2408490
Chlorodibromomethane	U		0.0360	0.200	2	11/26/2024 01:33	WG2408490
Chloroethane	U		0.0864	0.400	2	11/26/2024 01:33	WG2408490
Chloroform	U		0.0332	0.200	2	11/26/2024 01:33	WG2408490
Chloromethane	U	J4	0.111	1.00	2	11/26/2024 01:33	WG2408490
2-Chlorotoluene	U		0.0736	0.200	2	11/26/2024 01:33	WG2408490
4-Chlorotoluene	U		0.0904	0.400	2	11/26/2024 01:33	WG2408490

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.408	2.00	2	11/26/2024 01:33	WG2408490
1,2-Dibromoethane	U		0.0420	0.200	2	11/26/2024 01:33	WG2408490
Dibromomethane	U		0.0800	0.400	2	11/26/2024 01:33	WG2408490
1,2-Dichlorobenzene	U		0.116	0.400	2	11/26/2024 01:33	WG2408490
1,3-Dichlorobenzene	U		0.136	0.400	2	11/26/2024 01:33	WG2408490
1,4-Dichlorobenzene	U		0.158	0.400	2	11/26/2024 01:33	WG2408490
trans-1,4-Dichloro-2-butene	U		0.112	0.400	2	11/26/2024 01:33	WG2408490
Dichlorodifluoromethane	U		0.0654	0.400	2	11/26/2024 01:33	WG2408490
1,1-Dichloroethane	U		0.0460	0.200	2	11/26/2024 01:33	WG2408490
1,2-Dichloroethane	U		0.0380	0.200	2	11/26/2024 01:33	WG2408490
1,1-Dichloroethene	12.8		0.0400	0.200	2	11/26/2024 01:33	WG2408490
cis-1,2-Dichloroethene	7900		2.76	10.0	100	12/02/2024 19:45	WG2410807
trans-1,2-Dichloroethene	51.9		0.114	0.400	2	11/26/2024 01:33	WG2408490
1,2-Dichloropropane	U		0.102	0.400	2	11/26/2024 01:33	WG2408490
1,1-Dichloropropene	U		0.0560	0.200	2	11/26/2024 01:33	WG2408490
1,3-Dichloropropane	U		0.140	0.400	2	11/26/2024 01:33	WG2408490
cis-1,3-Dichloropropene	U		0.0542	0.200	2	11/26/2024 01:33	WG2408490
trans-1,3-Dichloropropene	U		0.122	0.400	2	11/26/2024 01:33	WG2408490
2,2-Dichloropropane	U		0.0634	0.200	2	11/26/2024 01:33	WG2408490
Di-isopropyl ether	U		0.0280	0.0800	2	11/26/2024 01:33	WG2408490
Ethylbenzene	0.130	J1	0.0424	0.200	2	11/26/2024 01:33	WG2408490
Hexachloro-1,3-butadiene	U		1.02	2.00	2	11/26/2024 01:33	WG2408490
2-Hexanone	U		0.800	2.00	2	11/26/2024 01:33	WG2408490
n-Hexane	U		0.0848	0.400	2	11/26/2024 01:33	WG2408490
Iodomethane	U		0.484	1.00	2	11/26/2024 01:33	WG2408490
Isopropylbenzene	U		0.0690	0.200	2	11/26/2024 01:33	WG2408490
p-Isopropyltoluene	U		0.186	0.400	2	11/26/2024 01:33	WG2408490
2-Butanone (MEK)	U		1.00	2.00	2	11/26/2024 01:33	WG2408490
Methylene Chloride	U	J3	0.530	2.00	2	11/26/2024 01:33	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.800	2.00	2	11/26/2024 01:33	WG2408490
Methyl tert-butyl ether	0.270		0.0236	0.0800	2	11/26/2024 01:33	WG2408490
Naphthalene	U		0.248	1.00	2	11/26/2024 01:33	WG2408490
n-Propylbenzene	U		0.0944	0.400	2	11/26/2024 01:33	WG2408490
Styrene	U		0.218	1.00	2	11/26/2024 01:33	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0400	0.200	2	11/26/2024 01:33	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0312	0.200	2	11/26/2024 01:33	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0540	0.200	2	11/26/2024 01:33	WG2408490
Tetrachloroethene	U		0.0560	0.200	2	11/26/2024 01:33	WG2408490
Toluene	0.944		0.100	0.400	2	11/26/2024 01:33	WG2408490
1,2,3-Trichlorobenzene	U		0.0500	1.00	2	11/26/2024 01:33	WG2408490
1,2,4-Trichlorobenzene	U		0.386	1.00	2	11/26/2024 01:33	WG2408490
1,1,1-Trichloroethane	U		0.0220	0.200	2	11/26/2024 01:33	WG2408490
1,1,2-Trichloroethane	U		0.0706	0.200	2	11/26/2024 01:33	WG2408490
Trichloroethene	0.778		0.0320	0.0800	2	11/26/2024 01:33	WG2408490
Trichlorofluoromethane	U		0.0400	0.200	2	11/26/2024 01:33	WG2408490
1,2,3-Trichloropropane	U		0.408	1.00	2	11/26/2024 01:33	WG2408490
1,2,4-Trimethylbenzene	0.290	J1	0.0928	0.400	2	11/26/2024 01:33	WG2408490
1,2,3-Trimethylbenzene	U		0.0920	0.400	2	11/26/2024 01:33	WG2408490
1,3,5-Trimethylbenzene	U		0.0864	0.400	2	11/26/2024 01:33	WG2408490
Vinyl acetate	U		0.282	1.00	2	11/26/2024 01:33	WG2408490
Vinyl chloride	3060		2.73	10.0	100	12/02/2024 19:45	WG2410807
Xylenes, Total	0.502	J1	0.382	0.520	2	11/26/2024 01:33	WG2408490
(S) Toluene-d8	98.1			75.0-131		11/26/2024 01:33	WG2408490
(S) Toluene-d8	105			75.0-131		12/02/2024 19:45	WG2410807
(S) 4-Bromofluorobenzene	88.4			67.0-138		11/26/2024 01:33	WG2408490
(S) 4-Bromofluorobenzene	99.7			67.0-138		12/02/2024 19:45	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/26/2024 01:33	WG2408490
(S) 1,2-Dichloroethane-d4	98.6			70.0-130		12/02/2024 19:45	WG2410807

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	U		4750	20000	1	11/22/2024 12:28	WG2406563

Sample Narrative:

L1801569-06 WG2406563: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	U		547	1000	1	11/25/2024 12:56	WG2405410
Nitrate as (N)	U	T8	88.4	100	1	11/25/2024 12:56	WG2405410
Sulfate	U		637	5000	1	11/25/2024 12:56	WG2405410

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	U		495	1000	1	11/26/2024 20:39	WG2407687

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	U		22.6	100	1	11/27/2024 19:08	WG2405975
Manganese	0.780	J	0.700	5.00	1	11/27/2024 19:08	WG2405975

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	11/21/2024 14:40	WG2405441
Ethane	U		0.296	1.29	1	11/21/2024 14:40	WG2405441
Ethene	U		0.422	1.27	1	11/21/2024 14:40	WG2405441

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	C3 J3	0.548	1.00	1	11/26/2024 01:52	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 01:52	WG2408490
Benzene	U		0.0160	0.0400	1	11/26/2024 01:52	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 01:52	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 01:52	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 01:52	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 01:52	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 01:52	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 01:52	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 01:52	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 01:52	WG2408490
Carbon disulfide	0.205	J	0.162	0.500	1	11/26/2024 01:52	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 01:52	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 01:52	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 01:52	WG2408490
Chloroethane	U		0.0432	0.200	1	11/26/2024 01:52	WG2408490
Chloroform	0.611		0.0166	0.100	1	11/26/2024 01:52	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 01:52	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 01:52	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 01:52	WG2408490

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 01:52	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 01:52	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 01:52	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 01:52	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 01:52	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 01:52	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 01:52	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 01:52	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 01:52	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 01:52	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 01:52	WG2408490
cis-1,2-Dichloroethene	U		0.0276	0.100	1	12/02/2024 12:46	WG2410807
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/26/2024 01:52	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 01:52	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 01:52	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 01:52	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 01:52	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 01:52	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 01:52	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 01:52	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 01:52	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 01:52	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 01:52	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 01:52	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 01:52	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 01:52	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 01:52	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 01:52	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/26/2024 01:52	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 01:52	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 01:52	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 01:52	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 01:52	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 01:52	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 01:52	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 01:52	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 01:52	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 01:52	WG2408490
Toluene	U		0.0500	0.200	1	11/26/2024 01:52	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 01:52	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 01:52	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 01:52	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 01:52	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 01:52	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 01:52	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 01:52	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 01:52	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 01:52	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 01:52	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 01:52	WG2408490
Vinyl chloride	U		0.0273	0.100	1	12/02/2024 12:46	WG2410807
Xylenes, Total	U		0.191	0.260	1	11/26/2024 01:52	WG2408490
(S) Toluene-d8	98.2			75.0-131		11/26/2024 01:52	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 12:46	WG2410807
(S) 4-Bromofluorobenzene	87.3			67.0-138		11/26/2024 01:52	WG2408490
(S) 4-Bromofluorobenzene	96.6			67.0-138		12/02/2024 12:46	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/26/2024 01:52	WG2408490
(S) 1,2-Dichloroethane-d4	97.4			70.0-130		12/02/2024 12:46	WG2410807

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	U		4750	20000	1	11/22/2024 12:31	WG2406563

Sample Narrative:

L1801569-07 WG2406563: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	U		547	1000	1	11/25/2024 13:08	WG2405410
Nitrate as (N)	U	T8	88.4	100	1	11/25/2024 13:08	WG2405410
Sulfate	U		637	5000	1	11/25/2024 13:08	WG2405410

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	U		495	1000	1	11/26/2024 20:51	WG2407687

Metals (ICPMS) by Method 6020B

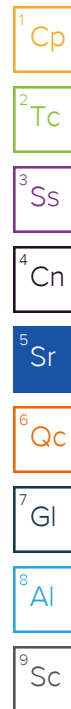
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	U		22.6	100	1	11/27/2024 19:11	WG2405975
Manganese	U		0.700	5.00	1	11/27/2024 19:11	WG2405975

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	11/21/2024 14:44	WG2405441
Ethane	U		0.296	1.29	1	11/21/2024 14:44	WG2405441
Ethene	U		0.422	1.27	1	11/21/2024 14:44	WG2405441

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	C3 J3	0.548	1.00	1	11/26/2024 02:12	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 02:12	WG2408490
Benzene	U		0.0160	0.0400	1	11/26/2024 02:12	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 02:12	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 02:12	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 02:12	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 02:12	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 02:12	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 02:12	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 02:12	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 02:12	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 02:12	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 02:12	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 02:12	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 02:12	WG2408490
Chloroethane	U		0.0432	0.200	1	11/26/2024 02:12	WG2408490
Chloroform	0.440		0.0166	0.100	1	11/26/2024 02:12	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 02:12	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 02:12	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 02:12	WG2408490



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 02:12	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 02:12	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 02:12	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 02:12	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 02:12	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 02:12	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 02:12	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 02:12	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 02:12	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 02:12	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 02:12	WG2408490
cis-1,2-Dichloroethene	U		0.0276	0.100	1	12/02/2024 13:04	WG2410807
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/26/2024 02:12	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 02:12	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 02:12	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 02:12	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 02:12	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 02:12	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 02:12	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 02:12	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 02:12	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 02:12	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 02:12	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 02:12	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 02:12	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 02:12	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 02:12	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 02:12	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/26/2024 02:12	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 02:12	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 02:12	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 02:12	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 02:12	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 02:12	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 02:12	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 02:12	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 02:12	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 02:12	WG2408490
Toluene	U		0.0500	0.200	1	11/26/2024 02:12	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 02:12	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 02:12	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 02:12	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 02:12	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 02:12	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 02:12	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 02:12	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 02:12	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 02:12	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 02:12	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 02:12	WG2408490
Vinyl chloride	U		0.0273	0.100	1	12/02/2024 13:04	WG2410807
Xylenes, Total	U		0.191	0.260	1	11/26/2024 02:12	WG2408490
(S) Toluene-d8	99.5			75.0-131		11/26/2024 02:12	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 13:04	WG2410807
(S) 4-Bromofluorobenzene	90.4			67.0-138		11/26/2024 02:12	WG2408490
(S) 4-Bromofluorobenzene	95.6			67.0-138		12/02/2024 13:04	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/26/2024 02:12	WG2408490
(S) 1,2-Dichloroethane-d4	96.1			70.0-130		12/02/2024 13:04	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4149462-2 11/22/24 09:16

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Alkalinity	U		4750	20000

Sample Narrative:
BLANK: Endpoint pH 4.5

L1801569-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1801569-01 11/22/24 10:59 • (DUP) R4149462-3 11/22/24 11:04

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	683000	689000	1	1.00		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

L1801569-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1801569-07 11/22/24 12:31 • (DUP) R4149462-4 11/22/24 12:35

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

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4149462-1 11/22/24 09:10

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	109000	109	90.0-110	

Sample Narrative:
LCS: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4150299-1 11/24/24 21:58

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		547	1000
Nitrate as (N)	U		88.4	100
Sulfate	U		637	5000

L1801382-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1801382-05 11/24/24 22:38 • (DUP) R4150299-3 11/25/24 05:09

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

L1801458-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1801458-01 11/24/24 23:32 • (DUP) R4150299-6 11/25/24 05:49

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	14000	13900	1	0.372		15
Sulfate	8970	8740	1	2.56		15

Laboratory Control Sample (LCS)

(LCS) R4150299-2 11/24/24 22:12

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	43300	108	80.0-120	
Nitrate as (N)	8000	8790	110	80.0-120	
Sulfate	40000	43200	108	80.0-120	

L1801382-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801382-05 11/24/24 22:38 • (MS) R4150299-4 11/25/24 05:22 • (MSD) R4150299-5 11/25/24 05:36

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Chloride	40000	U	40300	40300	101	101	1	80.0-120			0.167	15
Nitrate as (N)	8000	U	8180	8290	102	104	1	80.0-120			1.28	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1801382-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801382-05 11/24/24 22:38 • (MS) R4150299-4 11/25/24 05:22 • (MSD) R4150299-5 11/25/24 05:36

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Sulfate	40000	U	40800	40600	102	101	1	80.0-120			0.482	15

L1801458-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1801458-01 11/24/24 23:32 • (MS) R4150299-7 11/25/24 06:03

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	40000	14000	53000	97.6	1	80.0-120	
Sulfate	40000	8970	48200	98.1	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4150497-1 11/25/24 10:56

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		547	1000
Nitrate as (N)	U		88.4	100
Sulfate	U		637	5000

L1801569-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1801569-04 11/25/24 11:22 • (DUP) R4150497-3 11/25/24 11:39

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	78900	76600	1	2.96		15
Nitrate as (N)	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1801569-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1801569-05 11/25/24 12:17 • (DUP) R4150497-6 11/25/24 12:30

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	74000	74000	1	0.0180		15
Nitrate as (N)	U	U	1	0.000		15
Sulfate	8550	8510	1	0.434		15

Laboratory Control Sample (LCS)

(LCS) R4150497-2 11/25/24 11:09

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	39200	98.0	80.0-120	
Nitrate as (N)	8000	8140	102	80.0-120	
Sulfate	40000	39100	97.6	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1801569-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801569-04 11/25/24 11:22 • (MS) R4150497-4 11/25/24 11:51 • (MSD) R4150497-5 11/25/24 12:04

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chloride	40000	78900	102000	100000	58.2	53.3	1	80.0-120	J6	J6	1.94	15
Nitrate as (N)	8000	U	7770	7630	97.2	95.3	1	80.0-120			1.89	15
Sulfate	40000	U	37100	36500	92.7	91.2	1	80.0-120			1.63	15

L1801569-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1801569-05 11/25/24 12:17 • (MS) R4150497-7 11/25/24 12:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	40000	74000	92100	45.2	1	80.0-120	J6
Nitrate as (N)	8000	U	7720	96.6	1	80.0-120	
Sulfate	40000	8550	45200	91.6	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4151181-2 11/26/24 12:14

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	U		495	1000

L1801569-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1801569-03 11/26/24 19:38 • (DUP) R4151181-5 11/26/24 19:54

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	29700	29700	1	0.0337		20

Laboratory Control Sample (LCS)

(LCS) R4151181-1 11/26/24 12:02

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	25000	24300	97.4	85.0-115	

L1801569-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801569-02 11/26/24 18:37 • (MS) R4151181-3 11/26/24 18:55 • (MSD) R4151181-4 11/26/24 19:13

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	37900	63600	63900	103	104	1	85.0-115	E	E	0.580	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4151653-1 11/27/24 17:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		22.6	100
Manganese	U		0.700	5.00

Laboratory Control Sample (LCS)

(LCS) R4151653-2 11/27/24 17:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	1000	973	97.3	80.0-120	
Manganese	50.0	49.8	99.7	80.0-120	

L1801537-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801537-02 11/27/24 17:48 • (MS) R4151653-4 11/27/24 17:54 • (MSD) R4151653-5 11/27/24 17:57

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	1000	1500	2420	2290	92.1	79.3	10	75.0-125			5.44	20
Manganese	50.0	4290	4230	4080	0.000	0.000	10	75.0-125	V	V	3.63	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4148965-2 11/21/24 12:57

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

L1801442-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1801442-09 11/21/24 13:22 • (DUP) R4148965-3 11/21/24 13:38

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

L1801442-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1801442-12 11/21/24 13:41 • (DUP) R4148965-4 11/21/24 14:47

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

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

(LCS) R4148965-1 11/21/24 12:52 • (LCSD) R4148965-5 11/21/24 14:50

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methane	67.8	73.8	73.9	109	109	85.0-115			0.135	20
Ethane	129	136	136	105	105	85.0-115			0.000	20
Ethene	127	133	132	105	104	85.0-115			0.755	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4149280-2 11/21/24 17:30

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

L1800879-36 Original Sample (OS) • Duplicate (DUP)

(OS) L1800879-36 11/21/24 17:34 • (DUP) R4149280-3 11/21/24 22:07

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	21500	21200	10	1.41		20

L1801376-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1801376-01 11/21/24 22:12 • (DUP) R4149280-4 11/22/24 00:23

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	12800	13100	10	2.32		20

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

(LCS) R4149280-1 11/21/24 17:24 • (LCSD) R4149280-5 11/22/24 00:36

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	67.7	70.3	99.9	104	85.0-115			3.77	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4152074-3 11/25/24 22:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromochloromethane	U		0.0452	0.200
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon disulfide	U		0.162	0.500
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.200
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4152074-3 11/25/24 22:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
2-Hexanone	U		0.400	1.00
n-Hexane	U		0.0424	0.200
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl acetate	U		0.141	0.500
Vinyl chloride	0.103		0.0273	0.100
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	100			75.0-131
(S) 4-Bromofluorobenzene	88.3			67.0-138
(S) 1,2-Dichloroethane-d4	108			70.0-130

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4152074-1 11/25/24 20:45 • (LCSD) R4152074-2 11/25/24 21:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	15.7	22.4	62.8	89.6	10.0-160		J3	35.2	31
Acrylonitrile	25.0	30.0	23.6	120	94.4	45.0-153		J3	23.9	22
Benzene	5.00	4.76	4.74	95.2	94.8	70.0-123			0.421	20
Bromobenzene	5.00	5.48	4.86	110	97.2	73.0-121			12.0	20
Bromochloromethane	5.00	4.94	4.90	98.8	98.0	77.0-128			0.813	20
Bromodichloromethane	5.00	5.19	5.04	104	101	73.0-121			2.93	20
Bromoform	5.00	4.01	4.03	80.2	80.6	64.0-132			0.498	20
Bromomethane	5.00	4.46	5.22	89.2	104	56.0-147			15.7	20
n-Butylbenzene	5.00	5.02	5.03	100	101	68.0-135			0.199	20
sec-Butylbenzene	5.00	5.21	5.00	104	100	74.0-130			4.11	20
tert-Butylbenzene	5.00	5.18	4.84	104	96.8	75.0-127			6.79	20
Carbon disulfide	5.00	4.29	4.31	85.8	86.2	56.0-133			0.465	20
Carbon tetrachloride	5.00	5.06	5.13	101	103	66.0-128			1.37	20
Chlorobenzene	5.00	4.58	4.53	91.6	90.6	76.0-128			1.10	20
Chlorodibromomethane	5.00	4.58	4.50	91.6	90.0	74.0-127			1.76	20
Chloroethane	5.00	5.56	5.91	111	118	61.0-134			6.10	20
Chloroform	5.00	4.74	4.69	94.8	93.8	72.0-123			1.06	20
Chloromethane	5.00	7.02	7.40	140	148	51.0-138	J4	J4	5.27	20
2-Chlorotoluene	5.00	5.48	4.88	110	97.6	75.0-124			11.6	20
4-Chlorotoluene	5.00	5.43	4.95	109	99.0	75.0-124			9.25	20
1,2-Dibromo-3-Chloropropane	5.00	4.65	4.01	93.0	80.2	59.0-130			14.8	20
1,2-Dibromoethane	5.00	4.68	4.60	93.6	92.0	74.0-128			1.72	20
Dibromomethane	5.00	5.03	4.79	101	95.8	75.0-122			4.89	20
1,2-Dichlorobenzene	5.00	5.11	4.65	102	93.0	76.0-124			9.43	20
1,3-Dichlorobenzene	5.00	5.14	4.78	103	95.6	76.0-125			7.26	20
1,4-Dichlorobenzene	5.00	5.36	4.69	107	93.8	77.0-121			13.3	20
trans-1,4-Dichloro-2-butene	5.00	4.94	4.23	98.8	84.6	45.0-143			15.5	20
Dichlorodifluoromethane	5.00	4.95	5.33	99.0	107	43.0-156			7.39	20
1,1-Dichloroethane	5.00	5.04	4.90	101	98.0	70.0-127			2.82	20
1,2-Dichloroethane	5.00	4.92	4.82	98.4	96.4	65.0-131			2.05	20
1,1-Dichloroethene	5.00	4.87	4.98	97.4	99.6	65.0-131			2.23	20
trans-1,2-Dichloroethene	5.00	4.48	4.57	89.6	91.4	71.0-125			1.99	20
1,2-Dichloropropane	5.00	5.37	5.19	107	104	74.0-125			3.41	20
1,1-Dichloropropene	5.00	5.15	5.09	103	102	73.0-125			1.17	20
1,3-Dichloropropane	5.00	5.14	4.96	103	99.2	80.0-125			3.56	20
cis-1,3-Dichloropropene	5.00	5.18	5.14	104	103	76.0-127			0.775	20
trans-1,3-Dichloropropene	5.00	4.76	4.75	95.2	95.0	73.0-127			0.210	20
2,2-Dichloropropane	5.00	4.97	5.02	99.4	100	59.0-135			1.00	20
Di-isopropyl ether	5.00	4.88	4.65	97.6	93.0	60.0-136			4.83	20
Ethylbenzene	5.00	4.56	4.61	91.2	92.2	74.0-126			1.09	20

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

(LCS) R4152074-1 11/25/24 20:45 • (LCSD) R4152074-2 11/25/24 21:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	4.04	4.69	80.8	93.8	57.0-150			14.9	20
2-Hexanone	25.0	21.4	22.7	85.6	90.8	54.0-147			5.90	20
n-Hexane	5.00	4.80	4.40	96.0	88.0	55.0-137			8.70	20
Iodomethane	25.0	21.6	19.4	86.4	77.6	74.0-134			10.7	20
Isopropylbenzene	5.00	4.46	4.73	89.2	94.6	72.0-127			5.88	20
p-Isopropyltoluene	5.00	5.20	5.04	104	101	72.0-133			3.12	20
2-Butanone (MEK)	25.0	22.9	22.2	91.6	88.8	30.0-160			3.10	24
Methylene Chloride	5.00	4.83	3.88	96.6	77.6	68.0-123		J3	21.8	20
4-Methyl-2-pentanone (MIBK)	25.0	27.2	26.3	109	105	56.0-143			3.36	20
Methyl tert-butyl ether	5.00	4.76	3.94	95.2	78.8	66.0-132			18.9	20
Naphthalene	5.00	4.36	3.86	87.2	77.2	59.0-130			12.2	20
n-Propylbenzene	5.00	5.26	5.03	105	101	74.0-126			4.47	20
Styrene	5.00	4.56	4.65	91.2	93.0	72.0-127			1.95	20
1,1,1,2-Tetrachloroethane	5.00	4.49	4.39	89.8	87.8	74.0-129			2.25	20
1,1,2,2-Tetrachloroethane	5.00	5.76	4.88	115	97.6	68.0-128			16.5	20
1,1,2-Trichlorotrifluoroethane	5.00	4.70	5.00	94.0	100	61.0-139			6.19	20
Tetrachloroethene	5.00	4.69	4.72	93.8	94.4	70.0-136			0.638	20
Toluene	5.00	4.76	4.67	95.2	93.4	75.0-121			1.91	20
1,2,3-Trichlorobenzene	5.00	4.85	4.43	97.0	88.6	59.0-139			9.05	20
1,2,4-Trichlorobenzene	5.00	4.46	4.23	89.2	84.6	62.0-137			5.29	20
1,1,1-Trichloroethane	5.00	5.05	5.05	101	101	69.0-126			0.000	20
1,1,2-Trichloroethane	5.00	5.19	4.90	104	98.0	78.0-123			5.75	20
Trichloroethene	5.00	4.79	4.92	95.8	98.4	76.0-126			2.68	20
Trichlorofluoromethane	5.00	4.99	5.27	99.8	105	61.0-142	J	J	5.46	20
1,2,3-Trichloropropane	5.00	5.87	5.02	117	100	67.0-129			15.6	20
1,2,4-Trimethylbenzene	5.00	5.23	4.93	105	98.6	70.0-126			5.91	20
1,2,3-Trimethylbenzene	5.00	5.12	4.69	102	93.8	74.0-124			8.77	20
1,3,5-Trimethylbenzene	5.00	5.17	4.75	103	95.0	73.0-127			8.47	20
Vinyl acetate	25.0	24.4	23.5	97.6	94.0	43.0-159			3.76	20
Vinyl chloride	5.00	5.73	5.97	115	119	63.0-134			4.10	20
Xylenes, Total	15.0	12.9	13.2	86.0	88.0	72.0-127			2.30	20
(S) Toluene-d8				97.8	96.9	75.0-131				
(S) 4-Bromofluorobenzene				89.2	94.3	67.0-138				
(S) 1,2-Dichloroethane-d4				105	107	70.0-130				

1Cp

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9Sc

Method Blank (MB)

(MB) R4153604-3 12/02/24 11:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	103			75.0-131
(S) 4-Bromofluorobenzene	94.7			67.0-138
(S) 1,2-Dichloroethane-d4	95.0			70.0-130

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

(LCS) R4153604-1 12/02/24 09:54 • (LCSD) R4153604-2 12/02/24 10:13

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	5.00	5.06	4.91	101	98.2	73.0-125			3.01	20
Vinyl chloride	5.00	5.67	5.78	113	116	63.0-134			1.92	20
(S) Toluene-d8				101	104	75.0-131				
(S) 4-Bromofluorobenzene				97.6	98.3	67.0-138				
(S) 1,2-Dichloroethane-d4				97.8	95.6	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

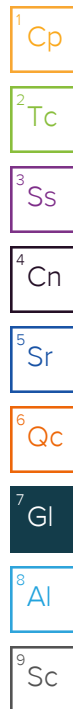
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

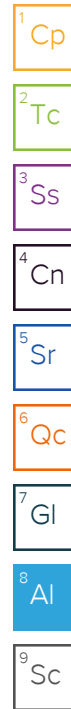
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



[illegible]

PESENVSWA L1801569 / L1802011 / L1802018

R2/R3/R4/RX/EX

Please add CHLORIDE, NITRATE, and ALK to the following SDGs/samples:

- L1801569-01 thru -07
- L1802011-01 thru -05
- L1802018-01 thru -05

Please use the revised attached COC's

Time estimate: oh

Time spent: oh

Members

- SG Shane Gambill
- JD Jordan Dozier

PES Environmental, Inc.- WA

Sample Delivery Group: L1802011
Samples Received: 11/20/2024
Project Number: 443022-1413001.10
Description: American Linen

Report To: Craig Peterson
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



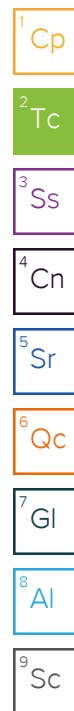
Jordan Dozier
Project Manager

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

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

MW-168-111924 L1802011-01 GW

Collected by
Collected date/time
Received date/time

11/19/24 11:37 11/20/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2409611	1	11/27/24 12:00	11/27/24 12:00	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2405410	1	11/25/24 16:08	11/25/24 16:08	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2409237	1	11/28/24 15:10	11/28/24 15:10	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2407799	1	11/29/24 12:30	12/03/24 23:52	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406175	1	11/22/24 11:25	11/22/24 11:25	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406886	10	11/23/24 10:48	11/23/24 10:48	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/26/24 02:31	11/26/24 02:31	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	1	12/02/24 15:38	12/02/24 15:38	JHH	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

MW-165-111924 L1802011-02 GW

Collected by
Collected date/time
Received date/time

11/19/24 10:40 11/20/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2409611	1	11/27/24 12:07	11/27/24 12:07	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2405410	1	11/25/24 16:20	11/25/24 16:20	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2409237	1	11/28/24 15:28	11/28/24 15:28	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2407799	1	11/29/24 12:30	12/03/24 23:55	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406175	1	11/22/24 11:28	11/22/24 11:28	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406886	10	11/23/24 10:53	11/23/24 10:53	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/26/24 02:50	11/26/24 02:50	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	1	12/02/24 15:57	12/02/24 15:57	JHH	Mt. Juliet, TN

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-167-111924 L1802011-03 GW

Collected by
Collected date/time
Received date/time

11/19/24 12:15 11/20/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2409611	1	11/27/24 12:11	11/27/24 12:11	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2405410	1	11/25/24 16:33	11/25/24 16:33	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2409237	1	11/28/24 15:44	11/28/24 15:44	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2407799	1	11/29/24 12:30	12/03/24 23:58	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406175	1	11/22/24 11:33	11/22/24 11:33	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406886	10	11/23/24 10:56	11/23/24 10:56	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/26/24 03:09	11/26/24 03:09	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	1	12/02/24 16:16	12/02/24 16:16	JHH	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time

11/19/24 11:11 11/20/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2409611	1	11/27/24 12:17	11/27/24 12:17	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2405410	1	11/25/24 16:46	11/25/24 16:46	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2409237	1	11/28/24 16:01	11/28/24 16:01	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2407799	1	11/29/24 12:30	12/04/24 00:02	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406175	1	11/22/24 12:06	11/22/24 12:06	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406886	10	11/23/24 11:00	11/23/24 11:00	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/26/24 03:29	11/26/24 03:29	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	1	12/02/24 16:35	12/02/24 16:35	JHH	Mt. Juliet, TN

SAMPLE SUMMARY

MW-185-111924 L1802011-05 GW

Collected by

Collected date/time

Received date/time

11/19/24 11:53

11/20/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2409611	1	11/27/24 12:23	11/27/24 12:23	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2405410	1	11/25/24 16:59	11/25/24 16:59	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2409237	1	11/28/24 16:19	11/28/24 16:19	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2407799	1	11/29/24 12:30	12/04/24 00:05	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406175	1	11/22/24 12:18	11/22/24 12:18	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406886	10	11/23/24 11:06	11/23/24 11:06	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/26/24 03:48	11/26/24 03:48	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	1	12/02/24 16:54	12/02/24 16:54	JHH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

443022-1413001.10

SDG:

L1802011

DATE/TIME:

12/09/24 10:28

PAGE:

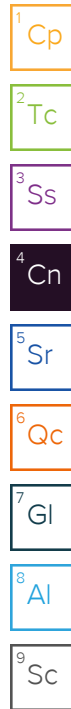
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CASE NARRATIVE

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



Jordan Dozier
Project Manager



Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	510000		4750	20000	1	11/27/2024 12:00	WG2409611

Sample Narrative:

L1802011-01 WG2409611: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	42900		547	1000	1	11/25/2024 16:08	WG2405410
Nitrate as (N)	U	T8	88.4	100	1	11/25/2024 16:08	WG2405410
Sulfate	1290	J	637	5000	1	11/25/2024 16:08	WG2405410

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	13600		495	1000	1	11/28/2024 15:10	WG2409237

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	13400		22.6	100	1	12/03/2024 23:52	WG2407799
Manganese	1520		0.700	5.00	1	12/03/2024 23:52	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	16800		2.87	6.78	10	11/23/2024 10:48	WG2406886
Ethane	325		0.296	1.29	1	11/22/2024 11:25	WG2406175
Ethene	2.27		0.422	1.27	1	11/22/2024 11:25	WG2406175

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3 J3	0.548	1.00	1	11/26/2024 02:31	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 02:31	WG2408490
Benzene	U		0.0160	0.0400	1	11/26/2024 02:31	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 02:31	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 02:31	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 02:31	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 02:31	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 02:31	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 02:31	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 02:31	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 02:31	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 02:31	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 02:31	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 02:31	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 02:31	WG2408490
Chloroethane	0.855		0.0432	0.200	1	11/26/2024 02:31	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 02:31	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 02:31	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 02:31	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 02:31	WG2408490

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 02:31	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 02:31	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 02:31	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 02:31	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 02:31	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 02:31	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 02:31	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 02:31	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 02:31	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 02:31	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 02:31	WG2408490
cis-1,2-Dichloroethene	0.234		0.0276	0.100	1	12/02/2024 15:38	WG2410807
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/26/2024 02:31	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 02:31	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 02:31	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 02:31	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 02:31	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 02:31	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 02:31	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 02:31	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 02:31	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 02:31	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 02:31	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 02:31	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 02:31	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 02:31	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 02:31	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 02:31	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/26/2024 02:31	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 02:31	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 02:31	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 02:31	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 02:31	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 02:31	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 02:31	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 02:31	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 02:31	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 02:31	WG2408490
Toluene	0.0910	J	0.0500	0.200	1	11/26/2024 02:31	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 02:31	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 02:31	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 02:31	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 02:31	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 02:31	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 02:31	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 02:31	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 02:31	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 02:31	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 02:31	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 02:31	WG2408490
Vinyl chloride	1.58		0.0273	0.100	1	11/26/2024 02:31	WG2408490
Xylenes, Total	0.263		0.191	0.260	1	11/26/2024 02:31	WG2408490
(S) Toluene-d8	96.9			75.0-131		11/26/2024 02:31	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 15:38	WG2410807
(S) 4-Bromofluorobenzene	88.8			67.0-138		11/26/2024 02:31	WG2408490
(S) 4-Bromofluorobenzene	94.9			67.0-138		12/02/2024 15:38	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/26/2024 02:31	WG2408490
(S) 1,2-Dichloroethane-d4	98.1			70.0-130		12/02/2024 15:38	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	903000		4750	20000	1	11/27/2024 12:07	WG2409611

Sample Narrative:
L1802011-02 WG2409611: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	71900		547	1000	1	11/25/2024 16:20	WG2405410
Nitrate as (N)	U	T8	88.4	100	1	11/25/2024 16:20	WG2405410
Sulfate	U		637	5000	1	11/25/2024 16:20	WG2405410

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	23100		495	1000	1	11/28/2024 15:28	WG2409237

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	25200		22.6	100	1	12/03/2024 23:55	WG2407799
Manganese	5680		0.700	5.00	1	12/03/2024 23:55	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	24500		2.87	6.78	10	11/23/2024 10:53	WG2406886
Ethane	188		0.296	1.29	1	11/22/2024 11:28	WG2406175
Ethene	5.63		0.422	1.27	1	11/22/2024 11:28	WG2406175

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3 J3	0.548	1.00	1	11/26/2024 02:50	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 02:50	WG2408490
Benzene	0.0990		0.0160	0.0400	1	11/26/2024 02:50	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 02:50	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 02:50	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 02:50	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 02:50	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 02:50	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 02:50	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 02:50	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 02:50	WG2408490
Carbon disulfide	0.232	J	0.162	0.500	1	11/26/2024 02:50	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 02:50	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 02:50	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 02:50	WG2408490
Chloroethane	U		0.0432	0.200	1	11/26/2024 02:50	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 02:50	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 02:50	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 02:50	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 02:50	WG2408490

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 02:50	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 02:50	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 02:50	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 02:50	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 02:50	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 02:50	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 02:50	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 02:50	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 02:50	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 02:50	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 02:50	WG2408490
cis-1,2-Dichloroethene	3.12		0.0276	0.100	1	12/02/2024 15:57	WG2410807
trans-1,2-Dichloroethene	0.372		0.0572	0.200	1	11/26/2024 02:50	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 02:50	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 02:50	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 02:50	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 02:50	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 02:50	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 02:50	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 02:50	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 02:50	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 02:50	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 02:50	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 02:50	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 02:50	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 02:50	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 02:50	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 02:50	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/26/2024 02:50	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 02:50	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 02:50	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 02:50	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 02:50	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 02:50	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 02:50	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 02:50	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 02:50	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 02:50	WG2408490
Toluene	0.115	J	0.0500	0.200	1	11/26/2024 02:50	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 02:50	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 02:50	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 02:50	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 02:50	WG2408490
Trichloroethene	0.0510		0.0160	0.0400	1	11/26/2024 02:50	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 02:50	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 02:50	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 02:50	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 02:50	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 02:50	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 02:50	WG2408490
Vinyl chloride	3.84		0.0273	0.100	1	11/26/2024 02:50	WG2408490
Xylenes, Total	U		0.191	0.260	1	11/26/2024 02:50	WG2408490
(S) Toluene-d8	99.0			75.0-131		11/26/2024 02:50	WG2408490
(S) Toluene-d8	102			75.0-131		12/02/2024 15:57	WG2410807
(S) 4-Bromofluorobenzene	88.9			67.0-138		11/26/2024 02:50	WG2408490
(S) 4-Bromofluorobenzene	93.5			67.0-138		12/02/2024 15:57	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/26/2024 02:50	WG2408490
(S) 1,2-Dichloroethane-d4	98.2			70.0-130		12/02/2024 15:57	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	456000		4750	20000	1	11/27/2024 12:11	WG2409611

Sample Narrative:
L1802011-03 WG2409611: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	36600		547	1000	1	11/25/2024 16:33	WG2405410
Nitrate as (N)	U	T8	88.4	100	1	11/25/2024 16:33	WG2405410
Sulfate	4070	J	637	5000	1	11/25/2024 16:33	WG2405410

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	11900		495	1000	1	11/28/2024 15:44	WG2409237

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	3250		22.6	100	1	12/03/2024 23:58	WG2407799
Manganese	890		0.700	5.00	1	12/03/2024 23:58	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	9820		2.87	6.78	10	11/23/2024 10:56	WG2406886
Ethane	212		0.296	1.29	1	11/22/2024 11:33	WG2406175
Ethene	15.5		0.422	1.27	1	11/22/2024 11:33	WG2406175

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	29.0	C3 J3	0.548	1.00	1	11/26/2024 03:09	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 03:09	WG2408490
Benzene	U		0.0160	0.0400	1	11/26/2024 03:09	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 03:09	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 03:09	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 03:09	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 03:09	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 03:09	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 03:09	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 03:09	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 03:09	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 03:09	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 03:09	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 03:09	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 03:09	WG2408490
Chloroethane	U		0.0432	0.200	1	11/26/2024 03:09	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 03:09	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 03:09	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 03:09	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 03:09	WG2408490

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 03:09	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 03:09	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 03:09	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 03:09	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 03:09	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 03:09	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 03:09	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 03:09	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 03:09	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 03:09	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 03:09	WG2408490
cis-1,2-Dichloroethene	0.191		0.0276	0.100	1	12/02/2024 16:16	WG2410807
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/26/2024 03:09	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 03:09	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 03:09	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 03:09	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 03:09	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 03:09	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 03:09	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 03:09	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 03:09	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 03:09	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 03:09	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 03:09	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 03:09	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 03:09	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 03:09	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 03:09	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/26/2024 03:09	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 03:09	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 03:09	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 03:09	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 03:09	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 03:09	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 03:09	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 03:09	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 03:09	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 03:09	WG2408490
Toluene	U		0.0500	0.200	1	11/26/2024 03:09	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 03:09	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 03:09	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 03:09	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 03:09	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 03:09	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 03:09	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 03:09	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 03:09	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 03:09	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 03:09	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 03:09	WG2408490
Vinyl chloride	1.14		0.0273	0.100	1	11/26/2024 03:09	WG2408490
Xylenes, Total	U		0.191	0.260	1	11/26/2024 03:09	WG2408490
(S) Toluene-d8	96.8			75.0-131		11/26/2024 03:09	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 16:16	WG2410807
(S) 4-Bromofluorobenzene	88.3			67.0-138		11/26/2024 03:09	WG2408490
(S) 4-Bromofluorobenzene	93.8			67.0-138		12/02/2024 16:16	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/26/2024 03:09	WG2408490
(S) 1,2-Dichloroethane-d4	96.5			70.0-130		12/02/2024 16:16	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	517000		4750	20000	1	11/27/2024 12:17	WG2409611

Sample Narrative:
L1802011-04 WG2409611: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	42500		547	1000	1	11/25/2024 16:46	WG2405410
Nitrate as (N)	U	T8	88.4	100	1	11/25/2024 16:46	WG2405410
Sulfate	1370	J	637	5000	1	11/25/2024 16:46	WG2405410

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	13700		495	1000	1	11/28/2024 16:01	WG2409237

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	7400		22.6	100	1	12/04/2024 00:02	WG2407799
Manganese	1480		0.700	5.00	1	12/04/2024 00:02	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	13400		2.87	6.78	10	11/23/2024 11:00	WG2406886
Ethane	260		0.296	1.29	1	11/22/2024 12:06	WG2406175
Ethene	4.83		0.422	1.27	1	11/22/2024 12:06	WG2406175

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3 J3	0.548	1.00	1	11/26/2024 03:29	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 03:29	WG2408490
Benzene	U		0.0160	0.0400	1	11/26/2024 03:29	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 03:29	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 03:29	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 03:29	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 03:29	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 03:29	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 03:29	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 03:29	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 03:29	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 03:29	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 03:29	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 03:29	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 03:29	WG2408490
Chloroethane	0.913		0.0432	0.200	1	11/26/2024 03:29	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 03:29	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 03:29	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 03:29	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 03:29	WG2408490

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 03:29	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 03:29	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 03:29	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 03:29	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 03:29	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 03:29	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 03:29	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 03:29	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 03:29	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 03:29	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 03:29	WG2408490
cis-1,2-Dichloroethene	0.231		0.0276	0.100	1	12/02/2024 16:35	WG2410807
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/26/2024 03:29	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 03:29	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 03:29	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 03:29	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 03:29	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 03:29	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 03:29	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 03:29	WG2408490
Ethylbenzene	0.0320	U	0.0212	0.100	1	11/26/2024 03:29	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 03:29	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 03:29	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 03:29	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 03:29	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 03:29	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 03:29	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 03:29	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/26/2024 03:29	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 03:29	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 03:29	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 03:29	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 03:29	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 03:29	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 03:29	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 03:29	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 03:29	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 03:29	WG2408490
Toluene	0.0980	U	0.0500	0.200	1	11/26/2024 03:29	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 03:29	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 03:29	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 03:29	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 03:29	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 03:29	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 03:29	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 03:29	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 03:29	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 03:29	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 03:29	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 03:29	WG2408490
Vinyl chloride	1.49		0.0273	0.100	1	11/26/2024 03:29	WG2408490
Xylenes, Total	0.269		0.191	0.260	1	11/26/2024 03:29	WG2408490
(S) Toluene-d8	99.6			75.0-131		11/26/2024 03:29	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 16:35	WG2410807
(S) 4-Bromofluorobenzene	87.7			67.0-138		11/26/2024 03:29	WG2408490
(S) 4-Bromofluorobenzene	94.2			67.0-138		12/02/2024 16:35	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/26/2024 03:29	WG2408490
(S) 1,2-Dichloroethane-d4	97.8			70.0-130		12/02/2024 16:35	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	1400000		4750	20000	1	11/27/2024 12:23	WG2409611

Sample Narrative:
L1802011-05 WG2409611: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	157000		547	1000	1	11/25/2024 16:59	WG2405410
Nitrate as (N)	U	T8	88.4	100	1	11/25/2024 16:59	WG2405410
Sulfate	U		637	5000	1	11/25/2024 16:59	WG2405410

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	22700		495	1000	1	11/28/2024 16:19	WG2409237

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	18800		22.6	100	1	12/04/2024 00:05	WG2407799
Manganese	2510		0.700	5.00	1	12/04/2024 00:05	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	19700		2.87	6.78	10	11/23/2024 11:06	WG2406886
Ethane	81.1		0.296	1.29	1	11/22/2024 12:18	WG2406175
Ethene	15.3		0.422	1.27	1	11/22/2024 12:18	WG2406175

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3 J3	0.548	1.00	1	11/26/2024 03:48	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 03:48	WG2408490
Benzene	0.0840		0.0160	0.0400	1	11/26/2024 03:48	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 03:48	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 03:48	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 03:48	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 03:48	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 03:48	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 03:48	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 03:48	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 03:48	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 03:48	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 03:48	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 03:48	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 03:48	WG2408490
Chloroethane	U		0.0432	0.200	1	11/26/2024 03:48	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 03:48	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 03:48	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 03:48	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 03:48	WG2408490

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 03:48	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 03:48	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 03:48	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 03:48	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 03:48	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 03:48	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 03:48	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 03:48	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 03:48	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 03:48	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 03:48	WG2408490
cis-1,2-Dichloroethene	0.604		0.0276	0.100	1	12/02/2024 16:54	WG2410807
trans-1,2-Dichloroethene	0.0610	J	0.0572	0.200	1	11/26/2024 03:48	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 03:48	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 03:48	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 03:48	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 03:48	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 03:48	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 03:48	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 03:48	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 03:48	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 03:48	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 03:48	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 03:48	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 03:48	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 03:48	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 03:48	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 03:48	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/26/2024 03:48	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 03:48	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 03:48	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 03:48	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 03:48	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 03:48	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 03:48	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 03:48	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 03:48	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 03:48	WG2408490
Toluene	U		0.0500	0.200	1	11/26/2024 03:48	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 03:48	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 03:48	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 03:48	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 03:48	WG2408490
Trichloroethene	0.0300	J	0.0160	0.0400	1	11/26/2024 03:48	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 03:48	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 03:48	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 03:48	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 03:48	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 03:48	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 03:48	WG2408490
Vinyl chloride	1.24		0.0273	0.100	1	11/26/2024 03:48	WG2408490
Xylenes, Total	U		0.191	0.260	1	11/26/2024 03:48	WG2408490
(S) Toluene-d8	98.1			75.0-131		11/26/2024 03:48	WG2408490
(S) Toluene-d8	105			75.0-131		12/02/2024 16:54	WG2410807
(S) 4-Bromofluorobenzene	88.3			67.0-138		11/26/2024 03:48	WG2408490
(S) 4-Bromofluorobenzene	95.3			67.0-138		12/02/2024 16:54	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/26/2024 03:48	WG2408490
(S) 1,2-Dichloroethane-d4	95.9			70.0-130		12/02/2024 16:54	WG2410807

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R4151467-2 11/27/24 11:40

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Alkalinity	U		4750	20000

Sample Narrative:
BLANK: Endpoint pH 4.5

L1802366-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1802366-01 11/27/24 11:48 • (DUP) R4151467-3 11/27/24 11:54

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	431000	434000	1	0.585		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

L1803011-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1803011-12 11/27/24 14:34 • (DUP) R4151467-4 11/27/24 14:40

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	302000	309000	1	2.29		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4151467-1 11/27/24 11:34

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	103000	103	90.0-110	

Sample Narrative:
LCS: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4150497-1 11/25/24 10:56

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		547	1000
Nitrate as (N)	U		88.4	100
Sulfate	U		637	5000

L1801569-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1801569-04 11/25/24 11:22 • (DUP) R4150497-3 11/25/24 11:39

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	78900	76600	1	2.96		15
Nitrate as (N)	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1801569-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1801569-05 11/25/24 12:17 • (DUP) R4150497-6 11/25/24 12:30

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	74000	74000	1	0.0180		15
Nitrate as (N)	U	U	1	0.000		15
Sulfate	8550	8510	1	0.434		15

Laboratory Control Sample (LCS)

(LCS) R4150497-2 11/25/24 11:09

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	ug/l	ug/l	%	%	
Chloride	40000	39200	98.0	80.0-120	
Nitrate as (N)	8000	8140	102	80.0-120	
Sulfate	40000	39100	97.6	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1801569-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801569-04 11/25/24 11:22 • (MS) R4150497-4 11/25/24 11:51 • (MSD) R4150497-5 11/25/24 12:04

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	78900	102000	100000	58.2	53.3	1	80.0-120	J6	J6	1.94	15
Nitrate as (N)	8000	U	7770	7630	97.2	95.3	1	80.0-120			1.89	15
Sulfate	40000	U	37100	36500	92.7	91.2	1	80.0-120			1.63	15

L1801569-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1801569-05 11/25/24 12:17 • (MS) R4150497-7 11/25/24 12:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	74000	92100	45.2	1	80.0-120	J6
Nitrate as (N)	8000	U	7720	96.6	1	80.0-120	
Sulfate	40000	8550	45200	91.6	1	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4151781-2 11/28/24 10:58

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	U		495	1000

L1801964-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1801964-01 11/28/24 14:40 • (DUP) R4151781-5 11/28/24 14:54

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	2370	2130	1	10.8		20

L1802018-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1802018-04 11/28/24 18:26 • (DUP) R4151781-8 11/28/24 18:40

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	2010	1890	1	6.22		20

Laboratory Control Sample (LCS)

(LCS) R4151781-1 11/28/24 10:46

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	25000	24200	96.9	85.0-115	

L1801954-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801954-11 11/28/24 13:02 • (MS) R4151781-3 11/28/24 13:50 • (MSD) R4151781-4 11/28/24 14:09

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	5690	30300	31600	98.5	103	1	85.0-115			3.98	20

L1802018-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1802018-03 11/28/24 17:38 • (MS) R4151781-6 11/28/24 17:55 • (MSD) R4151781-7 11/28/24 18:12

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	1910	26400	26400	98.0	98.1	1	85.0-115			0.151	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4153207-1 12/03/24 22:45

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Iron	U		22.6	100
Manganese	U		0.700	5.00

Laboratory Control Sample (LCS)

(LCS) R4153207-2 12/03/24 22:49

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Iron	1000	945	94.5	80.0-120	
Manganese	50.0	48.0	96.1	80.0-120	

L1801919-33 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801919-33 12/03/24 22:58 • (MS) R4153207-4 12/03/24 23:05 • (MSD) R4153207-5 12/03/24 23:08

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	1000	6730	7690	7700	96.0	97.1	1	75.0-125			0.136	20
Manganese	50.0	53.2	100	99.8	94.4	93.2	1	75.0-125			0.573	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4149529-2 11/22/24 09:39

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

L1801219-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1801219-01 11/22/24 09:50 • (DUP) R4149529-3 11/22/24 12:12

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

L1802025-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1802025-01 11/22/24 14:04 • (DUP) R4149529-4 11/22/24 14:25

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

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

(LCS) R4149529-1 11/22/24 09:20 • (LCSD) R4149529-5 11/22/24 14:53

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Ethane	129	113	123	87.6	95.3	85.0-115			8.47	20
Ethene	127	113	124	89.0	97.6	85.0-115			9.28	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4149831-2 11/23/24 08:32

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

L1802011-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1802011-01 11/23/24 10:48 • (DUP) R4149831-3 11/23/24 11:39

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	16800	16600	10	1.20		20

L1802018-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1802018-02 11/23/24 11:42 • (DUP) R4149831-4 11/23/24 11:48

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	21900	21800	10	0.458		20

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

(LCS) R4149831-1 11/23/24 08:27 • (LCSD) R4149831-5 11/23/24 12:00

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	75.5	75.3	111	111	85.0-115			0.265	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4152074-3 11/25/24 22:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromochloromethane	U		0.0452	0.200
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon disulfide	U		0.162	0.500
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.200
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4152074-3 11/25/24 22:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
2-Hexanone	U		0.400	1.00
n-Hexane	U		0.0424	0.200
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl acetate	U		0.141	0.500
Vinyl chloride	0.103		0.0273	0.100
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	100			75.0-131
(S) 4-Bromofluorobenzene	88.3			67.0-138
(S) 1,2-Dichloroethane-d4	108			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4152074-1 11/25/24 20:45 • (LCSD) R4152074-2 11/25/24 21:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	15.7	22.4	62.8	89.6	10.0-160		J3	35.2	31
Acrylonitrile	25.0	30.0	23.6	120	94.4	45.0-153		J3	23.9	22
Benzene	5.00	4.76	4.74	95.2	94.8	70.0-123			0.421	20
Bromobenzene	5.00	5.48	4.86	110	97.2	73.0-121			12.0	20
Bromochloromethane	5.00	4.94	4.90	98.8	98.0	77.0-128			0.813	20
Bromodichloromethane	5.00	5.19	5.04	104	101	73.0-121			2.93	20
Bromoform	5.00	4.01	4.03	80.2	80.6	64.0-132			0.498	20
Bromomethane	5.00	4.46	5.22	89.2	104	56.0-147			15.7	20
n-Butylbenzene	5.00	5.02	5.03	100	101	68.0-135			0.199	20
sec-Butylbenzene	5.00	5.21	5.00	104	100	74.0-130			4.11	20
tert-Butylbenzene	5.00	5.18	4.84	104	96.8	75.0-127			6.79	20
Carbon disulfide	5.00	4.29	4.31	85.8	86.2	56.0-133			0.465	20
Carbon tetrachloride	5.00	5.06	5.13	101	103	66.0-128			1.37	20
Chlorobenzene	5.00	4.58	4.53	91.6	90.6	76.0-128			1.10	20
Chlorodibromomethane	5.00	4.58	4.50	91.6	90.0	74.0-127			1.76	20
Chloroethane	5.00	5.56	5.91	111	118	61.0-134			6.10	20
Chloroform	5.00	4.74	4.69	94.8	93.8	72.0-123			1.06	20
Chloromethane	5.00	7.02	7.40	140	148	51.0-138	J4	J4	5.27	20
2-Chlorotoluene	5.00	5.48	4.88	110	97.6	75.0-124			11.6	20
4-Chlorotoluene	5.00	5.43	4.95	109	99.0	75.0-124			9.25	20
1,2-Dibromo-3-Chloropropane	5.00	4.65	4.01	93.0	80.2	59.0-130			14.8	20
1,2-Dibromoethane	5.00	4.68	4.60	93.6	92.0	74.0-128			1.72	20
Dibromomethane	5.00	5.03	4.79	101	95.8	75.0-122			4.89	20
1,2-Dichlorobenzene	5.00	5.11	4.65	102	93.0	76.0-124			9.43	20
1,3-Dichlorobenzene	5.00	5.14	4.78	103	95.6	76.0-125			7.26	20
1,4-Dichlorobenzene	5.00	5.36	4.69	107	93.8	77.0-121			13.3	20
trans-1,4-Dichloro-2-butene	5.00	4.94	4.23	98.8	84.6	45.0-143			15.5	20
Dichlorodifluoromethane	5.00	4.95	5.33	99.0	107	43.0-156			7.39	20
1,1-Dichloroethane	5.00	5.04	4.90	101	98.0	70.0-127			2.82	20
1,2-Dichloroethane	5.00	4.92	4.82	98.4	96.4	65.0-131			2.05	20
1,1-Dichloroethene	5.00	4.87	4.98	97.4	99.6	65.0-131			2.23	20
trans-1,2-Dichloroethene	5.00	4.48	4.57	89.6	91.4	71.0-125			1.99	20
1,2-Dichloropropane	5.00	5.37	5.19	107	104	74.0-125			3.41	20
1,1-Dichloropropene	5.00	5.15	5.09	103	102	73.0-125			1.17	20
1,3-Dichloropropane	5.00	5.14	4.96	103	99.2	80.0-125			3.56	20
cis-1,3-Dichloropropene	5.00	5.18	5.14	104	103	76.0-127			0.775	20
trans-1,3-Dichloropropene	5.00	4.76	4.75	95.2	95.0	73.0-127			0.210	20
2,2-Dichloropropane	5.00	4.97	5.02	99.4	100	59.0-135			1.00	20
Di-isopropyl ether	5.00	4.88	4.65	97.6	93.0	60.0-136			4.83	20
Ethylbenzene	5.00	4.56	4.61	91.2	92.2	74.0-126			1.09	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4152074-1 11/25/24 20:45 • (LCSD) R4152074-2 11/25/24 21:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	4.04	4.69	80.8	93.8	57.0-150			14.9	20
2-Hexanone	25.0	21.4	22.7	85.6	90.8	54.0-147			5.90	20
n-Hexane	5.00	4.80	4.40	96.0	88.0	55.0-137			8.70	20
Iodomethane	25.0	21.6	19.4	86.4	77.6	74.0-134			10.7	20
Isopropylbenzene	5.00	4.46	4.73	89.2	94.6	72.0-127			5.88	20
p-Isopropyltoluene	5.00	5.20	5.04	104	101	72.0-133			3.12	20
2-Butanone (MEK)	25.0	22.9	22.2	91.6	88.8	30.0-160			3.10	24
Methylene Chloride	5.00	4.83	3.88	96.6	77.6	68.0-123		J3	21.8	20
4-Methyl-2-pentanone (MIBK)	25.0	27.2	26.3	109	105	56.0-143			3.36	20
Methyl tert-butyl ether	5.00	4.76	3.94	95.2	78.8	66.0-132			18.9	20
Naphthalene	5.00	4.36	3.86	87.2	77.2	59.0-130			12.2	20
n-Propylbenzene	5.00	5.26	5.03	105	101	74.0-126			4.47	20
Styrene	5.00	4.56	4.65	91.2	93.0	72.0-127			1.95	20
1,1,1,2-Tetrachloroethane	5.00	4.49	4.39	89.8	87.8	74.0-129			2.25	20
1,1,2,2-Tetrachloroethane	5.00	5.76	4.88	115	97.6	68.0-128			16.5	20
1,1,2-Trichlorotrifluoroethane	5.00	4.70	5.00	94.0	100	61.0-139			6.19	20
Tetrachloroethene	5.00	4.69	4.72	93.8	94.4	70.0-136			0.638	20
Toluene	5.00	4.76	4.67	95.2	93.4	75.0-121			1.91	20
1,2,3-Trichlorobenzene	5.00	4.85	4.43	97.0	88.6	59.0-139			9.05	20
1,2,4-Trichlorobenzene	5.00	4.46	4.23	89.2	84.6	62.0-137			5.29	20
1,1,1-Trichloroethane	5.00	5.05	5.05	101	101	69.0-126			0.000	20
1,1,2-Trichloroethane	5.00	5.19	4.90	104	98.0	78.0-123			5.75	20
Trichloroethene	5.00	4.79	4.92	95.8	98.4	76.0-126			2.68	20
Trichlorofluoromethane	5.00	4.99	5.27	99.8	105	61.0-142	J	J	5.46	20
1,2,3-Trichloropropane	5.00	5.87	5.02	117	100	67.0-129			15.6	20
1,2,4-Trimethylbenzene	5.00	5.23	4.93	105	98.6	70.0-126			5.91	20
1,2,3-Trimethylbenzene	5.00	5.12	4.69	102	93.8	74.0-124			8.77	20
1,3,5-Trimethylbenzene	5.00	5.17	4.75	103	95.0	73.0-127			8.47	20
Vinyl acetate	25.0	24.4	23.5	97.6	94.0	43.0-159			3.76	20
Vinyl chloride	5.00	5.73	5.97	115	119	63.0-134			4.10	20
Xylenes, Total	15.0	12.9	13.2	86.0	88.0	72.0-127			2.30	20
(S) Toluene-d8				97.8	96.9	75.0-131				
(S) 4-Bromofluorobenzene				89.2	94.3	67.0-138				
(S) 1,2-Dichloroethane-d4				105	107	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4153604-3 12/02/24 11:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
(S) Toluene-d8	103			75.0-131
(S) 4-Bromofluorobenzene	94.7			67.0-138
(S) 1,2-Dichloroethane-d4	95.0			70.0-130

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

(LCS) R4153604-1 12/02/24 09:54 • (LCSD) R4153604-2 12/02/24 10:13

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	5.00	5.06	4.91	101	98.2	73.0-125			3.01	20
(S) Toluene-d8				101	104	75.0-131				
(S) 4-Bromofluorobenzene				97.6	98.3	67.0-138				
(S) 1,2-Dichloroethane-d4				97.8	95.6	70.0-130				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

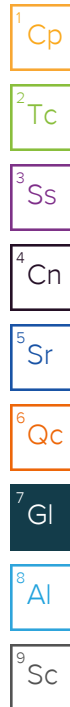
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.



ACCREDITATIONS & LOCATIONS

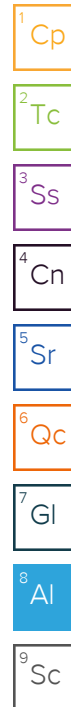
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



coder 1 of 2

Company Name/Address: PES Environmental, Inc.- WA 2101 Fourth Ave., Suite 1310 Seattle, WA 98121				Billing Information: Attn: Accounts Payable 2101 4th Avenue, Suite 1310 Seattle, WA 98121				Analysis / Container / Preservative Pres Chk L2 L2				Chain of Custody Page 1 of 1 PEOPLE ADVANCING SCIENCE MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf L180 2011		
Report to: Daniel Balbiani (ALP-Q2)				Email To: <i>Sam. gaber@nv5.com</i> <i>jessica.babb@nv5.com; natalie.wisdom@nv5.com</i>										
Project Description: American Linen Q2-2024			City/State Collected: Seattle, WA		Please Circle: PT MT CT ET									
Phone: 206-529-3980		Client Project # 443022-1413001.10.701.02		Lab Project # PESENVSWA-ALP										
Collected by (print): <i>D. Del Giudice</i>		Site/Facility ID #		P.O. #										
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #										
Immediately Packed on Ice N ☐ Y ☒		Date Results Needed		No. of Cntrs										
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time									
MW-168-111924	G	GW	-	11/19/24	1137	9	X	X	X	X	X			
MW-165-111924		GW			1040		X	X	X	X	X			
MW-167-111924		GW			1215		X	X	X	X	X			
MW-999-111924		GW			1111		X	X	X	X	X			
MW-185-111924		GW			1153		X	X	X	X	X			
MW-187-111924		GW			1326		X	X	X	X	X			
MW-186-111924		GW					X	X	X	X	X			
MW-188-111924		GW			1355		X	X	X	X	X			
MW-1000-111924		GW			1222		X	X	X	X	X			
EQ-111924		GW			1411		X	X	X	X	X			

* Matrix:

SS - Soil AIR - Air F - Filter

GW - Groundwater B - Bioassay

WW - WasteWater

DW - Drinking Water

OT - Other

pH _____ Temp _____

Flow _____ Other _____

Remarks: **Tier 2 lab QA/QC (batch QC OK)**

PH - 108DH0941
TRC - 3327A333

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier

Tracking # **4212 6472 7608**

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes ☒ No ☐	Sample Receipt Checklist COC Seal Present/Intact: ☒ NP COC Signed/Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Sufficient volume sent: ☒ Y ☐ N If Applicable VOA Zero Headspace: ☒ Y ☐ N Preservation Correct/Checked: ☒ Y ☐ N RAD Screen <0.5 mR/hr: ☒ Y ☐ N
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK

PESENVSWA L1801569 / L1802011 / L1802018

R2/R3/R4/RX/EX

Please add CHLORIDE, NITRATE, and ALK to the following SDGs/samples:

- L1801569-01 thru -07
- L1802011-01 thru -05
- L1802018-01 thru -05

Please use the revised attached COC's

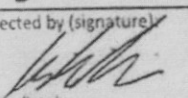
Time estimate: oh

Time spent: oh

Members

- SG Shane Gambill
- JD Jordan Dozier

cooler 1 of 2

Company Name/Address: PES Environmental, Inc. - WA 2101 Fourth Ave., Suite 1310 Seattle, WA 98121		Billing Information: Attn: Accounts Payable 2101 4th Avenue, Suite 1310 Seattle, WA 98121		Chain of Custody Page <u>1</u> of <u>1</u>  PEOPLE ADVANCING SCIENCE MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/tubb/pas-standard-terms.pdf					
Report to: Daniel Balbiani (ALP-Q2)		Email To: <u>Sam. Glibert@nv5.com</u> <u>Jessica.Balbian@nv5.com; nathalie.wisdom@nv5.com</u>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">Analysis / Container / Preservative</th> </tr> <tr> <td>Pres Chk</td> <td> L2 L2 </td> </tr> </table>		Analysis / Container / Preservative		Pres Chk	L2 L2
Analysis / Container / Preservative									
Pres Chk	L2 L2								
Project Description: American Linen <u>Q3-2024</u>		City/State Collected: <u>Seattle WA</u>							
Client Project # 443022-1413001.10.701.02		Lab Project # PESENVSWA-ALP							
Phone: 206-529-3980		Site/Facility ID #		P.O. #					
Collected by (print): <u>D. Del Guadia</u>		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #					
Collected by (signature): 		Date Results Needed		No. of Cntrs					
Immediately Packed on Ice N ☐ Y ☒		Sample ID		Comp/Grab					
Matrix *		Depth		Date					
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PES Environmental, Inc.- WA

Sample Delivery Group: L1802018
Samples Received: 11/20/2024
Project Number: 443022-1413001.10
Description: American Linen Q2 2024

Report To: Craig Peterson
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



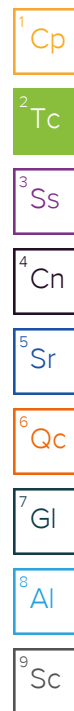
Jordan Dozier
Project Manager

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

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

MW-187-111924 L1802018-01 GW

Collected by
Collected date/time
Received date/time

11/19/24 13:26 11/20/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2407607	1	11/24/24 10:33	11/24/24 10:33	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2405411	1	11/22/24 21:22	11/22/24 21:22	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2409237	1	11/28/24 16:35	11/28/24 16:35	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2407799	1	11/29/24 12:30	12/04/24 00:08	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406175	1	11/22/24 12:28	11/22/24 12:28	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406886	10	11/23/24 11:34	11/23/24 11:34	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/26/24 04:07	11/26/24 04:07	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	1	12/02/24 17:13	12/02/24 17:13	JHH	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

MW-186-111924 L1802018-02 GW

Collected by
Collected date/time
Received date/time

11/19/24 14:50 11/20/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2407607	1	11/24/24 10:37	11/24/24 10:37	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2405411	1	11/22/24 21:35	11/22/24 21:35	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2405411	5	11/26/24 19:01	11/26/24 19:01	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2409237	1	11/28/24 16:52	11/28/24 16:52	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2407799	1	11/29/24 12:30	12/04/24 00:21	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406175	1	11/22/24 12:35	11/22/24 12:35	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406886	10	11/23/24 11:42	11/23/24 11:42	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/26/24 04:26	11/26/24 04:26	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	1	12/02/24 17:32	12/02/24 17:32	JHH	Mt. Juliet, TN

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-188-111924 L1802018-03 GW

Collected by
Collected date/time
Received date/time

11/19/24 13:55 11/20/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2407607	1	11/24/24 10:42	11/24/24 10:42	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2405411	1	11/22/24 22:16	11/22/24 22:16	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2409237	1	11/28/24 17:38	11/28/24 17:38	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2407799	1	11/29/24 12:30	12/04/24 00:24	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406175	1	11/22/24 12:49	11/22/24 12:49	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/26/24 04:45	11/26/24 04:45	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	1	12/02/24 17:51	12/02/24 17:51	JHH	Mt. Juliet, TN

MW-1000-111924 L1802018-04 GW

Collected by
Collected date/time
Received date/time

11/19/24 12:22 11/20/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2407607	1	11/24/24 10:47	11/24/24 10:47	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2405411	1	11/22/24 22:29	11/22/24 22:29	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2409237	1	11/28/24 18:26	11/28/24 18:26	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2407799	1	11/29/24 12:30	12/04/24 00:27	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406175	1	11/22/24 12:52	11/22/24 12:52	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/26/24 05:05	11/26/24 05:05	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	1	12/02/24 18:10	12/02/24 18:10	JHH	Mt. Juliet, TN

SAMPLE SUMMARY

EQ-111924 L1802018-05 GW

Collected by

Collected date/time

Received date/time

11/19/24 14:11

11/20/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2407607	1	11/24/24 10:53	11/24/24 10:53	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2405411	1	11/22/24 22:43	11/22/24 22:43	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2409237	1	11/28/24 19:01	11/28/24 19:01	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2407799	1	11/29/24 12:30	12/04/24 00:31	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2406175	1	11/22/24 13:00	11/22/24 13:00	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/25/24 23:57	11/25/24 23:57	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	1	12/02/24 13:23	12/02/24 13:23	JHH	Mt. Juliet, TN

Collected by

Collected date/time

Received date/time

11/19/24 00:00

11/20/24 09:00

TB-111924 L1802018-06 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408490	1	11/25/24 23:38	11/25/24 23:38	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410807	1	12/02/24 12:07	12/02/24 12:07	JHH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

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



Jordan Dozier
Project Manager



Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	857000		4750	20000	1	11/24/2024 10:33	WG2407607

Sample Narrative:

L1802018-01 WG2407607: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	94100		547	1000	1	11/22/2024 21:22	WG2405411
Nitrate as (N)	U	T8	88.4	100	1	11/22/2024 21:22	WG2405411
Sulfate	1280	J	637	5000	1	11/22/2024 21:22	WG2405411

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	8380		495	1000	1	11/28/2024 16:35	WG2409237

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	4100		22.6	100	1	12/04/2024 00:08	WG2407799
Manganese	1120		0.700	5.00	1	12/04/2024 00:08	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	22300		2.87	6.78	10	11/23/2024 11:34	WG2406886
Ethane	442		0.296	1.29	1	11/22/2024 12:28	WG2406175
Ethene	U		0.422	1.27	1	11/22/2024 12:28	WG2406175

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3 J3	0.548	1.00	1	11/26/2024 04:07	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 04:07	WG2408490
Benzene	U		0.0160	0.0400	1	11/26/2024 04:07	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 04:07	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 04:07	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 04:07	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 04:07	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 04:07	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 04:07	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 04:07	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 04:07	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 04:07	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 04:07	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 04:07	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 04:07	WG2408490
Chloroethane	U		0.0432	0.200	1	11/26/2024 04:07	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 04:07	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 04:07	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 04:07	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 04:07	WG2408490

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 04:07	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 04:07	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 04:07	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 04:07	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 04:07	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 04:07	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 04:07	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 04:07	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 04:07	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 04:07	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 04:07	WG2408490
cis-1,2-Dichloroethene	0.0530	J1	0.0276	0.100	1	12/02/2024 17:13	WG2410807
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/26/2024 04:07	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 04:07	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 04:07	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 04:07	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 04:07	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 04:07	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 04:07	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 04:07	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 04:07	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 04:07	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 04:07	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 04:07	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 04:07	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 04:07	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 04:07	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 04:07	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/26/2024 04:07	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 04:07	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 04:07	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 04:07	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 04:07	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 04:07	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 04:07	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 04:07	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 04:07	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 04:07	WG2408490
Toluene	U		0.0500	0.200	1	11/26/2024 04:07	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 04:07	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 04:07	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 04:07	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 04:07	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 04:07	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 04:07	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 04:07	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 04:07	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 04:07	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 04:07	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 04:07	WG2408490
Vinyl chloride	U		0.0273	0.100	1	12/02/2024 17:13	WG2410807
Xylenes, Total	U		0.191	0.260	1	11/26/2024 04:07	WG2408490
(S) Toluene-d8	98.6			75.0-131		11/26/2024 04:07	WG2408490
(S) Toluene-d8	103			75.0-131		12/02/2024 17:13	WG2410807
(S) 4-Bromofluorobenzene	88.6			67.0-138		11/26/2024 04:07	WG2408490
(S) 4-Bromofluorobenzene	94.8			67.0-138		12/02/2024 17:13	WG2410807

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	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/26/2024 04:07	WG2408490
(S) 1,2-Dichloroethane-d4	99.7			70.0-130		12/02/2024 17:13	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	1030000		4750	20000	1	11/24/2024 10:37	WG2407607

Sample Narrative:
L1802018-02 WG2407607: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	99700		2740	5000	5	11/26/2024 19:01	WG2405411
Nitrate as (N)	U	T8	88.4	100	1	11/22/2024 21:35	WG2405411
Sulfate	U		637	5000	1	11/22/2024 21:35	WG2405411

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	13300		495	1000	1	11/28/2024 16:52	WG2409237

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	7720		22.6	100	1	12/04/2024 00:21	WG2407799
Manganese	1910		0.700	5.00	1	12/04/2024 00:21	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	21900		2.87	6.78	10	11/23/2024 11:42	WG2406886
Ethane	228		0.296	1.29	1	11/22/2024 12:35	WG2406175
Ethene	11.0		0.422	1.27	1	11/22/2024 12:35	WG2406175

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3 J3	0.548	1.00	1	11/26/2024 04:26	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 04:26	WG2408490
Benzene	0.0450		0.0160	0.0400	1	11/26/2024 04:26	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 04:26	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 04:26	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 04:26	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 04:26	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 04:26	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 04:26	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 04:26	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 04:26	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 04:26	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 04:26	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 04:26	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 04:26	WG2408490
Chloroethane	U		0.0432	0.200	1	11/26/2024 04:26	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 04:26	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 04:26	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 04:26	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 04:26	WG2408490

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 04:26	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 04:26	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 04:26	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 04:26	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 04:26	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 04:26	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 04:26	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 04:26	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 04:26	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 04:26	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 04:26	WG2408490
cis-1,2-Dichloroethene	0.153		0.0276	0.100	1	12/02/2024 17:32	WG2410807
trans-1,2-Dichloroethene	0.651		0.0572	0.200	1	11/26/2024 04:26	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 04:26	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 04:26	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 04:26	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 04:26	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 04:26	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 04:26	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 04:26	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 04:26	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 04:26	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 04:26	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 04:26	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 04:26	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 04:26	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 04:26	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 04:26	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/26/2024 04:26	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 04:26	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 04:26	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 04:26	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 04:26	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 04:26	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 04:26	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 04:26	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 04:26	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 04:26	WG2408490
Toluene	0.0750	J1	0.0500	0.200	1	11/26/2024 04:26	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 04:26	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 04:26	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 04:26	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 04:26	WG2408490
Trichloroethene	0.0350	J1	0.0160	0.0400	1	11/26/2024 04:26	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 04:26	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 04:26	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 04:26	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 04:26	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 04:26	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 04:26	WG2408490
Vinyl chloride	0.350		0.0273	0.100	1	12/02/2024 17:32	WG2410807
Xylenes, Total	U		0.191	0.260	1	11/26/2024 04:26	WG2408490
(S) Toluene-d8	97.9			75.0-131		11/26/2024 04:26	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 17:32	WG2410807
(S) 4-Bromofluorobenzene	89.7			67.0-138		11/26/2024 04:26	WG2408490
(S) 4-Bromofluorobenzene	94.1			67.0-138		12/02/2024 17:32	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/26/2024 04:26	WG2408490
(S) 1,2-Dichloroethane-d4	98.9			70.0-130		12/02/2024 17:32	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	270000		4750	20000	1	11/24/2024 10:42	WG2407607

Sample Narrative:
L1802018-03 WG2407607: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	42900		547	1000	1	11/22/2024 22:16	WG2405411
Nitrate as (N)	U	T8	88.4	100	1	11/22/2024 22:16	WG2405411
Sulfate	23300		637	5000	1	11/22/2024 22:16	WG2405411

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1910		495	1000	1	11/28/2024 17:38	WG2409237

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	1750		22.6	100	1	12/04/2024 00:24	WG2407799
Manganese	598		0.700	5.00	1	12/04/2024 00:24	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	366		0.287	0.678	1	11/22/2024 12:49	WG2406175
Ethane	11.1		0.296	1.29	1	11/22/2024 12:49	WG2406175
Ethene	U		0.422	1.27	1	11/22/2024 12:49	WG2406175

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3 J3	0.548	1.00	1	11/26/2024 04:45	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 04:45	WG2408490
Benzene	U		0.0160	0.0400	1	11/26/2024 04:45	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 04:45	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 04:45	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 04:45	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 04:45	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 04:45	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 04:45	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 04:45	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 04:45	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 04:45	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 04:45	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 04:45	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 04:45	WG2408490
Chloroethane	U		0.0432	0.200	1	11/26/2024 04:45	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 04:45	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 04:45	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 04:45	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 04:45	WG2408490

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 04:45	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 04:45	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 04:45	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 04:45	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 04:45	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 04:45	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 04:45	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 04:45	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 04:45	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 04:45	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 04:45	WG2408490
cis-1,2-Dichloroethene	0.0990	1J	0.0276	0.100	1	12/02/2024 17:51	WG2410807
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/26/2024 04:45	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 04:45	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 04:45	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 04:45	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 04:45	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 04:45	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 04:45	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 04:45	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 04:45	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 04:45	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 04:45	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 04:45	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 04:45	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 04:45	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 04:45	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 04:45	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/26/2024 04:45	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 04:45	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 04:45	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 04:45	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 04:45	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 04:45	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 04:45	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 04:45	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 04:45	WG2408490
Tetrachloroethene	0.0430	1J	0.0280	0.100	1	11/26/2024 04:45	WG2408490
Toluene	U		0.0500	0.200	1	11/26/2024 04:45	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 04:45	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 04:45	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 04:45	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 04:45	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 04:45	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 04:45	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 04:45	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 04:45	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 04:45	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 04:45	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 04:45	WG2408490
Vinyl chloride	0.172		0.0273	0.100	1	12/02/2024 17:51	WG2410807
Xylenes, Total	U		0.191	0.260	1	11/26/2024 04:45	WG2408490
(S) Toluene-d8	98.7			75.0-131		11/26/2024 04:45	WG2408490
(S) Toluene-d8	103			75.0-131		12/02/2024 17:51	WG2410807
(S) 4-Bromofluorobenzene	89.6			67.0-138		11/26/2024 04:45	WG2408490
(S) 4-Bromofluorobenzene	94.6			67.0-138		12/02/2024 17:51	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/26/2024 04:45	WG2408490
(S) 1,2-Dichloroethane-d4	101			70.0-130		12/02/2024 17:51	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	269000		4750	20000	1	11/24/2024 10:47	WG2407607

Sample Narrative:

L1802018-04 WG2407607: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	41900		547	1000	1	11/22/2024 22:29	WG2405411
Nitrate as (N)	U	T8	88.4	100	1	11/22/2024 22:29	WG2405411
Sulfate	22700		637	5000	1	11/22/2024 22:29	WG2405411

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2010		495	1000	1	11/28/2024 18:26	WG2409237

Metals (ICPMS) by Method 6020B

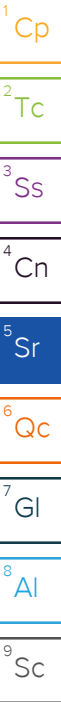
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	1720		22.6	100	1	12/04/2024 00:27	WG2407799
Manganese	599		0.700	5.00	1	12/04/2024 00:27	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	319		0.287	0.678	1	11/22/2024 12:52	WG2406175
Ethane	9.37		0.296	1.29	1	11/22/2024 12:52	WG2406175
Ethene	U		0.422	1.27	1	11/22/2024 12:52	WG2406175

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	C3 J3	0.548	1.00	1	11/26/2024 05:05	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 05:05	WG2408490
Benzene	U		0.0160	0.0400	1	11/26/2024 05:05	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 05:05	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 05:05	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 05:05	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 05:05	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 05:05	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 05:05	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 05:05	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 05:05	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 05:05	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 05:05	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 05:05	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 05:05	WG2408490
Chloroethane	U		0.0432	0.200	1	11/26/2024 05:05	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 05:05	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 05:05	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 05:05	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 05:05	WG2408490



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 05:05	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 05:05	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 05:05	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 05:05	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 05:05	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 05:05	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 05:05	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 05:05	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 05:05	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 05:05	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 05:05	WG2408490
cis-1,2-Dichloroethene	0.0830	J1	0.0276	0.100	1	12/02/2024 18:10	WG2410807
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/26/2024 05:05	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 05:05	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 05:05	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 05:05	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 05:05	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 05:05	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 05:05	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 05:05	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 05:05	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 05:05	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 05:05	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 05:05	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 05:05	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 05:05	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 05:05	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 05:05	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/26/2024 05:05	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 05:05	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 05:05	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 05:05	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 05:05	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 05:05	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 05:05	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 05:05	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 05:05	WG2408490
Tetrachloroethene	0.183		0.0280	0.100	1	11/26/2024 05:05	WG2408490
Toluene	U		0.0500	0.200	1	11/26/2024 05:05	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 05:05	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 05:05	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 05:05	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 05:05	WG2408490
Trichloroethene	0.0740		0.0160	0.0400	1	11/26/2024 05:05	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 05:05	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 05:05	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 05:05	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 05:05	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 05:05	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 05:05	WG2408490
Vinyl chloride	U		0.0273	0.100	1	12/02/2024 18:10	WG2410807
Xylenes, Total	U		0.191	0.260	1	11/26/2024 05:05	WG2408490
(S) Toluene-d8	98.0			75.0-131		11/26/2024 05:05	WG2408490
(S) Toluene-d8	103			75.0-131		12/02/2024 18:10	WG2410807
(S) 4-Bromofluorobenzene	87.4			67.0-138		11/26/2024 05:05	WG2408490
(S) 4-Bromofluorobenzene	94.8			67.0-138		12/02/2024 18:10	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/26/2024 05:05	WG2408490
(S) 1,2-Dichloroethane-d4	98.7			70.0-130		12/02/2024 18:10	WG2410807

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	U		4750	20000	1	11/24/2024 10:53	WG2407607

Sample Narrative:

L1802018-05 WG2407607: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	U		547	1000	1	11/22/2024 22:43	WG2405411
Nitrate as (N)	U	T8	88.4	100	1	11/22/2024 22:43	WG2405411
Sulfate	U		637	5000	1	11/22/2024 22:43	WG2405411

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	U		495	1000	1	11/28/2024 19:01	WG2409237

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	U		22.6	100	1	12/04/2024 00:31	WG2407799
Manganese	U		0.700	5.00	1	12/04/2024 00:31	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	11/22/2024 13:00	WG2406175
Ethane	U		0.296	1.29	1	11/22/2024 13:00	WG2406175
Ethene	U		0.422	1.27	1	11/22/2024 13:00	WG2406175

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	C3 J3	0.548	1.00	1	11/25/2024 23:57	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/25/2024 23:57	WG2408490
Benzene	U		0.0160	0.0400	1	11/25/2024 23:57	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/25/2024 23:57	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/25/2024 23:57	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/25/2024 23:57	WG2408490
Bromoform	U		0.239	1.00	1	11/25/2024 23:57	WG2408490
Bromomethane	U		0.148	0.500	1	11/25/2024 23:57	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/25/2024 23:57	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/25/2024 23:57	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/25/2024 23:57	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/25/2024 23:57	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/25/2024 23:57	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/25/2024 23:57	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/25/2024 23:57	WG2408490
Chloroethane	U		0.0432	0.200	1	11/25/2024 23:57	WG2408490
Chloroform	1.08		0.0166	0.100	1	11/25/2024 23:57	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/25/2024 23:57	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/25/2024 23:57	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/25/2024 23:57	WG2408490

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/25/2024 23:57	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/25/2024 23:57	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/25/2024 23:57	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/25/2024 23:57	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/25/2024 23:57	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/25/2024 23:57	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/25/2024 23:57	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/25/2024 23:57	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/25/2024 23:57	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/25/2024 23:57	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/25/2024 23:57	WG2408490
cis-1,2-Dichloroethene	U		0.0276	0.100	1	12/02/2024 13:23	WG2410807
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/25/2024 23:57	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/25/2024 23:57	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/25/2024 23:57	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/25/2024 23:57	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/25/2024 23:57	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/25/2024 23:57	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/25/2024 23:57	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/25/2024 23:57	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/25/2024 23:57	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/25/2024 23:57	WG2408490
2-Hexanone	U		0.400	1.00	1	11/25/2024 23:57	WG2408490
n-Hexane	U		0.0424	0.200	1	11/25/2024 23:57	WG2408490
Iodomethane	U		0.242	0.500	1	11/25/2024 23:57	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/25/2024 23:57	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/25/2024 23:57	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/25/2024 23:57	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/25/2024 23:57	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/25/2024 23:57	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/25/2024 23:57	WG2408490
Naphthalene	U		0.124	0.500	1	11/25/2024 23:57	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/25/2024 23:57	WG2408490
Styrene	U		0.109	0.500	1	11/25/2024 23:57	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/25/2024 23:57	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/25/2024 23:57	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/25/2024 23:57	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/25/2024 23:57	WG2408490
Toluene	U		0.0500	0.200	1	11/25/2024 23:57	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/25/2024 23:57	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/25/2024 23:57	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/25/2024 23:57	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/25/2024 23:57	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/25/2024 23:57	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/25/2024 23:57	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/25/2024 23:57	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/25/2024 23:57	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/25/2024 23:57	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/25/2024 23:57	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/25/2024 23:57	WG2408490
Vinyl chloride	U		0.0273	0.100	1	12/02/2024 13:23	WG2410807
Xylenes, Total	U		0.191	0.260	1	11/25/2024 23:57	WG2408490
(S) Toluene-d8	101			75.0-131		11/25/2024 23:57	WG2408490
(S) Toluene-d8	103			75.0-131		12/02/2024 13:23	WG2410807
(S) 4-Bromofluorobenzene	90.7			67.0-138		11/25/2024 23:57	WG2408490
(S) 4-Bromofluorobenzene	95.1			67.0-138		12/02/2024 13:23	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/25/2024 23:57	WG2408490
(S) 1,2-Dichloroethane-d4	96.4			70.0-130		12/02/2024 13:23	WG2410807

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

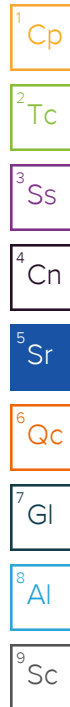
⁷ Gl

⁸ Al

⁹ Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	16.4	C3 J3	0.548	1.00	1	11/25/2024 23:38	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/25/2024 23:38	WG2408490
Benzene	U		0.0160	0.0400	1	11/25/2024 23:38	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/25/2024 23:38	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/25/2024 23:38	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/25/2024 23:38	WG2408490
Bromoform	U		0.239	1.00	1	11/25/2024 23:38	WG2408490
Bromomethane	U		0.148	0.500	1	11/25/2024 23:38	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/25/2024 23:38	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/25/2024 23:38	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/25/2024 23:38	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/25/2024 23:38	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/25/2024 23:38	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/25/2024 23:38	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/25/2024 23:38	WG2408490
Chloroethane	U		0.0432	0.200	1	11/25/2024 23:38	WG2408490
Chloroform	U		0.0166	0.100	1	11/25/2024 23:38	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/25/2024 23:38	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/25/2024 23:38	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/25/2024 23:38	WG2408490
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/25/2024 23:38	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/25/2024 23:38	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/25/2024 23:38	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/25/2024 23:38	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/25/2024 23:38	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/25/2024 23:38	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/25/2024 23:38	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/25/2024 23:38	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/25/2024 23:38	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/25/2024 23:38	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/25/2024 23:38	WG2408490
cis-1,2-Dichloroethene	U		0.0276	0.100	1	12/02/2024 12:07	WG2410807
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/25/2024 23:38	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/25/2024 23:38	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/25/2024 23:38	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/25/2024 23:38	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/25/2024 23:38	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/25/2024 23:38	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/25/2024 23:38	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/25/2024 23:38	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/25/2024 23:38	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/25/2024 23:38	WG2408490
2-Hexanone	U		0.400	1.00	1	11/25/2024 23:38	WG2408490
n-Hexane	U		0.0424	0.200	1	11/25/2024 23:38	WG2408490
Iodomethane	U		0.242	0.500	1	11/25/2024 23:38	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/25/2024 23:38	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/25/2024 23:38	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/25/2024 23:38	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/25/2024 23:38	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/25/2024 23:38	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/25/2024 23:38	WG2408490
Naphthalene	U		0.124	0.500	1	11/25/2024 23:38	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/25/2024 23:38	WG2408490
Styrene	U		0.109	0.500	1	11/25/2024 23:38	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/25/2024 23:38	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/25/2024 23:38	WG2408490



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/25/2024 23:38	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/25/2024 23:38	WG2408490
Toluene	0.0900	J	0.0500	0.200	1	11/25/2024 23:38	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/25/2024 23:38	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/25/2024 23:38	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/25/2024 23:38	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/25/2024 23:38	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/25/2024 23:38	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/25/2024 23:38	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/25/2024 23:38	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/25/2024 23:38	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/25/2024 23:38	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/25/2024 23:38	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/25/2024 23:38	WG2408490
Vinyl chloride	U		0.0273	0.100	1	12/02/2024 12:07	WG2410807
Xylenes, Total	U		0.191	0.260	1	11/25/2024 23:38	WG2408490
(S) Toluene-d8	99.4			75.0-131		11/25/2024 23:38	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 12:07	WG2410807
(S) 4-Bromofluorobenzene	88.4			67.0-138		11/25/2024 23:38	WG2408490
(S) 4-Bromofluorobenzene	97.4			67.0-138		12/02/2024 12:07	WG2410807
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/25/2024 23:38	WG2408490
(S) 1,2-Dichloroethane-d4	96.4			70.0-130		12/02/2024 12:07	WG2410807

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4149999-2 11/24/24 09:13

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Alkalinity	U		4750	20000

Sample Narrative:
BLANK: Endpoint pH 4.5

L1801793-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1801793-01 11/24/24 09:31 • (DUP) R4149999-3 11/24/24 09:36

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	471000	475000	1	0.974		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

L1802370-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1802370-01 11/24/24 11:19 • (DUP) R4149999-4 11/24/24 11:24

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	431000	431000	1	0.0280		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4149999-1 11/24/24 09:08

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	101000	101	90.0-110	

Sample Narrative:
LCS: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4150435-1 11/22/24 17:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Chloride	U		547	1000
Nitrate as (N)	U		88.4	100
Sulfate	U		637	5000

L1801789-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1801789-02 11/22/24 18:37 • (DUP) R4150435-3 11/22/24 18:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	37200	36700	1	1.45		15
Nitrate as (N)	U	U	1	0.000		15
Sulfate	195000	193000	1	1.08	E	15

L1801789-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1801789-03 11/22/24 19:31 • (DUP) R4150435-6 11/22/24 19:48

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	36500	36400	1	0.265		15
Nitrate as (N)	U	U	1	0.000		15
Sulfate	197000	194000	1	1.48	E	15

Laboratory Control Sample (LCS)

(LCS) R4150435-2 11/22/24 17:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	39000	97.5	80.0-120	
Nitrate as (N)	8000	8160	102	80.0-120	
Sulfate	40000	39200	98.0	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1801789-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801789-02 11/22/24 18:37 • (MS) R4150435-4 11/22/24 19:04 • (MSD) R4150435-5 11/22/24 19:18

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	37200	69300	68800	80.2	79.0	1	80.0-120		J6	0.693	15
Nitrate as (N)	8000	U	8110	8160	101	102	1	80.0-120			0.613	15
Sulfate	40000	195000	191000	185000	0.000	0.000	1	80.0-120	E V	E V	2.81	15

L1801789-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801789-03 11/22/24 19:31 • (MS) R4150435-7 11/22/24 20:01 • (MSD) R4150435-8 11/22/24 20:14

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	36500	68400	68800	79.9	80.7	1	80.0-120	J6		0.499	15
Nitrate as (N)	8000	U	7880	7930	98.5	99.1	1	80.0-120			0.645	15
Sulfate	40000	197000	192000	187000	0.000	0.000	1	80.0-120	E V	E V	2.78	15

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4151781-2 11/28/24 10:58

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	U		495	1000

L1801964-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1801964-01 11/28/24 14:40 • (DUP) R4151781-5 11/28/24 14:54

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	2370	2130	1	10.8		20

L1802018-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1802018-04 11/28/24 18:26 • (DUP) R4151781-8 11/28/24 18:40

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	2010	1890	1	6.22		20

Laboratory Control Sample (LCS)

(LCS) R4151781-1 11/28/24 10:46

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	25000	24200	96.9	85.0-115	

L1801954-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801954-11 11/28/24 13:02 • (MS) R4151781-3 11/28/24 13:50 • (MSD) R4151781-4 11/28/24 14:09

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	5690	30300	31600	98.5	103	1	85.0-115			3.98	20

L1802018-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1802018-03 11/28/24 17:38 • (MS) R4151781-6 11/28/24 17:55 • (MSD) R4151781-7 11/28/24 18:12

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	1910	26400	26400	98.0	98.1	1	85.0-115			0.151	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4153207-1 12/03/24 22:45

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Iron	U		22.6	100
Manganese	U		0.700	5.00

Laboratory Control Sample (LCS)

(LCS) R4153207-2 12/03/24 22:49

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Iron	1000	945	94.5	80.0-120	
Manganese	50.0	48.0	96.1	80.0-120	

L1801919-33 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801919-33 12/03/24 22:58 • (MS) R4153207-4 12/03/24 23:05 • (MSD) R4153207-5 12/03/24 23:08

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	1000	6730	7690	7700	96.0	97.1	1	75.0-125			0.136	20
Manganese	50.0	53.2	100	99.8	94.4	93.2	1	75.0-125			0.573	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4149529-2 11/22/24 09:39

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

L1801219-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1801219-01 11/22/24 09:50 • (DUP) R4149529-3 11/22/24 12:12

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

L1802025-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1802025-01 11/22/24 14:04 • (DUP) R4149529-4 11/22/24 14:25

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

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

(LCS) R4149529-1 11/22/24 09:20 • (LCSD) R4149529-5 11/22/24 14:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methane	67.8	62.7	66.0	92.5	97.3	85.0-115			5.13	20
Ethane	129	113	123	87.6	95.3	85.0-115			8.47	20
Ethene	127	113	124	89.0	97.6	85.0-115			9.28	20

1
Cp

2
Tc

3
Ss

4
Cn

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Sr

6
Qc

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Gl

8
Al

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Sc

Method Blank (MB)

(MB) R4149831-2 11/23/24 08:32

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

L1802011-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1802011-01 11/23/24 10:48 • (DUP) R4149831-3 11/23/24 11:39

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	16800	16600	10	1.20		20

L1802018-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1802018-02 11/23/24 11:42 • (DUP) R4149831-4 11/23/24 11:48

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	21900	21800	10	0.458		20

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

(LCS) R4149831-1 11/23/24 08:27 • (LCSD) R4149831-5 11/23/24 12:00

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	75.5	75.3	111	111	85.0-115			0.265	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4152074-3 11/25/24 22:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromochloromethane	U		0.0452	0.200
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon disulfide	U		0.162	0.500
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.200
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4152074-3 11/25/24 22:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
2-Hexanone	U		0.400	1.00
n-Hexane	U		0.0424	0.200
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl acetate	U		0.141	0.500
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	100			75.0-131
(S) 4-Bromofluorobenzene	88.3			67.0-138
(S) 1,2-Dichloroethane-d4	108			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4152074-1 11/25/24 20:45 • (LCSD) R4152074-2 11/25/24 21:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	15.7	22.4	62.8	89.6	10.0-160		J3	35.2	31
Acrylonitrile	25.0	30.0	23.6	120	94.4	45.0-153		J3	23.9	22
Benzene	5.00	4.76	4.74	95.2	94.8	70.0-123			0.421	20
Bromobenzene	5.00	5.48	4.86	110	97.2	73.0-121			12.0	20
Bromochloromethane	5.00	4.94	4.90	98.8	98.0	77.0-128			0.813	20
Bromodichloromethane	5.00	5.19	5.04	104	101	73.0-121			2.93	20
Bromoform	5.00	4.01	4.03	80.2	80.6	64.0-132			0.498	20
Bromomethane	5.00	4.46	5.22	89.2	104	56.0-147			15.7	20
n-Butylbenzene	5.00	5.02	5.03	100	101	68.0-135			0.199	20
sec-Butylbenzene	5.00	5.21	5.00	104	100	74.0-130			4.11	20
tert-Butylbenzene	5.00	5.18	4.84	104	96.8	75.0-127			6.79	20
Carbon disulfide	5.00	4.29	4.31	85.8	86.2	56.0-133			0.465	20
Carbon tetrachloride	5.00	5.06	5.13	101	103	66.0-128			1.37	20
Chlorobenzene	5.00	4.58	4.53	91.6	90.6	76.0-128			1.10	20
Chlorodibromomethane	5.00	4.58	4.50	91.6	90.0	74.0-127			1.76	20
Chloroethane	5.00	5.56	5.91	111	118	61.0-134			6.10	20
Chloroform	5.00	4.74	4.69	94.8	93.8	72.0-123			1.06	20
Chloromethane	5.00	7.02	7.40	140	148	51.0-138	J4	J4	5.27	20
2-Chlorotoluene	5.00	5.48	4.88	110	97.6	75.0-124			11.6	20
4-Chlorotoluene	5.00	5.43	4.95	109	99.0	75.0-124			9.25	20
1,2-Dibromo-3-Chloropropane	5.00	4.65	4.01	93.0	80.2	59.0-130			14.8	20
1,2-Dibromoethane	5.00	4.68	4.60	93.6	92.0	74.0-128			1.72	20
Dibromomethane	5.00	5.03	4.79	101	95.8	75.0-122			4.89	20
1,2-Dichlorobenzene	5.00	5.11	4.65	102	93.0	76.0-124			9.43	20
1,3-Dichlorobenzene	5.00	5.14	4.78	103	95.6	76.0-125			7.26	20
1,4-Dichlorobenzene	5.00	5.36	4.69	107	93.8	77.0-121			13.3	20
trans-1,4-Dichloro-2-butene	5.00	4.94	4.23	98.8	84.6	45.0-143			15.5	20
Dichlorodifluoromethane	5.00	4.95	5.33	99.0	107	43.0-156			7.39	20
1,1-Dichloroethane	5.00	5.04	4.90	101	98.0	70.0-127			2.82	20
1,2-Dichloroethane	5.00	4.92	4.82	98.4	96.4	65.0-131			2.05	20
1,1-Dichloroethene	5.00	4.87	4.98	97.4	99.6	65.0-131			2.23	20
trans-1,2-Dichloroethene	5.00	4.48	4.57	89.6	91.4	71.0-125			1.99	20
1,2-Dichloropropane	5.00	5.37	5.19	107	104	74.0-125			3.41	20
1,1-Dichloropropene	5.00	5.15	5.09	103	102	73.0-125			1.17	20
1,3-Dichloropropane	5.00	5.14	4.96	103	99.2	80.0-125			3.56	20
cis-1,3-Dichloropropene	5.00	5.18	5.14	104	103	76.0-127			0.775	20
trans-1,3-Dichloropropene	5.00	4.76	4.75	95.2	95.0	73.0-127			0.210	20
2,2-Dichloropropane	5.00	4.97	5.02	99.4	100	59.0-135			1.00	20
Di-isopropyl ether	5.00	4.88	4.65	97.6	93.0	60.0-136			4.83	20
Ethylbenzene	5.00	4.56	4.61	91.2	92.2	74.0-126			1.09	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4152074-1 11/25/24 20:45 • (LCSD) R4152074-2 11/25/24 21:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	4.04	4.69	80.8	93.8	57.0-150			14.9	20
2-Hexanone	25.0	21.4	22.7	85.6	90.8	54.0-147			5.90	20
n-Hexane	5.00	4.80	4.40	96.0	88.0	55.0-137			8.70	20
Iodomethane	25.0	21.6	19.4	86.4	77.6	74.0-134			10.7	20
Isopropylbenzene	5.00	4.46	4.73	89.2	94.6	72.0-127			5.88	20
p-Isopropyltoluene	5.00	5.20	5.04	104	101	72.0-133			3.12	20
2-Butanone (MEK)	25.0	22.9	22.2	91.6	88.8	30.0-160			3.10	24
Methylene Chloride	5.00	4.83	3.88	96.6	77.6	68.0-123		J3	21.8	20
4-Methyl-2-pentanone (MIBK)	25.0	27.2	26.3	109	105	56.0-143			3.36	20
Methyl tert-butyl ether	5.00	4.76	3.94	95.2	78.8	66.0-132			18.9	20
Naphthalene	5.00	4.36	3.86	87.2	77.2	59.0-130			12.2	20
n-Propylbenzene	5.00	5.26	5.03	105	101	74.0-126			4.47	20
Styrene	5.00	4.56	4.65	91.2	93.0	72.0-127			1.95	20
1,1,1,2-Tetrachloroethane	5.00	4.49	4.39	89.8	87.8	74.0-129			2.25	20
1,1,2,2-Tetrachloroethane	5.00	5.76	4.88	115	97.6	68.0-128			16.5	20
1,1,2-Trichlorotrifluoroethane	5.00	4.70	5.00	94.0	100	61.0-139			6.19	20
Tetrachloroethene	5.00	4.69	4.72	93.8	94.4	70.0-136			0.638	20
Toluene	5.00	4.76	4.67	95.2	93.4	75.0-121			1.91	20
1,2,3-Trichlorobenzene	5.00	4.85	4.43	97.0	88.6	59.0-139			9.05	20
1,2,4-Trichlorobenzene	5.00	4.46	4.23	89.2	84.6	62.0-137			5.29	20
1,1,1-Trichloroethane	5.00	5.05	5.05	101	101	69.0-126			0.000	20
1,1,2-Trichloroethane	5.00	5.19	4.90	104	98.0	78.0-123			5.75	20
Trichloroethene	5.00	4.79	4.92	95.8	98.4	76.0-126			2.68	20
Trichlorofluoromethane	5.00	4.99	5.27	99.8	105	61.0-142	J	J	5.46	20
1,2,3-Trichloropropane	5.00	5.87	5.02	117	100	67.0-129			15.6	20
1,2,4-Trimethylbenzene	5.00	5.23	4.93	105	98.6	70.0-126			5.91	20
1,2,3-Trimethylbenzene	5.00	5.12	4.69	102	93.8	74.0-124			8.77	20
1,3,5-Trimethylbenzene	5.00	5.17	4.75	103	95.0	73.0-127			8.47	20
Vinyl acetate	25.0	24.4	23.5	97.6	94.0	43.0-159			3.76	20
Xylenes, Total	15.0	12.9	13.2	86.0	88.0	72.0-127			2.30	20
(S) Toluene-d8				97.8	96.9	75.0-131				
(S) 4-Bromofluorobenzene				89.2	94.3	67.0-138				
(S) 1,2-Dichloroethane-d4				105	107	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4153604-3 12/02/24 11:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	103			75.0-131
(S) 4-Bromofluorobenzene	94.7			67.0-138
(S) 1,2-Dichloroethane-d4	95.0			70.0-130

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

(LCS) R4153604-1 12/02/24 09:54 • (LCSD) R4153604-2 12/02/24 10:13

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	5.00	5.06	4.91	101	98.2	73.0-125			3.01	20
Vinyl chloride	5.00	5.67	5.78	113	116	63.0-134			1.92	20
(S) Toluene-d8				101	104	75.0-131				
(S) 4-Bromofluorobenzene				97.6	98.3	67.0-138				
(S) 1,2-Dichloroethane-d4				97.8	95.6	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

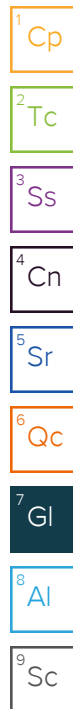
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

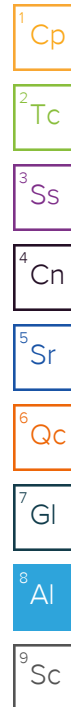
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



cooler 2 of 2

Company Name/Address: PES Environmental, Inc.- WA 2101 Fourth Ave., Suite 1310 Seattle, WA 98121				Billing Information: Attn: Accounts Payable 2101 4th Avenue, Suite 1310 Seattle, WA 98121				Analysis / Container / Preservative Pres Chk 22 L2				Chain of Custody Page 1 of 1 PEOPLE ADVANCING SCIENCE MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf			
Report to: Daniel Balbiani (ALP Q2)				Email To: <i>Sam Graber@nv5.com</i> <i>Jessica.babb@nv5.com; natalie.wisdom@nv5.com</i>											
Project Description: American Linen Q2-2024		City/State Collected: Seattle, WA		Please Circle: PT MT CT ET											
Phone: 206-529-3980		Client Project # 443022-1413001.10.701.02		Lab Project # PESENVSWA-ALP											
Collected by (print): <i>D. Del Giudice</i>		Site/Facility ID #		P.O. #											
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #											
Immediately Packed on Ice N ☐ Y ☒		Date Results Needed		No. of Cntrs											
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time										
MW-187-111924	G	GW	-	11/19/24	1326										
MW-186-111924		GW			1450										
MW-188-111924		GW			1355										
MW-1000-111924		GW			1222										
EQ-111924 <i>mx</i>		GW			1411										
TB-111924	↓	GW	↓	↓	-										
		GW													
		GW													
		GW													
		GW													
		GW													

* Matrix:

SS - Soil AIR - Air F - Filter

GW - Groundwater B - Bioassay

WW - Wastewater

DW - Drinking Water

OT - Other

Remarks: **Tier 2 lab QA/QC (batch QC OK)**

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier

Tracking # **4212 6472 7619**

PH - 10BDH0941
TRC - 3327A333

Relinquished by: (Signature) 		Date: 11/19/24		Time: 1518		Received by: (Signature)		Trip Blank Received: ☒ Yes ☐ No	
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: °C Bottles Received: 45	
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)		Date: Time:	

PH: **10BDH0941**
TRC: **3327A333**

Flow: _____ Other: _____

pH: _____ Temp: _____

Sufficient volume sent: ☒ Yes ☐ No

Correct bottles used: ☒ Yes ☐ No

Bottles arrive intact: ☒ Yes ☐ No

COC Signed/Accurate: ☒ Yes ☐ No

COC Seal Present/Intact: ☒ Yes ☐ No

Sample Receipt Checklist

VOA Zero Headspace: ☒ Yes ☐ No

Preservation Correct/Checked: ☒ Yes ☐ No

RAD Screen <0.5 mR/hr: ☒ Yes ☐ No

If preservation required by Login: Date/Time

Hold: _____ Condition: NCF / OK

PESENVSWA L1801569 / L1802011 / L1802018

R2/R3/R4/RX/EX

Please add CHLORIDE, NITRATE, and ALK to the following SDGs/samples:

L1801569-01 thru -07

L1802011-01 thru -05

L1802018-01 thru -05

Please use the revised attached COC's

Time estimate: oh

Time spent: oh

Members

 SG Shane Gambill

 JD Jordan Dozier

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

Report to: Daniel Balbani (ATP-Q2)
Email To: Sam Jacobson@pvs.com
jacobson@pvs.com; natalie.wisdom@pvs.com

Project Description: American Linen #2-2024
City/State: Seattle, WA
Collected: PT MT CT ET

Client Project # 443022-1413001.10.701.02
Lab Project # PESENVSWA-ALP
Site/Facility ID #
P.O. #

Collected by (print): D. Balbani
Collected by (signature):
Rush? (Lab MUST Be Notified)
Quote #
Date Results Needed
No. of Cnts

Sample ID
Comp/Grab
Matrix
Depth
Date
Time
Cnts

Sample # (tab only)
Remarks

Accum: PESENVSWA
Template: T252149
Prelim: P1073078
PB: PM: 545 - Jared Starkey

Shipped Via:
Remarks

SDG # CO47
180018

1205 Labson Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
PVS Terms and Conditions found at:
https://pvs-lab.com/hub/pvs-standard-
terms.pdf

MT JULIET, TN
PEOPLE ADVANCING SCIENCE
Pace

Chain of Custody Page 1 of 1

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

Chk Pres
22

Analysis / Container / Preservative

Analysis / Container / Preservative

Analysis / Container / Preservative

Analysis / Container / Preservative

PES Environmental, Inc.- WA

Sample Delivery Group: L1803250
Samples Received: 11/22/2024
Project Number: 1413001.10.603.04
Description: American Linen

Report To: Craig Peterson
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



Jordan Dozier
Project Manager

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

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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

SAMPLE SUMMARY

MW-345-112124 L1803250-01 GW

Collected by
N. Wisdom

Collected date/time
11/21/24 13:50

Received date/time
11/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410861	1	12/01/24 14:51	12/01/24 14:51	JAH	Mt. Juliet, TN

EQ-112124 L1803250-03 GW

Collected by
N. Wisdom

Collected date/time
11/21/24 14:51

Received date/time
11/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410861	1	12/01/24 14:13	12/01/24 14:13	JAH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

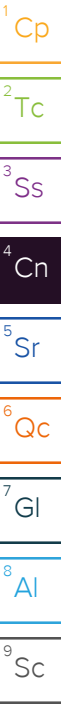
⁹Sc

CASE NARRATIVE

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

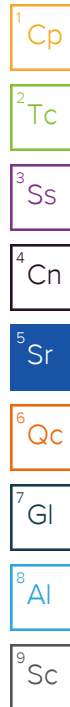


Jordan Dozier
Project Manager



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.55	C5 J4	0.548	1.00	1	12/01/2024 14:51	WG2410861
Acrylonitrile	U	J4	0.0760	0.500	1	12/01/2024 14:51	WG2410861
Benzene	U		0.0160	0.0400	1	12/01/2024 14:51	WG2410861
Bromobenzene	U		0.0420	0.500	1	12/01/2024 14:51	WG2410861
Bromochloromethane	U		0.0452	0.200	1	12/01/2024 14:51	WG2410861
Bromodichloromethane	U		0.0315	0.100	1	12/01/2024 14:51	WG2410861
Bromoform	U		0.239	1.00	1	12/01/2024 14:51	WG2410861
Bromomethane	U		0.148	0.500	1	12/01/2024 14:51	WG2410861
n-Butylbenzene	U		0.153	0.500	1	12/01/2024 14:51	WG2410861
sec-Butylbenzene	U		0.101	0.500	1	12/01/2024 14:51	WG2410861
tert-Butylbenzene	U		0.0620	0.200	1	12/01/2024 14:51	WG2410861
Carbon disulfide	0.530		0.162	0.500	1	12/01/2024 14:51	WG2410861
Carbon tetrachloride	U		0.0432	0.200	1	12/01/2024 14:51	WG2410861
Chlorobenzene	U		0.0229	0.100	1	12/01/2024 14:51	WG2410861
Chlorodibromomethane	U		0.0180	0.100	1	12/01/2024 14:51	WG2410861
Chloroethane	0.297		0.0432	0.200	1	12/01/2024 14:51	WG2410861
Chloroform	U		0.0166	0.100	1	12/01/2024 14:51	WG2410861
Chloromethane	U		0.0556	0.500	1	12/01/2024 14:51	WG2410861
2-Chlorotoluene	U		0.0368	0.100	1	12/01/2024 14:51	WG2410861
4-Chlorotoluene	U		0.0452	0.200	1	12/01/2024 14:51	WG2410861
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	12/01/2024 14:51	WG2410861
1,2-Dibromoethane	U		0.0210	0.100	1	12/01/2024 14:51	WG2410861
Dibromomethane	U		0.0400	0.200	1	12/01/2024 14:51	WG2410861
1,2-Dichlorobenzene	U		0.0580	0.200	1	12/01/2024 14:51	WG2410861
1,3-Dichlorobenzene	U		0.0680	0.200	1	12/01/2024 14:51	WG2410861
1,4-Dichlorobenzene	U		0.0788	0.200	1	12/01/2024 14:51	WG2410861
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	12/01/2024 14:51	WG2410861
Dichlorodifluoromethane	U		0.0327	0.200	1	12/01/2024 14:51	WG2410861
1,1-Dichloroethane	U		0.0230	0.100	1	12/01/2024 14:51	WG2410861
1,2-Dichloroethane	U		0.0190	0.100	1	12/01/2024 14:51	WG2410861
1,1-Dichloroethene	U		0.0200	0.100	1	12/01/2024 14:51	WG2410861
cis-1,2-Dichloroethene	5.99		0.0276	0.100	1	12/01/2024 14:51	WG2410861
trans-1,2-Dichloroethene	0.118	J	0.0572	0.200	1	12/01/2024 14:51	WG2410861
1,2-Dichloropropane	U		0.0508	0.200	1	12/01/2024 14:51	WG2410861
1,1-Dichloropropene	U		0.0280	0.100	1	12/01/2024 14:51	WG2410861
1,3-Dichloropropane	U		0.0700	0.200	1	12/01/2024 14:51	WG2410861
cis-1,3-Dichloropropene	U		0.0271	0.100	1	12/01/2024 14:51	WG2410861
trans-1,3-Dichloropropene	U		0.0612	0.200	1	12/01/2024 14:51	WG2410861
2,2-Dichloropropane	U	J4	0.0317	0.100	1	12/01/2024 14:51	WG2410861
Di-isopropyl ether	U		0.0140	0.0400	1	12/01/2024 14:51	WG2410861
Ethylbenzene	0.0440	J	0.0212	0.100	1	12/01/2024 14:51	WG2410861
Hexachloro-1,3-butadiene	U		0.508	1.00	1	12/01/2024 14:51	WG2410861
2-Hexanone	U		0.400	1.00	1	12/01/2024 14:51	WG2410861
n-Hexane	U		0.0424	0.200	1	12/01/2024 14:51	WG2410861
Iodomethane	U		0.242	0.500	1	12/01/2024 14:51	WG2410861
Isopropylbenzene	U		0.0345	0.100	1	12/01/2024 14:51	WG2410861
p-Isopropyltoluene	U		0.0932	0.200	1	12/01/2024 14:51	WG2410861
2-Butanone (MEK)	U		0.500	1.00	1	12/01/2024 14:51	WG2410861
Methylene Chloride	U		0.265	1.00	1	12/01/2024 14:51	WG2410861
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	12/01/2024 14:51	WG2410861
Methyl tert-butyl ether	U		0.0118	0.0400	1	12/01/2024 14:51	WG2410861
Naphthalene	U	C3	0.124	0.500	1	12/01/2024 14:51	WG2410861
n-Propylbenzene	U		0.0472	0.200	1	12/01/2024 14:51	WG2410861
Styrene	U		0.109	0.500	1	12/01/2024 14:51	WG2410861
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	12/01/2024 14:51	WG2410861
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	12/01/2024 14:51	WG2410861



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	C3	0.0270	0.100	1	12/01/2024 14:51	WG2410861
Tetrachloroethene	U		0.0280	0.100	1	12/01/2024 14:51	WG2410861
Toluene	U		0.0500	0.200	1	12/01/2024 14:51	WG2410861
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	12/01/2024 14:51	WG2410861
1,2,4-Trichlorobenzene	U		0.193	0.500	1	12/01/2024 14:51	WG2410861
1,1,1-Trichloroethane	U		0.0110	0.100	1	12/01/2024 14:51	WG2410861
1,1,2-Trichloroethane	U		0.0353	0.100	1	12/01/2024 14:51	WG2410861
Trichloroethene	0.0420		0.0160	0.0400	1	12/01/2024 14:51	WG2410861
Trichlorofluoromethane	U		0.0200	0.100	1	12/01/2024 14:51	WG2410861
1,2,3-Trichloropropane	U		0.204	0.500	1	12/01/2024 14:51	WG2410861
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	12/01/2024 14:51	WG2410861
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	12/01/2024 14:51	WG2410861
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	12/01/2024 14:51	WG2410861
Vinyl acetate	U		0.141	0.500	1	12/01/2024 14:51	WG2410861
Vinyl chloride	95.2	C5	0.0273	0.100	1	12/01/2024 14:51	WG2410861
Xylenes, Total	U		0.191	0.260	1	12/01/2024 14:51	WG2410861
(S) Toluene-d8	103			75.0-131		12/01/2024 14:51	WG2410861
(S) 4-Bromofluorobenzene	94.1			67.0-138		12/01/2024 14:51	WG2410861
(S) 1,2-Dichloroethane-d4	98.8			70.0-130		12/01/2024 14:51	WG2410861

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

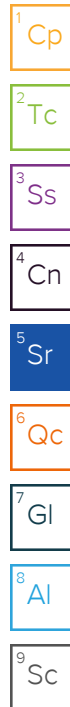
7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.27	C5 J4	0.548	1.00	1	12/01/2024 14:13	WG2410861
Acrylonitrile	U	J4	0.0760	0.500	1	12/01/2024 14:13	WG2410861
Benzene	U		0.0160	0.0400	1	12/01/2024 14:13	WG2410861
Bromobenzene	U		0.0420	0.500	1	12/01/2024 14:13	WG2410861
Bromochloromethane	U		0.0452	0.200	1	12/01/2024 14:13	WG2410861
Bromodichloromethane	U		0.0315	0.100	1	12/01/2024 14:13	WG2410861
Bromoform	U		0.239	1.00	1	12/01/2024 14:13	WG2410861
Bromomethane	U		0.148	0.500	1	12/01/2024 14:13	WG2410861
n-Butylbenzene	U		0.153	0.500	1	12/01/2024 14:13	WG2410861
sec-Butylbenzene	U		0.101	0.500	1	12/01/2024 14:13	WG2410861
tert-Butylbenzene	U		0.0620	0.200	1	12/01/2024 14:13	WG2410861
Carbon disulfide	U		0.162	0.500	1	12/01/2024 14:13	WG2410861
Carbon tetrachloride	U		0.0432	0.200	1	12/01/2024 14:13	WG2410861
Chlorobenzene	U		0.0229	0.100	1	12/01/2024 14:13	WG2410861
Chlorodibromomethane	U		0.0180	0.100	1	12/01/2024 14:13	WG2410861
Chloroethane	U		0.0432	0.200	1	12/01/2024 14:13	WG2410861
Chloroform	0.0850	J	0.0166	0.100	1	12/01/2024 14:13	WG2410861
Chloromethane	U		0.0556	0.500	1	12/01/2024 14:13	WG2410861
2-Chlorotoluene	U		0.0368	0.100	1	12/01/2024 14:13	WG2410861
4-Chlorotoluene	U		0.0452	0.200	1	12/01/2024 14:13	WG2410861
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	12/01/2024 14:13	WG2410861
1,2-Dibromoethane	U		0.0210	0.100	1	12/01/2024 14:13	WG2410861
Dibromomethane	U		0.0400	0.200	1	12/01/2024 14:13	WG2410861
1,2-Dichlorobenzene	U		0.0580	0.200	1	12/01/2024 14:13	WG2410861
1,3-Dichlorobenzene	U		0.0680	0.200	1	12/01/2024 14:13	WG2410861
1,4-Dichlorobenzene	U		0.0788	0.200	1	12/01/2024 14:13	WG2410861
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	12/01/2024 14:13	WG2410861
Dichlorodifluoromethane	U		0.0327	0.200	1	12/01/2024 14:13	WG2410861
1,1-Dichloroethane	U		0.0230	0.100	1	12/01/2024 14:13	WG2410861
1,2-Dichloroethane	U		0.0190	0.100	1	12/01/2024 14:13	WG2410861
1,1-Dichloroethene	U		0.0200	0.100	1	12/01/2024 14:13	WG2410861
cis-1,2-Dichloroethene	U		0.0276	0.100	1	12/01/2024 14:13	WG2410861
trans-1,2-Dichloroethene	U		0.0572	0.200	1	12/01/2024 14:13	WG2410861
1,2-Dichloropropane	U		0.0508	0.200	1	12/01/2024 14:13	WG2410861
1,1-Dichloropropene	U		0.0280	0.100	1	12/01/2024 14:13	WG2410861
1,3-Dichloropropane	U		0.0700	0.200	1	12/01/2024 14:13	WG2410861
cis-1,3-Dichloropropene	U		0.0271	0.100	1	12/01/2024 14:13	WG2410861
trans-1,3-Dichloropropene	U		0.0612	0.200	1	12/01/2024 14:13	WG2410861
2,2-Dichloropropane	U	J4	0.0317	0.100	1	12/01/2024 14:13	WG2410861
Di-isopropyl ether	U		0.0140	0.0400	1	12/01/2024 14:13	WG2410861
Ethylbenzene	U		0.0212	0.100	1	12/01/2024 14:13	WG2410861
Hexachloro-1,3-butadiene	U		0.508	1.00	1	12/01/2024 14:13	WG2410861
2-Hexanone	U		0.400	1.00	1	12/01/2024 14:13	WG2410861
n-Hexane	U		0.0424	0.200	1	12/01/2024 14:13	WG2410861
Iodomethane	U		0.242	0.500	1	12/01/2024 14:13	WG2410861
Isopropylbenzene	U		0.0345	0.100	1	12/01/2024 14:13	WG2410861
p-Isopropyltoluene	U		0.0932	0.200	1	12/01/2024 14:13	WG2410861
2-Butanone (MEK)	U		0.500	1.00	1	12/01/2024 14:13	WG2410861
Methylene Chloride	U		0.265	1.00	1	12/01/2024 14:13	WG2410861
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	12/01/2024 14:13	WG2410861
Methyl tert-butyl ether	U		0.0118	0.0400	1	12/01/2024 14:13	WG2410861
Naphthalene	U	C3	0.124	0.500	1	12/01/2024 14:13	WG2410861
n-Propylbenzene	U		0.0472	0.200	1	12/01/2024 14:13	WG2410861
Styrene	U		0.109	0.500	1	12/01/2024 14:13	WG2410861
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	12/01/2024 14:13	WG2410861
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	12/01/2024 14:13	WG2410861



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	C3	0.0270	0.100	1	12/01/2024 14:13	WG2410861
Tetrachloroethene	U		0.0280	0.100	1	12/01/2024 14:13	WG2410861
Toluene	U		0.0500	0.200	1	12/01/2024 14:13	WG2410861
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	12/01/2024 14:13	WG2410861
1,2,4-Trichlorobenzene	U		0.193	0.500	1	12/01/2024 14:13	WG2410861
1,1,1-Trichloroethane	U		0.0110	0.100	1	12/01/2024 14:13	WG2410861
1,1,2-Trichloroethane	U		0.0353	0.100	1	12/01/2024 14:13	WG2410861
Trichloroethene	U		0.0160	0.0400	1	12/01/2024 14:13	WG2410861
Trichlorofluoromethane	U		0.0200	0.100	1	12/01/2024 14:13	WG2410861
1,2,3-Trichloropropane	U		0.204	0.500	1	12/01/2024 14:13	WG2410861
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	12/01/2024 14:13	WG2410861
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	12/01/2024 14:13	WG2410861
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	12/01/2024 14:13	WG2410861
Vinyl acetate	U		0.141	0.500	1	12/01/2024 14:13	WG2410861
Vinyl chloride	U		0.0273	0.100	1	12/01/2024 14:13	WG2410861
Xylenes, Total	U		0.191	0.260	1	12/01/2024 14:13	WG2410861
(S) Toluene-d8	104			75.0-131		12/01/2024 14:13	WG2410861
(S) 4-Bromofluorobenzene	94.6			67.0-138		12/01/2024 14:13	WG2410861
(S) 1,2-Dichloroethane-d4	97.8			70.0-130		12/01/2024 14:13	WG2410861

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4155686-3 12/01/24 12:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromochloromethane	U		0.0452	0.200
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon disulfide	U		0.162	0.500
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.200
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400

1
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Method Blank (MB)

(MB) R4155686-3 12/01/24 12:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
2-Hexanone	U		0.400	1.00
n-Hexane	U		0.0424	0.200
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl acetate	U		0.141	0.500
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	104			75.0-131
(S) 4-Bromofluorobenzene	94.7			67.0-138
(S) 1,2-Dichloroethane-d4	96.6			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4155686-1 12/01/24 10:36 • (LCSD) R4155686-2 12/01/24 10:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	49.0	49.6	196	198	10.0-160	J4	J4	1.22	31
Acrylonitrile	25.0	39.1	38.5	156	154	45.0-153	J4	J4	1.55	22
Benzene	5.00	5.18	4.95	104	99.0	70.0-123			4.54	20
Bromobenzene	5.00	4.80	4.54	96.0	90.8	73.0-121			5.57	20
Bromochloromethane	5.00	5.27	5.16	105	103	77.0-128			2.11	20
Bromodichloromethane	5.00	5.09	4.95	102	99.0	73.0-121			2.79	20
Bromoform	5.00	5.48	5.34	110	107	64.0-132			2.59	20
Bromomethane	5.00	4.68	4.26	93.6	85.2	56.0-147			9.40	20
n-Butylbenzene	5.00	4.59	4.55	91.8	91.0	68.0-135			0.875	20
sec-Butylbenzene	5.00	4.78	4.65	95.6	93.0	74.0-130			2.76	20
tert-Butylbenzene	5.00	4.59	4.48	91.8	89.6	75.0-127			2.43	20
Carbon disulfide	5.00	5.09	4.79	102	95.8	56.0-133			6.07	20
Carbon tetrachloride	5.00	6.21	5.78	124	116	66.0-128			7.17	20
Chlorobenzene	5.00	4.95	4.67	99.0	93.4	76.0-128			5.82	20
Chlorodibromomethane	5.00	5.12	5.12	102	102	74.0-127			0.000	20
Chloroethane	5.00	5.16	4.86	103	97.2	61.0-134			5.99	20
Chloroform	5.00	5.14	4.93	103	98.6	72.0-123			4.17	20
Chloromethane	5.00	5.37	4.92	107	98.4	51.0-138			8.75	20
2-Chlorotoluene	5.00	4.80	4.60	96.0	92.0	75.0-124			4.26	20
4-Chlorotoluene	5.00	4.31	4.18	86.2	83.6	75.0-124			3.06	20
1,2-Dibromo-3-Chloropropane	5.00	5.94	5.54	119	111	59.0-130			6.97	20
1,2-Dibromoethane	5.00	4.96	4.93	99.2	98.6	74.0-128			0.607	20
Dibromomethane	5.00	5.43	5.15	109	103	75.0-122			5.29	20
1,2-Dichlorobenzene	5.00	4.60	4.42	92.0	88.4	76.0-124			3.99	20
1,3-Dichlorobenzene	5.00	4.43	4.44	88.6	88.8	76.0-125			0.225	20
1,4-Dichlorobenzene	5.00	4.33	4.42	86.6	88.4	77.0-121			2.06	20
trans-1,4-Dichloro-2-butene	5.00	3.96	4.42	79.2	88.4	45.0-143			11.0	20
Dichlorodifluoromethane	5.00	6.46	6.16	129	123	43.0-156			4.75	20
1,1-Dichloroethane	5.00	5.48	5.15	110	103	70.0-127			6.21	20
1,2-Dichloroethane	5.00	5.05	4.98	101	99.6	65.0-131			1.40	20
1,1-Dichloroethene	5.00	5.05	4.61	101	92.2	65.0-131			9.11	20
cis-1,2-Dichloroethene	5.00	5.05	4.78	101	95.6	73.0-125			5.49	20
trans-1,2-Dichloroethene	5.00	5.23	4.97	105	99.4	71.0-125			5.10	20
1,2-Dichloropropane	5.00	5.34	5.09	107	102	74.0-125			4.79	20
1,1-Dichloropropene	5.00	5.39	5.29	108	106	73.0-125			1.87	20
1,3-Dichloropropane	5.00	5.00	4.80	100	96.0	80.0-125			4.08	20
cis-1,3-Dichloropropene	5.00	5.15	5.01	103	100	76.0-127			2.76	20
trans-1,3-Dichloropropene	5.00	5.10	4.98	102	99.6	73.0-127			2.38	20
2,2-Dichloropropane	5.00	7.14	6.74	143	135	59.0-135	J4		5.76	20
Di-isopropyl ether	5.00	5.22	5.07	104	101	60.0-136			2.92	20

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Cp

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Gl

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Al

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Sc

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

(LCS) R4155686-1 12/01/24 10:36 • (LCSD) R4155686-2 12/01/24 10:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	5.00	4.97	4.81	99.4	96.2	74.0-126			3.27	20
Hexachloro-1,3-butadiene	5.00	4.95	4.56	99.0	91.2	57.0-150			8.20	20
2-Hexanone	25.0	27.9	28.0	112	112	54.0-147			0.358	20
n-Hexane	5.00	5.74	5.21	115	104	55.0-137			9.68	20
Iodomethane	25.0	25.1	23.9	100	95.6	74.0-134			4.90	20
Isopropylbenzene	5.00	4.76	4.64	95.2	92.8	72.0-127			2.55	20
p-Isopropyltoluene	5.00	4.65	4.51	93.0	90.2	72.0-133			3.06	20
2-Butanone (MEK)	25.0	29.1	28.1	116	112	30.0-160			3.50	24
Methylene Chloride	5.00	5.07	4.81	101	96.2	68.0-123			5.26	20
4-Methyl-2-pentanone (MIBK)	25.0	30.2	29.0	121	116	56.0-143			4.05	20
Methyl tert-butyl ether	5.00	5.44	5.24	109	105	66.0-132			3.75	20
Naphthalene	5.00	3.47	3.63	69.4	72.6	59.0-130			4.51	20
n-Propylbenzene	5.00	5.03	4.54	101	90.8	74.0-126			10.2	20
Styrene	5.00	4.63	4.49	92.6	89.8	72.0-127			3.07	20
1,1,1,2-Tetrachloroethane	5.00	5.65	5.40	113	108	74.0-129			4.52	20
1,1,2,2-Tetrachloroethane	5.00	5.47	5.31	109	106	68.0-128			2.97	20
1,1,2-Trichlorotrifluoroethane	5.00	3.74	3.42	74.8	68.4	61.0-139			8.94	20
Tetrachloroethene	5.00	5.30	5.06	106	101	70.0-136			4.63	20
Toluene	5.00	5.27	4.97	105	99.4	75.0-121			5.86	20
1,2,3-Trichlorobenzene	5.00	4.39	4.28	87.8	85.6	59.0-139			2.54	20
1,2,4-Trichlorobenzene	5.00	4.11	4.13	82.2	82.6	62.0-137			0.485	20
1,1,1-Trichloroethane	5.00	5.87	5.50	117	110	69.0-126			6.51	20
1,1,2-Trichloroethane	5.00	5.16	5.08	103	102	78.0-123			1.56	20
Trichloroethene	5.00	5.39	5.26	108	105	76.0-126			2.44	20
Trichlorofluoromethane	5.00	4.67	4.33	93.4	86.6	61.0-142	U	U	7.56	20
1,2,3-Trichloropropane	5.00	5.43	5.09	109	102	67.0-129			6.46	20
1,2,4-Trimethylbenzene	5.00	4.36	4.30	87.2	86.0	70.0-126			1.39	20
1,2,3-Trimethylbenzene	5.00	4.58	4.37	91.6	87.4	74.0-124			4.69	20
1,3,5-Trimethylbenzene	5.00	4.52	4.46	90.4	89.2	73.0-127			1.34	20
Vinyl acetate	25.0	33.5	33.0	134	132	43.0-159			1.50	20
Vinyl chloride	5.00	6.07	5.90	121	118	63.0-134			2.84	20
Xylenes, Total	15.0	14.7	13.9	98.0	92.7	72.0-127			5.59	20
(S) Toluene-d8				103	104	75.0-131				
(S) 4-Bromofluorobenzene				96.3	96.2	67.0-138				
(S) 1,2-Dichloroethane-d4				98.2	100	70.0-130				

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

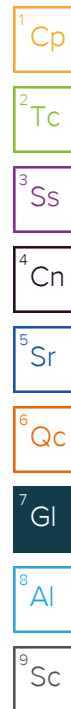
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.



ACCREDITATIONS & LOCATIONS

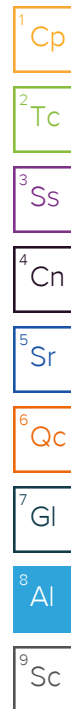
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



Company Name/Address: PES Environmental, Inc.- WA 2101 Fourth Ave., Suite 1310 Seattle, WA 98121			Billing Information: Attn: Accounts Payable 2101 4th Avenue, Suite 1310 Seattle, WA 98121			Pres Chk		Analysis / Container / Preservative						Chain of Custody Page <u>1</u> of <u>1</u>	
Report to: Daniel Balbiani			Email To: Daniel.balbani@nv5.com; sam.graber@nv5.com											 PEOPLE ADVANCING SCIENCE MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf	
Project Description: American Linen			City/State Collected: <u>Seattle, WA</u>		Please Circle: PT MT CT ET										
Phone: 206-529-3980		Client Project # 1413001.10.603.04		Lab Project # PESENVSWA-ALP											
Collected by (print): <u>N. Wisdom</u>		Site/Facility ID #		P.O. # 1413001.10.603.04											
Collected by (signature):		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #											
Immediately Packed on Ice N ☐ Y ☒				Date Results Needed		No. of Cntrs									
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time										
MW-345-112124	G	GW	-	11/21/24	1350	3									
IDW-112124	G	GW	-	↓	1430	9									
EQ-112124	G	GW	-	↓	1451	9									
		GW													
		GW													
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		GW													

* Matrix:

SS - Soil AIR - Air F - Filter

GW - Groundwater B - Bioassay

WW - WasteWater

DW - Drinking Water

OT - Other _____

Remarks: Tier 2 lab QA/QC (batch QC OK)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier

Tracking # 4212 6472 7630

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ N

COC Signed/Accurate: ☒ ☐ N

Bottles arrive intact: ☒ ☐ N

Correct bottles used: ☒ ☐ N

Sufficient volume sent: ☒ ☐ N

If Applicable

VOA Zero Headspace: ☒ ☐ N

Preservation Correct/Checked: ☒ ☐ N

RAD Screen <0.5 mR/hr: ☒ ☐ N

Relinquished by: (Signature) <u>Natalie Wisdom</u>		Date: <u>11/21/24</u>	Time: <u>1530</u>	Received by: (Signature)		Trip Blank Received: Yes ☒ No ☐ HCL / MeOH TBR	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: °C <u>54.9</u> Bottles Received: <u>21</u>	
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) <u>[Signature]</u>		Date: <u>11/22/24</u> Time: <u>0900</u>	
						Hold:	
						Condition: NCF / ☒ OK	

PES Environmental, Inc.- WA

Sample Delivery Group: L1803400
Samples Received: 11/23/2024
Project Number: 1413001.10.701.02
Description: American Linen

Report To: Craig Peterson
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



Jordan Dozier
Project Manager

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

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

MW-342-112224 L1803400-01 GW

Collected by
Clifford Hollinger

Collected date/time
11/22/24 10:00

Received date/time
11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410861	1	12/01/24 15:10	12/01/24 15:10	JAH	Mt. Juliet, TN

MW-343-112224 L1803400-02 GW

Collected by
Clifford Hollinger

Collected date/time
11/22/24 10:30

Received date/time
11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410861	1	12/01/24 15:29	12/01/24 15:29	JAH	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

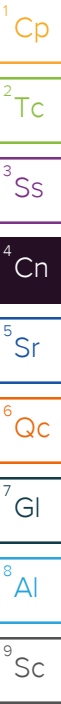
9Sc

CASE NARRATIVE

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



Jordan Dozier
Project Manager



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	12/01/2024 15:10	WG2410861
Acrylonitrile	U	J4	0.0760	0.500	1	12/01/2024 15:10	WG2410861
Benzene	1.80		0.0160	0.0400	1	12/01/2024 15:10	WG2410861
Bromobenzene	U		0.0420	0.500	1	12/01/2024 15:10	WG2410861
Bromochloromethane	U		0.0452	0.200	1	12/01/2024 15:10	WG2410861
Bromodichloromethane	U		0.0315	0.100	1	12/01/2024 15:10	WG2410861
Bromoform	U		0.239	1.00	1	12/01/2024 15:10	WG2410861
Bromomethane	U		0.148	0.500	1	12/01/2024 15:10	WG2410861
n-Butylbenzene	U		0.153	0.500	1	12/01/2024 15:10	WG2410861
sec-Butylbenzene	U		0.101	0.500	1	12/01/2024 15:10	WG2410861
tert-Butylbenzene	U		0.0620	0.200	1	12/01/2024 15:10	WG2410861
Carbon disulfide	U		0.162	0.500	1	12/01/2024 15:10	WG2410861
Carbon tetrachloride	U		0.0432	0.200	1	12/01/2024 15:10	WG2410861
Chlorobenzene	U		0.0229	0.100	1	12/01/2024 15:10	WG2410861
Chlorodibromomethane	U		0.0180	0.100	1	12/01/2024 15:10	WG2410861
Chloroethane	U		0.0432	0.200	1	12/01/2024 15:10	WG2410861
Chloroform	U		0.0166	0.100	1	12/01/2024 15:10	WG2410861
Chloromethane	U		0.0556	0.500	1	12/01/2024 15:10	WG2410861
2-Chlorotoluene	U		0.0368	0.100	1	12/01/2024 15:10	WG2410861
4-Chlorotoluene	U		0.0452	0.200	1	12/01/2024 15:10	WG2410861
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	12/01/2024 15:10	WG2410861
1,2-Dibromoethane	U		0.0210	0.100	1	12/01/2024 15:10	WG2410861
Dibromomethane	U		0.0400	0.200	1	12/01/2024 15:10	WG2410861
1,2-Dichlorobenzene	U		0.0580	0.200	1	12/01/2024 15:10	WG2410861
1,3-Dichlorobenzene	U		0.0680	0.200	1	12/01/2024 15:10	WG2410861
1,4-Dichlorobenzene	U		0.0788	0.200	1	12/01/2024 15:10	WG2410861
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	12/01/2024 15:10	WG2410861
Dichlorodifluoromethane	U		0.0327	0.200	1	12/01/2024 15:10	WG2410861
1,1-Dichloroethane	U		0.0230	0.100	1	12/01/2024 15:10	WG2410861
1,2-Dichloroethane	U		0.0190	0.100	1	12/01/2024 15:10	WG2410861
1,1-Dichloroethene	U		0.0200	0.100	1	12/01/2024 15:10	WG2410861
cis-1,2-Dichloroethene	11.0		0.0276	0.100	1	12/01/2024 15:10	WG2410861
trans-1,2-Dichloroethene	0.0790	J	0.0572	0.200	1	12/01/2024 15:10	WG2410861
1,2-Dichloropropane	U		0.0508	0.200	1	12/01/2024 15:10	WG2410861
1,1-Dichloropropene	U		0.0280	0.100	1	12/01/2024 15:10	WG2410861
1,3-Dichloropropane	U		0.0700	0.200	1	12/01/2024 15:10	WG2410861
cis-1,3-Dichloropropene	U		0.0271	0.100	1	12/01/2024 15:10	WG2410861
trans-1,3-Dichloropropene	U		0.0612	0.200	1	12/01/2024 15:10	WG2410861
2,2-Dichloropropane	U	J4	0.0317	0.100	1	12/01/2024 15:10	WG2410861
Di-isopropyl ether	0.0920		0.0140	0.0400	1	12/01/2024 15:10	WG2410861
Ethylbenzene	U		0.0212	0.100	1	12/01/2024 15:10	WG2410861
Hexachloro-1,3-butadiene	U		0.508	1.00	1	12/01/2024 15:10	WG2410861
2-Hexanone	U		0.400	1.00	1	12/01/2024 15:10	WG2410861
n-Hexane	U		0.0424	0.200	1	12/01/2024 15:10	WG2410861
Iodomethane	U		0.242	0.500	1	12/01/2024 15:10	WG2410861
Isopropylbenzene	U		0.0345	0.100	1	12/01/2024 15:10	WG2410861
p-Isopropyltoluene	U		0.0932	0.200	1	12/01/2024 15:10	WG2410861
2-Butanone (MEK)	U		0.500	1.00	1	12/01/2024 15:10	WG2410861
Methylene Chloride	U		0.265	1.00	1	12/01/2024 15:10	WG2410861
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	12/01/2024 15:10	WG2410861
Methyl tert-butyl ether	U		0.0118	0.0400	1	12/01/2024 15:10	WG2410861
Naphthalene	U	C3	0.124	0.500	1	12/01/2024 15:10	WG2410861
n-Propylbenzene	U		0.0472	0.200	1	12/01/2024 15:10	WG2410861
Styrene	U		0.109	0.500	1	12/01/2024 15:10	WG2410861
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	12/01/2024 15:10	WG2410861
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	12/01/2024 15:10	WG2410861

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	C3	0.0270	0.100	1	12/01/2024 15:10	WG2410861
Tetrachloroethene	U		0.0280	0.100	1	12/01/2024 15:10	WG2410861
Toluene	U		0.0500	0.200	1	12/01/2024 15:10	WG2410861
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	12/01/2024 15:10	WG2410861
1,2,4-Trichlorobenzene	U		0.193	0.500	1	12/01/2024 15:10	WG2410861
1,1,1-Trichloroethane	U		0.0110	0.100	1	12/01/2024 15:10	WG2410861
1,1,2-Trichloroethane	U		0.0353	0.100	1	12/01/2024 15:10	WG2410861
Trichloroethene	U		0.0160	0.0400	1	12/01/2024 15:10	WG2410861
Trichlorofluoromethane	U		0.0200	0.100	1	12/01/2024 15:10	WG2410861
1,2,3-Trichloropropane	U		0.204	0.500	1	12/01/2024 15:10	WG2410861
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	12/01/2024 15:10	WG2410861
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	12/01/2024 15:10	WG2410861
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	12/01/2024 15:10	WG2410861
Vinyl acetate	U		0.141	0.500	1	12/01/2024 15:10	WG2410861
Vinyl chloride	6.21	C5	0.0273	0.100	1	12/01/2024 15:10	WG2410861
Xylenes, Total	U		0.191	0.260	1	12/01/2024 15:10	WG2410861
(S) Toluene-d8	105			75.0-131		12/01/2024 15:10	WG2410861
(S) 4-Bromofluorobenzene	94.5			67.0-138		12/01/2024 15:10	WG2410861
(S) 1,2-Dichloroethane-d4	97.8			70.0-130		12/01/2024 15:10	WG2410861

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.13	C5 J4	0.548	1.00	1	12/01/2024 15:29	WG2410861
Acrylonitrile	U	J4	0.0760	0.500	1	12/01/2024 15:29	WG2410861
Benzene	0.0810		0.0160	0.0400	1	12/01/2024 15:29	WG2410861
Bromobenzene	U		0.0420	0.500	1	12/01/2024 15:29	WG2410861
Bromochloromethane	U		0.0452	0.200	1	12/01/2024 15:29	WG2410861
Bromodichloromethane	U		0.0315	0.100	1	12/01/2024 15:29	WG2410861
Bromoform	U		0.239	1.00	1	12/01/2024 15:29	WG2410861
Bromomethane	U		0.148	0.500	1	12/01/2024 15:29	WG2410861
n-Butylbenzene	U		0.153	0.500	1	12/01/2024 15:29	WG2410861
sec-Butylbenzene	U		0.101	0.500	1	12/01/2024 15:29	WG2410861
tert-Butylbenzene	U		0.0620	0.200	1	12/01/2024 15:29	WG2410861
Carbon disulfide	U		0.162	0.500	1	12/01/2024 15:29	WG2410861
Carbon tetrachloride	U		0.0432	0.200	1	12/01/2024 15:29	WG2410861
Chlorobenzene	U		0.0229	0.100	1	12/01/2024 15:29	WG2410861
Chlorodibromomethane	U		0.0180	0.100	1	12/01/2024 15:29	WG2410861
Chloroethane	U		0.0432	0.200	1	12/01/2024 15:29	WG2410861
Chloroform	U		0.0166	0.100	1	12/01/2024 15:29	WG2410861
Chloromethane	U		0.0556	0.500	1	12/01/2024 15:29	WG2410861
2-Chlorotoluene	U		0.0368	0.100	1	12/01/2024 15:29	WG2410861
4-Chlorotoluene	U		0.0452	0.200	1	12/01/2024 15:29	WG2410861
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	12/01/2024 15:29	WG2410861
1,2-Dibromoethane	U		0.0210	0.100	1	12/01/2024 15:29	WG2410861
Dibromomethane	U		0.0400	0.200	1	12/01/2024 15:29	WG2410861
1,2-Dichlorobenzene	U		0.0580	0.200	1	12/01/2024 15:29	WG2410861
1,3-Dichlorobenzene	U		0.0680	0.200	1	12/01/2024 15:29	WG2410861
1,4-Dichlorobenzene	U		0.0788	0.200	1	12/01/2024 15:29	WG2410861
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	12/01/2024 15:29	WG2410861
Dichlorodifluoromethane	U		0.0327	0.200	1	12/01/2024 15:29	WG2410861
1,1-Dichloroethane	U		0.0230	0.100	1	12/01/2024 15:29	WG2410861
1,2-Dichloroethane	U		0.0190	0.100	1	12/01/2024 15:29	WG2410861
1,1-Dichloroethene	U		0.0200	0.100	1	12/01/2024 15:29	WG2410861
cis-1,2-Dichloroethene	2.52		0.0276	0.100	1	12/01/2024 15:29	WG2410861
trans-1,2-Dichloroethene	U		0.0572	0.200	1	12/01/2024 15:29	WG2410861
1,2-Dichloropropane	U		0.0508	0.200	1	12/01/2024 15:29	WG2410861
1,1-Dichloropropene	U		0.0280	0.100	1	12/01/2024 15:29	WG2410861
1,3-Dichloropropane	U		0.0700	0.200	1	12/01/2024 15:29	WG2410861
cis-1,3-Dichloropropene	U		0.0271	0.100	1	12/01/2024 15:29	WG2410861
trans-1,3-Dichloropropene	U		0.0612	0.200	1	12/01/2024 15:29	WG2410861
2,2-Dichloropropane	U	J4	0.0317	0.100	1	12/01/2024 15:29	WG2410861
Di-isopropyl ether	0.0530		0.0140	0.0400	1	12/01/2024 15:29	WG2410861
Ethylbenzene	U		0.0212	0.100	1	12/01/2024 15:29	WG2410861
Hexachloro-1,3-butadiene	U		0.508	1.00	1	12/01/2024 15:29	WG2410861
2-Hexanone	U		0.400	1.00	1	12/01/2024 15:29	WG2410861
n-Hexane	U		0.0424	0.200	1	12/01/2024 15:29	WG2410861
Iodomethane	U		0.242	0.500	1	12/01/2024 15:29	WG2410861
Isopropylbenzene	U		0.0345	0.100	1	12/01/2024 15:29	WG2410861
p-Isopropyltoluene	U		0.0932	0.200	1	12/01/2024 15:29	WG2410861
2-Butanone (MEK)	U		0.500	1.00	1	12/01/2024 15:29	WG2410861
Methylene Chloride	U		0.265	1.00	1	12/01/2024 15:29	WG2410861
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	12/01/2024 15:29	WG2410861
Methyl tert-butyl ether	U		0.0118	0.0400	1	12/01/2024 15:29	WG2410861
Naphthalene	U	C3	0.124	0.500	1	12/01/2024 15:29	WG2410861
n-Propylbenzene	U		0.0472	0.200	1	12/01/2024 15:29	WG2410861
Styrene	U		0.109	0.500	1	12/01/2024 15:29	WG2410861
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	12/01/2024 15:29	WG2410861
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	12/01/2024 15:29	WG2410861

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	C3	0.0270	0.100	1	12/01/2024 15:29	WG2410861
Tetrachloroethene	U		0.0280	0.100	1	12/01/2024 15:29	WG2410861
Toluene	U		0.0500	0.200	1	12/01/2024 15:29	WG2410861
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	12/01/2024 15:29	WG2410861
1,2,4-Trichlorobenzene	U		0.193	0.500	1	12/01/2024 15:29	WG2410861
1,1,1-Trichloroethane	U		0.0110	0.100	1	12/01/2024 15:29	WG2410861
1,1,2-Trichloroethane	U		0.0353	0.100	1	12/01/2024 15:29	WG2410861
Trichloroethene	U		0.0160	0.0400	1	12/01/2024 15:29	WG2410861
Trichlorofluoromethane	U		0.0200	0.100	1	12/01/2024 15:29	WG2410861
1,2,3-Trichloropropane	U		0.204	0.500	1	12/01/2024 15:29	WG2410861
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	12/01/2024 15:29	WG2410861
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	12/01/2024 15:29	WG2410861
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	12/01/2024 15:29	WG2410861
Vinyl acetate	U		0.141	0.500	1	12/01/2024 15:29	WG2410861
Vinyl chloride	6.48	C5	0.0273	0.100	1	12/01/2024 15:29	WG2410861
Xylenes, Total	U		0.191	0.260	1	12/01/2024 15:29	WG2410861
(S) Toluene-d8	105			75.0-131		12/01/2024 15:29	WG2410861
(S) 4-Bromofluorobenzene	94.1			67.0-138		12/01/2024 15:29	WG2410861
(S) 1,2-Dichloroethane-d4	99.6			70.0-130		12/01/2024 15:29	WG2410861

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4155686-3 12/01/24 12:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromochloromethane	U		0.0452	0.200
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon disulfide	U		0.162	0.500
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.200
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4155686-3 12/01/24 12:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
2-Hexanone	U		0.400	1.00
n-Hexane	U		0.0424	0.200
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl acetate	U		0.141	0.500
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	104			75.0-131
(S) 4-Bromofluorobenzene	94.7			67.0-138
(S) 1,2-Dichloroethane-d4	96.6			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4155686-1 12/01/24 10:36 • (LCSD) R4155686-2 12/01/24 10:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	49.0	49.6	196	198	10.0-160	J4	J4	1.22	31
Acrylonitrile	25.0	39.1	38.5	156	154	45.0-153	J4	J4	1.55	22
Benzene	5.00	5.18	4.95	104	99.0	70.0-123			4.54	20
Bromobenzene	5.00	4.80	4.54	96.0	90.8	73.0-121			5.57	20
Bromochloromethane	5.00	5.27	5.16	105	103	77.0-128			2.11	20
Bromodichloromethane	5.00	5.09	4.95	102	99.0	73.0-121			2.79	20
Bromoform	5.00	5.48	5.34	110	107	64.0-132			2.59	20
Bromomethane	5.00	4.68	4.26	93.6	85.2	56.0-147			9.40	20
n-Butylbenzene	5.00	4.59	4.55	91.8	91.0	68.0-135			0.875	20
sec-Butylbenzene	5.00	4.78	4.65	95.6	93.0	74.0-130			2.76	20
tert-Butylbenzene	5.00	4.59	4.48	91.8	89.6	75.0-127			2.43	20
Carbon disulfide	5.00	5.09	4.79	102	95.8	56.0-133			6.07	20
Carbon tetrachloride	5.00	6.21	5.78	124	116	66.0-128			7.17	20
Chlorobenzene	5.00	4.95	4.67	99.0	93.4	76.0-128			5.82	20
Chlorodibromomethane	5.00	5.12	5.12	102	102	74.0-127			0.000	20
Chloroethane	5.00	5.16	4.86	103	97.2	61.0-134			5.99	20
Chloroform	5.00	5.14	4.93	103	98.6	72.0-123			4.17	20
Chloromethane	5.00	5.37	4.92	107	98.4	51.0-138			8.75	20
2-Chlorotoluene	5.00	4.80	4.60	96.0	92.0	75.0-124			4.26	20
4-Chlorotoluene	5.00	4.31	4.18	86.2	83.6	75.0-124			3.06	20
1,2-Dibromo-3-Chloropropane	5.00	5.94	5.54	119	111	59.0-130			6.97	20
1,2-Dibromoethane	5.00	4.96	4.93	99.2	98.6	74.0-128			0.607	20
Dibromomethane	5.00	5.43	5.15	109	103	75.0-122			5.29	20
1,2-Dichlorobenzene	5.00	4.60	4.42	92.0	88.4	76.0-124			3.99	20
1,3-Dichlorobenzene	5.00	4.43	4.44	88.6	88.8	76.0-125			0.225	20
1,4-Dichlorobenzene	5.00	4.33	4.42	86.6	88.4	77.0-121			2.06	20
trans-1,4-Dichloro-2-butene	5.00	3.96	4.42	79.2	88.4	45.0-143			11.0	20
Dichlorodifluoromethane	5.00	6.46	6.16	129	123	43.0-156			4.75	20
1,1-Dichloroethane	5.00	5.48	5.15	110	103	70.0-127			6.21	20
1,2-Dichloroethane	5.00	5.05	4.98	101	99.6	65.0-131			1.40	20
1,1-Dichloroethene	5.00	5.05	4.61	101	92.2	65.0-131			9.11	20
cis-1,2-Dichloroethene	5.00	5.05	4.78	101	95.6	73.0-125			5.49	20
trans-1,2-Dichloroethene	5.00	5.23	4.97	105	99.4	71.0-125			5.10	20
1,2-Dichloropropane	5.00	5.34	5.09	107	102	74.0-125			4.79	20
1,1-Dichloropropene	5.00	5.39	5.29	108	106	73.0-125			1.87	20
1,3-Dichloropropane	5.00	5.00	4.80	100	96.0	80.0-125			4.08	20
cis-1,3-Dichloropropene	5.00	5.15	5.01	103	100	76.0-127			2.76	20
trans-1,3-Dichloropropene	5.00	5.10	4.98	102	99.6	73.0-127			2.38	20
2,2-Dichloropropane	5.00	7.14	6.74	143	135	59.0-135	J4		5.76	20
Di-isopropyl ether	5.00	5.22	5.07	104	101	60.0-136			2.92	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4155686-1 12/01/24 10:36 • (LCSD) R4155686-2 12/01/24 10:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	4.97	4.81	99.4	96.2	74.0-126			3.27	20
Hexachloro-1,3-butadiene	5.00	4.95	4.56	99.0	91.2	57.0-150			8.20	20
2-Hexanone	25.0	27.9	28.0	112	112	54.0-147			0.358	20
n-Hexane	5.00	5.74	5.21	115	104	55.0-137			9.68	20
Iodomethane	25.0	25.1	23.9	100	95.6	74.0-134			4.90	20
Isopropylbenzene	5.00	4.76	4.64	95.2	92.8	72.0-127			2.55	20
p-Isopropyltoluene	5.00	4.65	4.51	93.0	90.2	72.0-133			3.06	20
2-Butanone (MEK)	25.0	29.1	28.1	116	112	30.0-160			3.50	24
Methylene Chloride	5.00	5.07	4.81	101	96.2	68.0-123			5.26	20
4-Methyl-2-pentanone (MIBK)	25.0	30.2	29.0	121	116	56.0-143			4.05	20
Methyl tert-butyl ether	5.00	5.44	5.24	109	105	66.0-132			3.75	20
Naphthalene	5.00	3.47	3.63	69.4	72.6	59.0-130			4.51	20
n-Propylbenzene	5.00	5.03	4.54	101	90.8	74.0-126			10.2	20
Styrene	5.00	4.63	4.49	92.6	89.8	72.0-127			3.07	20
1,1,1,2-Tetrachloroethane	5.00	5.65	5.40	113	108	74.0-129			4.52	20
1,1,2,2-Tetrachloroethane	5.00	5.47	5.31	109	106	68.0-128			2.97	20
1,1,2-Trichlorotrifluoroethane	5.00	3.74	3.42	74.8	68.4	61.0-139			8.94	20
Tetrachloroethene	5.00	5.30	5.06	106	101	70.0-136			4.63	20
Toluene	5.00	5.27	4.97	105	99.4	75.0-121			5.86	20
1,2,3-Trichlorobenzene	5.00	4.39	4.28	87.8	85.6	59.0-139			2.54	20
1,2,4-Trichlorobenzene	5.00	4.11	4.13	82.2	82.6	62.0-137			0.485	20
1,1,1-Trichloroethane	5.00	5.87	5.50	117	110	69.0-126			6.51	20
1,1,2-Trichloroethane	5.00	5.16	5.08	103	102	78.0-123			1.56	20
Trichloroethene	5.00	5.39	5.26	108	105	76.0-126			2.44	20
Trichlorofluoromethane	5.00	4.67	4.33	93.4	86.6	61.0-142	U	U	7.56	20
1,2,3-Trichloropropane	5.00	5.43	5.09	109	102	67.0-129			6.46	20
1,2,4-Trimethylbenzene	5.00	4.36	4.30	87.2	86.0	70.0-126			1.39	20
1,2,3-Trimethylbenzene	5.00	4.58	4.37	91.6	87.4	74.0-124			4.69	20
1,3,5-Trimethylbenzene	5.00	4.52	4.46	90.4	89.2	73.0-127			1.34	20
Vinyl acetate	25.0	33.5	33.0	134	132	43.0-159			1.50	20
Vinyl chloride	5.00	6.07	5.90	121	118	63.0-134			2.84	20
Xylenes, Total	15.0	14.7	13.9	98.0	92.7	72.0-127			5.59	20
(S) Toluene-d8				103	104	75.0-131				
(S) 4-Bromofluorobenzene				96.3	96.2	67.0-138				
(S) 1,2-Dichloroethane-d4				98.2	100	70.0-130				

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

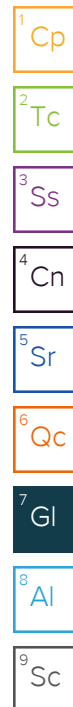
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.



ACCREDITATIONS & LOCATIONS

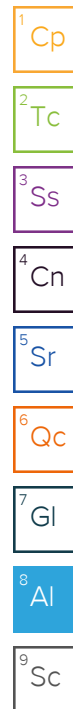
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



Company Name/Address: PES Environmental, Inc.- WA 2101 Fourth Ave., Suite 1310 Seattle, WA 98121		Billing Information: Attn: Accounts Payable 2101 4th Avenue, Suite 1310 Seattle, WA 98121		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 1 of 1	
Report to: Daniel Balbiani		Email To: Daniel.balbiani@nv5.com;sam.graber@nv5.com														 MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf	
Project Description: American Linen		City/State Collected: Seattle, WA		Please Circle: PT MT CT ET													
Phone: 206-529-3980		Client Project # 1413001.10.603.04 701.02		Lab Project # PESENVSWA-ALP												SDG # 1503400 H201	
Collected by (print): Clifford Hollinger		Site/Facility ID #		P.O. # 1413001.10.603.04												Table #	
Collected by (signature):		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #												Acctnum: PESENVSWA Template: T262759 Prelogin: P1110138 PM: 3768 - Jordan Dozier PB:	
Immediately Packed on Ice N ☐ Y ☒				Date Results Needed												Shipped Via: FedEX Ground	
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**Nitr,chl,sulf 9056 250mlHDPE-NoPres	ALK 2320B 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	FE,MN total 6020 250mlHDPE-HNO3	TOC 9060 250mlAmb-HCl	VOCs 8260ULL 40mlAmb-HCl			Remarks	Sample # (lab only)
MW-342-112224		G	GW	-	11/22/24	1000	3							X			-01
MW-343-112224		G	GW	-	11/22/24	1030	3							X			-02
			GW				3							X			
			GW				3							X			
			GW				3							X			
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			GW				3							X			
			GW		</												

December 13, 2024

Revised Report

PES Environmental, Inc.- WA

Sample Delivery Group: L1804238
Samples Received: 11/22/2024
Project Number: 1413001.10.603.04
Description: American Linen

Report To: Craig Peterson
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Entire Report Reviewed By:



Jordan Dozier
Project Manager

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

Pace Analytical National

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

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Sr: Sample Results	5	³ Ss
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		⁸ Al
		⁹ Sc

SAMPLE SUMMARY

IDW-112124 L1804238-01 GW

Collected by
N. Wisdom

Collected date/time
11/21/24 14:30

Received date/time
11/22/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2410861	1	12/01/24 18:39	12/01/24 18:39	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2416004	20	12/10/24 20:37	12/10/24 20:37	KST	Mt. Juliet, TN

¹Cp ${}^2\text{Tc}$ 3S_s ${}^4\text{Cn}$ ${}^5\text{Sr}$ ${}^6\text{Qc}$ ${}^7\text{Gf}$ ${}^8\text{Al}$ ${}^9\text{Sc}$

CASE NARRATIVE

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



Jordan Dozier
Project Manager

Report Revision History

Level II Report - Version 1: 12/12/24 13:43

Project Narrative

ID



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	123	C5 J4	0.548	1.00	1	12/01/2024 18:39	WG2410861
Acrylonitrile	U	J4	0.0760	0.500	1	12/01/2024 18:39	WG2410861
Benzene	0.0560		0.0160	0.0400	1	12/01/2024 18:39	WG2410861
Bromobenzene	U		0.0420	0.500	1	12/01/2024 18:39	WG2410861
Bromochloromethane	U		0.0452	0.200	1	12/01/2024 18:39	WG2410861
Bromodichloromethane	U		0.0315	0.100	1	12/01/2024 18:39	WG2410861
Bromoform	U		0.239	1.00	1	12/01/2024 18:39	WG2410861
Bromomethane	U		0.148	0.500	1	12/01/2024 18:39	WG2410861
n-Butylbenzene	U		0.153	0.500	1	12/01/2024 18:39	WG2410861
sec-Butylbenzene	U		0.101	0.500	1	12/01/2024 18:39	WG2410861
tert-Butylbenzene	U		0.0620	0.200	1	12/01/2024 18:39	WG2410861
Carbon disulfide	U		0.162	0.500	1	12/01/2024 18:39	WG2410861
Carbon tetrachloride	U		0.0432	0.200	1	12/01/2024 18:39	WG2410861
Chlorobenzene	U		0.0229	0.100	1	12/01/2024 18:39	WG2410861
Chlorodibromomethane	U		0.0180	0.100	1	12/01/2024 18:39	WG2410861
Chloroethane	U		0.0432	0.200	1	12/01/2024 18:39	WG2410861
Chloroform	0.0600	J	0.0166	0.100	1	12/01/2024 18:39	WG2410861
Chloromethane	U		0.0556	0.500	1	12/01/2024 18:39	WG2410861
2-Chlorotoluene	U		0.0368	0.100	1	12/01/2024 18:39	WG2410861
4-Chlorotoluene	U		0.0452	0.200	1	12/01/2024 18:39	WG2410861
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	12/01/2024 18:39	WG2410861
1,2-Dibromoethane	U		0.0210	0.100	1	12/01/2024 18:39	WG2410861
Dibromomethane	U		0.0400	0.200	1	12/01/2024 18:39	WG2410861
1,2-Dichlorobenzene	U		0.0580	0.200	1	12/01/2024 18:39	WG2410861
1,3-Dichlorobenzene	U		0.0680	0.200	1	12/01/2024 18:39	WG2410861
1,4-Dichlorobenzene	U		0.0788	0.200	1	12/01/2024 18:39	WG2410861
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	12/01/2024 18:39	WG2410861
Dichlorodifluoromethane	U		0.0327	0.200	1	12/01/2024 18:39	WG2410861
1,1-Dichloroethane	U		0.0230	0.100	1	12/01/2024 18:39	WG2410861
1,2-Dichloroethane	U		0.0190	0.100	1	12/01/2024 18:39	WG2410861
1,1-Dichloroethene	1.22		0.0200	0.100	1	12/01/2024 18:39	WG2410861
cis-1,2-Dichloroethene	646	Q	0.552	2.00	20	12/10/2024 20:37	WG2416004
trans-1,2-Dichloroethene	5.27		0.0572	0.200	1	12/01/2024 18:39	WG2410861
1,2-Dichloropropane	U		0.0508	0.200	1	12/01/2024 18:39	WG2410861
1,1-Dichloropropene	U		0.0280	0.100	1	12/01/2024 18:39	WG2410861
1,3-Dichloropropane	U		0.0700	0.200	1	12/01/2024 18:39	WG2410861
cis-1,3-Dichloropropene	U		0.0271	0.100	1	12/01/2024 18:39	WG2410861
trans-1,3-Dichloropropene	U		0.0612	0.200	1	12/01/2024 18:39	WG2410861
2,2-Dichloropropane	U	J4	0.0317	0.100	1	12/01/2024 18:39	WG2410861
Di-isopropyl ether	U		0.0140	0.0400	1	12/01/2024 18:39	WG2410861
Ethylbenzene	U		0.0212	0.100	1	12/01/2024 18:39	WG2410861
Hexachloro-1,3-butadiene	U		0.508	1.00	1	12/01/2024 18:39	WG2410861
2-Hexanone	U		0.400	1.00	1	12/01/2024 18:39	WG2410861
n-Hexane	U		0.0424	0.200	1	12/01/2024 18:39	WG2410861
Iodomethane	U		0.242	0.500	1	12/01/2024 18:39	WG2410861
Isopropylbenzene	U		0.0345	0.100	1	12/01/2024 18:39	WG2410861
p-Isopropyltoluene	U		0.0932	0.200	1	12/01/2024 18:39	WG2410861
2-Butanone (MEK)	U		0.500	1.00	1	12/01/2024 18:39	WG2410861
Methylene Chloride	U		0.265	1.00	1	12/01/2024 18:39	WG2410861
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	12/01/2024 18:39	WG2410861
Methyl tert-butyl ether	U		0.0118	0.0400	1	12/01/2024 18:39	WG2410861
Naphthalene	U	C3	0.124	0.500	1	12/01/2024 18:39	WG2410861
n-Propylbenzene	U		0.0472	0.200	1	12/01/2024 18:39	WG2410861
Styrene	U		0.109	0.500	1	12/01/2024 18:39	WG2410861
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	12/01/2024 18:39	WG2410861
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	12/01/2024 18:39	WG2410861

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	C3	0.0270	0.100	1	12/01/2024 18:39	WG2410861
Tetrachloroethene	0.153		0.0280	0.100	1	12/01/2024 18:39	WG2410861
Toluene	0.0870	J	0.0500	0.200	1	12/01/2024 18:39	WG2410861
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	12/01/2024 18:39	WG2410861
1,2,4-Trichlorobenzene	U		0.193	0.500	1	12/01/2024 18:39	WG2410861
1,1,1-Trichloroethane	U		0.0110	0.100	1	12/01/2024 18:39	WG2410861
1,1,2-Trichloroethane	U		0.0353	0.100	1	12/01/2024 18:39	WG2410861
Trichloroethene	0.662		0.0160	0.0400	1	12/01/2024 18:39	WG2410861
Trichlorofluoromethane	U		0.0200	0.100	1	12/01/2024 18:39	WG2410861
1,2,3-Trichloropropane	U		0.204	0.500	1	12/01/2024 18:39	WG2410861
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	12/01/2024 18:39	WG2410861
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	12/01/2024 18:39	WG2410861
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	12/01/2024 18:39	WG2410861
Vinyl acetate	U		0.141	0.500	1	12/01/2024 18:39	WG2410861
Vinyl chloride	148	Q	0.546	2.00	20	12/10/2024 20:37	WG2416004
Xylenes, Total	U		0.191	0.260	1	12/01/2024 18:39	WG2410861
(S) Toluene-d8	104			75.0-131		12/01/2024 18:39	WG2410861
(S) Toluene-d8	98.0			75.0-131		12/10/2024 20:37	WG2416004
(S) 4-Bromofluorobenzene	99.0			67.0-138		12/01/2024 18:39	WG2410861
(S) 4-Bromofluorobenzene	96.1			67.0-138		12/10/2024 20:37	WG2416004
(S) 1,2-Dichloroethane-d4	100			70.0-130		12/01/2024 18:39	WG2410861
(S) 1,2-Dichloroethane-d4	109			70.0-130		12/10/2024 20:37	WG2416004

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4155686-3 12/01/24 12:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromochloromethane	U		0.0452	0.200
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon disulfide	U		0.162	0.500
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.200
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4155686-3 12/01/24 12:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
2-Hexanone	U		0.400	1.00
n-Hexane	U		0.0424	0.200
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl acetate	U		0.141	0.500
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	104			75.0-131
(S) 4-Bromofluorobenzene	94.7			67.0-138
(S) 1,2-Dichloroethane-d4	96.6			70.0-130

1
Cp

2
Tc

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Ss

4
Cn

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Sr

6
Qc

7
Gl

8
Al

9
Sc

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

(LCS) R4155686-1 12/01/24 10:36 • (LCSD) R4155686-2 12/01/24 10:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	49.0	49.6	196	198	10.0-160	J4	J4	1.22	31
Acrylonitrile	25.0	39.1	38.5	156	154	45.0-153	J4	J4	1.55	22
Benzene	5.00	5.18	4.95	104	99.0	70.0-123			4.54	20
Bromobenzene	5.00	4.80	4.54	96.0	90.8	73.0-121			5.57	20
Bromochloromethane	5.00	5.27	5.16	105	103	77.0-128			2.11	20
Bromodichloromethane	5.00	5.09	4.95	102	99.0	73.0-121			2.79	20
Bromoform	5.00	5.48	5.34	110	107	64.0-132			2.59	20
Bromomethane	5.00	4.68	4.26	93.6	85.2	56.0-147			9.40	20
n-Butylbenzene	5.00	4.59	4.55	91.8	91.0	68.0-135			0.875	20
sec-Butylbenzene	5.00	4.78	4.65	95.6	93.0	74.0-130			2.76	20
tert-Butylbenzene	5.00	4.59	4.48	91.8	89.6	75.0-127			2.43	20
Carbon disulfide	5.00	5.09	4.79	102	95.8	56.0-133			6.07	20
Carbon tetrachloride	5.00	6.21	5.78	124	116	66.0-128			7.17	20
Chlorobenzene	5.00	4.95	4.67	99.0	93.4	76.0-128			5.82	20
Chlorodibromomethane	5.00	5.12	5.12	102	102	74.0-127			0.000	20
Chloroethane	5.00	5.16	4.86	103	97.2	61.0-134			5.99	20
Chloroform	5.00	5.14	4.93	103	98.6	72.0-123			4.17	20
Chloromethane	5.00	5.37	4.92	107	98.4	51.0-138			8.75	20
2-Chlorotoluene	5.00	4.80	4.60	96.0	92.0	75.0-124			4.26	20
4-Chlorotoluene	5.00	4.31	4.18	86.2	83.6	75.0-124			3.06	20
1,2-Dibromo-3-Chloropropane	5.00	5.94	5.54	119	111	59.0-130			6.97	20
1,2-Dibromoethane	5.00	4.96	4.93	99.2	98.6	74.0-128			0.607	20
Dibromomethane	5.00	5.43	5.15	109	103	75.0-122			5.29	20
1,2-Dichlorobenzene	5.00	4.60	4.42	92.0	88.4	76.0-124			3.99	20
1,3-Dichlorobenzene	5.00	4.43	4.44	88.6	88.8	76.0-125			0.225	20
1,4-Dichlorobenzene	5.00	4.33	4.42	86.6	88.4	77.0-121			2.06	20
trans-1,4-Dichloro-2-butene	5.00	3.96	4.42	79.2	88.4	45.0-143			11.0	20
Dichlorodifluoromethane	5.00	6.46	6.16	129	123	43.0-156			4.75	20
1,1-Dichloroethane	5.00	5.48	5.15	110	103	70.0-127			6.21	20
1,2-Dichloroethane	5.00	5.05	4.98	101	99.6	65.0-131			1.40	20
1,1-Dichloroethene	5.00	5.05	4.61	101	92.2	65.0-131			9.11	20
trans-1,2-Dichloroethene	5.00	5.23	4.97	105	99.4	71.0-125			5.10	20
1,2-Dichloropropane	5.00	5.34	5.09	107	102	74.0-125			4.79	20
1,1-Dichloropropene	5.00	5.39	5.29	108	106	73.0-125			1.87	20
1,3-Dichloropropane	5.00	5.00	4.80	100	96.0	80.0-125			4.08	20
cis-1,3-Dichloropropene	5.00	5.15	5.01	103	100	76.0-127			2.76	20
trans-1,3-Dichloropropene	5.00	5.10	4.98	102	99.6	73.0-127			2.38	20
2,2-Dichloropropane	5.00	7.14	6.74	143	135	59.0-135	J4		5.76	20
Di-isopropyl ether	5.00	5.22	5.07	104	101	60.0-136			2.92	20
Ethylbenzene	5.00	4.97	4.81	99.4	96.2	74.0-126			3.27	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4155686-1 12/01/24 10:36 • (LCSD) R4155686-2 12/01/24 10:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	4.95	4.56	99.0	91.2	57.0-150			8.20	20
2-Hexanone	25.0	27.9	28.0	112	112	54.0-147			0.358	20
n-Hexane	5.00	5.74	5.21	115	104	55.0-137			9.68	20
Iodomethane	25.0	25.1	23.9	100	95.6	74.0-134			4.90	20
Isopropylbenzene	5.00	4.76	4.64	95.2	92.8	72.0-127			2.55	20
p-Isopropyltoluene	5.00	4.65	4.51	93.0	90.2	72.0-133			3.06	20
2-Butanone (MEK)	25.0	29.1	28.1	116	112	30.0-160			3.50	24
Methylene Chloride	5.00	5.07	4.81	101	96.2	68.0-123			5.26	20
4-Methyl-2-pentanone (MIBK)	25.0	30.2	29.0	121	116	56.0-143			4.05	20
Methyl tert-butyl ether	5.00	5.44	5.24	109	105	66.0-132			3.75	20
Naphthalene	5.00	3.47	3.63	69.4	72.6	59.0-130			4.51	20
n-Propylbenzene	5.00	5.03	4.54	101	90.8	74.0-126			10.2	20
Styrene	5.00	4.63	4.49	92.6	89.8	72.0-127			3.07	20
1,1,1,2-Tetrachloroethane	5.00	5.65	5.40	113	108	74.0-129			4.52	20
1,1,2,2-Tetrachloroethane	5.00	5.47	5.31	109	106	68.0-128			2.97	20
1,1,2-Trichlorotrifluoroethane	5.00	3.74	3.42	74.8	68.4	61.0-139			8.94	20
Tetrachloroethene	5.00	5.30	5.06	106	101	70.0-136			4.63	20
Toluene	5.00	5.27	4.97	105	99.4	75.0-121			5.86	20
1,2,3-Trichlorobenzene	5.00	4.39	4.28	87.8	85.6	59.0-139			2.54	20
1,2,4-Trichlorobenzene	5.00	4.11	4.13	82.2	82.6	62.0-137			0.485	20
1,1,1-Trichloroethane	5.00	5.87	5.50	117	110	69.0-126			6.51	20
1,1,2-Trichloroethane	5.00	5.16	5.08	103	102	78.0-123			1.56	20
Trichloroethene	5.00	5.39	5.26	108	105	76.0-126			2.44	20
Trichlorofluoromethane	5.00	4.67	4.33	93.4	86.6	61.0-142	U	U	7.56	20
1,2,3-Trichloropropane	5.00	5.43	5.09	109	102	67.0-129			6.46	20
1,2,4-Trimethylbenzene	5.00	4.36	4.30	87.2	86.0	70.0-126			1.39	20
1,2,3-Trimethylbenzene	5.00	4.58	4.37	91.6	87.4	74.0-124			4.69	20
1,3,5-Trimethylbenzene	5.00	4.52	4.46	90.4	89.2	73.0-127			1.34	20
Vinyl acetate	25.0	33.5	33.0	134	132	43.0-159			1.50	20
Xylenes, Total	15.0	14.7	13.9	98.0	92.7	72.0-127			5.59	20
(S) Toluene-d8				103	104	75.0-131				
(S) 4-Bromofluorobenzene				96.3	96.2	67.0-138				
(S) 1,2-Dichloroethane-d4				98.2	100	70.0-130				

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

Method Blank (MB)

(MB) R4156335-2 12/10/24 10:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	96.6			75.0-131
(S) 4-Bromofluorobenzene	99.7			67.0-138
(S) 1,2-Dichloroethane-d4	116			70.0-130

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

(LCS) R4156335-1 12/10/24 09:33 • (LCSD) R4156335-3 12/10/24 21:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	5.00	5.72	5.16	114	103	73.0-125			10.3	20
Vinyl chloride	5.00	4.52	4.19	90.4	83.8	63.0-134			7.58	20
(S) Toluene-d8				96.8	96.8	75.0-131				
(S) 4-Bromofluorobenzene				103	97.4	67.0-138				
(S) 1,2-Dichloroethane-d4				118	115	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

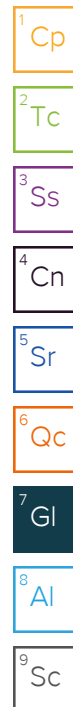
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.



ACCREDITATIONS & LOCATIONS

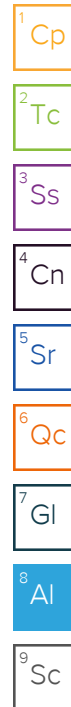
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



L1803250-02 separate SDG

R2/R3/R4/RX/EX

Can you please log sample "IDW-112124" onto its own SDG? Asking client for an updated COC for it as well.

L1803250-02

Time estimate: oh

Time spent: oh

Members

JD Jordan Dozier

DVR Memos

MEMORANDUM

TO: Project File **DATE:** January 8, 2025

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 443022-1413001.10.701.02

TASK: EIM Data Validation Level EPA2A – Q4 2024 Group 1 - American Linen Monitoring Wells

LAB: Pace Sample Delivery Groups (SDGs): L1796048, L1706865, L1797459, L1797476, and L1797923

Forty-nine groundwater samples (including three field duplicates) and three trip blanks were collected November 5-8, 2024, from monitoring wells associated with Q4 monitoring on the American Linen Site in Seattle, WA. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Select samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260D
- VOCs (dissolved gases – methane, ethane, and ethene) by EPA SOP RSK 175
- Alkalinity by Standard Method (SM) 2320 B-2011
- Anions (chloride, nitrate, and sulfate) by USEPA Method 9056A
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020B

Fourth quarter analytical results are reported in sixteen SDGs and were validated in three groups. Group 1 consists of five SDGs (L1796048, L1706865, L1797459, L1797476, and L1797923). The quality assurance review of the laboratory data associated with Group 1 is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria and professional judgement were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020) and USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

The samples were collected and analyzed as requested with the following discussions:

- SDG L1796048: Review of chain of custody shows that samples MW124-11052024 and MW125-11052024 were corrected to read MW124-110524 and MW125-110524 per NV5 request on 11/20/2024.
- SDG L1796048: Five samples (MW-330-11052024, MW-301-11052024, MW-189-11052024, MW-156-11052024, and MW-158A-11052024) were identified incorrectly and should be identified as MW-330-110524, MW-301-110524, MW-189-110524, MW-156-110524, and MW-158A-110524. Pace reissued the SDG with requested corrections per NV5 request on 12/13/2024.
- SDG L1796048: Review of chain of custody shows that date and method of sampling was not indicated for seven samples. No action is taken other than to note that sample labels include the sampling dates. Cross outs for the first four rows of the chain of custody are not initialed and dated.
- SDGs L1796865: Review of the chain of custody indicates that sample MW-159-110524 time of collection was not recorded. NV5 reviewed field documentation and indicated that the sample MW-159-110524 was collected at 16:02 on 11/05/24. Samples MW-190-110625, MW-102-110625, MW-319-110625, MW-318-110625, MW-317-110625, MW-116-110625, MW-322-110625, MW-142-110625 and MW-143-110625 were corrected to read MW-190-110624, MW-102-110624, MW-319-110624, MW-318-110624, MW-317-110624, MW-116-110624, MW-322-110624, MW-142-110624 and MW-143-110624. Pace reissued the SDG with requested corrections per NV5 requests on 12/13/2024 and 12/18/2024.
- SDGs L1797459: Review of the case narrative indicates that sample MW-334-110724 submitted for VOC analysis by USEPA 8260D was not adequately preserved. Refer to the sections on Sample Collection and Preservation and Holding Times.
- SDG L1797459: Review of the chain of custody indicates that sample MW-120-110724 should read MW120-110724. Pace reissued the SDG with requested correction per NV5 request on 11/21/2024.
- SDG L1797923: Review of the chain of custody indicates that samples MW160-110824 and MW-996-110824 were corrected by NV5 to read MW-160-110824 and MW996-110824 on 11/25/2024.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by

courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation of 6°C. The samples were received in good condition. No data are qualified based upon the sample collection and preservation information with the following exception:

- SDG L1797459: Sample MW-334-110724 was not preserved to a pH of < 2 for VOCs by USEPA Method 8260D and holding time of seven days for an unpreserved sample was exceeded by one day. Refer to the section on Holding Time for qualification.

Holding Times

USEPA Method 8260D:

The samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved water samples from the date of collection. All holding time criteria are met with the following exceptions:

- SDG L1797476: Samples MW-146-110724 and MW-994-110724 were analyzed for vinyl chloride two days past the fourteen-day holding time and are laboratory qualified (Q). **Sample MW-146-110724 and MW-994-110724 vinyl chloride results are estimated (J) due to holding time exceedance.**
- SDG L1797459: Sample MW-334-110724 was not preserved to a pH of < 2 and holding time of seven days was exceeded by one day. **Sample MW-334-110724 VOC results are estimated and qualified (J/UJ) due to holding time exceedance.**

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

The samples were analyzed within the WA State recommended holding time of fourteen days for preserved water samples from the date of sample collection. All holding time criteria are met.

USEPA Method 6020B

The samples were analyzed within the USEPA recommended holding time for metals (180 days), for the preserved water samples from the date of sample collection.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

The samples were analyzed within the USEPA recommended holding time for alkalinity (14 days) chloride (28 days), sulfate (28 days), nitrate (48 hours), and TOC (28 days) for the preserved water samples from the date of sample collection. All holding time criteria are met.

Initial and Continuing Calibration

USEPA Method 8260D (VOCs):

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. Pace indicated within the laboratory report that continuing calibration verification (CCV) criteria for were not met for the following:

- Multiple SDGs: *USEPA Method 8260D* - Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches in each SDG. These compounds are qualified by the laboratory “C3” to indicate that percent difference CCVs are below laboratory acceptance criteria and may be showing potential low bias. **Associated sample results with laboratory qualified (C3) results are estimated with potential low bias and qualified (J-/UJ). Results reported below the RDL are estimated (J) and directional bias are not assigned.**
- Multiple SDGs: *USEPA Method 8260D* - Continuing calibration verification (CCV) issues were noted by Pace for several compounds. These compounds are qualified by the laboratory “C5” to indicate that percent difference CCVs are above laboratory acceptance criteria and may be showing potential high bias. **Associated sample results (detects) with laboratory qualified (C5) results are estimated with potential high bias and qualified (J+).**

Method Blank Results

USEPA Method 8260D:

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1796048 – Analytical batch WG2399074: Acetone is detected in the method blank at 0.792 µg/L and below the RDL (1.00 µg/L). Acetone was also detected in the trip blank at 13.0 µg/L. The highest acetone detection was used to evaluate the associated results. Refer to the section on Trip Blank Results for actions taken due to acetone detections.
- SDG L1796048 – Analytical batch WG2400372: 1,2-Dichloroethane is detected in the method blank at 0.0230 µg/L and below the RDL (0.100 µg/L). No action is needed since 1,2-dichloroethane is not detected in the associated samples.
- SDG L1796865 - Analytical batch WG2400372: 1,2-Dichloroethane is detected in the method blank at 0.0230 µg/L and below the RDL (0.100 µg/L). No action is needed since 1,2-dichloroethane is either not detected or detected above the RDL in the associated samples.
- SDG L1796865 - Analytical batch WG2400912: cis-1,2-Dichloroethene is detected in the method blank at 0.0280 µg/L and below the RDL (0.100 µg/L). No action is needed since cis-1,2-dichloroethene is detected above the RDL in the associated sample (MW-159-11524).
- SDG L1797459 - Analytical batch WG2400372: 1,2-Dichloroethane is detected in the method blank at 0.0230 µg/L and below the RDL (0.100 µg/L). No action is needed since 1,2-dichloroethane is not detected in the associated samples.

- SDG L1797923 - Analytical batch WG2402769: Carbon disulfide and chloroform were detected in the method blank below their respective RDLs. Carbon disulfide was also detected in the trip blank at the same concentration. **Carbon disulfide detections in samples MW111-110824, MW-160-110824, MW107-110824, MW104-110824, MW-161-110824, MW996-110824, MW-307-110824, R-MW6-110824, and W-MW-01-110824 are detected below the RDL and are qualified as not detected (U) due to method and/or trip blank contamination.** For chloroform, no action is needed since chloroform is either not detected or detected above the RDL in associated sample (W-MW-01-110824)

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs with the following exception:

- SDG L1797923 - Analytical batch WG2401030: Methane was detected in the method blank at 4.73 µg/L and above the RDL of 0.678 µg/L. No action is needed since methane detections in the associated samples (MW107-110824 and W-MW-01-110824) are significantly greater than the method blank (> 10X the method blank).

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC) and Metals (Iron and Manganese):

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks with the following exceptions:

- SDG L1796865 - Analytical batch WG2397513: Sulfate was detected in the method blank at 2670 ug/L and below the RDL of 5000 ug/L. **Sample MW-142-110625 and MW-143-110625 sulfate detections are qualified as not detected (U) due to blank contamination.**

Trip Blank Results

USEPA Method 8260D:

Three trip blanks (TB-110524, TB-110724, and TB-110824) and were collected and submitted for analysis. One trip blank TB-110724 was placed on hold. The target analytes are not detected in the trip blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1796048 – Analytical batch WG2399074: Acetone is detected in the trip blank (TB-110524 associated with SDG L1796048) at 13.0 µg/L and above the RDL (1.00 µg/L). Acetone is also detected at a low level in the method blank at 0.792 µg/L. The highest acetone detection was used to evaluate the associated results. **Acetone, a common laboratory contaminant, was detected below the established action level (2 x 13 µg/L) in samples MW-330-11052024, MW-301-11052024, MW124-110524, MW125-110524, and MW-189-11052024. Acetone detections in these samples are qualified as not detected (U) due to trip blank contamination.**

- SDG L1796048 – Analytical batch WG2399074: Toluene is detected in the trip blank (TB-110524 associated with SDG L1796048) below the RDL (0.200 µg/L). **Toluene is detections in samples MW-156-11052024 and MW-158A-11052024 are qualified as not detected (U) due to trip blank contamination.**
- SDG L1797923 – Analytical batch WG2402769: Acetone is detected in the trip blank (TB-110824) at 15.8 µg/L and above the RDL (1.00 µg/L). No action is needed since acetone was either not detected or detected above the established action criteria (31.6 µg/L) in the associated samples.
- SDG L1797923 – Analytical batch WG2402769: Carbon disulfide is detected in the trip blank (TB-110824) at 0.365 µg/L and below the RDL (0.500 µg/L). Carbon disulfide was also detected at the same concentration 0.365 µg/L in the method blank. **Carbon disulfide detections in samples MW111-110824, MW-160-110824, MW107-110824, MW104-110824, MW-161-110824, MW996-110824, MW-307-110824, R-MW6-110824, and W-MW-01-110824 are detected below the RDL and are qualified as not detected (U) due to method and/or trip blank contamination.**
- SDG L1797923 – Analytical batch WG2402769: cis-1,2-Dichloroethene is detected in the trip blank (TB-110824) at 0.0290 µg/L and below the RDL (0.100 µg/L). **cis-1,2-Dichloroethene detection in sample MW-307-110824 and is qualified as not detected (U) due to trip blank contamination.**
- SDG L1797923 – Analytical batch WG2402769: Trichloroethene is detected in the trip blank (TB-110824) at 0.0630 µg/L and below the RDL (0.0400 µg/L). **Trichloroethene detection in sample W-MW-01-110824 and is qualified as not detected (U) due to trip blank contamination.**

Field, Rinsate, or Equipment Blank Results

All Analytical Methods:

One equipment blank (EB-110724 is associated with SDG L1797476) was collected and is associated with sample MW-146-110724 and field duplicate MW-994-110724.

Low levels of chloride, sulfate, manganese, dissolved gas (methane), and VOC compounds (chloroform and cis-1,2-dichloroethene) are detected in the equipment blank. No action is needed since associated sample and field duplicate results for these targets are either not detected or detected significantly greater than the associated sample results.

Field Duplicate Analyses

Three field duplicate pairs were submitted and analyzed as follows:

- SDG L1797476: Sample MW-153-110724 and field duplicate sample MW-995-110724 target analyte VOC results are comparable and within a relative percent difference (RPD) of 30% ($\pm 1 \times$ RDL for groundwater results $< 5 \times$ the RDL) for the field duplicate pair.

- SDG L1797476: Sample MW-146-110724 and field duplicate sample MW-994-110724 target analyte results (alkalinity, anions, TOC, metals, dissolved gases, and VOCs) are comparable and within a relative percent difference (RPD) of 30% (± 1 x RDL for groundwater results <5X the RDL) for the field duplicate pair except for TOC. **Field duplicate pair (MW-146-110724 and MW-994-110724) results for TOC are qualified as estimated (J) due to high RPD.**
- SDG L1797923: Sample MW-161-110824 and field duplicate sample MW996-110824 target analyte VOC results are comparable and within a relative percent difference (RPD) of 30% (± 1 x RDL for groundwater results <5X the RDL) for the field duplicate pair.

Laboratory Duplicate Analyses

USEPA Method 8260D:

Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control RPD limits or ± 1 x RDL for groundwater results <5X the RDL.

USEPA Method 6020B:

Laboratory duplicate samples were not analyzed. Refer to MS/MSD results for precision data.

Surrogate Recoveries

USEPA Method 8260D:

The surrogate percent recovery results for the samples, laboratory control samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

Laboratory Control Samples

USEPA Method 8260D:

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260D method. The LCS % Rs or LCS/LCSD % Rs and RPDs for all target compounds are within the laboratory control criteria for waters with the following exceptions:

- SDG L1796048 – Analytical batch WG2399074: LCSD recovery for acrylonitrile is above laboratory QC criteria and laboratory qualified (J4). No action is needed since acrylonitrile is not detected in the associated samples.

- SDG L1796048 – Analytical batch WG2399074: LCS/LCSD RPD for 1,2,4-trichlorobenzene exceeds laboratory QC criteria and is laboratory qualified (J3). No action is taken on this basis since LCS/LCSD % Rs are within the criteria.
- SDG L1796048 – Analytical batch WG2400357: LCS recovery for acetone is above laboratory QC criteria and laboratory qualified (J4). Acetone is not detected in the associated sample (MW-156-11052024) and no action is needed.
- SDG L1796048 – Analytical batch WG2400357: LCS/LCSD RPDs for 2-butanone (MEK) and 1,2,3-trichlorobenzene exceed laboratory QC criteria and are laboratory qualified (J3). No action is taken since LCS/LCSD % Rs are within criteria.
- SDG L1796048 – Analytical batch WG2400372: LCS/LCSD RPDs for bromomethane, chloroethane, trans-1,4-dichloro-2-butene, and trichlorofluoromethane exceed laboratory QC criteria and are laboratory qualified (J3). No action is taken for bromomethane, trans-1,4-dichloro-2-butene, and trichlorofluoromethane since LCS/LCSD % Rs are within criteria. LCS recovery for chloroform is below laboratory QC criteria and laboratory qualified (J4). The chloroethane result is estimated and qualified (UJ) due to a low LCS % R and a high RPD. The associated sample (MW-158A-11052024) chloroethane result is already estimated and qualified (UJ) due to Initial and Continuing Calibration Results. Refer to this section for additional information.
- SDG L1796048 – Analytical batch WG2400372: LCSD recoveries for acetone and methylene chloride are above laboratory QC criteria and laboratory qualified (J4). No action is needed since acetone and methylene chloride are not detected in the associated sample MW-158A-11052024.
- SDG L1796865 - Analytical batch WG2400372: LCS/LCSD RPDs for bromomethane, chloroethane, trans-1,4-dichloro-2-butene, and trichlorofluoromethane exceed laboratory QC criteria and are laboratory qualified (J3). No action is taken for bromomethane, trans-1,4-dichloro-2-butene and trichlorofluoromethane since LCS/LCSD % Rs are within criteria. Chloroethane results are estimated and qualified (UJ) due to a low LCS % R and a high RPD. The associated sample chloroethane results are already estimated due to Initial and Continuing Calibration Results. Refer to this section for additional information.
- SDG L1797459 – Analytical batch WG2400372: LCS/LCSD RPDs for bromomethane, chloroethane, trans-1,4-dichloro-2-butene, and trichlorofluoromethane exceed laboratory QC criteria and are laboratory qualified (J3). No action is taken for bromomethane, trans-1,4-dichloro-2-butene and trichlorofluoromethane since LCS/LCSD % Rs are within criteria. Chloroethane results are estimated and qualified (UJ/J) due to low LCS % R and high RPD. The associated sample chloroethane results are already estimated due to Initial and Continuing Calibration Results. Refer to this section for additional information.
- SDG L1797459 – Analytical batch WG2402109: LCS/LCSD recoveries for acetone are above laboratory QC criteria and laboratory qualified (J4). No action is taken on this

basis since acetone results are either not detected or are already qualified as estimated due to Initial and Continuing Calibration Results. Refer to this section for additional information.

- SDG L1797476 – Analytical batch WG2402109: LCS/LCSD recoveries for acetone are above laboratory QC criteria and laboratory qualified (J4). No action is taken on this basis since acetone results are either not detected or are already qualified as estimated due to Initial and Continuing Calibration Results. Refer to this section for additional information.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

The LCS/LCSD % Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020B:

The LCS % Rs for metals (iron and manganese) are within laboratory control limit criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

The LCS % Rs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260D:

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to laboratory control sample results for precision and accuracy results.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

MS/MSD analyses were performed on a non-client sample within the analytical batches. Refer to laboratory control sample results for accuracy results. Refer to field duplicate results for precision data.

USEPA Method 6020B

MS/MSD analyses were performed on non-client samples within one of the analytical batches. Refer to laboratory control sample results for accuracy results. Refer to field duplicate results for precision data.

General Chemistry (Chloride, Sulfate, Nitrate, and TOC):

MS or MS/MSD analyses were performed on client and/or on non-client samples within the analytical batches. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following exception:

- SDG L1797476: Chloride MS analysis was performed on sample MW-147-110724 with a low MS recovery for chloride. **Sample MW-147-110724 chloride result is estimated and qualified (J) due to low spike recovery.**

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussions:

- Electronic data deliverables (EDDs) for the SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy but the associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.
- Multiple SDGs: Sample narratives for alkalinity results indicate that sample containers had some headspace. No action was taken other than to note this.

Compound Identification and Quantitation Limits

Results of the analyses are reported based on laboratory RDLs for all compounds. RDLs for all targets or selected compounds are elevated in several samples due to method-required dilutions. Per NV5's request the associated EDDs show result reporting limits (also known as reported detection limit (RDL) or practical quantitation limit (PQL)) and result detection limits (also referred to as method detection limit (MDL)) instead of defaulting to the RDL when reporting the MDL.

Chloride, nitrate, and sulfate MDLs by USEPA Method 9056A were updated by Pace in the spring of 2024. RDLs for these target analytes were not modified when the MDLs were updated.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

MEMORANDUM

TO: Project File **DATE:** January 8, 2025

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 443022-1413001.10.701.02

TASK: EIM Data Validation Level EPA2A – Q4 2024 Group 3 - American Linen Monitoring Wells

LAB: Pace Sample Delivery Groups (SDGs): L1801569, L1802011, L1802018, L1803250, L1803400, and L1804238

Seventeen groundwater samples (including two field duplicates), four equipment blanks, and two trip blanks were collected November 18-19 and 21-22, 2024, from monitoring wells associated with Q4 monitoring on the American Linen Site in Seattle, WA. One investigation derived waste (IDW) sample (basement purge and de-contamination water) was collected from the Site on November 21, 2024. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Select samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260D
- VOCs (dissolved gases – methane, ethane, and ethene) by EPA SOP RSK 175
- Alkalinity by Standard Method (SM) 2320 B-2011
- Anions (chloride, nitrate, and sulfate) by USEPA Method 9056A
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020B

Fourth quarter analytical results are reported in fifteen SDGs and were validated in three groups. The IDW sample was submitted in a separate SDG (SDG L1804238) and evaluated with Group 3 analytical data. Group 3 consists of six SDGs (L1801569, L1802011, L1802018, L1803250, L1803400, and L1804238). The quality assurance review of the laboratory data associated with Group 3 is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria and professional judgement were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020) and USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020). Following Guidelines, non-project-

specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

The samples were collected and analyzed as requested with the following discussions:

- SDGs L1801569, L1802011, and L1802018: Review of chain of custody shows that chloride, nitrate, and alkalinity were added to the Chain of Custody sample analysis request for selected samples and the equipment blanks on 11/21/2024.
- SDG L1803250: Review of the chain of custody shows that the IDW sample (IDW-112124) results are not reported with SDG L1803250. Sample IDW-112124 was logged separately with SDG L1804238 per NV5 request on 11/27/2024. Refer to SDG L1804238 for communications regarding the IDW sample.
- SDG L1802011: Review of the chain of custody shows that four samples (including a field duplicate) and one equipment blank are crossed out however corrections are not dated. These four samples and one equipment blank are included on chain of custody associated with SDG L1802018.
- SDG L1801569: Review of the case narrative indicates that sample MW-173-111824 submitted for TOC analysis by USEPA 9060A was not adequately preserved. Refer to the section on Sample Collection and Preservation and Holding Times for discussion and qualification.
- SDG L1804238: Sample IDW-112124 associated with SDG L1803250 was logged separately with SDG L1804238 per NV5 request on 11/27/2024. Review of the chain of custody shows that sample IDW-112124 collection time was incorrectly listed at 13:50. Pace revised the sample collection time to read 14:30 per NV5 request and reissued the report on 12/12/2024.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation of 6°C. The samples were received in good condition. No data are qualified based upon the sample collection and preservation information with the following exception:

- SDG L1801569: Case narrative notes indicate that sample MW-173-111824 submitted for TOC analysis by USEPA Method 9060A was not preserved to a pH of less than 2. **The TOC result for sample MW-173-111824 is estimated and qualified (J) because the sample was not adequately preserved.**

Holding Times

USEPA Method 8260D:

The samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved water samples from the date of collection. All holding time criteria are met with the following exception:

- SDG L1804238: SDG L1797476: IDW sample (IDW-112124) was analyzed for cis-1,2-dichloroethene and vinyl chloride five days past the fourteen-day holding time and results are laboratory qualified (Q). **IDW sample (IDW-112124) results for cis-1,2-dichloroethene and vinyl chloride are estimated (J) due to holding time exceedance.**

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

The samples were analyzed within the WA State recommended holding time of fourteen days for preserved water samples from the date of sample collection. All holding time criteria are met.

USEPA Method 6020B

The samples were analyzed within the USEPA recommended holding time for metals (180 days), for the preserved water samples from the date of sample collection.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

The samples were analyzed within the USEPA recommended holding time for alkalinity (14 days) chloride (28 days), sulfate (28 days), nitrate (48 hours), and TOC (28 days) for the preserved water samples from the date of sample collection. All holding time criteria are met with the following exceptions:

- SDG L1801569: Nitrate analysis by USEPA Method 9056A were performed on samples five days past the recommended hold time of 48 hours. **All associated nitrate results (samples MW-173-111824, MW-174-111824, MW-175-111824, MW-176-111824, MW-166-111824, and associated equipment blanks EQ1-111824 and EQ2-111824) are rejected (R) due to gross holding time exceedance.**
- SDG L1802011: Nitrate analysis by USEPA Method 9056A were performed on samples four days past the recommended hold time of 48 hours. **All nitrate results (samples MW-168-111924, MW-165-111924, MW-167-111924, MW-999-111924, and MW-185-111924) are rejected (R) due to gross holding time exceedance.**
- SDG L1802018: Nitrate analysis by USEPA Method 9056A were performed on samples 30-32 hours past the recommended hold time of 48 hours. Review of historical data shows that nitrate results for this round are consistent with historical data for samples MW-187-111924, MW-186-111924, and MW-188-111924. **All nitrate results (samples MW-187-111924, MW-186-111924, MW-188-111924, MW-1000-111924, and EQ-111924) are estimated and qualified (UJ) due to holding time exceedance.**

Initial and Continuing Calibration

USEPA Method 8260D (VOCs):

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. Pace indicated within the laboratory report that continuing calibration verification (CCV) criteria for were not met for the following:

- Multiple SDGs: *USEPA Method 8260D* - Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches in each SDG. These compounds are qualified by the laboratory “C3” to indicate that percent difference CCVs are below laboratory acceptance criteria and may be showing potential low bias. **Associated sample results with laboratory qualified (C3) results are estimated with potential low bias and qualified (J-/UJ). Results reported below the RDL are estimated (J) and directional bias are not assigned.**
- Multiple SDGs: *USEPA Method 8260D* - Continuing calibration verification (CCV) issues were noted by Pace for several compounds. These compounds are qualified by the laboratory “C5” to indicate that percent difference CCVs are above laboratory acceptance criteria and may be showing potential high bias. **Associated sample results (detects) with laboratory qualified (C5) results are estimated with potential high bias and qualified (J+).**

Method Blank Results

USEPA Method 8260D:

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1801569 – Analytical batch WG2408490: Vinyl chloride is detected in the method blank at 0.103 µg/L and above the RDL (0.100 µg/L). No action is taken since vinyl chloride is either not detected or detected above the blank detection in the associated samples.
- SDG L1802011 – Analytical batch WG2408490: Vinyl chloride is detected in the method blank at 0.103 µg/L and above the RDL (0.100 µg/L). No action is taken since vinyl chloride is either not detected or detected above the blank detection in the associated samples.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC) and Metals (Iron and Manganese):

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks.

Trip Blank Results

USEPA Method 8260D:

Two trip blanks (TB-111824 and TB-111924) and were collected and delivered to the laboratory. One trip blank (TB-111824 associated with SDG L1801569) was placed on hold. The target analytes are not detected in the trip blank (TB-111924) at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1802018 – Analytical batch WG2408490: Acetone is detected in the trip blank (TB-111924) at 16.4 µg/L and above the RDL (1.00 µg/L). No action is needed since acetone is not detected in the associated samples.
- SDG L1802018 – Analytical batch WG2408490: Toluene is detected in the trip blank (TB-111924) at 0.0900 µg/L and below the RDL (0.200 µg/L). **The toluene detection in sample MW-186-111924 is qualified as not detected (U) due to trip blank contamination.**

Field, Rinsate, or Equipment Blank Results

Select Analytical Methods:

Four equipment blanks (EQ1-111824, EQ2-111824, EQ-111924, and EQ-112124) were collected and are associated with SDGs L1801569, L1802018, and L1803250. The target analytes are not detected in the equipment blank at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1801569: The equipment blank (EQ1-111824) was analyzed for multiple analytes (alkalinity, anions, TOC, metals, dissolved gases, and VOCs). Low levels of manganese and VOC compounds (carbon disulfide and chloroform) are detected in the equipment blank (EQ1-111824). No action is needed since associated sample (MW-173-111824, MW-174-111824, MW-175-111824, MW-176-111824, and MW-166-111824) results are either not detected (VOCs) or are detected (manganese) significantly greater than the RDL.
- SDG L1801569: The equipment blank (EQ2-111824) was analyzed for multiple analytes (alkalinity, anions, TOC, metals, dissolved gases, and VOCs). A VOC compound (chloroform) is detected in equipment blank (EQ2-111824). No action is needed since chloroform is not detected in associated samples (MW-173-111824, MW-174-111824, MW-175-111824, MW-176-111824, and MW-166-111824).
- SDG L1802018: The equipment blank (EQ-111924) was analyzed for multiple analytes (alkalinity, anions, TOC, metals, dissolved gases, and VOCs). A VOC compound (chloroform) is detected in equipment blank (EQ-111924). No action is needed since chloroform is not detected in associated samples (MW-187-111924, MW-186-111924, MW-188-111924, and MW-1000-111924).
- SDG L1803250: The equipment blank (EQ-112124) was analyzed VOCs. Low levels VOC compounds (acetone and chloroform) are detected in equipment blank (EQ-

112124). No action was needed for chloroform as it is not detected in the associated sample (MW-345-112124). Acetone was detected at 2.27 µg/L, above the RDL (1.00 µg/L) in the equipment blank, and detected in sample MW-345-112124 at 1.55 µg/L. **Per Guidance, the acetone result in sample MW-345-112124 is qualified as not detected (U) due to equipment blank contamination.**

Field Duplicate Analyses

Two field duplicate pairs were submitted and analyzed as follows:

- SDG L1802011: Sample MW-168-111924 and field duplicate sample MW-999-111924 target analyte results (alkalinity, anions, TOC, metals, dissolved gases, and VOCs) are comparable and within a relative percent difference (RPD) of 30% ($\pm 1 \times$ RDL for groundwater results $< 5 \times$ the RDL) for the field duplicate pair except for ethylene and iron results. **Field duplicate pair (MW-168-111924 and MW-999-111924) results for ethylene (also referred to as ethene) and iron results are qualified as estimated (J) due to either a high RPD or the sample and field duplicate results are less than 5X the RDL and the absolute difference is greater than the RDL.**

SDG L1802018: Sample MW-188-111924 and field duplicate sample MW-1000-111924 target analyte results (alkalinity, anions, TOC, metals, dissolved gases, and VOCs) are comparable and within a relative percent difference (RPD) of 30% ($\pm 1 \times$ RDL for groundwater results $< 5 \times$ the RDL) for the field duplicate pair except for one VOC result tetrachloroethene. **Field duplicate pair (MW-188-111924 and MW-1000-111924) results for tetrachloroethene are qualified as estimated (J) because the sample and field duplicate results are less than 5X the RDL and the absolute difference is greater than the RDL.**

Laboratory Duplicate Analyses

USEPA Method 8260D:

Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control RPD limits or $\pm 1 \times$ RDL for groundwater results $< 5 \times$ the RDL.

USEPA Method 6020B:

Laboratory duplicate samples were not analyzed. Refer to MS/MSD results for precision data.

Surrogate Recoveries

USEPA Method 8260D:

The surrogate percent recovery results for the samples, laboratory control samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

Laboratory Control Samples

USEPA Method 8260D:

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260D method. The LCS % Rs or LCS/LCSD % Rs and RPDs for all target compounds are within the laboratory control criteria for waters with the following exceptions:

- SDGs L1801569, L1802011, and L1802018 – Analytical batch WG2408490: LCS/LCSD RPDs for acetone, acrylonitrile, and methylene chloride exceed laboratory QC criteria and are laboratory qualified (J3). No action is taken for acetone, acrylonitrile, and methylene chloride since LCS/LCSD % Rs are within criteria. LCS/LCSD recoveries for chloromethane are above laboratory QC criteria and laboratory qualified (J4). No action is needed since chloromethane is not detected in the associated samples.
- SDGs L1803250 – Analytical batch WG2410861: LCS/LCSD recoveries for acetone and acrylonitrile are above laboratory QC criteria and laboratory qualified (J4). No action is taken on this basis since the acetone result in the associated sample (MW-345-112124) is qualified as not detected (U) due to equipment blank contamination. No action is needed for acrylonitrile as it is not detected in the associated sample. LCS recovery for 2,2-dichloropropane exceeds laboratory QC criteria and is laboratory qualified (J4). No action is needed since 2,2-dichloropropane is not detected in the associated sample.
- SDG L1803400 – Analytical batch WG2410861: LCS/LCSD recoveries for acetone and acrylonitrile are above laboratory QC criteria and laboratory qualified (J4). No action is taken for acetone in the associated sample MW-342-112224 as acetone is not detected. No action is needed for acetone detection in sample MW-343-112224 as acetone is already estimated due to Initial and Continuing Calibration Results. Refer to this section for additional information. No action is taken for acrylonitrile since it is not detected in either sample. LCS recovery for 2,2-dichloropropane exceeds laboratory QC criteria and is laboratory qualified (J4). No action is needed since 2,2-dichloropropane is not detected in the associated samples.
- SDG L1804238 – Analytical batch WG2410861: LCS/LCSD recoveries for acetone and acrylonitrile are above laboratory QC criteria and laboratory qualified (J4). No action is taken for acetone in sample IDW-112124 as it is already estimated due to Initial and Continuing Calibration Results. Refer to this section for additional information. No action is taken for acrylonitrile since it is not detected in the sample. LCS recovery for 2,2-dichloropropane exceeds laboratory QC criteria and is laboratory qualified (J4). No action is needed since 2,2-dichloropropane is not detected in the sample.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

The LCS/LCSD % Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020B:

The LCS % Rs for metals (iron and manganese) are within laboratory control limit criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

The LCS % Rs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260D:

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to laboratory control sample results for precision and accuracy results.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

MS/MSD analyses were performed on a non-client sample within the analytical batches. Refer to laboratory control sample results for accuracy results. Refer to field duplicate results for precision data.

USEPA Method 6020B

MS/MSD analyses were performed on non-client samples within one of the analytical batches. Refer to laboratory control sample results for accuracy results. Refer to field duplicate results for precision data.

General Chemistry (Chloride, Sulfate, Nitrate, and TOC):

MS or MS/MSD analyses were performed on client and/or on non-client samples within the analytical batches. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following exceptions:

- SDG L1801569: Chloride MS analysis was performed on sample MW-176-111824 with low MS/MSD recoveries for chloride. **Sample MW-176-111824 chloride result is estimated and qualified (J-) due to low MS/MSD recoveries.**
- SDG L1801569: Chloride MS analysis was performed on sample MW-166-111824 with a low MS recovery for chloride. **Sample MW-166-111824 chloride result is estimated and qualified (J) due to low MS recovery.**
- SDG L1801569: TOC MS/MSD analyses by USEPA Method 9060A were performed on sample MW-174-111824. TOC MS/MSD results exceed the linear calibration range and are laboratory qualified (E). No action is taken since the parent sample (MW-174-111824) TOC result is within the calibration range.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussions:

- Electronic data deliverables (EDDs) for the SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy but the associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.
- Multiple SDGs: Sample narratives for alkalinity results indicate that sample containers had some headspace. No action was taken other than to note this.

Compound Identification and Quantitation Limits

Results of the analyses are reported based on laboratory RDLs for all compounds. RDLs for all targets or selected compounds are elevated in several samples due to method-required dilutions. Per NV5's request the associated EDDs show result reporting limits (also known as reported detection limit (RDL) or practical quantitation limit (PQL)) and result detection limits (also referred to as method detection limit (MDL)) instead of defaulting to the RDL when reporting the MDL.

Chloride, nitrate, and sulfate MDLs by USEPA Method 9056A were updated by Pace in the spring of 2024. RDLs for these target analytes were not modified when the MDLs were updated.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use with the following exceptions:

- SDG L1801569: **All nitrate results (groundwater samples MW-173-111824, MW-174-111824, MW-175-111824, MW-176-111824, and MW-166-111824) are rejected (R) due to gross holding time exceedance.**
- SDG L1802011: **All nitrate results (groundwater samples MW-168-111924, MW-165-111924, MW-167-111924, MW-999-111924, and MW-185-111924) are rejected (R) due to gross holding time exceedance.**

MEMORANDUM

TO: Project File **DATE:** January 8, 2025

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 443022-1413001.10.701.02

TASK: EIM Data Validation Level EPA2A – Q4 2024 Group 2 - American Linen Monitoring Wells

LAB: Pace Sample Delivery Groups (SDGs): L1798511, L1799093, L1799514, L1800138, and L1800716

Fifty-five groundwater samples (including two field duplicates), four trip blanks, and two equipment blanks were collected November 11-15, 2024, from monitoring wells associated with Q4 monitoring on the American Linen Site in Seattle, WA. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Select samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260D
- VOCs (dissolved gases – methane, ethane, and ethene) by EPA SOP RSK 175
- Alkalinity by Standard Method (SM) 2320 B-2011
- Anions (chloride, nitrate, and sulfate) by USEPA Method 9056A
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020B

Fourth quarter analytical results are reported in fifteen SDGs and were validated in three groups. Group 2 consists of five SDGs (L1798511, L1799093, L1799514, L1800138, and L1800716). The quality assurance review of the laboratory data associated with Group 2 is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria and professional judgement were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020) and USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

The samples were collected and analyzed as requested with the following discussions:

- SDG L1799093: Per NV5 review and the original chain of custody request sample MW-17-111224 was corrected by Pace to read MW-177-111224 on 12/13/2024.
- SDG L1799093: Review of the chain of custody indicates that Pace assigned laboratory identifications to samples by analyses request and samples are not recorded in the same order as the chain of custody. No action is taken other than to note this.
- SDG L1799093: Review of the chain of custody indicates that the trip blank was not received and condition of samples upon receipt was noted as NCF (non-conformance) however additional details were not provided. Pace indicated that samples were received in two FedEx shipments (bill of lading numbers 421264727550 and 421264727560) and noted that seven samples (MW122 -111224, MW-310 -111224, MW-313 -111224, MW127 -111224, FMW-141-111224, MW-311 -111224 and TB-111224) were not included in the first shipment. The second bill of lading 421264727560 was not recorded on the chain of custody. The trip blank was received in the second shipment but chain of custody notes incorrectly indicate that the trip blank was not included. No further action is taken other than to note that seven samples (MW108-111224, MW-997-111224, MW-314-111224, MW110-111224, MW-179-111224, MW-177-111224, and MW-180-111224) submitted for VOC analysis by USEPA Method 8260D were not shipped in the same cooler as the trip blank and are therefore not associated with the trip blank.
- SDG L1799514: Per NV5 review and the original chain of custody request sample MW-105-111324 was corrected to read MW105-111324 on 12/13/2024.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation of 6°C. The samples were received in good condition. No data are qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260D:

The samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved water samples from the date of collection. All holding time criteria are met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

The samples were analyzed within the WA State recommended holding time of fourteen days for preserved water samples from the date of sample collection. All holding time criteria are met.

USEPA Method 6020B

The samples were analyzed within the USEPA recommended holding time for metals (180 days) for the preserved water samples from the date of sample collection.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

The samples were analyzed within the USEPA recommended holding time for alkalinity (14 days) chloride (28 days), sulfate (28 days), nitrate (48 hours), and TOC (28 days) for the preserved water samples from the date of sample collection. All holding time criteria are met.

Initial and Continuing Calibration

USEPA Method 8260D (VOCs):

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. Pace indicated within the laboratory report that continuing calibration verification (CCV) criteria for were not met for the following:

- Multiple SDGs: *USEPA Method 8260D* - Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches in each SDG. These compounds are qualified by the laboratory “C3” to indicate that percent difference CCVs are below laboratory acceptance criteria and may be showing potential low bias. **Associated sample results with laboratory qualified (C3) results are estimated with potential low bias and qualified (J-/UJ). Results reported below the RDL are estimated (J) and directional bias are not assigned.**
- Multiple SDGs: *USEPA Method 8260D* - Continuing calibration verification (CCV) issues were noted by Pace for several compounds. These compounds are qualified by the laboratory “C5” to indicate that percent difference CCVs are above laboratory acceptance criteria and may be showing potential high bias. **Associated sample results (detects) with laboratory qualified (C5) results are estimated with potential high bias and qualified (J+).**

Method Blank Results

USEPA Method 8260D:

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1799093 – Analytical batch WG2403355: Acetone, chloroform, and 1,2,3-trichlorobenzene are detected below their respective RDLs in the method blank. Actions are as follows:
 - Acetone was detected (0.754 µg/L) below the RDL (1.00 µg/L) in the associated method blank. No action is taken since acetone was either not detected or detected above the RDL in the associated samples.

- Chloroform was detected at 0.0240 µg/L in the method blank and below the RDL (0.100 µg/L). **The chloroform detection in sample MW-997-111224 is qualified as not detected (U) due to method blank contamination.**
- 1,2,3-Trichlorobenzene is not detected in the associated samples. No action is required.
- SDG L1799093 – Analytical batch WG2405418: Carbon disulfide is detected at a low level in the method blank. **Carbon disulfide detections in samples MW-313-111224 and FMW-141-111224 are qualified as non-detected (U) due to method blank contamination.**
- SDG L1799093 – Analytical batch WG2405418: Trichloroethene was detected at 0.0640 µg/L in the method blank associated with the trip blank and four samples (MW-313-111224, MW127-111224, FMW-141-111224, and MW-311-111224). Trichloroethene was detected in the trip blank sample at 0.0370 µg/L and below the RDL (0.0400 µg/L). The highest trichloroethene detection was used to evaluate the associated results. No action is taken since trichloroethene is either not detected or detected above the method blank detection.
- SDG L1799093 – Analytical batch WG2406168: cis-1,2-Dichloroethene was detected in the method blank at and below the RDL. **cis-1,2-Dichloroethene detection in samples MW122-111224, and MW-310-111224 are qualified as not detected (U) due to method blank contamination.**
- SDG L1799514 – Analytical batch WG2408378: cis-1,2-Dichloroethene is detected in the method blank at 0.0350 µg/L and below the RDL (0.100 µg/L). No action is taken since cis-1,2-dichloroethene is detected above the RDL in the associated sample (MW-182-111324).
- SDG L1800716 – Analytical batch WG2408141: Chloroform and cis-1,2-dichloroethene are detected below respective RDLs in the method blank. No action is taken due to method blank contamination since chloroform and cis-1,2-dichloroethene are either not detected or detected above the RDLs in the associated samples (MW-998-111524 and MW-171-111524).

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC) and Metals (Iron and Manganese):

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the RDLs.

Trip Blank Results

USEPA Method 8260D:

Four trip blanks (TB-111124, TB-111224, TB-111424, and TB-111524) were collected and submitted to the laboratory. Two trip blanks (TB-111124 and TB-111424) were placed on hold. The target analytes are not detected in the trip blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1799093 – Analytical batch WG2405418: Acetone is detected in the trip blank (TB-111224) at 12.4 µg/L and above the RDL (1.00 µg/L). Acetone was also detected (0.754 µg/L) below the RDL in one of the associated method blanks (analytical batch WG2403355). The highest acetone detection was used to evaluate the associated results. **Acetone, a common laboratory contaminant, was detected below the established action level (2 x 12.4 µg/L) in samples MW122-111224 and MW-310-111224. Acetone detections in these samples are qualified as not detected (U) due to trip blank contamination.** Samples MW108-111224 and MW110-111224 are not qualified as they were not shipped with the trip blank.
- SDG L1799093 – Analytical batch WG2405418: Chloroform, 1,2-dichloroethane, toluene, and trichloroethene are also detected in the trip blank (TB-111224). Actions are as follows:
 - Chloroform was detected in the trip blank sample at 0.0180 µg/L and below the RDL (0.100 µg/L). Chloroform was also detected at 0.0240 µg/L in the method blank (analytical batch WG2403355). The highest chloroform detection was used to evaluate the associated results. **Chloroform was detected in sample MW-997-111224 and is qualified as not detected (U) due to method blank contamination.**
 - Toluene was detected in the trip blank sample at 0.0690 µg/L and below the RDL (0.200 µg/L). **Toluene result in sample MW-310-111224 is qualified as not detected (U) due to trip blank contamination.** Sample MW-997-111224 is not qualified as it was not shipped with the trip blank.
 - 1,2-Dichloroethane was detected in the trip blank sample at 0.0250 µg/L and below the RDL (0.100 µg/L). No action is taken for 1,2-dichloroethane as it is not detected in the associated samples.
 - Trichloroethene was detected in the trip blank sample at 0.0370 µg/L and below the RDL (0.0400 µg/L). Trichloroethene was also detected at 0.0640 µg/L in the method blank associated with the trip blank and four samples (MW-313-111224, MW127-111224, FMW-141-111224, and MW-311-111224). Refer to the section on Method Blank Results for additional details. No action is taken due to trip blank contamination since trichloroethene is either not detected or detected above the RDL in the associated samples.

- SDG L1800716 – Analytical batch WG2408141: Vinyl chloride is detected in the trip blank (TB-111524) at 0.0680 µg/L and below the RDL (0.100 µg/L). No action is taken for vinyl chloride as it is either not detected or detected above the RDL in the associated samples.

Field, Rinsate, or Equipment Blank Results

Select Analytical Methods:

Two equipment blanks (EQ1-111424 and EQ2-111424) were collected and are associated with SDGs L1799514 and L1800138. The target analytes are not detected in the equipment blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1799514: Sample MW-304-111324 was analyzed for VOCs only whereas the equipment blank was analyzed for multiple analytes (alkalinity, anions, TOC, metals, dissolved gases, and VOCs). Low levels of iron, manganese, dissolved gas (methane), and one VOC were detected in the equipment blank (EQ1-111424). Only equipment blank (EQ1-111424) VOC results are evaluated. A low level of cis-1,2-dichloroethene was detected in the equipment blank (EQ1-111424) at 0.106 µg/L and above the RDL (0.100 µg/L). No action is needed since cis-1,2-dichloroethene is not detected in sample MW-304-111324.
- SDG L1799514: Sample MW-105-111324 was analyzed for VOCs only whereas the equipment blank was analyzed for multiple analytes (alkalinity, anions, TOC, metals, dissolved gases, and VOCs). Low levels of iron, manganese, dissolved gas (methane), and several VOCs were detected in the equipment blank (EQ2-111424). Only equipment blank VOC results are evaluated. Low levels of carbon disulfide, chloroform, and cis-1,2-dichloroethene were detected in the equipment blank (EQ2-111424) below the RDLs. No action is taken for these compounds as they are either not detected or detected above the action level (RDLs) in sample MW-105-111324.

Field Duplicate Analyses

Two field duplicate pairs were submitted and analyzed as follows:

- SDG L1799093: Sample MW108-111224 and field duplicate sample MW-997-111224 target analyte results (alkalinity, anions, TOC, metals, dissolved gases, and VOCs) results are comparable and within a relative percent difference (RPD) of 30% ($\pm 1 \times$ RDL for groundwater results $< 5 \times$ the RDL) except for ethylene. **Field duplicate pair (MW108-111224 and MW-997-111224) results for ethylene (ethene) are qualified as estimated (J) due to a high RPD.**
- SDG L1800716: Sample MW-170-111524 and field duplicate sample MW-998-111524 target analyte results (alkalinity, anions, TOC, metals, dissolved gases, and VOCs) are comparable and within a RPD of 30% ($\pm 1 \times$ RDL for groundwater results $< 5 \times$ the RDL) for the field duplicate pair except for trichloroethene and vinyl chloride. **Field duplicate pair (MW-170-111524 and MW-998-111524) results for trichloroethene and vinyl chloride are qualified as estimated (J) due to high RPD.**

Laboratory Duplicate Analyses

USEPA Method 8260D:

Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control RPD limits or $\pm 1 \times$ RDL for groundwater results $< 5 \times$ the RDL.

USEPA Method 6020B:

Laboratory duplicate samples were not analyzed. Refer to MS/MSD results for precision data.

Surrogate Recoveries

USEPA Method 8260D:

The surrogate percent recovery results for the samples, laboratory control samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

Laboratory Control Samples

USEPA Method 8260D:

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260D method. The LCS % Rs or LCS/LCSD % Rs and RPDs for all target compounds are within the laboratory control criteria for waters with the following exceptions:

- SDG L1798511 – Analytical batch WG2403269: LCS/LCSD RPD for trans-1,4-dichloro-2-butene exceeds laboratory QC criteria and is laboratory qualified (J3). No action is taken for trans-1,4-dichloro-2-butene since LCS/LCSD % Rs are within criteria.
- SDG L1799093 – Analytical batch WG2405418: LCS/LCSD RPD for chloromethane exceeds laboratory QC criteria and is laboratory qualified (J3). No action is taken for chloromethane since LCS/LCSD % Rs are within criteria.
- SDG L1799093 – Analytical batch WG2406165: LCS recoveries for acetone and acrylonitrile exceed laboratory QC criteria and are laboratory qualified (J4). No action is taken for acetone and acrylonitrile since these are not detected in the associated sample MW-314-111224.

- SDG L1799093 – Analytical batch WG2406165: LCS recovery for 4-chlorotoluene is slightly below laboratory QC criteria and is laboratory qualified (J4). No action is taken on this basis since the associated sample MW-314-111224 is already qualified due to a calibration issue. Refer to the section on Initial and Continuing Calibration Results for additional information.
- SDGs L1800138 and L1800716 – Analytical batch WG2406633: LCS/LCSD RPD for chloromethane exceeds laboratory QC criteria and is laboratory qualified (J3). No action is taken for chloromethane since LCS/LCSD % Rs are within criteria.
- SDG L1800138 – Analytical batch WG2409707: LCS/LCSD RPD for naphthalene exceeds laboratory QC criteria and is laboratory qualified (J3). No action is taken for naphthalene since LCS/LCSD % Rs are within criteria.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

The LCS/LCSD % Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020B:

The LCS % Rs for metals (iron and manganese) are within laboratory control limit criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

The LCS % Rs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260D:

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to laboratory control sample results for precision and accuracy results.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

MS/MSD analyses were performed on non-client samples within several of the analytical batches. Refer to laboratory control sample results for accuracy results. Refer to field duplicate results for precision data.

USEPA Method 6020B

MS/MSD analyses were performed on client and/or on non-client samples within one of the analytical batches. Refer to laboratory control sample results for accuracy results. Refer to field duplicate results for precision data.

General Chemistry (Chloride, Sulfate, Nitrate, and TOC):

MS or MS/MSD analyses were performed on client and/or on non-client samples within the analytical batches. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- Electronic data deliverables (EDDs) for the SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy but the associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Compound Identification and Quantitation Limits

Results of the analyses are reported based on laboratory RDLs for all compounds. RDLs for all targets or selected compounds are elevated in several samples due to method-required dilutions with the following discussion:

- SDG L1800716: Samples MW-998-111524 and MW-171-111524 trichloroethene (TCE) results by USEPA Method 8260D are laboratory qualified (E) because the detections exceed the linear calibration range. **TCE results for samples MW-998-111524 and MW-171-111524 are qualified as estimated (J) because the results exceed the linear calibration range.** Refer to the section on Field Duplicate Analyses for additional information on sample MW-170-111524 and field duplicate sample MW-998-111524.
- Multiple SDGs: Sample narratives for alkalinity results indicate that sample containers had some headspace. No action was taken other than to note this.

Per NV5's request the associated EDDs show result reporting limits (also known as reported detection limit (RDL) or practical quantitation limit (PQL)) and result detection limits (also referred to as method detection limit (MDL)) instead of defaulting to the RDL when reporting the MDL.

Chloride, nitrate, and sulfate MDLs by USEPA Method 9056A were updated by Pace in the spring of 2024. RDLs for these target analytes were not modified when the MDLs were updated.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

MEMORANDUM

TO: Project File **DATE:** December 6, 2024

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 443022-1413001.10.603.04

TASK: EIM Data Validation Level EPA2A for Mercer – Q4 2024 SDOT Parcel Monitoring Wells

LAB: Pace Sample Delivery Groups (SDGs): L1795998 and L1796726

Eight groundwater samples (including a field duplicate) and two trip blanks were collected November 5-6, 2024, from monitoring wells associated with Q4 monitoring at the SDOT Mercer Parcel (seven monitoring wells) in Seattle, WA. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Select samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260D
- VOCs (dissolved gases – methane, ethane, and ethene) by EPA SOP RSK 175
- Metals (iron and manganese) by USEPA Method 6020B
- Alkalinity by Standard Method (SM) 2320 B-2011
- Anions (chloride, nitrate, and sulfate) by USEPA Method 9056A
- Total Organic Carbon (TOC) by USEPA Method 9060A

The quality assurance review of the laboratory data associated with SDGs L1795998 and L1796726 are summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria and professional judgement were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020) and USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

The samples were collected and analyzed as requested with the following discussion:

- SDG L1796726: Review of the chain of custody shows that the trip blank (TB-110624) was initially placed on hold but was submitted for analysis per NV5 request.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation of 6°C. The samples were received in good condition. No data are qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260D:

The samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved water samples from the date of collection. All holding time criteria are met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

The samples were analyzed within the WA State recommended holding time of fourteen days for preserved water samples from the date of sample collection. All holding time criteria are met.

USEPA Method 6020B:

The samples were analyzed within the USEPA recommended holding time for metals (180 days) for preserved water samples from the date of sample collection.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

The samples were analyzed within the USEPA recommended holding time for alkalinity (14 days) chloride (28 days), sulfate (28 days), nitrate (48 hours), and TOC (28 days) for preserved water samples from the date of sample collection. All holding time criteria are met.

Initial and Continuing Calibration

USEPA Method 8260D (VOCs):

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. Pace indicated within the laboratory reports that continuing calibration verification (CCV) criteria for were not met for the following:

- Multiple SDGs: *USEPA Method 8260D* - Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches in each SDG. These compounds are qualified by the laboratory “C3” to indicate that percent

difference CCVs are below laboratory acceptance criteria and may be showing potential low bias. **Associated sample results with laboratory qualified (C3) results are estimated with potential low bias and qualified (J-/UJ). Results reported below the reporting detection limit (RDL) are estimated (J) and directional bias are not assigned.**

- Multiple SDGs: *USEPA Method 8260D* - Continuing calibration verification (CCV) issues were noted by Pace for several compounds. These compounds are qualified by the laboratory “C5” to indicate that percent difference CCVs are above laboratory acceptance criteria and may be showing potential high bias. **Associated sample results (detects) with laboratory qualified (C5) results are estimated with potential high bias and qualified (J+).**

Method Blank Results

USEPA Method 8260D:

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1795998 – Analytical batch WG2399074: Acetone is detected in the method blank at 0.792 µg/L and below the RDL (1.00 µg/L). Acetone was also detected in the trip blank at 8.75 µg/L. The highest associated blank detection was used to evaluate the impact on the associated samples. Refer to the section on Trip Blank Results for action taken due to the acetone detection in the associated trip blank.
- SDG L1796726 – Analytical batch WG2400372: 1,2-Dichloroethane is detected in the method blank at 0.0230 µg/L and below the RDL (0.100 µg/L). No action is needed since 1,2-dichloroethane is not detected in the associated samples.
- SDG L1796726 – Analytical batch WG2400912: cis-1,2-Dichloroethene is detected in the method blank at 0.0280 µg/L and below the RDL (0.100 µg/L). Per Guidance and professional judgment, no action is needed since cis-1,2-dichloroethene is detected greater than RDL in the associated samples (MW-344-110624 and MW-349-110624).

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC) and Metals (Iron and Manganese):

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks.

Trip Blank Results

USEPA Method 8260D:

Two trip blanks (TB-110524 and TB-110624) and were collected and submitted for analysis. Per guidance, for common laboratory contaminants (e.g., acetone), if the blank concentration is greater than the RDL and the associated sample results are less than twice the blank result the acetone detection is qualified as non-detect (U). The target analytes are not detected in the trip blanks at or above the RDLs with the following exceptions:

- SDG L1795998 – Analytical batch WG2399074: Acetone, a common lab contaminant, is detected in the trip blank (TB-110524) at 8.75 µg/L and above the RDL (1.00 µg/L). Acetone was also detected in the method blank at 0.792 µg/L. The highest associated blank detection was used to evaluate the impact on the associated samples. No action is taken for samples with acetone detections greater than the established action level (17.5 ug/L). **Acetone detections in samples MW-346-110524 and MW-993-110524 are qualified as not detected (U) due to trip blank contamination.** These samples are also laboratory qualified (B and C5). The reviewer applied the most stringent qualifier using qualifier hierarchy.
- SDG L1795998 – Analytical batch WG2399074: Methyl tert-butyl ether (MTBE) and toluene are detected in the trip blank (TB-110524) below their respective RDLs. No action is needed since MTBE and toluene are not detected in the associated samples.
- SDG L1796726 – Analytical batch WG2400372: Acetone is detected in the trip blank (TB-110624) at 5.60 µg/L and above the RDL (1.00 µg/L). No action is taken for samples with acetone detections greater than the established action level (11.2 µg/L). **Acetone detections in samples MW-347-110624 and HMW-9IB-110624 are qualified as not detected (U) due to trip blank contamination.** These samples are also laboratory qualified (J4 and C5). The reviewer applied the most stringent qualifier using qualifier hierarchy.
-

Field, Rinsate, or Equipment Blank Results

All Analytical Methods:

An equipment blank is not associated with Q4 groundwater samples collected from monitoring wells at the SDOT parcel.

Field Duplicate Analyses

One field duplicate pair was submitted and analyzed for all analytical parameters and evaluated for comparability as follows:

- SDG L1795998: Sample MW-346-110524 and field duplicate sample MW-993-110524 target analyte results are comparable and within a relative percent difference (RPD) of 30% ($\pm 1 \times$ RDL for groundwater results $< 5 \times$ the RDL) for the field duplicate pair except for ethylene. **Field duplicate pair (MW-346-110524 and MW-993-110524) results for ethylene are qualified as estimated (J) due to a high RPD.**

Laboratory Duplicate Analyses

USEPA Method 8260D:

Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

USEPA Method 6020B:

Laboratory duplicate samples were not analyzed. Refer to MS/MSD results for precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control RPD limits or $\pm 1 \times$ RDL for groundwater results $< 5 \times$ the RDL.

Surrogate Recoveries

USEPA Method 8260D:

The surrogate percent recovery results for the samples, laboratory control samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

Laboratory Control Samples

USEPA Method 8260D:

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260D method. The LCS % Rs or LCS/LCSD % Rs and RPDs for all target compounds are within the laboratory control criteria for waters with the following exceptions:

- SDG L1795998 – Analytical batch WG2399074: LCSD recovery for acrylonitrile is above laboratory QC criteria and laboratory qualified (J4). No action is needed since acrylonitrile is not detected in the associated samples.
- SDG L1795998 – Analytical batch WG2399074: LCS/LCSD RPD for 1,2,4-trichlorobenzene exceeds laboratory QC criteria and laboratory qualified (J3). No action is taken on this basis since LCS/LCSD % Rs are within the criteria.
- SDG L1796726 – Analytical batch WG2400372: LCSD recoveries for acetone and methylene chloride are above laboratory QC criteria and laboratory qualified (J4). For acetone, no action is taken on this basis since acetone is either not detected, or acetone detections are already qualified due to other QC issues (calibration or blank contamination). Refer to sections on Initial and Continuing Calibration, Method Blank,

and Trip Blank Results for additional information. For methylene chloride no action is taken on this basis since methylene chloride is not detected in the associated samples.

- SDG L1796726 – Analytical batch WG2400372: LCS/LCSD RPDs for bromomethane, chloroethane, trans-1,4-dichloro-2-butene, and trichlorofluoromethane exceed laboratory QC criteria and are laboratory qualified (J3). No action is taken for bromomethane and trans-1,4-dichloro-2-butene since LCS/LCSD % Rs are within criteria. **Chloroethane results are estimated and qualified (UJ/J) due to a low LCS % R and high RPD.** Refer to the section on Initial and Continuing Calibration for additional information on qualifiers. No action is taken for trichlorofluoromethane because results are already qualified due to a low CCV recovery. Refer to the section on Initial and Continuing Calibration for additional information on qualifier.
- SDG L1796726 – Analytical batch WG2400372: LCS/LCSD RPDs for bromomethane, chloroethane, trans-1,4-dichloro-2-butene, and trichlorofluoromethane exceed laboratory criteria and are laboratory qualified (J3). No action is taken for bromomethane and trans-1,4-dichloro-2-butene since LCS/LCSD % Rs are within criteria. **Chloroethane results are estimated and qualified (UJ/J) due to a low LCS % R and high RPD.** Refer to the section on Initial and Continuing Calibration for additional information on qualifiers. Trichlorofluoromethane results are already qualified due to a low CCV recovery. Refer to the section on Initial and Continuing Calibration for additional information on qualifiers.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

The LCS/LCSD % Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020B:

The LCS % Rs for metals (iron and manganese) are within laboratory control limit criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

The LCS % Rs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260D:

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to laboratory control sample results for precision and accuracy results.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

MS/MSD analyses were performed on a non-client sample within the analytical batches. Refer to laboratory control sample results for accuracy results. Refer to field duplicate results for precision data.

USEPA Method 6020B:

MS/MSD analyses were performed on non-client samples within one of the analytical batches. Refer to laboratory control sample results for accuracy results. Refer to field duplicate results for precision data.

General Chemistry (Chloride, Sulfate, Nitrate, and TOC):

MS or MS/MSD analyses were performed on client and/or on non-client samples within the analytical batches. The MS % Rs, MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following exception:

- SDG L1795998: Sulfate MS analysis was performed on sample MW-348-110524. The sulfate MS % R is below acceptance criteria and laboratory qualified (J6). **Sample MW-348-110524 sulfate result is estimated and qualified (J) due to low spike recovery.**

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- Electronic data deliverables (EDDs) for the SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy but the associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Quantitation Limits

Results of the analyses are reported based on laboratory RDLs for all compounds. RDLs for certain targets may be elevated in samples due to method-required dilutions. Per NV5's request the associated EDDs show result reporting limits (also referred to as reported detection limit (RDL) or practical quantitation limit (PQL)) and result detection limits (also referred to as method detection limit (MDL)) instead of defaulting to the RDLs when reporting to the MDLs.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

MEMORANDUM

TO: Project File **DATE:** January 14, 2025

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 443022-1413001.10.603.04

TASK: EIM Data Validation Level EPA2A for Mercer – Q4 2024 SDOT Parcel Monitoring Wells

LAB: Pace Sample Delivery Groups (SDGs): L1795998, L1796726, L1797397, and L1799205

Ten groundwater samples (including a field duplicate) and two trip blanks were collected November 5-7 and 12, 2024, from monitoring wells associated with Q4 monitoring at the SDOT Mercer Parcel (nine monitoring wells) in Seattle, WA. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Select samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260D
- VOCs (dissolved gases – methane, ethane, and ethene) by EPA SOP RSK 175
- Metals (iron and manganese) by USEPA Method 6020B
- Alkalinity by Standard Method (SM) 2320 B-2011
- Anions (chloride, nitrate, and sulfate) by USEPA Method 9056A
- Total Organic Carbon (TOC) by USEPA Method 9060A

The quality assurance review of the laboratory data associated with SDGs L1795998, L1796726, L1797397, and L1799205 are summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria and professional judgement were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020) and USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

The samples were collected and analyzed as requested with the following discussion:

- SDG L1796726: Review of the chain of custody shows that the trip blank (TB-110624) was initially placed on hold but was submitted for analysis per NV5 request.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation of 6°C. The samples were received in good condition. No data are qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260D:

The samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved water samples from the date of collection. All holding time criteria are met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

The samples were analyzed within the WA State recommended holding time of fourteen days for preserved water samples from the date of sample collection. All holding time criteria are met.

USEPA Method 6020B:

The samples were analyzed within the USEPA recommended holding time for metals (180 days) for preserved water samples from the date of sample collection.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

The samples were analyzed within the USEPA recommended holding time for alkalinity (14 days) chloride (28 days), sulfate (28 days), nitrate (48 hours), and TOC (28 days) for preserved water samples from the date of sample collection. All holding time criteria are met.

Initial and Continuing Calibration

USEPA Method 8260D (VOCs):

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. Pace indicated within the laboratory reports that continuing calibration verification (CCV) criteria for were not met for the following:

- Multiple SDGs: *USEPA Method 8260D* - Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches in each SDG. These compounds are qualified by the laboratory “C3” to indicate that percent

difference CCVs are below laboratory acceptance criteria and may be showing potential low bias. **Associated sample results with laboratory qualified (C3) results are estimated with potential low bias and qualified (J-/UJ). Results reported below the reporting detection limit (RDL) are estimated (J) and directional bias are not assigned.**

- Multiple SDGs: *USEPA Method 8260D* - Continuing calibration verification (CCV) issues were noted by Pace for several compounds. These compounds are qualified by the laboratory “C5” to indicate that percent difference CCVs are above laboratory acceptance criteria and may be showing potential high bias. **Associated sample results (detects) with laboratory qualified (C5) results are estimated with potential high bias and qualified (J+).**

Method Blank Results

USEPA Method 8260D:

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1795998 – Analytical batch WG2399074: Acetone is detected in the method blank at 0.792 µg/L and below the RDL (1.00 µg/L). Acetone was also detected in the trip blank at 8.75 µg/L. The highest associated blank detection was used to evaluate the impact on the associated samples. Refer to the section on Trip Blank Results for action taken due to the acetone detection in the associated trip blank.
- SDG L1796726 – Analytical batch WG2400372: 1,2-Dichloroethane is detected in the method blank at 0.0230 µg/L and below the RDL (0.100 µg/L). No action is needed since 1,2-dichloroethane is not detected in the associated samples.
- SDG L1796726 – Analytical batch WG2400912: cis-1,2-Dichloroethene is detected in the method blank at 0.0280 µg/L and below the RDL (0.100 µg/L). Per Guidance and professional judgment, no action is needed since cis-1,2-dichloroethene is detected greater than RDL in the associated samples (MW-344-110624 and MW-349-110624).

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC) and Metals (Iron and Manganese):

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks.

Trip Blank Results

USEPA Method 8260D:

Two trip blanks (TB-110524 and TB-110624) and were collected and submitted for analysis. Per guidance, for common laboratory contaminants (e.g., acetone), if the blank concentration is greater than the RDL and the associated sample results are less than twice the blank result the acetone detection is qualified as non-detect (U). The target analytes are not detected in the trip blanks at or above the RDLs with the following exceptions:

- SDG L1795998 – Analytical batch WG2399074: Acetone, a common lab contaminant, is detected in the trip blank (TB-110524) at 8.75 µg/L and above the RDL (1.00 µg/L). Acetone was also detected in the method blank at 0.792 µg/L. The highest associated blank detection was used to evaluate the impact on the associated samples. No action is taken for samples with acetone detections greater than the established action level (17.5 ug/L). **Acetone detections in samples MW-346-110524 and MW-993-110524 are qualified as not detected (U) due to trip blank contamination.** These samples are also laboratory qualified (B and C5). The reviewer applied the most stringent qualifier using qualifier hierarchy.
- SDG L1795998 – Analytical batch WG2399074: Methyl tert-butyl ether (MTBE) and toluene are detected in the trip blank (TB-110524) below their respective RDLs. No action is needed since MTBE and toluene are not detected in the associated samples.
- SDG L1796726 – Analytical batch WG2400372: Acetone is detected in the trip blank (TB-110624) at 5.60 µg/L and above the RDL (1.00 µg/L). No action is taken for samples with acetone detections greater than the established action level (11.2 µg/L). **Acetone detections in samples MW-347-110624 and HMW-9IB-110624 are qualified as not detected (U) due to trip blank contamination.** These samples are also laboratory qualified (J4 and C5). The reviewer applied the most stringent qualifier using qualifier hierarchy.

Field, Rinsate, or Equipment Blank Results

All Analytical Methods:

An equipment blank is not associated with Q4 groundwater samples collected from monitoring wells at the SDOT parcel.

Field Duplicate Analyses

One field duplicate pair was submitted and analyzed for all analytical parameters and evaluated for comparability as follows:

- SDG L1795998: Sample MW-346-110524 and field duplicate sample MW-993-110524 target analyte results are comparable and within a relative percent difference (RPD) of 30% ($\pm 1 \times$ RDL for groundwater results $< 5 \times$ the RDL) for the field duplicate pair except for ethylene. **Field duplicate pair (MW-346-110524 and MW-993-110524) results for ethylene are qualified as estimated (J) due to a high RPD.**

Laboratory Duplicate Analyses

USEPA Method 8260D:

Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

USEPA Method 6020B:

Laboratory duplicate samples were not analyzed. Refer to MS/MSD results for precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control RPD limits or $\pm 1 \times$ RDL for groundwater results $< 5 \times$ the RDL.

Surrogate Recoveries

USEPA Method 8260D:

The surrogate percent recovery results for the samples, laboratory control samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

Laboratory Control Samples

USEPA Method 8260D:

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260D method. The LCS % Rs or LCS/LCSD % Rs and RPDs for all target compounds are within the laboratory control criteria for waters with the following exceptions:

- SDG L1795998 – Analytical batch WG2399074: LCSD recovery for acrylonitrile is above laboratory QC criteria and laboratory qualified (J4). No action is needed since acrylonitrile is not detected in the associated samples.
- SDG L1795998 – Analytical batch WG2399074: LCS/LCSD RPD for 1,2,4-trichlorobenzene exceeds laboratory QC criteria and laboratory qualified (J3). No action is taken on this basis since LCS/LCSD % Rs are within the criteria.
- SDG L1796726 – Analytical batch WG2400372: LCSD recoveries for acetone and methylene chloride are above laboratory QC criteria and laboratory qualified (J4). For acetone, no action is taken on this basis since acetone is either not detected, or acetone detections are already qualified due to other QC issues (calibration or blank contamination). Refer to sections on Initial and Continuing Calibration, Method Blank, and Trip Blank Results for additional information. For methylene chloride no action is taken on this basis since methylene chloride is not detected in the associated samples.

- SDG L1796726 – Analytical batch WG2400372: LCS/LCSD RPDs for bromomethane, chloroethane, trans-1,4-dichloro-2-butene, and trichlorofluoromethane exceed laboratory QC criteria and are laboratory qualified (J3). No action is taken for bromomethane and trans-1,4-dichloro-2-butene since LCS/LCSD % Rs are within criteria. **Chloroethane results are estimated and qualified (UJ/J) due to a low LCS % R and high RPD.** Refer to the section on Initial and Continuing Calibration for additional information on qualifiers. No action is taken for trichlorofluoromethane because results are already qualified due to a low CCV recovery. Refer to the section on Initial and Continuing Calibration for additional information on qualifier.
- SDG L1796726 – Analytical batch WG2400372: LCS/LCSD RPDs for bromomethane, chloroethane, trans-1,4-dichloro-2-butene, and trichlorofluoromethane exceed laboratory criteria and are laboratory qualified (J3). No action is taken for bromomethane and trans-1,4-dichloro-2-butene since LCS/LCSD % Rs are within criteria. **Chloroethane results are estimated and qualified (UJ/J) due to a low LCS % R and high RPD.** Refer to the section on Initial and Continuing Calibration for additional information on qualifiers. Trichlorofluoromethane results are already qualified due to a low CCV recovery. Refer to the section on Initial and Continuing Calibration for additional information on qualifiers.
- SDG L1797397 – Analytical batch WG2402109: LCS/LCSD recoveries for acetone are above laboratory QC criteria and laboratory qualified (J4). No action is needed since acetone is not detected in the associated sample.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

The LCS/LCSD % Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020B:

The LCS % Rs for metals (iron and manganese) are within laboratory control limit criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

The LCS % Rs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260D:

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to laboratory control sample results for precision and accuracy results.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

MS/MSD analyses were performed on a non-client sample within the analytical batches. Refer to laboratory control sample results for accuracy results. Refer to field duplicate results for precision data.

USEPA Method 6020B:

MS/MSD analyses were performed on non-client samples within one of the analytical batches. Refer to laboratory control sample results for accuracy results. Refer to field duplicate results for precision data.

General Chemistry (Chloride, Sulfate, Nitrate, and TOC):

MS or MS/MSD analyses were performed on client and/or on non-client samples within the analytical batches. The MS % Rs, MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following exception:

- SDG L1795998: Sulfate MS analysis was performed on sample MW-348-110524. The sulfate MS % R is below acceptance criteria and laboratory qualified (J6). **Sample MW-348-110524 sulfate result is estimated and qualified (J) due to low spike recovery.**

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- Electronic data deliverables (EDDs) for the SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy but the associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.
- Multiple SDGs: The sample narratives for alkalinity results indicate that the sample containers had some headspace. No action was taken other than to note this.

Quantitation Limits

Results of the analyses are reported based on laboratory RDLs for all compounds. RDLs for certain targets may be elevated in samples due to method-required dilutions. Per NV5's request the associated EDDs show result reporting limits (also referred to as reported detection limit (RDL) or practical quantitation limit (PQL)) and result detection limits (also referred to as method detection limit (MDL)) instead of defaulting to the RDLs when reporting to the MDLs.

Chloride, nitrate, and sulfate MDLs by USEPA Method 9056A were updated by Pace in the spring of 2024. RDLs for these target analytes were not modified when the MDLs were updated.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

MEMORANDUM

TO: Project File **DATE:** December 9, 2024

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 443022-1413001.10.603.04

TASK: EIM Data Validation Level EPA2A for Mercer – Q4 2024 SDOT Parcel Monitoring Wells

LAB: Pace Sample Delivery Groups (SDGs): L1795998, L1796726, and L1799205

Nine groundwater samples (including a field duplicate) and two trip blanks were collected November 5-6 and 12, 2024, from monitoring wells associated with Q4 monitoring at the SDOT Mercer Parcel (eight monitoring wells) in Seattle, WA. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Select samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260D
- VOCs (dissolved gases – methane, ethane, and ethene) by EPA SOP RSK 175
- Metals (iron and manganese) by USEPA Method 6020B
- Alkalinity by Standard Method (SM) 2320 B-2011
- Anions (chloride, nitrate, and sulfate) by USEPA Method 9056A
- Total Organic Carbon (TOC) by USEPA Method 9060A

The quality assurance review of the laboratory data associated with SDGs L1795998, L1796726, and L1799205 are summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria and professional judgement were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020) and USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

The samples were collected and analyzed as requested with the following discussion:

- SDG L1796726: Review of the chain of custody shows that the trip blank (TB-110624) was initially placed on hold but was submitted for analysis per NV5 request.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation of 6°C. The samples were received in good condition. No data are qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260D:

The samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved water samples from the date of collection. All holding time criteria are met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

The samples were analyzed within the WA State recommended holding time of fourteen days for preserved water samples from the date of sample collection. All holding time criteria are met.

USEPA Method 6020B:

The samples were analyzed within the USEPA recommended holding time for metals (180 days) for preserved water samples from the date of sample collection.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

The samples were analyzed within the USEPA recommended holding time for alkalinity (14 days) chloride (28 days), sulfate (28 days), nitrate (48 hours), and TOC (28 days) for preserved water samples from the date of sample collection. All holding time criteria are met.

Initial and Continuing Calibration

USEPA Method 8260D (VOCs):

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. Pace indicated within the laboratory reports that continuing calibration verification (CCV) criteria for were not met for the following:

- Multiple SDGs: *USEPA Method 8260D* - Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches in each SDG. These compounds are qualified by the laboratory “C3” to indicate that percent

difference CCVs are below laboratory acceptance criteria and may be showing potential low bias. **Associated sample results with laboratory qualified (C3) results are estimated with potential low bias and qualified (J-/UJ). Results reported below the reporting detection limit (RDL) are estimated (J) and directional bias are not assigned.**

- Multiple SDGs: *USEPA Method 8260D* - Continuing calibration verification (CCV) issues were noted by Pace for several compounds. These compounds are qualified by the laboratory “C5” to indicate that percent difference CCVs are above laboratory acceptance criteria and may be showing potential high bias. **Associated sample results (detects) with laboratory qualified (C5) results are estimated with potential high bias and qualified (J+).**

Method Blank Results

USEPA Method 8260D:

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1795998 – Analytical batch WG2399074: Acetone is detected in the method blank at 0.792 µg/L and below the RDL (1.00 µg/L). Acetone was also detected in the trip blank at 8.75 µg/L. The highest associated blank detection was used to evaluate the impact on the associated samples. Refer to the section on Trip Blank Results for action taken due to the acetone detection in the associated trip blank.
- SDG L1796726 – Analytical batch WG2400372: 1,2-Dichloroethane is detected in the method blank at 0.0230 µg/L and below the RDL (0.100 µg/L). No action is needed since 1,2-dichloroethane is not detected in the associated samples.
- SDG L1796726 – Analytical batch WG2400912: cis-1,2-Dichloroethene is detected in the method blank at 0.0280 µg/L and below the RDL (0.100 µg/L). Per Guidance and professional judgment, no action is needed since cis-1,2-dichloroethene is detected greater than RDL in the associated samples (MW-344-110624 and MW-349-110624).

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC) and Metals (Iron and Manganese):

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks.

Trip Blank Results

USEPA Method 8260D:

Two trip blanks (TB-110524 and TB-110624) and were collected and submitted for analysis. Per guidance, for common laboratory contaminants (e.g., acetone), if the blank concentration is greater than the RDL and the associated sample results are less than twice the blank result the acetone detection is qualified as non-detect (U). The target analytes are not detected in the trip blanks at or above the RDLs with the following exceptions:

- SDG L1795998 – Analytical batch WG2399074: Acetone, a common lab contaminant, is detected in the trip blank (TB-110524) at 8.75 µg/L and above the RDL (1.00 µg/L). Acetone was also detected in the method blank at 0.792 µg/L. The highest associated blank detection was used to evaluate the impact on the associated samples. No action is taken for samples with acetone detections greater than the established action level (17.5 ug/L). **Acetone detections in samples MW-346-110524 and MW-993-110524 are qualified as not detected (U) due to trip blank contamination.** These samples are also laboratory qualified (B and C5). The reviewer applied the most stringent qualifier using qualifier hierarchy.
- SDG L1795998 – Analytical batch WG2399074: Methyl tert-butyl ether (MTBE) and toluene are detected in the trip blank (TB-110524) below their respective RDLs. No action is needed since MTBE and toluene are not detected in the associated samples.
- SDG L1796726 – Analytical batch WG2400372: Acetone is detected in the trip blank (TB-110624) at 5.60 µg/L and above the RDL (1.00 µg/L). No action is taken for samples with acetone detections greater than the established action level (11.2 µg/L). **Acetone detections in samples MW-347-110624 and HMW-9IB-110624 are qualified as not detected (U) due to trip blank contamination.** These samples are also laboratory qualified (J4 and C5). The reviewer applied the most stringent qualifier using qualifier hierarchy.

Field, Rinsate, or Equipment Blank Results

All Analytical Methods:

An equipment blank is not associated with Q4 groundwater samples collected from monitoring wells at the SDOT parcel.

Field Duplicate Analyses

One field duplicate pair was submitted and analyzed for all analytical parameters and evaluated for comparability as follows:

- SDG L1795998: Sample MW-346-110524 and field duplicate sample MW-993-110524 target analyte results are comparable and within a relative percent difference (RPD) of 30% ($\pm 1 \times$ RDL for groundwater results $< 5 \times$ the RDL) for the field duplicate pair except for ethylene. **Field duplicate pair (MW-346-110524 and MW-993-110524) results for ethylene are qualified as estimated (J) due to a high RPD.**

Laboratory Duplicate Analyses

USEPA Method 8260D:

Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

USEPA Method 6020B:

Laboratory duplicate samples were not analyzed. Refer to MS/MSD results for precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control RPD limits or $\pm 1 \times$ RDL for groundwater results $< 5 \times$ the RDL.

Surrogate Recoveries

USEPA Method 8260D:

The surrogate percent recovery results for the samples, laboratory control samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

Laboratory Control Samples

USEPA Method 8260D:

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260D method. The LCS % Rs or LCS/LCSD % Rs and RPDs for all target compounds are within the laboratory control criteria for waters with the following exceptions:

- SDG L1795998 – Analytical batch WG2399074: LCSD recovery for acrylonitrile is above laboratory QC criteria and laboratory qualified (J4). No action is needed since acrylonitrile is not detected in the associated samples.
- SDG L1795998 – Analytical batch WG2399074: LCS/LCSD RPD for 1,2,4-trichlorobenzene exceeds laboratory QC criteria and laboratory qualified (J3). No action is taken on this basis since LCS/LCSD % Rs are within the criteria.
- SDG L1796726 – Analytical batch WG2400372: LCSD recoveries for acetone and methylene chloride are above laboratory QC criteria and laboratory qualified (J4). For acetone, no action is taken on this basis since acetone is either not detected, or acetone detections are already qualified due to other QC issues (calibration or blank contamination). Refer to sections on Initial and Continuing Calibration, Method Blank, and Trip Blank Results for additional information. For methylene chloride no action is taken on this basis since methylene chloride is not detected in the associated samples.

- SDG L1796726 – Analytical batch WG2400372: LCS/LCSD RPDs for bromomethane, chloroethane, trans-1,4-dichloro-2-butene, and trichlorofluoromethane exceed laboratory QC criteria and are laboratory qualified (J3). No action is taken for bromomethane and trans-1,4-dichloro-2-butene since LCS/LCSD % Rs are within criteria. **Chloroethane results are estimated and qualified (UJ/J) due to a low LCS % R and high RPD.** Refer to the section on Initial and Continuing Calibration for additional information on qualifiers. No action is taken for trichlorofluoromethane because results are already qualified due to a low CCV recovery. Refer to the section on Initial and Continuing Calibration for additional information on qualifier.
- SDG L1796726 – Analytical batch WG2400372: LCS/LCSD RPDs for bromomethane, chloroethane, trans-1,4-dichloro-2-butene, and trichlorofluoromethane exceed laboratory criteria and are laboratory qualified (J3). No action is taken for bromomethane and trans-1,4-dichloro-2-butene since LCS/LCSD % Rs are within criteria. **Chloroethane results are estimated and qualified (UJ/J) due to a low LCS % R and high RPD.** Refer to the section on Initial and Continuing Calibration for additional information on qualifiers. Trichlorofluoromethane results are already qualified due to a low CCV recovery. Refer to the section on Initial and Continuing Calibration for additional information on qualifiers.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

The LCS/LCSD % Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020B:

The LCS % Rs for metals (iron and manganese) are within laboratory control limit criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):

The LCS % Rs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260D:

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to laboratory control sample results for precision and accuracy results.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

MS/MSD analyses were performed on a non-client sample within the analytical batches. Refer to laboratory control sample results for accuracy results. Refer to field duplicate results for precision data.

USEPA Method 6020B:

MS/MSD analyses were performed on non-client samples within one of the analytical batches. Refer to laboratory control sample results for accuracy results. Refer to field duplicate results for precision data.

General Chemistry (Chloride, Sulfate, Nitrate, and TOC):

MS or MS/MSD analyses were performed on client and/or on non-client samples within the analytical batches. The MS % Rs, MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following exception:

- SDG L1795998: Sulfate MS analysis was performed on sample MW-348-110524. The sulfate MS % R is below acceptance criteria and laboratory qualified (J6). **Sample MW-348-110524 sulfate result is estimated and qualified (J) due to low spike recovery.**

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- Electronic data deliverables (EDDs) for the SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy but the associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Quantitation Limits

Results of the analyses are reported based on laboratory RDLs for all compounds. RDLs for certain targets may be elevated in samples due to method-required dilutions. Per NV5's request the associated EDDs show result reporting limits (also referred to as reported detection limit (RDL) or practical quantitation limit (PQL)) and result detection limits (also referred to as method detection limit (MDL)) instead of defaulting to the RDLs when reporting to the MDLs.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

Annotated DVR Lab Reports

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	228000		4750	20000	1	11/06/2024 14:08	WG2396403

Sample Narrative:
L1795998-01 WG2396403: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	16100		547	1000	1	11/06/2024 16:15	WG2396409
Nitrate as (N)	U		88.4	100	1	11/06/2024 16:15	WG2396409
Sulfate	66400	J J6	637	5000	1	11/06/2024 16:15	WG2396409

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	22400		495	1000	1	11/06/2024 19:12	WG2396597

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	2540		22.6	100	1	11/13/2024 21:56	WG2398247
Manganese	166		0.700	5.00	1	11/13/2024 21:56	WG2398247

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	26300		2.87	6.78	10	11/10/2024 01:32	WG2398934
Ethane	16.2		0.296	1.29	1	11/09/2024 23:18	WG2398526
Ethene	118		0.422	1.27	1	11/09/2024 23:18	WG2398526

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	115 J+	C5	0.548	1.00	1	11/10/2024 15:51	WG2399074
Acrylonitrile	U	J4	0.0760	0.500	1	11/10/2024 15:51	WG2399074
Benzene	0.0200	J	0.0160	0.0400	1	11/10/2024 15:51	WG2399074
Bromobenzene	U		0.0420	0.500	1	11/10/2024 15:51	WG2399074
Bromochloromethane	U		0.0452	0.200	1	11/10/2024 15:51	WG2399074
Bromodichloromethane	U		0.0315	0.100	1	11/10/2024 15:51	WG2399074
Bromoform	U		0.239	1.00	1	11/10/2024 15:51	WG2399074
Bromomethane	U		0.148	0.500	1	11/10/2024 15:51	WG2399074
n-Butylbenzene	U		0.153	0.500	1	11/10/2024 15:51	WG2399074
sec-Butylbenzene	U		0.101	0.500	1	11/10/2024 15:51	WG2399074
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2024 15:51	WG2399074
Carbon disulfide	0.350	J	0.162	0.500	1	11/10/2024 15:51	WG2399074
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2024 15:51	WG2399074
Chlorobenzene	U		0.0229	0.100	1	11/10/2024 15:51	WG2399074
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2024 15:51	WG2399074
Chloroethane	U		0.0432	0.200	1	11/10/2024 15:51	WG2399074
Chloroform	U		0.0166	0.100	1	11/10/2024 15:51	WG2399074
Chloromethane	U		0.0556	0.500	1	11/10/2024 15:51	WG2399074
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2024 15:51	WG2399074
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2024 15:51	WG2399074

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

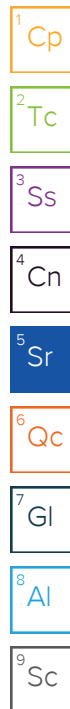
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Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2024 15:51	WG2399074
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2024 15:51	WG2399074
Dibromomethane	U		0.0400	0.200	1	11/10/2024 15:51	WG2399074
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2024 15:51	WG2399074
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2024 15:51	WG2399074
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2024 15:51	WG2399074
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/10/2024 15:51	WG2399074
Dichlorodifluoromethane	U		0.0327	0.200	1	11/10/2024 15:51	WG2399074
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2024 15:51	WG2399074
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2024 15:51	WG2399074
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2024 15:51	WG2399074
cis-1,2-Dichloroethene	0.869		0.0276	0.100	1	11/10/2024 15:51	WG2399074
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2024 15:51	WG2399074
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2024 15:51	WG2399074
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2024 15:51	WG2399074
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2024 15:51	WG2399074
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2024 15:51	WG2399074
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2024 15:51	WG2399074
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2024 15:51	WG2399074
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2024 15:51	WG2399074
Ethylbenzene	U		0.0212	0.100	1	11/10/2024 15:51	WG2399074
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2024 15:51	WG2399074
2-Hexanone	U		0.400	1.00	1	11/10/2024 15:51	WG2399074
n-Hexane	U		0.0424	0.200	1	11/10/2024 15:51	WG2399074
Iodomethane	U		0.242	0.500	1	11/10/2024 15:51	WG2399074
Isopropylbenzene	U		0.0345	0.100	1	11/10/2024 15:51	WG2399074
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2024 15:51	WG2399074
2-Butanone (MEK)	1.53		0.500	1.00	1	11/10/2024 15:51	WG2399074
Methylene Chloride	U		0.265	1.00	1	11/10/2024 15:51	WG2399074
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2024 15:51	WG2399074
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2024 15:51	WG2399074
Naphthalene	U	UJ C3	0.124	0.500	1	11/10/2024 15:51	WG2399074
n-Propylbenzene	U		0.0472	0.200	1	11/10/2024 15:51	WG2399074
Styrene	U		0.109	0.500	1	11/10/2024 15:51	WG2399074
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2024 15:51	WG2399074
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2024 15:51	WG2399074
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 15:51	WG2399074
Tetrachloroethene	U		0.0280	0.100	1	11/10/2024 15:51	WG2399074
Toluene	U		0.0500	0.200	1	11/10/2024 15:51	WG2399074
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 15:51	WG2399074
1,2,4-Trichlorobenzene	U	UJ C3 JS	0.193	0.500	1	11/10/2024 15:51	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 15:51	WG2399074
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 15:51	WG2399074
Trichloroethene	0.0470		0.0160	0.0400	1	11/10/2024 15:51	WG2399074
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 15:51	WG2399074
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 15:51	WG2399074
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2024 15:51	WG2399074
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 15:51	WG2399074
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 15:51	WG2399074
Vinyl acetate	U		0.141	0.500	1	11/10/2024 15:51	WG2399074
Vinyl chloride	2.32		0.0273	0.100	1	11/10/2024 15:51	WG2399074
Xylenes, Total	U		0.191	0.260	1	11/10/2024 15:51	WG2399074
(S) Toluene-d8	103			75.0-131		11/10/2024 15:51	WG2399074
(S) 4-Bromofluorobenzene	98.1			67.0-138		11/10/2024 15:51	WG2399074
(S) 1,2-Dichloroethane-d4	92.3			70.0-130		11/10/2024 15:51	WG2399074

JC 12/5/24



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	192000		4750	20000	1	11/06/2024 13:21	WG2396469

Sample Narrative:
L1795998-02 WG2396469: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	28400		547	1000	1	11/06/2024 17:05	WG2396409
Nitrate as (N)	U		88.4	100	1	11/06/2024 17:05	WG2396409
Sulfate	84500		637	5000	1	11/06/2024 17:05	WG2396409

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1680		495	1000	1	11/06/2024 20:01	WG2396597

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	710		22.6	100	1	11/13/2024 22:00	WG2398247
Manganese	157		0.700	5.00	1	11/13/2024 22:00	WG2398247

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	634		0.287	0.678	1	11/09/2024 23:27	WG2398526
Ethane	U		0.296	1.29	1	11/09/2024 23:27	WG2398526
Ethene	2.87	J	0.422	1.27	1	11/09/2024 23:27	WG2398526

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	1.15	U	0.548	1.00	1	11/10/2024 16:10	WG2399074
Acrylonitrile	U	BC5 J4	0.0760	0.500	1	11/10/2024 16:10	WG2399074
Benzene	U		0.0160	0.0400	1	11/10/2024 16:10	WG2399074
Bromobenzene	U		0.0420	0.500	1	11/10/2024 16:10	WG2399074
Bromochloromethane	U		0.0452	0.200	1	11/10/2024 16:10	WG2399074
Bromodichloromethane	U		0.0315	0.100	1	11/10/2024 16:10	WG2399074
Bromoform	U		0.239	1.00	1	11/10/2024 16:10	WG2399074
Bromomethane	U		0.148	0.500	1	11/10/2024 16:10	WG2399074
n-Butylbenzene	U		0.153	0.500	1	11/10/2024 16:10	WG2399074
sec-Butylbenzene	U		0.101	0.500	1	11/10/2024 16:10	WG2399074
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2024 16:10	WG2399074
Carbon disulfide	U		0.162	0.500	1	11/10/2024 16:10	WG2399074
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2024 16:10	WG2399074
Chlorobenzene	U		0.0229	0.100	1	11/10/2024 16:10	WG2399074
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2024 16:10	WG2399074
Chloroethane	U		0.0432	0.200	1	11/10/2024 16:10	WG2399074
Chloroform	U		0.0166	0.100	1	11/10/2024 16:10	WG2399074
Chloromethane	U		0.0556	0.500	1	11/10/2024 16:10	WG2399074
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2024 16:10	WG2399074
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2024 16:10	WG2399074

JC 12/5/24

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

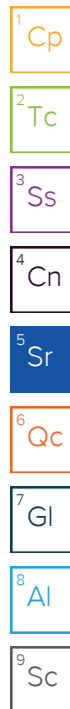
8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2024 16:10	WG2399074
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2024 16:10	WG2399074
Dibromomethane	U		0.0400	0.200	1	11/10/2024 16:10	WG2399074
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2024 16:10	WG2399074
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2024 16:10	WG2399074
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2024 16:10	WG2399074
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/10/2024 16:10	WG2399074
Dichlorodifluoromethane	U		0.0327	0.200	1	11/10/2024 16:10	WG2399074
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2024 16:10	WG2399074
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2024 16:10	WG2399074
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2024 16:10	WG2399074
cis-1,2-Dichloroethene	1.36		0.0276	0.100	1	11/10/2024 16:10	WG2399074
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2024 16:10	WG2399074
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2024 16:10	WG2399074
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2024 16:10	WG2399074
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2024 16:10	WG2399074
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2024 16:10	WG2399074
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2024 16:10	WG2399074
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2024 16:10	WG2399074
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2024 16:10	WG2399074
Ethylbenzene	U		0.0212	0.100	1	11/10/2024 16:10	WG2399074
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2024 16:10	WG2399074
2-Hexanone	U		0.400	1.00	1	11/10/2024 16:10	WG2399074
n-Hexane	U		0.0424	0.200	1	11/10/2024 16:10	WG2399074
Iodomethane	U		0.242	0.500	1	11/10/2024 16:10	WG2399074
Isopropylbenzene	U		0.0345	0.100	1	11/10/2024 16:10	WG2399074
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2024 16:10	WG2399074
2-Butanone (MEK)	U		0.500	1.00	1	11/10/2024 16:10	WG2399074
Methylene Chloride	U		0.265	1.00	1	11/10/2024 16:10	WG2399074
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2024 16:10	WG2399074
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2024 16:10	WG2399074
Naphthalene	U	UJ C3	0.124	0.500	1	11/10/2024 16:10	WG2399074
n-Propylbenzene	U		0.0472	0.200	1	11/10/2024 16:10	WG2399074
Styrene	U		0.109	0.500	1	11/10/2024 16:10	WG2399074
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2024 16:10	WG2399074
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2024 16:10	WG2399074
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 16:10	WG2399074
Tetrachloroethene	U		0.0280	0.100	1	11/10/2024 16:10	WG2399074
Toluene	U		0.0500	0.200	1	11/10/2024 16:10	WG2399074
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 16:10	WG2399074
1,2,4-Trichlorobenzene	U	UJ C3 JS	0.193	0.500	1	11/10/2024 16:10	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 16:10	WG2399074
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 16:10	WG2399074
Trichloroethene	0.284		0.0160	0.0400	1	11/10/2024 16:10	WG2399074
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 16:10	WG2399074
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 16:10	WG2399074
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2024 16:10	WG2399074
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 16:10	WG2399074
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 16:10	WG2399074
Vinyl acetate	U		0.141	0.500	1	11/10/2024 16:10	WG2399074
Vinyl chloride	1.20		0.0273	0.100	1	11/10/2024 16:10	WG2399074
Xylenes, Total	U		0.191	0.260	1	11/10/2024 16:10	WG2399074
(S) Toluene-d8	98.8			75.0-131		11/10/2024 16:10	WG2399074
(S) 4-Bromofluorobenzene	97.2			67.0-138		11/10/2024 16:10	WG2399074
(S) 1,2-Dichloroethane-d4	92.7			70.0-130		11/10/2024 16:10	WG2399074

JC 12/5/24



Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	191000		4750	20000	1	11/06/2024 13:27	WG2396469

Sample Narrative:
L1795998-03 WG2396469: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	28400		547	1000	1	11/06/2024 17:56	WG2396409
Nitrate as (N)	U		88.4	100	1	11/06/2024 17:56	WG2396409
Sulfate	84100		637	5000	1	11/06/2024 17:56	WG2396409

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1850		495	1000	1	11/06/2024 20:37	WG2396597

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	549		22.6	100	1	11/13/2024 22:22	WG2398247
Manganese	155		0.700	5.00	1	11/13/2024 22:22	WG2398247

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	529		0.287	0.678	1	11/09/2024 23:33	WG2398526
Ethane	1.73		0.296	1.29	1	11/09/2024 23:33	WG2398526
Ethene	4.25	J	0.422	1.27	1	11/09/2024 23:33	WG2398526

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		
Acetone	1.18	U	RC5	0.548	1.00	1	11/10/2024 16:29	WG2399074
Acrylonitrile	U		J4	0.0760	0.500	1	11/10/2024 16:29	WG2399074
Benzene	U			0.0160	0.0400	1	11/10/2024 16:29	WG2399074
Bromobenzene	U			0.0420	0.500	1	11/10/2024 16:29	WG2399074
Bromochloromethane	U			0.0452	0.200	1	11/10/2024 16:29	WG2399074
Bromodichloromethane	U			0.0315	0.100	1	11/10/2024 16:29	WG2399074
Bromoform	U			0.239	1.00	1	11/10/2024 16:29	WG2399074
Bromomethane	U			0.148	0.500	1	11/10/2024 16:29	WG2399074
n-Butylbenzene	U			0.153	0.500	1	11/10/2024 16:29	WG2399074
sec-Butylbenzene	U			0.101	0.500	1	11/10/2024 16:29	WG2399074
tert-Butylbenzene	U			0.0620	0.200	1	11/10/2024 16:29	WG2399074
Carbon disulfide	U			0.162	0.500	1	11/10/2024 16:29	WG2399074
Carbon tetrachloride	U			0.0432	0.200	1	11/10/2024 16:29	WG2399074
Chlorobenzene	U			0.0229	0.100	1	11/10/2024 16:29	WG2399074
Chlorodibromomethane	U			0.0180	0.100	1	11/10/2024 16:29	WG2399074
Chloroethane	U			0.0432	0.200	1	11/10/2024 16:29	WG2399074
Chloroform	U			0.0166	0.100	1	11/10/2024 16:29	WG2399074
Chloromethane	U			0.0556	0.500	1	11/10/2024 16:29	WG2399074
2-Chlorotoluene	U			0.0368	0.100	1	11/10/2024 16:29	WG2399074
4-Chlorotoluene	U			0.0452	0.200	1	11/10/2024 16:29	WG2399074

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2024 16:29	WG2399074	
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2024 16:29	WG2399074	
Dibromomethane	U		0.0400	0.200	1	11/10/2024 16:29	WG2399074	
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2024 16:29	WG2399074	
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2024 16:29	WG2399074	
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2024 16:29	WG2399074	
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/10/2024 16:29	WG2399074	
Dichlorodifluoromethane	U		0.0327	0.200	1	11/10/2024 16:29	WG2399074	
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2024 16:29	WG2399074	
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2024 16:29	WG2399074	
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2024 16:29	WG2399074	
cis-1,2-Dichloroethene	1.34		0.0276	0.100	1	11/10/2024 16:29	WG2399074	
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2024 16:29	WG2399074	
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2024 16:29	WG2399074	
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2024 16:29	WG2399074	
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2024 16:29	WG2399074	
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2024 16:29	WG2399074	
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2024 16:29	WG2399074	
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2024 16:29	WG2399074	
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2024 16:29	WG2399074	
Ethylbenzene	U		0.0212	0.100	1	11/10/2024 16:29	WG2399074	
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2024 16:29	WG2399074	
2-Hexanone	U		0.400	1.00	1	11/10/2024 16:29	WG2399074	
n-Hexane	U		0.0424	0.200	1	11/10/2024 16:29	WG2399074	
Iodomethane	U		0.242	0.500	1	11/10/2024 16:29	WG2399074	
Isopropylbenzene	U		0.0345	0.100	1	11/10/2024 16:29	WG2399074	
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2024 16:29	WG2399074	
2-Butanone (MEK)	U		0.500	1.00	1	11/10/2024 16:29	WG2399074	
Methylene Chloride	U		0.265	1.00	1	11/10/2024 16:29	WG2399074	
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2024 16:29	WG2399074	
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2024 16:29	WG2399074	
Naphthalene	U	UJ	C3	0.124	0.500	1	11/10/2024 16:29	WG2399074
n-Propylbenzene	U		0.0472	0.200	1	11/10/2024 16:29	WG2399074	
Styrene	U		0.109	0.500	1	11/10/2024 16:29	WG2399074	
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2024 16:29	WG2399074	
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2024 16:29	WG2399074	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 16:29	WG2399074	
Tetrachloroethene	U		0.0280	0.100	1	11/10/2024 16:29	WG2399074	
Toluene	U		0.0500	0.200	1	11/10/2024 16:29	WG2399074	
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 16:29	WG2399074	
1,2,4-Trichlorobenzene	U	UJ	C3 UJ	0.193	0.500	1	11/10/2024 16:29	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 16:29	WG2399074	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 16:29	WG2399074	
Trichloroethene	0.323		0.0160	0.0400	1	11/10/2024 16:29	WG2399074	
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 16:29	WG2399074	
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 16:29	WG2399074	
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2024 16:29	WG2399074	
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 16:29	WG2399074	
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 16:29	WG2399074	
Vinyl acetate	U		0.141	0.500	1	11/10/2024 16:29	WG2399074	
Vinyl chloride	1.16		0.0273	0.100	1	11/10/2024 16:29	WG2399074	
Xylenes, Total	U		0.191	0.260	1	11/10/2024 16:29	WG2399074	
(S) Toluene-d8	101			75.0-131		11/10/2024 16:29	WG2399074	
(S) 4-Bromofluorobenzene	97.4			67.0-138		11/10/2024 16:29	WG2399074	
(S) 1,2-Dichloroethane-d4	91.6			70.0-130		11/10/2024 16:29	WG2399074	

JC 12/5/24

JC 12/5/24

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
	ug/l		ug/l	ug/l		date / time		
Acetone	1.24	U	B-C5	0.548	1.00	1	11/10/2024 16:48	WG2399074
Acrylonitrile	U	J4	0.0760	0.500	1	11/10/2024 16:48	WG2399074	
Benzene	U		0.0160	0.0400	1	11/10/2024 16:48	WG2399074	
Bromobenzene	U		0.0420	0.500	1	11/10/2024 16:48	WG2399074	
Bromochloromethane	U		0.0452	0.200	1	11/10/2024 16:48	WG2399074	
Bromodichloromethane	U		0.0315	0.100	1	11/10/2024 16:48	WG2399074	
Bromoform	U		0.239	1.00	1	11/10/2024 16:48	WG2399074	
Bromomethane	U		0.148	0.500	1	11/10/2024 16:48	WG2399074	
n-Butylbenzene	U		0.153	0.500	1	11/10/2024 16:48	WG2399074	
sec-Butylbenzene	U		0.101	0.500	1	11/10/2024 16:48	WG2399074	
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2024 16:48	WG2399074	
Carbon disulfide	U		0.162	0.500	1	11/10/2024 16:48	WG2399074	
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2024 16:48	WG2399074	
Chlorobenzene	U		0.0229	0.100	1	11/10/2024 16:48	WG2399074	
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2024 16:48	WG2399074	
Chloroethane	U		0.0432	0.200	1	11/10/2024 16:48	WG2399074	
Chloroform	U		0.0166	0.100	1	11/10/2024 16:48	WG2399074	
Chloromethane	U		0.0556	0.500	1	11/10/2024 16:48	WG2399074	
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2024 16:48	WG2399074	
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2024 16:48	WG2399074	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2024 16:48	WG2399074	
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2024 16:48	WG2399074	
Dibromomethane	U		0.0400	0.200	1	11/10/2024 16:48	WG2399074	
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2024 16:48	WG2399074	
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2024 16:48	WG2399074	
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2024 16:48	WG2399074	
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/10/2024 16:48	WG2399074	
Dichlorodifluoromethane	U		0.0327	0.200	1	11/10/2024 16:48	WG2399074	
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2024 16:48	WG2399074	
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2024 16:48	WG2399074	
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2024 16:48	WG2399074	
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/10/2024 16:48	WG2399074	
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2024 16:48	WG2399074	
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2024 16:48	WG2399074	
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2024 16:48	WG2399074	
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2024 16:48	WG2399074	
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2024 16:48	WG2399074	
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2024 16:48	WG2399074	
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2024 16:48	WG2399074	
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2024 16:48	WG2399074	
Ethylbenzene	U		0.0212	0.100	1	11/10/2024 16:48	WG2399074	
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2024 16:48	WG2399074	
2-Hexanone	U		0.400	1.00	1	11/10/2024 16:48	WG2399074	
n-Hexane	U		0.0424	0.200	1	11/10/2024 16:48	WG2399074	
Iodomethane	U		0.242	0.500	1	11/10/2024 16:48	WG2399074	
Isopropylbenzene	U		0.0345	0.100	1	11/10/2024 16:48	WG2399074	
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2024 16:48	WG2399074	
2-Butanone (MEK)	U		0.500	1.00	1	11/10/2024 16:48	WG2399074	
Methylene Chloride	U		0.265	1.00	1	11/10/2024 16:48	WG2399074	
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2024 16:48	WG2399074	
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2024 16:48	WG2399074	
Naphthalene	U	UJ	E3	0.124	0.500	1	11/10/2024 16:48	WG2399074
n-Propylbenzene	U		0.0472	0.200	1	11/10/2024 16:48	WG2399074	
Styrene	U		0.109	0.500	1	11/10/2024 16:48	WG2399074	
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2024 16:48	WG2399074	
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2024 16:48	WG2399074	

JC 1/2/2025

JC 1/2/2025

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 16:48	WG2399074
Tetrachloroethene	U		0.0280	0.100	1	11/10/2024 16:48	WG2399074
Toluene	U		0.0500	0.200	1	11/10/2024 16:48	WG2399074
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 16:48	WG2399074
1,2,4-Trichlorobenzene	U	UJ	C3 J3 0.193	0.500	1	11/10/2024 16:48	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 16:48	WG2399074
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 16:48	WG2399074
Trichloroethene	0.0450		0.0160	0.0400	1	11/10/2024 16:48	WG2399074
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 16:48	WG2399074
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 16:48	WG2399074
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2024 16:48	WG2399074
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 16:48	WG2399074
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 16:48	WG2399074
Vinyl acetate	U		0.141	0.500	1	11/10/2024 16:48	WG2399074
Vinyl chloride	U		0.0273	0.100	1	11/10/2024 16:48	WG2399074
Xylenes, Total	U		0.191	0.260	1	11/10/2024 16:48	WG2399074
(S) Toluene-d8	100			75.0-131		11/10/2024 16:48	WG2399074
(S) 4-Bromofluorobenzene	99.4			67.0-138		11/10/2024 16:48	WG2399074
(S) 1,2-Dichloroethane-d4	94.9			70.0-130		11/10/2024 16:48	WG2399074

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	0.864	U	0.548	1.00	1	11/10/2024 17:07	WG2399074
Acrylonitrile	U		0.0760	0.500	1	11/10/2024 17:07	WG2399074
Benzene	U		0.0160	0.0400	1	11/10/2024 17:07	WG2399074
Bromobenzene	U		0.0420	0.500	1	11/10/2024 17:07	WG2399074
Bromochloromethane	U		0.0452	0.200	1	11/10/2024 17:07	WG2399074
Bromodichloromethane	U		0.0315	0.100	1	11/10/2024 17:07	WG2399074
Bromoform	U		0.239	1.00	1	11/10/2024 17:07	WG2399074
Bromomethane	U		0.148	0.500	1	11/10/2024 17:07	WG2399074
n-Butylbenzene	U		0.153	0.500	1	11/10/2024 17:07	WG2399074
sec-Butylbenzene	U		0.101	0.500	1	11/10/2024 17:07	WG2399074
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2024 17:07	WG2399074
Carbon disulfide	U		0.162	0.500	1	11/10/2024 17:07	WG2399074
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2024 17:07	WG2399074
Chlorobenzene	U		0.0229	0.100	1	11/10/2024 17:07	WG2399074
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2024 17:07	WG2399074
Chloroethane	U		0.0432	0.200	1	11/10/2024 17:07	WG2399074
Chloroform	U		0.0166	0.100	1	11/10/2024 17:07	WG2399074
Chloromethane	U		0.0556	0.500	1	11/10/2024 17:07	WG2399074
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2024 17:07	WG2399074
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2024 17:07	WG2399074
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2024 17:07	WG2399074
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2024 17:07	WG2399074
Dibromomethane	U		0.0400	0.200	1	11/10/2024 17:07	WG2399074
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2024 17:07	WG2399074
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2024 17:07	WG2399074
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2024 17:07	WG2399074
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/10/2024 17:07	WG2399074
Dichlorodifluoromethane	U		0.0327	0.200	1	11/10/2024 17:07	WG2399074
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2024 17:07	WG2399074
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2024 17:07	WG2399074
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2024 17:07	WG2399074
cis-1,2-Dichloroethene	0.463		0.0276	0.100	1	11/10/2024 17:07	WG2399074
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2024 17:07	WG2399074
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2024 17:07	WG2399074
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2024 17:07	WG2399074
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2024 17:07	WG2399074
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2024 17:07	WG2399074
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2024 17:07	WG2399074
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2024 17:07	WG2399074
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2024 17:07	WG2399074
Ethylbenzene	0.211		0.0212	0.100	1	11/10/2024 17:07	WG2399074
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2024 17:07	WG2399074
2-Hexanone	U		0.400	1.00	1	11/10/2024 17:07	WG2399074
n-Hexane	U		0.0424	0.200	1	11/10/2024 17:07	WG2399074
Iodomethane	U		0.242	0.500	1	11/10/2024 17:07	WG2399074
Isopropylbenzene	U		0.0345	0.100	1	11/10/2024 17:07	WG2399074
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2024 17:07	WG2399074
2-Butanone (MEK)	U		0.500	1.00	1	11/10/2024 17:07	WG2399074
Methylene Chloride	U		0.265	1.00	1	11/10/2024 17:07	WG2399074
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2024 17:07	WG2399074
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2024 17:07	WG2399074
Naphthalene	U		0.124	0.500	1	11/10/2024 17:07	WG2399074
n-Propylbenzene	U		0.0472	0.200	1	11/10/2024 17:07	WG2399074
Styrene	U		0.109	0.500	1	11/10/2024 17:07	WG2399074
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2024 17:07	WG2399074
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2024 17:07	WG2399074

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

JC 1/2/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 17:07	WG2399074	
Tetrachloroethene	1.54		0.0280	0.100	1	11/10/2024 17:07	WG2399074	
Toluene	0.254		0.0500	0.200	1	11/10/2024 17:07	WG2399074	
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 17:07	WG2399074	
1,2,4-Trichlorobenzene	U	UJ	C3 J3	0.193	0.500	1	11/10/2024 17:07	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 17:07	WG2399074	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 17:07	WG2399074	
Trichloroethene	0.232		0.0160	0.0400	1	11/10/2024 17:07	WG2399074	
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 17:07	WG2399074	
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 17:07	WG2399074	
1,2,4-Trimethylbenzene	0.0950	J	0.0464	0.200	1	11/10/2024 17:07	WG2399074	
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 17:07	WG2399074	
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 17:07	WG2399074	
Vinyl acetate	U		0.141	0.500	1	11/10/2024 17:07	WG2399074	
Vinyl chloride	U		0.0273	0.100	1	11/10/2024 17:07	WG2399074	
Xylenes, Total	0.986		0.191	0.260	1	11/10/2024 17:07	WG2399074	
(S) Toluene-d8	101			75.0-131		11/10/2024 17:07	WG2399074	
(S) 4-Bromofluorobenzene	98.6			67.0-138		11/10/2024 17:07	WG2399074	
(S) 1,2-Dichloroethane-d4	94.2			70.0-130		11/10/2024 17:07	WG2399074	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
	ug/l		ug/l	ug/l		date / time		
Acetone	1.01	U	B-C5	0.548	1.00	1	11/10/2024 17:26	WG2399074
Acrylonitrile	U		J4	0.0760	0.500	1	11/10/2024 17:26	WG2399074
Benzene	U			0.0160	0.0400	1	11/10/2024 17:26	WG2399074
Bromobenzene	U			0.0420	0.500	1	11/10/2024 17:26	WG2399074
Bromochloromethane	U			0.0452	0.200	1	11/10/2024 17:26	WG2399074
Bromodichloromethane	U			0.0315	0.100	1	11/10/2024 17:26	WG2399074
Bromoform	U			0.239	1.00	1	11/10/2024 17:26	WG2399074
Bromomethane	U			0.148	0.500	1	11/10/2024 17:26	WG2399074
n-Butylbenzene	U			0.153	0.500	1	11/10/2024 17:26	WG2399074
sec-Butylbenzene	U			0.101	0.500	1	11/10/2024 17:26	WG2399074
tert-Butylbenzene	U			0.0620	0.200	1	11/10/2024 17:26	WG2399074
Carbon disulfide	U			0.162	0.500	1	11/10/2024 17:26	WG2399074
Carbon tetrachloride	U			0.0432	0.200	1	11/10/2024 17:26	WG2399074
Chlorobenzene	U			0.0229	0.100	1	11/10/2024 17:26	WG2399074
Chlorodibromomethane	U			0.0180	0.100	1	11/10/2024 17:26	WG2399074
Chloroethane	U			0.0432	0.200	1	11/10/2024 17:26	WG2399074
Chloroform	U			0.0166	0.100	1	11/10/2024 17:26	WG2399074
Chloromethane	U			0.0556	0.500	1	11/10/2024 17:26	WG2399074
2-Chlorotoluene	U			0.0368	0.100	1	11/10/2024 17:26	WG2399074
4-Chlorotoluene	U			0.0452	0.200	1	11/10/2024 17:26	WG2399074
1,2-Dibromo-3-Chloropropane	U			0.204	1.00	1	11/10/2024 17:26	WG2399074
1,2-Dibromoethane	U			0.0210	0.100	1	11/10/2024 17:26	WG2399074
Dibromomethane	U			0.0400	0.200	1	11/10/2024 17:26	WG2399074
1,2-Dichlorobenzene	U			0.0580	0.200	1	11/10/2024 17:26	WG2399074
1,3-Dichlorobenzene	U			0.0680	0.200	1	11/10/2024 17:26	WG2399074
1,4-Dichlorobenzene	U			0.0788	0.200	1	11/10/2024 17:26	WG2399074
trans-1,4-Dichloro-2-butene	U			0.0560	0.200	1	11/10/2024 17:26	WG2399074
Dichlorodifluoromethane	U			0.0327	0.200	1	11/10/2024 17:26	WG2399074
1,1-Dichloroethane	U			0.0230	0.100	1	11/10/2024 17:26	WG2399074
1,2-Dichloroethane	U			0.0190	0.100	1	11/10/2024 17:26	WG2399074
1,1-Dichloroethene	U			0.0200	0.100	1	11/10/2024 17:26	WG2399074
cis-1,2-Dichloroethene	U			0.0276	0.100	1	11/10/2024 17:26	WG2399074
trans-1,2-Dichloroethene	U			0.0572	0.200	1	11/10/2024 17:26	WG2399074
1,2-Dichloropropane	U			0.0508	0.200	1	11/10/2024 17:26	WG2399074
1,1-Dichloropropene	U			0.0280	0.100	1	11/10/2024 17:26	WG2399074
1,3-Dichloropropane	U			0.0700	0.200	1	11/10/2024 17:26	WG2399074
cis-1,3-Dichloropropene	U			0.0271	0.100	1	11/10/2024 17:26	WG2399074
trans-1,3-Dichloropropene	U			0.0612	0.200	1	11/10/2024 17:26	WG2399074
2,2-Dichloropropane	U			0.0317	0.100	1	11/10/2024 17:26	WG2399074
Di-isopropyl ether	U			0.0140	0.0400	1	11/10/2024 17:26	WG2399074
Ethylbenzene	U			0.0212	0.100	1	11/10/2024 17:26	WG2399074
Hexachloro-1,3-butadiene	U			0.508	1.00	1	11/10/2024 17:26	WG2399074
2-Hexanone	U			0.400	1.00	1	11/10/2024 17:26	WG2399074
n-Hexane	U			0.0424	0.200	1	11/10/2024 17:26	WG2399074
Iodomethane	U			0.242	0.500	1	11/10/2024 17:26	WG2399074
Isopropylbenzene	U			0.0345	0.100	1	11/10/2024 17:26	WG2399074
p-Isopropyltoluene	U			0.0932	0.200	1	11/10/2024 17:26	WG2399074
2-Butanone (MEK)	U			0.500	1.00	1	11/10/2024 17:26	WG2399074
Methylene Chloride	U			0.265	1.00	1	11/10/2024 17:26	WG2399074
4-Methyl-2-pentanone (MIBK)	U			0.400	1.00	1	11/10/2024 17:26	WG2399074
Methyl tert-butyl ether	U			0.0118	0.0400	1	11/10/2024 17:26	WG2399074
Naphthalene	U	UJ	C3	0.124	0.500	1	11/10/2024 17:26	WG2399074
n-Propylbenzene	U			0.0472	0.200	1	11/10/2024 17:26	WG2399074
Styrene	U			0.109	0.500	1	11/10/2024 17:26	WG2399074
1,1,1,2-Tetrachloroethane	U			0.0200	0.100	1	11/10/2024 17:26	WG2399074
1,1,2,2-Tetrachloroethane	U			0.0156	0.100	1	11/10/2024 17:26	WG2399074

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 17:26	WG2399074
Tetrachloroethene	U		0.0280	0.100	1	11/10/2024 17:26	WG2399074
Toluene	U		0.0500	0.200	1	11/10/2024 17:26	WG2399074
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 17:26	WG2399074
1,2,4-Trichlorobenzene	U	UJ	CS JS 0.193	0.500	1	11/10/2024 17:26	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 17:26	WG2399074
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 17:26	WG2399074
Trichloroethene	U		0.0160	0.0400	1	11/10/2024 17:26	WG2399074
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 17:26	WG2399074
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 17:26	WG2399074
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2024 17:26	WG2399074
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 17:26	WG2399074
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 17:26	WG2399074
Vinyl acetate	U		0.141	0.500	1	11/10/2024 17:26	WG2399074
Vinyl chloride	U		0.0273	0.100	1	11/10/2024 17:26	WG2399074
Xylenes, Total	U		0.191	0.260	1	11/10/2024 17:26	WG2399074
(S) Toluene-d8	100			75.0-131		11/10/2024 17:26	WG2399074
(S) 4-Bromofluorobenzene	98.6			67.0-138		11/10/2024 17:26	WG2399074
(S) 1,2-Dichloroethane-d4	95.5			70.0-130		11/10/2024 17:26	WG2399074

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
	ug/l		ug/l	ug/l		date / time		
Acetone	1.68	U	B C5	0.548	1.00	1	11/10/2024 17:45	WG2399074
Acrylonitrile	U		J4	0.0760	0.500	1	11/10/2024 17:45	WG2399074
Benzene	U			0.0160	0.0400	1	11/10/2024 17:45	WG2399074
Bromobenzene	U			0.0420	0.500	1	11/10/2024 17:45	WG2399074
Bromochloromethane	U			0.0452	0.200	1	11/10/2024 17:45	WG2399074
Bromodichloromethane	U			0.0315	0.100	1	11/10/2024 17:45	WG2399074
Bromoform	U			0.239	1.00	1	11/10/2024 17:45	WG2399074
Bromomethane	U			0.148	0.500	1	11/10/2024 17:45	WG2399074
n-Butylbenzene	U			0.153	0.500	1	11/10/2024 17:45	WG2399074
sec-Butylbenzene	U			0.101	0.500	1	11/10/2024 17:45	WG2399074
tert-Butylbenzene	U			0.0620	0.200	1	11/10/2024 17:45	WG2399074
Carbon disulfide	U			0.162	0.500	1	11/10/2024 17:45	WG2399074
Carbon tetrachloride	U			0.0432	0.200	1	11/10/2024 17:45	WG2399074
Chlorobenzene	U			0.0229	0.100	1	11/10/2024 17:45	WG2399074
Chlorodibromomethane	U			0.0180	0.100	1	11/10/2024 17:45	WG2399074
Chloroethane	U			0.0432	0.200	1	11/10/2024 17:45	WG2399074
Chloroform	U			0.0166	0.100	1	11/10/2024 17:45	WG2399074
Chloromethane	U			0.0556	0.500	1	11/10/2024 17:45	WG2399074
2-Chlorotoluene	U			0.0368	0.100	1	11/10/2024 17:45	WG2399074
4-Chlorotoluene	U			0.0452	0.200	1	11/10/2024 17:45	WG2399074
1,2-Dibromo-3-Chloropropane	U			0.204	1.00	1	11/10/2024 17:45	WG2399074
1,2-Dibromoethane	U			0.0210	0.100	1	11/10/2024 17:45	WG2399074
Dibromomethane	U			0.0400	0.200	1	11/10/2024 17:45	WG2399074
1,2-Dichlorobenzene	U			0.0580	0.200	1	11/10/2024 17:45	WG2399074
1,3-Dichlorobenzene	U			0.0680	0.200	1	11/10/2024 17:45	WG2399074
1,4-Dichlorobenzene	U			0.0788	0.200	1	11/10/2024 17:45	WG2399074
trans-1,4-Dichloro-2-butene	U			0.0560	0.200	1	11/10/2024 17:45	WG2399074
Dichlorodifluoromethane	U			0.0327	0.200	1	11/10/2024 17:45	WG2399074
1,1-Dichloroethane	U			0.0230	0.100	1	11/10/2024 17:45	WG2399074
1,2-Dichloroethane	U			0.0190	0.100	1	11/10/2024 17:45	WG2399074
1,1-Dichloroethene	U			0.0200	0.100	1	11/10/2024 17:45	WG2399074
cis-1,2-Dichloroethene	U			0.0276	0.100	1	11/10/2024 17:45	WG2399074
trans-1,2-Dichloroethene	U			0.0572	0.200	1	11/10/2024 17:45	WG2399074
1,2-Dichloropropane	U			0.0508	0.200	1	11/10/2024 17:45	WG2399074
1,1-Dichloropropene	U			0.0280	0.100	1	11/10/2024 17:45	WG2399074
1,3-Dichloropropane	U			0.0700	0.200	1	11/10/2024 17:45	WG2399074
cis-1,3-Dichloropropene	U			0.0271	0.100	1	11/10/2024 17:45	WG2399074
trans-1,3-Dichloropropene	U			0.0612	0.200	1	11/10/2024 17:45	WG2399074
2,2-Dichloropropane	U			0.0317	0.100	1	11/10/2024 17:45	WG2399074
Di-isopropyl ether	U			0.0140	0.0400	1	11/10/2024 17:45	WG2399074
Ethylbenzene	U			0.0212	0.100	1	11/10/2024 17:45	WG2399074
Hexachloro-1,3-butadiene	U			0.508	1.00	1	11/10/2024 17:45	WG2399074
2-Hexanone	U			0.400	1.00	1	11/10/2024 17:45	WG2399074
n-Hexane	U			0.0424	0.200	1	11/10/2024 17:45	WG2399074
Iodomethane	U			0.242	0.500	1	11/10/2024 17:45	WG2399074
Isopropylbenzene	U			0.0345	0.100	1	11/10/2024 17:45	WG2399074
p-Isopropyltoluene	U			0.0932	0.200	1	11/10/2024 17:45	WG2399074
2-Butanone (MEK)	U			0.500	1.00	1	11/10/2024 17:45	WG2399074
Methylene Chloride	U			0.265	1.00	1	11/10/2024 17:45	WG2399074
4-Methyl-2-pentanone (MIBK)	U			0.400	1.00	1	11/10/2024 17:45	WG2399074
Methyl tert-butyl ether	U			0.0118	0.0400	1	11/10/2024 17:45	WG2399074
Naphthalene	U	UJ	CS	0.124	0.500	1	11/10/2024 17:45	WG2399074
n-Propylbenzene	U			0.0472	0.200	1	11/10/2024 17:45	WG2399074
Styrene	U			0.109	0.500	1	11/10/2024 17:45	WG2399074
1,1,1,2-Tetrachloroethane	U			0.0200	0.100	1	11/10/2024 17:45	WG2399074
1,1,2,2-Tetrachloroethane	U			0.0156	0.100	1	11/10/2024 17:45	WG2399074

JC 1/2/

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 17:45	WG2399074	
Tetrachloroethene	U		0.0280	0.100	1	11/10/2024 17:45	WG2399074	
Toluene	U		0.0500	0.200	1	11/10/2024 17:45	WG2399074	
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 17:45	WG2399074	
1,2,4-Trichlorobenzene	U	UJ	C3 J3	0.193	0.500	1	11/10/2024 17:45	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 17:45	WG2399074	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 17:45	WG2399074	
Trichloroethene	U		0.0160	0.0400	1	11/10/2024 17:45	WG2399074	
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 17:45	WG2399074	
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 17:45	WG2399074	
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2024 17:45	WG2399074	
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 17:45	WG2399074	
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 17:45	WG2399074	
Vinyl acetate	U		0.141	0.500	1	11/10/2024 17:45	WG2399074	
Vinyl chloride	U		0.0273	0.100	1	11/10/2024 17:45	WG2399074	
Xylenes, Total	U		0.191	0.260	1	11/10/2024 17:45	WG2399074	
(S) Toluene-d8	98.4			75.0-131		11/10/2024 17:45	WG2399074	
(S) 4-Bromofluorobenzene	97.3			67.0-138		11/10/2024 17:45	WG2399074	
(S) 1,2-Dichloroethane-d4	97.2			70.0-130		11/10/2024 17:45	WG2399074	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Alkalinity	224000		4750	20000	1	11/06/2024 15:05	WG2396469

Sample Narrative:
L1796048-05 WG2396469: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Chloride	19700		547	1000	1	11/06/2024 21:33	WG2396422
Nitrate as (N)	U		88.4	100	1	11/06/2024 21:33	WG2396422
Sulfate	38800		637	5000	1	11/12/2024 13:53	WG2396422

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
TOC (Total Organic Carbon)	2840		495	1000	1	11/07/2024 18:12	WG2396689

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Iron	1100		22.6	100	1	11/13/2024 22:32	WG2398247
Manganese	607		0.700	5.00	1	11/13/2024 22:32	WG2398247

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Methane	998		0.287	0.678	1	11/09/2024 20:59	WG2398527
Ethane	1.48		0.296	1.29	1	11/09/2024 20:59	WG2398527
Ethene	U		0.422	1.27	1	11/09/2024 20:59	WG2398527

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Acetone	2.23	U	0.548 0.0760	1.00	1	11/10/2024 18:05	WG2399074
Acrylonitrile	U		0.0760	0.500	1	11/10/2024 18:05	WG2399074
Benzene	U		0.0160	0.0400	1	11/10/2024 18:05	WG2399074
Bromobenzene	U		0.0420	0.500	1	11/10/2024 18:05	WG2399074
Bromochloromethane	U		0.0452	0.200	1	11/10/2024 18:05	WG2399074
Bromodichloromethane	U		0.0315	0.100	1	11/10/2024 18:05	WG2399074
Bromoform	U		0.239	1.00	1	11/10/2024 18:05	WG2399074
Bromomethane	U		0.148	0.500	1	11/10/2024 18:05	WG2399074
n-Butylbenzene	U		0.153	0.500	1	11/10/2024 18:05	WG2399074
sec-Butylbenzene	U		0.101	0.500	1	11/10/2024 18:05	WG2399074
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2024 18:05	WG2399074
Carbon disulfide	U		0.162	0.500	1	11/10/2024 18:05	WG2399074
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2024 18:05	WG2399074
Chlorobenzene	U		0.0229	0.100	1	11/10/2024 18:05	WG2399074
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2024 18:05	WG2399074
Chloroethane	U		0.0432	0.200	1	11/10/2024 18:05	WG2399074
Chloroform	U		0.0166	0.100	1	11/10/2024 18:05	WG2399074
Chloromethane	U		0.0556	0.500	1	11/10/2024 18:05	WG2399074
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2024 18:05	WG2399074
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2024 18:05	WG2399074

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/2/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2024 18:05	WG2399074
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2024 18:05	WG2399074
Dibromomethane	U		0.0400	0.200	1	11/10/2024 18:05	WG2399074
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2024 18:05	WG2399074
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2024 18:05	WG2399074
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2024 18:05	WG2399074
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/10/2024 18:05	WG2399074
Dichlorodifluoromethane	U		0.0327	0.200	1	11/10/2024 18:05	WG2399074
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2024 18:05	WG2399074
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2024 18:05	WG2399074
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2024 18:05	WG2399074
cis-1,2-Dichloroethene	0.373		0.0276	0.100	1	11/10/2024 18:05	WG2399074
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2024 18:05	WG2399074
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2024 18:05	WG2399074
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2024 18:05	WG2399074
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2024 18:05	WG2399074
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2024 18:05	WG2399074
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2024 18:05	WG2399074
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2024 18:05	WG2399074
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2024 18:05	WG2399074
Ethylbenzene	U		0.0212	0.100	1	11/10/2024 18:05	WG2399074
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2024 18:05	WG2399074
2-Hexanone	U		0.400	1.00	1	11/10/2024 18:05	WG2399074
n-Hexane	U		0.0424	0.200	1	11/10/2024 18:05	WG2399074
Iodomethane	U		0.242	0.500	1	11/10/2024 18:05	WG2399074
Isopropylbenzene	U		0.0345	0.100	1	11/10/2024 18:05	WG2399074
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2024 18:05	WG2399074
2-Butanone (MEK)	U		0.500	1.00	1	11/10/2024 18:05	WG2399074
Methylene Chloride	U		0.265	1.00	1	11/10/2024 18:05	WG2399074
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2024 18:05	WG2399074
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2024 18:05	WG2399074
Naphthalene	U	UJ CS	0.124	0.500	1	11/10/2024 18:05	WG2399074
n-Propylbenzene	U		0.0472	0.200	1	11/10/2024 18:05	WG2399074
Styrene	U		0.109	0.500	1	11/10/2024 18:05	WG2399074
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2024 18:05	WG2399074
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2024 18:05	WG2399074
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 18:05	WG2399074
Tetrachloroethene	U		0.0280	0.100	1	11/10/2024 18:05	WG2399074
Toluene	U		0.0500	0.200	1	11/10/2024 18:05	WG2399074
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 18:05	WG2399074
1,2,4-Trichlorobenzene	U	UJ CS JS	0.193	0.500	1	11/10/2024 18:05	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 18:05	WG2399074
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 18:05	WG2399074
Trichloroethene	U		0.0160	0.0400	1	11/10/2024 18:05	WG2399074
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 18:05	WG2399074
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 18:05	WG2399074
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2024 18:05	WG2399074
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 18:05	WG2399074
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 18:05	WG2399074
Vinyl acetate	U		0.141	0.500	1	11/10/2024 18:05	WG2399074
Vinyl chloride	0.122		0.0273	0.100	1	11/10/2024 18:05	WG2399074
Xylenes, Total	U		0.191	0.260	1	11/10/2024 18:05	WG2399074
(S) Toluene-d8	98.3			75.0-131		11/10/2024 18:05	WG2399074
(S) 4-Bromofluorobenzene	98.8			67.0-138		11/10/2024 18:05	WG2399074
(S) 1,2-Dichloroethane-d4	98.6			70.0-130		11/10/2024 18:05	WG2399074

JC 1/2/2025

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	333000		4750	20000	1	11/06/2024 15:11	WG2396469

Sample Narrative:
L1796048-07 WG2396469: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	61900		547	1000	1	11/06/2024 21:46	WG2396422
Nitrate as (N)	U		88.4	100	1	11/06/2024 21:46	WG2396422
Sulfate	19900		637	5000	1	11/12/2024 14:06	WG2396422

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	5130		495	1000	1	11/07/2024 18:32	WG2396689

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	2820		22.6	100	1	11/13/2024 22:35	WG2398247
Manganese	3430		0.700	5.00	1	11/13/2024 22:35	WG2398247

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	2160		0.287	0.678	1	11/09/2024 22:24	WG2398527
Ethane	27.3		0.296	1.29	1	11/09/2024 22:24	WG2398527
Ethene	1.84		0.422	1.27	1	11/09/2024 22:24	WG2398527

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	U	11.0	20.0	20	11/13/2024 08:46	WG2400357
Acrylonitrile	U		1.52	10.0	20	11/13/2024 08:46	WG2400357
Benzene	U		0.320	0.800	20	11/13/2024 08:46	WG2400357
Bromobenzene	U		0.840	10.0	20	11/13/2024 08:46	WG2400357
Bromochloromethane	U		0.904	4.00	20	11/13/2024 08:46	WG2400357
Bromodichloromethane	U		0.630	2.00	20	11/13/2024 08:46	WG2400357
Bromoform	U		4.78	20.0	20	11/13/2024 08:46	WG2400357
Bromomethane	U		2.96	10.0	20	11/13/2024 08:46	WG2400357
n-Butylbenzene	U		3.06	10.0	20	11/13/2024 08:46	WG2400357
sec-Butylbenzene	U		2.02	10.0	20	11/13/2024 08:46	WG2400357
tert-Butylbenzene	U		1.24	4.00	20	11/13/2024 08:46	WG2400357
Carbon disulfide	U		3.24	10.0	20	11/13/2024 08:46	WG2400357
Carbon tetrachloride	U		0.864	4.00	20	11/13/2024 08:46	WG2400357
Chlorobenzene	U		0.458	2.00	20	11/13/2024 08:46	WG2400357
Chlorodibromomethane	U		0.360	2.00	20	11/13/2024 08:46	WG2400357
Chloroethane	U		0.864	4.00	20	11/13/2024 08:46	WG2400357
Chloroform	U		0.332	2.00	20	11/13/2024 08:46	WG2400357
Chloromethane	U		1.11	10.0	20	11/13/2024 08:46	WG2400357
2-Chlorotoluene	U		0.736	2.00	20	11/13/2024 08:46	WG2400357
4-Chlorotoluene	U		0.904	4.00	20	11/13/2024 08:46	WG2400357

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/2/2025

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		4.08	20.0	20	11/13/2024 08:46	WG2400357
1,2-Dibromoethane	U		0.420	2.00	20	11/13/2024 08:46	WG2400357
Dibromomethane	U		0.800	4.00	20	11/13/2024 08:46	WG2400357
1,2-Dichlorobenzene	U		1.16	4.00	20	11/13/2024 08:46	WG2400357
1,3-Dichlorobenzene	U		1.36	4.00	20	11/13/2024 08:46	WG2400357
1,4-Dichlorobenzene	U		1.58	4.00	20	11/13/2024 08:46	WG2400357
trans-1,4-Dichloro-2-butene	U		1.12	4.00	20	11/13/2024 08:46	WG2400357
Dichlorodifluoromethane	U		0.654	4.00	20	11/13/2024 08:46	WG2400357
1,1-Dichloroethane	U		0.460	2.00	20	11/13/2024 08:46	WG2400357
1,2-Dichloroethane	U		0.380	2.00	20	11/13/2024 08:46	WG2400357
1,1-Dichloroethene	U		0.400	2.00	20	11/13/2024 08:46	WG2400357
cis-1,2-Dichloroethene	200		0.552	2.00	20	11/13/2024 08:46	WG2400357
trans-1,2-Dichloroethene	U		1.14	4.00	20	11/13/2024 08:46	WG2400357
1,2-Dichloropropane	U		1.02	4.00	20	11/13/2024 08:46	WG2400357
1,1-Dichloropropene	U		0.560	2.00	20	11/13/2024 08:46	WG2400357
1,3-Dichloropropane	U		1.40	4.00	20	11/13/2024 08:46	WG2400357
cis-1,3-Dichloropropene	U		0.542	2.00	20	11/13/2024 08:46	WG2400357
trans-1,3-Dichloropropene	U		1.22	4.00	20	11/13/2024 08:46	WG2400357
2,2-Dichloropropane	U		0.634	2.00	20	11/13/2024 08:46	WG2400357
Di-isopropyl ether	U		0.280	0.800	20	11/13/2024 08:46	WG2400357
Ethylbenzene	U		0.424	2.00	20	11/17/2024 16:29	WG2400944
Hexachloro-1,3-butadiene	U		10.2	20.0	20	11/13/2024 08:46	WG2400357
2-Hexanone	U		8.00	20.0	20	11/17/2024 16:29	WG2400944
n-Hexane	U		0.848	4.00	20	11/13/2024 08:46	WG2400357
Iodomethane	U		4.84	10.0	20	11/13/2024 08:46	WG2400357
Isopropylbenzene	3.02		0.690	2.00	20	11/13/2024 08:46	WG2400357
p-Isopropyltoluene	U		1.86	4.00	20	11/13/2024 08:46	WG2400357
2-Butanone (MEK)	U	UJ	CS J3	10.0	20	11/13/2024 08:46	WG2400357
Methylene Chloride	U		5.30	20.0	20	11/13/2024 08:46	WG2400357
4-Methyl-2-pentanone (MIBK)	U		8.00	20.0	20	11/13/2024 08:46	WG2400357
Methyl tert-butyl ether	U		0.236	0.800	20	11/13/2024 08:46	WG2400357
Naphthalene	U		2.48	10.0	20	11/17/2024 16:29	WG2400944
n-Propylbenzene	U		0.944	4.00	20	11/17/2024 16:29	WG2400944
Styrene	U		2.18	10.0	20	11/13/2024 08:46	WG2400357
1,1,1,2-Tetrachloroethane	U		0.400	2.00	20	11/13/2024 08:46	WG2400357
1,1,2,2-Tetrachloroethane	U		0.312	2.00	20	11/13/2024 08:46	WG2400357
1,1,2-Trichlorotrifluoroethane	U		0.540	2.00	20	11/13/2024 08:46	WG2400357
Tetrachloroethene	186		0.560	2.00	20	11/13/2024 08:46	WG2400357
Toluene	2.06	U	J3	1.00	20	11/13/2024 08:46	WG2400357
1,2,3-Trichlorobenzene	U		0.500	10.0	20	11/13/2024 08:46	WG2400357
1,2,4-Trichlorobenzene	U		3.86	10.0	20	11/13/2024 08:46	WG2400357
1,1,1-Trichloroethane	U		0.220	2.00	20	11/13/2024 08:46	WG2400357
1,1,2-Trichloroethane	U		0.706	2.00	20	11/13/2024 08:46	WG2400357
Trichloroethene	106		0.320	0.800	20	11/13/2024 08:46	WG2400357
Trichlorofluoromethane	U		0.400	2.00	20	11/13/2024 08:46	WG2400357
1,2,3-Trichloropropane	U		4.08	10.0	20	11/13/2024 08:46	WG2400357
1,2,4-Trimethylbenzene	U		0.928	4.00	20	11/17/2024 16:29	WG2400944
1,2,3-Trimethylbenzene	U		0.920	4.00	20	11/17/2024 16:29	WG2400944
1,3,5-Trimethylbenzene	U		0.864	4.00	20	11/17/2024 16:29	WG2400944
Vinyl acetate	U		2.82	10.0	20	11/13/2024 08:46	WG2400357
Vinyl chloride	3.46		0.546	2.00	20	11/13/2024 08:46	WG2400357
Xylenes, Total	U		3.82	5.20	20	11/17/2024 16:29	WG2400944
(S) Toluene-d8	99.5			75.0-131		11/13/2024 08:46	WG2400357
(S) Toluene-d8	107			75.0-131		11/17/2024 16:29	WG2400944
(S) 4-Bromofluorobenzene	96.2			67.0-138		11/13/2024 08:46	WG2400357
(S) 4-Bromofluorobenzene	97.7			67.0-138		11/17/2024 16:29	WG2400944

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/13/2024 08:46	WG2400357
(S) 1,2-Dichloroethane-d4	93.3			70.0-130		11/17/2024 16:29	WG2400944

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/13/2024 04:27	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 04:27	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 04:27	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 04:27	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 04:27	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 04:27	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 04:27	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 04:27	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 04:27	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 04:27	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 04:27	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 04:27	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 04:27	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 04:27	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 04:27	WG2400372
Chloroethane	U	UJ C3 J3 J4	0.0432	0.200	1	11/13/2024 04:27	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 04:27	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 04:27	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 04:27	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 04:27	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 04:27	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 04:27	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 04:27	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 04:27	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 04:27	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 04:27	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 04:27	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 04:27	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 04:27	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 04:27	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 04:27	WG2400372
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/13/2024 04:27	WG2400372
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 04:27	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 04:27	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 04:27	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 04:27	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 04:27	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 04:27	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 04:27	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 04:27	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 04:27	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 04:27	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 04:27	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 04:27	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 04:27	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 04:27	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 04:27	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 04:27	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 04:27	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 04:27	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 04:27	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 04:27	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 04:27	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 04:27	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 04:27	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 04:27	WG2400372

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

JC 1/2/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 04:27	WG2400372
Tetrachloroethene	0.670		0.0280	0.100	1	11/13/2024 04:27	WG2400372
Toluene	0.0530	U U	0.0500	0.200	1	11/13/2024 04:27	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 04:27	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 04:27	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 04:27	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 04:27	WG2400372
Trichloroethene	0.204		0.0160	0.0400	1	11/13/2024 04:27	WG2400372
Trichlorofluoromethane	U	UJ CS JS	0.0200	0.100	1	11/13/2024 04:27	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 04:27	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 04:27	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 04:27	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 04:27	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 04:27	WG2400372
Vinyl chloride	U		0.0273	0.100	1	11/13/2024 04:27	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 04:27	WG2400372
(S) Toluene-d8	100			75.0-131		11/13/2024 04:27	WG2400372
(S) 4-Bromofluorobenzene	100			67.0-138		11/13/2024 04:27	WG2400372
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/13/2024 04:27	WG2400372

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/2/2025

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	207000		4750	20000	1	11/09/2024 09:54	WG2397503

Sample Narrative:

L1796726-01 WG2397503: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	32000		547	1000	1	11/07/2024 21:02	WG2397331
Nitrate as (N)	U		88.4	100	1	11/07/2024 21:02	WG2397331
Sulfate	42000		637	5000	1	11/07/2024 21:02	WG2397331

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1330		495	1000	1	11/08/2024 15:03	WG2397988

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	347		22.6	100	1	11/14/2024 12:11	WG2399540
Manganese	118		0.700	5.00	1	11/14/2024 12:11	WG2399540

Volatile Organic Compounds (GC) by Method RSK175

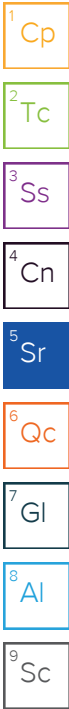
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	554		0.287	0.678	1	11/11/2024 11:17	WG2398843
Ethane	2.50		0.296	1.29	1	11/11/2024 11:17	WG2398843
Ethene	9.25		0.422	1.27	1	11/11/2024 11:17	WG2398843

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		
Acetone	5.59	U	C5 J4	0.548	1.00	1	11/13/2024 04:46	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 04:46	WG2400372	
Benzene	U		0.0160	0.0400	1	11/13/2024 04:46	WG2400372	
Bromobenzene	U		0.0420	0.500	1	11/13/2024 04:46	WG2400372	
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 04:46	WG2400372	
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 04:46	WG2400372	
Bromoform	U		0.239	1.00	1	11/13/2024 04:46	WG2400372	
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 04:46	WG2400372	
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 04:46	WG2400372	
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 04:46	WG2400372	
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 04:46	WG2400372	
Carbon disulfide	0.234	J	0.162	0.500	1	11/13/2024 04:46	WG2400372	
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 04:46	WG2400372	
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 04:46	WG2400372	
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 04:46	WG2400372	
Chloroethane	U	UJ	C3 J3 J4	0.0432	0.200	1	11/13/2024 04:46	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 04:46	WG2400372	
Chloromethane	U		0.0556	0.500	1	11/13/2024 04:46	WG2400372	
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 04:46	WG2400372	
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 04:46	WG2400372	

JC 12/5/24

JC 12/5/24



MW-347-110624

SAMPLE RESULTS - 01

Collected date/time: 11/06/24 11:00

L1796726

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 04:46	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 04:46	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 04:46	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 04:46	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 04:46	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 04:46	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 04:46	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 04:46	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 04:46	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 04:46	WG2400372
1,1-Dichloroethene	0.0290	J	0.0200	0.100	1	11/13/2024 04:46	WG2400372
cis-1,2-Dichloroethene	0.829		0.0276	0.100	1	11/13/2024 04:46	WG2400372
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 04:46	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 04:46	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 04:46	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 04:46	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 04:46	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 04:46	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 04:46	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 04:46	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 04:46	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 04:46	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 04:46	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 04:46	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 04:46	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 04:46	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 04:46	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 04:46	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 04:46	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 04:46	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 04:46	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 04:46	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 04:46	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 04:46	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 04:46	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 04:46	WG2400372
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 04:46	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 04:46	WG2400372
Toluene	0.0790	J	0.0500	0.200	1	11/13/2024 04:46	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 04:46	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 04:46	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 04:46	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 04:46	WG2400372
Trichloroethene	0.0960		0.0160	0.0400	1	11/13/2024 04:46	WG2400372
Trichlorofluoromethane	U	UJ C3-J3	0.0200	0.100	1	11/13/2024 04:46	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 04:46	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 04:46	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 04:46	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 04:46	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 04:46	WG2400372
Vinyl chloride	6.02		0.0273	0.100	1	11/13/2024 04:46	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 04:46	WG2400372
(S) Toluene-d8	99.2			75.0-131		11/13/2024 04:46	WG2400372
(S) 4-Bromofluorobenzene	101			67.0-138		11/13/2024 04:46	WG2400372
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/13/2024 04:46	WG2400372

JC 12/5/24

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

L143001.10.603.04

SDG:

L1796726

DATE/TIME:

11/15/24 09:40

PAGE:

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1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/13/2024 05:05	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 05:05	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 05:05	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 05:05	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 05:05	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 05:05	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 05:05	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 05:05	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 05:05	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 05:05	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 05:05	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 05:05	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 05:05	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 05:05	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 05:05	WG2400372
Chloroethane	U	UJ C3 J3 J4	0.0432	0.200	1	11/13/2024 05:05	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 05:05	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 05:05	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 05:05	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 05:05	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 05:05	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 05:05	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 05:05	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 05:05	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 05:05	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 05:05	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 05:05	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 05:05	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 05:05	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 05:05	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 05:05	WG2400372
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/13/2024 05:05	WG2400372
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 05:05	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 05:05	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 05:05	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 05:05	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 05:05	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 05:05	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 05:05	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 05:05	WG2400372
Ethylbenzene	0.0830	J	0.0212	0.100	1	11/13/2024 05:05	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 05:05	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 05:05	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 05:05	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 05:05	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 05:05	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 05:05	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 05:05	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 05:05	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 05:05	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 05:05	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 05:05	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 05:05	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 05:05	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 05:05	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 05:05	WG2400372

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

JC 12/5/24

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 05:05	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 05:05	WG2400372
Toluene	0.0650	J	0.0500	0.200	1	11/13/2024 05:05	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 05:05	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 05:05	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 05:05	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 05:05	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 05:05	WG2400372
Trichlorofluoromethane	U	UJ C3 J3	0.0200	0.100	1	11/13/2024 05:05	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 05:05	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 05:05	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 05:05	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 05:05	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 05:05	WG2400372
Vinyl chloride	U		0.0273	0.100	1	11/13/2024 05:05	WG2400372
Xylenes, Total	0.417		0.191	0.260	1	11/13/2024 05:05	WG2400372
(S) Toluene-d8	99.1			75.0-131		11/13/2024 05:05	WG2400372
(S) 4-Bromofluorobenzene	99.5			67.0-138		11/13/2024 05:05	WG2400372
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/13/2024 05:05	WG2400372

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 12/5/24

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Alkalinity	903000		4750	20000	1	11/09/2024 10:00	WG2397503

Sample Narrative:
L1796726-04 WG2397503: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Chloride	71600		547	1000	1	11/07/2024 21:20	WG2397331
Nitrate as (N)	232		88.4	100	1	11/07/2024 21:20	WG2397331
Sulfate	U		637	5000	1	11/07/2024 21:20	WG2397331

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
TOC (Total Organic Carbon)	6670		495	1000	1	11/08/2024 15:22	WG2397988

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Iron	11200		22.6	100	1	11/14/2024 12:14	WG2399540
Manganese	2280		0.700	5.00	1	11/14/2024 12:14	WG2399540

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Methane	34600		2.87	6.78	10	11/11/2024 15:22	WG2399629
Ethane	488		0.296	1.29	1	11/11/2024 11:22	WG2398843
Ethene	U		0.422	1.27	1	11/11/2024 11:22	WG2398843

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
	ug/l		ug/l	ug/l		date / time		
Acetone	3.04	U	C5 J4	0.548	1.00	1	11/13/2024 05:24	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 05:24	WG2400372	
Benzene	0.0260	J	0.0160	0.0400	1	11/13/2024 05:24	WG2400372	
Bromobenzene	U		0.0420	0.500	1	11/13/2024 05:24	WG2400372	
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 05:24	WG2400372	
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 05:24	WG2400372	
Bromoform	U		0.239	1.00	1	11/13/2024 05:24	WG2400372	
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 05:24	WG2400372	
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 05:24	WG2400372	
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 05:24	WG2400372	
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 05:24	WG2400372	
Carbon disulfide	0.204	J	0.162	0.500	1	11/13/2024 05:24	WG2400372	
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 05:24	WG2400372	
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 05:24	WG2400372	
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 05:24	WG2400372	
Chloroethane	U	UJ	C3 J3 J4	0.0432	0.200	1	11/13/2024 05:24	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 05:24	WG2400372	
Chloromethane	U		0.0556	0.500	1	11/13/2024 05:24	WG2400372	
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 05:24	WG2400372	
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 05:24	WG2400372	

JC 12/5/24

JC 12/5/24

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

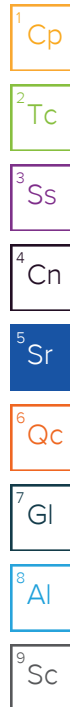
7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 05:24	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 05:24	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 05:24	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 05:24	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 05:24	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 05:24	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 05:24	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 05:24	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 05:24	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 05:24	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 05:24	WG2400372
cis-1,2-Dichloroethene	3.58		0.0276	0.100	1	11/13/2024 05:24	WG2400372
trans-1,2-Dichloroethene	0.427		0.0572	0.200	1	11/13/2024 05:24	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 05:24	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 05:24	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 05:24	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 05:24	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 05:24	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 05:24	WG2400372
Di-isopropyl ether	0.0940		0.0140	0.0400	1	11/13/2024 05:24	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 05:24	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 05:24	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 05:24	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 05:24	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 05:24	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 05:24	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 05:24	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 05:24	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 05:24	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 05:24	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 05:24	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 05:24	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 05:24	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 05:24	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 05:24	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 05:24	WG2400372
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 05:24	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 05:24	WG2400372
Toluene	0.466		0.0500	0.200	1	11/13/2024 05:24	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 05:24	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 05:24	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 05:24	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 05:24	WG2400372
Trichloroethene	0.263		0.0160	0.0400	1	11/13/2024 05:24	WG2400372
Trichlorofluoromethane	U	UJ C3 J3	0.0200	0.100	1	11/13/2024 05:24	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 05:24	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 05:24	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 05:24	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 05:24	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 05:24	WG2400372
Vinyl chloride	3.23		0.0273	0.100	1	11/13/2024 05:24	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 05:24	WG2400372
(S) Toluene-d8	98.6			75.0-131		11/13/2024 05:24	WG2400372
(S) 4-Bromofluorobenzene	101			67.0-138		11/13/2024 05:24	WG2400372
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/13/2024 05:24	WG2400372



JC 12/5/24

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/13/2024 05:43	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 05:43	WG2400372
Benzene	0.0170	J	0.0160	0.0400	1	11/13/2024 05:43	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 05:43	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 05:43	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 05:43	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 05:43	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 05:43	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 05:43	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 05:43	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 05:43	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 05:43	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 05:43	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 05:43	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 05:43	WG2400372
Chloroethane	0.674	J- C3 J3 J4	0.0432	0.200	1	11/13/2024 05:43	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 05:43	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 05:43	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 05:43	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 05:43	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 05:43	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 05:43	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 05:43	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 05:43	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 05:43	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 05:43	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 05:43	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 05:43	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 05:43	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 05:43	WG2400372
1,1-Dichloroethene	0.461		0.0200	0.100	1	11/13/2024 05:43	WG2400372
cis-1,2-Dichloroethene	257		0.552	2.00	20	11/13/2024 19:06	WG2400912
trans-1,2-Dichloroethene	3.19		0.0572	0.200	1	11/13/2024 05:43	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 05:43	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 05:43	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 05:43	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 05:43	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 05:43	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 05:43	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 05:43	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 05:43	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 05:43	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 05:43	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 05:43	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 05:43	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 05:43	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 05:43	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 05:43	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 05:43	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 05:43	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 05:43	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 05:43	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 05:43	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 05:43	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 05:43	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 05:43	WG2400372

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

JC 12/5/24

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 05:43	WG2400372	
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 05:43	WG2400372	
Toluene	U		0.0500	0.200	1	11/13/2024 05:43	WG2400372	
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 05:43	WG2400372	
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 05:43	WG2400372	
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 05:43	WG2400372	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 05:43	WG2400372	
Trichloroethene	0.880		0.0160	0.0400	1	11/13/2024 05:43	WG2400372	
Trichlorofluoromethane	U	UJ	C3-J3	0.0200	0.100	1	11/13/2024 05:43	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 05:43	WG2400372	
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 05:43	WG2400372	
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 05:43	WG2400372	
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 05:43	WG2400372	
Vinyl acetate	U		0.141	0.500	1	11/13/2024 05:43	WG2400372	
Vinyl chloride	480		0.546	2.00	20	11/13/2024 19:06	WG2400912	
Xylenes, Total	U		0.191	0.260	1	11/13/2024 05:43	WG2400372	
(S) Toluene-d8	97.0			75.0-131		11/13/2024 05:43	WG2400372	
(S) Toluene-d8	101			75.0-131		11/13/2024 19:06	WG2400912	
(S) 4-Bromofluorobenzene	101			67.0-138		11/13/2024 05:43	WG2400372	
(S) 4-Bromofluorobenzene	93.7			67.0-138		11/13/2024 19:06	WG2400912	
(S) 1,2-Dichloroethane-d4	111			70.0-130		11/13/2024 05:43	WG2400372	
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/13/2024 19:06	WG2400912	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Alkalinity	437000		4750	20000	1	11/09/2024 10:04	WG2397503

Sample Narrative:
L1796726-06 WG2397503: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Chloride	33000		547	1000	1	11/07/2024 21:37	WG2397331
Nitrate as (N)	U		88.4	100	1	11/07/2024 21:37	WG2397331
Sulfate	9890		637	5000	1	11/07/2024 21:37	WG2397331

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
TOC (Total Organic Carbon)	2360		495	1000	1	11/08/2024 15:44	WG2397988

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Iron	3980		22.6	100	1	11/14/2024 12:17	WG2399540
Manganese	426		0.700	5.00	1	11/14/2024 12:17	WG2399540

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Methane	5940		0.287	0.678	1	11/11/2024 11:28	WG2398843
Ethane	1.21	J	0.296	1.29	1	11/11/2024 11:28	WG2398843
Ethene	1.60		0.422	1.27	1	11/11/2024 11:28	WG2398843

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Acetone	66.4	J+ C5 J4	0.548	1.00	1	11/13/2024 06:02	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 06:02	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 06:02	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 06:02	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 06:02	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 06:02	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 06:02	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 06:02	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 06:02	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 06:02	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 06:02	WG2400372
Carbon disulfide	0.269	J	0.162	0.500	1	11/13/2024 06:02	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 06:02	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 06:02	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 06:02	WG2400372
Chloroethane	U	UJ C3 J3 J4	0.0432	0.200	1	11/13/2024 06:02	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 06:02	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 06:02	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 06:02	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 06:02	WG2400372

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 12/5/24

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 06:02	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 06:02	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 06:02	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 06:02	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 06:02	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 06:02	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 06:02	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 06:02	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 06:02	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 06:02	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 06:02	WG2400372
cis-1,2-Dichloroethene	0.376		0.0276	0.100	1	11/13/2024 17:09	WG2400912
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 06:02	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 06:02	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 06:02	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 06:02	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 06:02	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 06:02	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 06:02	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 06:02	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 06:02	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 06:02	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 06:02	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 06:02	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 06:02	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 06:02	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 06:02	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 06:02	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 06:02	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 06:02	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 06:02	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 06:02	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 06:02	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 06:02	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 06:02	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 06:02	WG2400372
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 06:02	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 06:02	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 06:02	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 06:02	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 06:02	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 06:02	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 06:02	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 06:02	WG2400372
Trichlorofluoromethane	U	UJ C3J3	0.0200	0.100	1	11/13/2024 06:02	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 06:02	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 06:02	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 06:02	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 06:02	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 06:02	WG2400372
Vinyl chloride	0.554		0.0273	0.100	1	11/13/2024 17:09	WG2400912
Xylenes, Total	U		0.191	0.260	1	11/13/2024 06:02	WG2400372
(S) Toluene-d8	94.6			75.0-131		11/13/2024 06:02	WG2400372
(S) Toluene-d8	98.3			75.0-131		11/13/2024 17:09	WG2400912
(S) 4-Bromofluorobenzene	103			67.0-138		11/13/2024 06:02	WG2400372
(S) 4-Bromofluorobenzene	103			67.0-138		11/13/2024 17:09	WG2400912

JC 12/5/24

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	111			70.0-130		11/13/2024 06:02	WG2400372
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/13/2024 17:09	WG2400912

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.78	J+	C5 J4	0.548	1.00	1	11/13/2024 06:22
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 06:22	
Benzene	0.0410		0.0160	0.0400	1	11/13/2024 06:22	
Bromobenzene	U		0.0420	0.500	1	11/13/2024 06:22	
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 06:22	
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 06:22	
Bromoform	U		0.239	1.00	1	11/13/2024 06:22	
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 06:22	
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 06:22	
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 06:22	
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 06:22	
Carbon disulfide	U		0.162	0.500	1	11/13/2024 06:22	
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 06:22	
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 06:22	
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 06:22	
Chloroethane	U	UJ	C5 J3 J4	0.0432	0.200	1	11/13/2024 06:22
Chloroform	U		0.0166	0.100	1	11/13/2024 06:22	
Chloromethane	U		0.0556	0.500	1	11/13/2024 06:22	
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 06:22	
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 06:22	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 06:22	
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 06:22	
Dibromomethane	U		0.0400	0.200	1	11/13/2024 06:22	
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 06:22	
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 06:22	
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 06:22	
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 06:22	
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 06:22	
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 06:22	
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 06:22	
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 06:22	
cis-1,2-Dichloroethene	0.173	J3	0.0276	0.100	1	11/13/2024 17:29	
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 06:22	
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 06:22	
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 06:22	
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 06:22	
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 06:22	
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 06:22	
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 06:22	
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 06:22	
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 06:22	
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 06:22	
2-Hexanone	U		0.400	1.00	1	11/13/2024 06:22	
n-Hexane	U		0.0424	0.200	1	11/13/2024 06:22	
Iodomethane	U		0.242	0.500	1	11/13/2024 06:22	
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 06:22	
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 06:22	
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 06:22	
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 06:22	
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 06:22	
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 06:22	
Naphthalene	U		0.124	0.500	1	11/13/2024 06:22	
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 06:22	
Styrene	U		0.109	0.500	1	11/13/2024 06:22	
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 06:22	
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 06:22	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/2/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 06:22	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 06:22	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 06:22	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 06:22	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 06:22	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 06:22	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 06:22	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 06:22	WG2400372
Trichlorofluoromethane	U	UJ CS JJ	0.0200	0.100	1	11/13/2024 06:22	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 06:22	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 06:22	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 06:22	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 06:22	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 06:22	WG2400372
Vinyl chloride	0.268		0.0273	0.100	1	11/13/2024 17:29	WG2400912
Xylenes, Total	U		0.191	0.260	1	11/13/2024 06:22	WG2400372
(S) Toluene-d8	97.6			75.0-131		11/13/2024 06:22	WG2400372
(S) Toluene-d8	99.4			75.0-131		11/13/2024 17:29	WG2400912
(S) 4-Bromofluorobenzene	101			67.0-138		11/13/2024 06:22	WG2400372
(S) 4-Bromofluorobenzene	92.5			67.0-138		11/13/2024 17:29	WG2400912
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/13/2024 06:22	WG2400372
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/13/2024 17:29	WG2400912

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/2/2025

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	237000		4750	20000	1	11/09/2024 08:18	WG2398654

Sample Narrative:
L1796865-02 WG2398654: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	15600		547	1000	1	11/07/2024 20:38	WG2397513
Nitrate as (N)	U		88.4	100	1	11/07/2024 20:38	WG2397513
Sulfate	34900		637	5000	1	11/07/2024 20:38	WG2397513

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	5050		495	1000	1	11/08/2024 16:03	WG2397988

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	2080		22.6	100	1	11/14/2024 12:20	WG2399540
Manganese	842		0.700	5.00	1	11/14/2024 12:20	WG2399540

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	7810		2.87	6.78	10	11/10/2024 17:32	WG2399172
Ethane	42.5		0.296	1.29	1	11/10/2024 14:20	WG2398842
Ethene	55.0		0.422	1.27	1	11/10/2024 14:20	WG2398842

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	2.99	J+ C5 J4	0.548	1.00	1	11/13/2024 06:41	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 06:41	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 06:41	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 06:41	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 06:41	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 06:41	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 06:41	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 06:41	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 06:41	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 06:41	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 06:41	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 06:41	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 06:41	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 06:41	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 06:41	WG2400372
Chloroethane	U	UJ C3 J3 J4	0.0432	0.200	1	11/13/2024 06:41	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 06:41	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 06:41	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 06:41	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 06:41	WG2400372

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/2/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 06:41	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 06:41	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 06:41	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 06:41	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 06:41	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 06:41	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 06:41	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 06:41	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 06:41	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 06:41	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 06:41	WG2400372
cis-1,2-Dichloroethene	2.22		0.0276	0.100	1	11/13/2024 06:41	WG2400372
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 06:41	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 06:41	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 06:41	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 06:41	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 06:41	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 06:41	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 06:41	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 06:41	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 06:41	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 06:41	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 06:41	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 06:41	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 06:41	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 06:41	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 06:41	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 06:41	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 06:41	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 06:41	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 06:41	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 06:41	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 06:41	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 06:41	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 06:41	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 06:41	WG2400372
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 06:41	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 06:41	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 06:41	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 06:41	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 06:41	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 06:41	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 06:41	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 06:41	WG2400372
Trichlorofluoromethane	U	UJ CS JS	0.0200	0.100	1	11/13/2024 06:41	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 06:41	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 06:41	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 06:41	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 06:41	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 06:41	WG2400372
Vinyl chloride	24.0		0.0273	0.100	1	11/13/2024 06:41	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 06:41	WG2400372
(S) Toluene-d8	97.2			75.0-131		11/13/2024 06:41	WG2400372
(S) 4-Bromofluorobenzene	99.9			67.0-138		11/13/2024 06:41	WG2400372
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/13/2024 06:41	WG2400372

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/2/2025

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/13/2024 07:00	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 07:00	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 07:00	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 07:00	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 07:00	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 07:00	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 07:00	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 07:00	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 07:00	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 07:00	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 07:00	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 07:00	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 07:00	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 07:00	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 07:00	WG2400372
Chloroethane	U	UJ C3 J3 J4	0.0432	0.200	1	11/13/2024 07:00	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 07:00	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 07:00	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 07:00	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 07:00	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 07:00	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 07:00	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 07:00	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 07:00	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 07:00	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 07:00	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 07:00	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 07:00	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 07:00	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 07:00	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 07:00	WG2400372
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/13/2024 07:00	WG2400372
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 07:00	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 07:00	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 07:00	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 07:00	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 07:00	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 07:00	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 07:00	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 07:00	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 07:00	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 07:00	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 07:00	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 07:00	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 07:00	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 07:00	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 07:00	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 07:00	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 07:00	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 07:00	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 07:00	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 07:00	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 07:00	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 07:00	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 07:00	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 07:00	WG2400372

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/2/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 07:00	WG2400372
Tetrachloroethene	0.0610		0.0280	0.100	1	11/13/2024 07:00	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 07:00	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 07:00	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 07:00	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 07:00	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 07:00	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 07:00	WG2400372
Trichlorofluoromethane	U		0.0200	0.100	1	11/13/2024 07:00	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 07:00	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 07:00	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 07:00	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 07:00	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 07:00	WG2400372
Vinyl chloride	U		0.0273	0.100	1	11/13/2024 07:00	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 07:00	WG2400372
(S) Toluene-d8	98.7			75.0-131		11/13/2024 07:00	WG2400372
(S) 4-Bromofluorobenzene	100			67.0-138		11/13/2024 07:00	WG2400372
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/13/2024 07:00	WG2400372

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

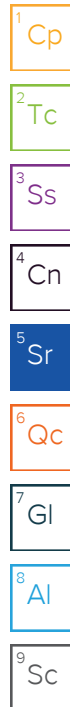
8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/13/2024 07:19	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 07:19	WG2400372
Benzene	0.0370	J	0.0160	0.0400	1	11/13/2024 07:19	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 07:19	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 07:19	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 07:19	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 07:19	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 07:19	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 07:19	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 07:19	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 07:19	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 07:19	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 07:19	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 07:19	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 07:19	WG2400372
Chloroethane	U	UJ C3 J3 J4	0.0432	0.200	1	11/13/2024 07:19	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 07:19	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 07:19	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 07:19	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 07:19	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 07:19	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 07:19	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 07:19	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 07:19	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 07:19	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 07:19	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 07:19	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 07:19	WG2400372
1,1-Dichloroethane	0.717		0.0230	0.100	1	11/13/2024 07:19	WG2400372
1,2-Dichloroethane	0.295		0.0190	0.100	1	11/13/2024 07:19	WG2400372
1,1-Dichloroethene	0.341		0.0200	0.100	1	11/13/2024 07:19	WG2400372
cis-1,2-Dichloroethene	66.2		0.0276	0.100	1	11/13/2024 07:19	WG2400372
trans-1,2-Dichloroethene	0.161	J	0.0572	0.200	1	11/13/2024 07:19	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 07:19	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 07:19	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 07:19	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 07:19	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 07:19	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 07:19	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 07:19	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 07:19	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 07:19	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 07:19	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 07:19	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 07:19	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 07:19	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 07:19	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 07:19	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 07:19	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 07:19	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 07:19	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 07:19	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 07:19	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 07:19	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 07:19	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 07:19	WG2400372

JC 1/2/2025



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 07:19	WG2400372
Tetrachloroethene	0.0380	J	0.0280	0.100	1	11/13/2024 07:19	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 07:19	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 07:19	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 07:19	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 07:19	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 07:19	WG2400372
Trichloroethene	1.05		0.0160	0.0400	1	11/13/2024 07:19	WG2400372
Trichlorofluoromethane	U	UJ C3 J3	0.0200	0.100	1	11/13/2024 07:19	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 07:19	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 07:19	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 07:19	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 07:19	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 07:19	WG2400372
Vinyl chloride	6.39		0.0273	0.100	1	11/13/2024 07:19	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 07:19	WG2400372
(S) Toluene-d8	99.0			75.0-131		11/13/2024 07:19	WG2400372
(S) 4-Bromofluorobenzene	100			67.0-138		11/13/2024 07:19	WG2400372
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/13/2024 07:19	WG2400372

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

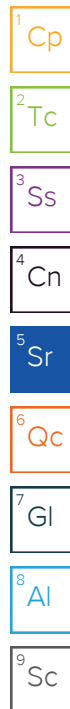
8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/13/2024 07:38	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 07:38	WG2400372
Benzene	23.8		0.0160	0.0400	1	11/13/2024 07:38	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 07:38	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 07:38	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 07:38	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 07:38	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 07:38	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 07:38	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 07:38	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 07:38	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 07:38	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 07:38	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 07:38	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 07:38	WG2400372
Chloroethane	U	UJ C3 J3 J4	0.0432	0.200	1	11/13/2024 07:38	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 07:38	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 07:38	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 07:38	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 07:38	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 07:38	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 07:38	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 07:38	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 07:38	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 07:38	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 07:38	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 07:38	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 07:38	WG2400372
1,1-Dichloroethane	0.565		0.0230	0.100	1	11/13/2024 07:38	WG2400372
1,2-Dichloroethane	1.04		0.0190	0.100	1	11/13/2024 07:38	WG2400372
1,1-Dichloroethene	0.0520	J	0.0200	0.100	1	11/13/2024 07:38	WG2400372
cis-1,2-Dichloroethene	10.2		0.0276	0.100	1	11/13/2024 07:38	WG2400372
trans-1,2-Dichloroethene	0.0870	J	0.0572	0.200	1	11/13/2024 07:38	WG2400372
1,2-Dichloropropane	0.383		0.0508	0.200	1	11/13/2024 07:38	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 07:38	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 07:38	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 07:38	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 07:38	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 07:38	WG2400372
Di-isopropyl ether	0.119		0.0140	0.0400	1	11/13/2024 07:38	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 07:38	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 07:38	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 07:38	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 07:38	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 07:38	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 07:38	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 07:38	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 07:38	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 07:38	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 07:38	WG2400372
Methyl tert-butyl ether	0.135		0.0118	0.0400	1	11/13/2024 07:38	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 07:38	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 07:38	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 07:38	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 07:38	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 07:38	WG2400372

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 07:38	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 07:38	WG2400372
Toluene	0.155	J	0.0500	0.200	1	11/13/2024 07:38	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 07:38	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 07:38	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 07:38	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 07:38	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 07:38	WG2400372
Trichlorofluoromethane	U	UJ G3 J3	0.0200	0.100	1	11/13/2024 07:38	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 07:38	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 07:38	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 07:38	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 07:38	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 07:38	WG2400372
Vinyl chloride	22.0		0.0273	0.100	1	11/13/2024 07:38	WG2400372
Xylenes, Total	0.191	J	0.191	0.260	1	11/13/2024 07:38	WG2400372
(S) Toluene-d8	99.9			75.0-131		11/13/2024 07:38	WG2400372
(S) 4-Bromofluorobenzene	98.4			67.0-138		11/13/2024 07:38	WG2400372
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/13/2024 07:38	WG2400372

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

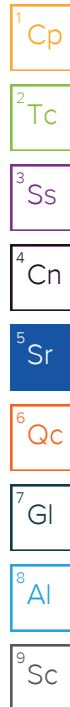
9Sc

JC 1/2/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/13/2024 07:58	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 07:58	WG2400372
Benzene	0.0210	J	0.0160	0.0400	1	11/13/2024 07:58	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 07:58	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 07:58	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 07:58	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 07:58	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 07:58	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 07:58	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 07:58	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 07:58	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 07:58	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 07:58	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 07:58	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 07:58	WG2400372
Chloroethane	U	UJ C3 J3 J4	0.0432	0.200	1	11/13/2024 07:58	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 07:58	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 07:58	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 07:58	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 07:58	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 07:58	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 07:58	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 07:58	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 07:58	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 07:58	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 07:58	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 07:58	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 07:58	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 07:58	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 07:58	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 07:58	WG2400372
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/13/2024 07:58	WG2400372
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 07:58	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 07:58	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 07:58	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 07:58	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 07:58	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 07:58	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 07:58	WG2400372
Di-isopropyl ether	0.108		0.0140	0.0400	1	11/13/2024 07:58	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 07:58	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 07:58	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 07:58	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 07:58	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 07:58	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 07:58	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 07:58	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 07:58	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 07:58	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 07:58	WG2400372
Methyl tert-butyl ether	0.0780		0.0118	0.0400	1	11/13/2024 07:58	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 07:58	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 07:58	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 07:58	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 07:58	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 07:58	WG2400372

JC 1/2/2025



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 07:58	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 07:58	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 07:58	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 07:58	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 07:58	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 07:58	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 07:58	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 07:58	WG2400372
Trichlorofluoromethane	U	UJ <u>CS JJ</u>	0.0200	0.100	1	11/13/2024 07:58	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 07:58	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 07:58	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 07:58	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 07:58	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 07:58	WG2400372
Vinyl chloride	U		0.0273	0.100	1	11/13/2024 07:58	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 07:58	WG2400372
(S) Toluene-d8	98.4			75.0-131		11/13/2024 07:58	WG2400372
(S) 4-Bromofluorobenzene	94.5			67.0-138		11/13/2024 07:58	WG2400372
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/13/2024 07:58	WG2400372

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

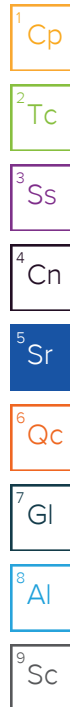
8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/13/2024 08:17	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 08:17	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 08:17	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 08:17	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 08:17	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 08:17	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 08:17	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 08:17	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 08:17	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 08:17	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 08:17	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 08:17	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 08:17	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 08:17	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 08:17	WG2400372
Chloroethane	U	UJ C3 J3 J4	0.0432	0.200	1	11/13/2024 08:17	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 08:17	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 08:17	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 08:17	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 08:17	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 08:17	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 08:17	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 08:17	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 08:17	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 08:17	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 08:17	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 08:17	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 08:17	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 08:17	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 08:17	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 08:17	WG2400372
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/13/2024 08:17	WG2400372
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 08:17	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 08:17	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 08:17	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 08:17	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 08:17	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 08:17	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 08:17	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 08:17	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 08:17	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 08:17	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 08:17	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 08:17	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 08:17	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 08:17	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 08:17	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 08:17	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 08:17	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 08:17	WG2400372
Methyl tert-butyl ether	0.0240	J	0.0118	0.0400	1	11/13/2024 08:17	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 08:17	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 08:17	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 08:17	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 08:17	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 08:17	WG2400372

JC 1/2/2025



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 08:17	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 08:17	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 08:17	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 08:17	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 08:17	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 08:17	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 08:17	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 08:17	WG2400372
Trichlorofluoromethane	U	UJ	0.0200	0.100	1	11/13/2024 08:17	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 08:17	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 08:17	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 08:17	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 08:17	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 08:17	WG2400372
Vinyl chloride	U		0.0273	0.100	1	11/13/2024 08:17	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 08:17	WG2400372
(S) Toluene-d8	99.4			75.0-131		11/13/2024 08:17	WG2400372
(S) 4-Bromofluorobenzene	93.7			67.0-138		11/13/2024 08:17	WG2400372
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/13/2024 08:17	WG2400372

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/2/2025

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	655000		4750	20000	1	11/09/2024 08:23	WG2398654

Sample Narrative:
L1796865-08 WG2398654: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	21600		547	1000	1	11/07/2024 20:52	WG2397513
Nitrate as (N)	U		88.4	100	1	11/07/2024 20:52	WG2397513
Sulfate	29500		637	5000	1	11/07/2024 20:52	WG2397513

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	11700		495	1000	1	11/08/2024 16:24	WG2397988

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	17700		22.6	100	1	11/14/2024 12:23	WG2399540
Manganese	1870		0.700	5.00	1	11/14/2024 12:23	WG2399540

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	2030		0.287	0.678	1	11/10/2024 14:37	WG2398842
Ethane	46.8		0.296	1.29	1	11/10/2024 14:37	WG2398842
Ethene	11.9		0.422	1.27	1	11/10/2024 14:37	WG2398842

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/13/2024 08:36	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 08:36	WG2400372
Benzene	3.33		0.0160	0.0400	1	11/13/2024 08:36	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 08:36	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 08:36	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 08:36	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 08:36	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 08:36	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 08:36	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 08:36	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 08:36	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 08:36	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 08:36	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 08:36	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 08:36	WG2400372
Chloroethane	U	UJ C3 J3 J4	0.0432	0.200	1	11/13/2024 08:36	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 08:36	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 08:36	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 08:36	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 08:36	WG2400372

JC 1/2/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 08:36	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 08:36	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 08:36	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 08:36	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 08:36	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 08:36	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 08:36	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 08:36	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 08:36	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 08:36	WG2400372
1,1-Dichloroethene	1.42		0.0200	0.100	1	11/13/2024 08:36	WG2400372
cis-1,2-Dichloroethene	489		0.552	2.00	20	11/17/2024 18:04	WG2401614
trans-1,2-Dichloroethene	2.96		0.0572	0.200	1	11/13/2024 08:36	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 08:36	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 08:36	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 08:36	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 08:36	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 08:36	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 08:36	WG2400372
Di-isopropyl ether	0.0300	I	0.0140	0.0400	1	11/13/2024 08:36	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 08:36	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 08:36	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 08:36	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 08:36	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 08:36	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 08:36	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 08:36	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 08:36	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 08:36	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 08:36	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 08:36	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 08:36	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 08:36	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 08:36	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 08:36	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 08:36	WG2400372
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 08:36	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 08:36	WG2400372
Toluene	0.104	I	0.0500	0.200	1	11/13/2024 08:36	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 08:36	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 08:36	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 08:36	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 08:36	WG2400372
Trichloroethene	0.204		0.0160	0.0400	1	11/13/2024 08:36	WG2400372
Trichlorofluoromethane	U	UJ CS J3	0.0200	0.100	1	11/13/2024 08:36	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 08:36	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 08:36	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 08:36	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 08:36	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 08:36	WG2400372
Vinyl chloride	69.3		0.546	2.00	20	11/17/2024 18:04	WG2401614
Xylenes, Total	U		0.191	0.260	1	11/13/2024 08:36	WG2400372
(S) Toluene-d8	102			75.0-131		11/13/2024 08:36	WG2400372
(S) Toluene-d8	107			75.0-131		11/17/2024 18:04	WG2401614
(S) 4-Bromofluorobenzene	93.3			67.0-138		11/13/2024 08:36	WG2400372
(S) 4-Bromofluorobenzene	93.2			67.0-138		11/17/2024 18:04	WG2401614

JC 1/2/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/13/2024 08:36	WG2400372
(S) 1,2-Dichloroethane-d4	94.1			70.0-130		11/17/2024 18:04	WG2401614

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	122000		4750	20000	1	11/09/2024 08:28	WG2398654

Sample Narrative:
L1796865-09 WG2398654: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	8050		547	1000	1	11/07/2024 21:06	WG2397513
Nitrate as (N)	2500		88.4	100	1	11/07/2024 21:06	WG2397513
Sulfate	2290	U BJ	637	5000	1	11/07/2024 21:06	WG2397513

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1490		495	1000	1	11/08/2024 16:42	WG2397988

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	623		22.6	100	1	11/14/2024 12:48	WG2399540
Manganese	177		0.700	5.00	1	11/14/2024 12:48	WG2399540

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	158		0.287	0.678	1	11/10/2024 15:46	WG2398842
Ethane	1.12	J	0.296	1.29	1	11/10/2024 15:46	WG2398842
Ethene	U		0.422	1.27	1	11/10/2024 15:46	WG2398842

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/13/2024 08:55	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 08:55	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 08:55	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 08:55	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 08:55	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 08:55	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 08:55	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 08:55	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 08:55	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 08:55	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 08:55	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 08:55	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 08:55	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 08:55	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 08:55	WG2400372
Chloroethane	U	UJ CS JS J4	0.0432	0.200	1	11/13/2024 08:55	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 08:55	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 08:55	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 08:55	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 08:55	WG2400372

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/2/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 08:55	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 08:55	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 08:55	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 08:55	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 08:55	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 08:55	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 08:55	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 08:55	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 08:55	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 08:55	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 08:55	WG2400372
cis-1,2-Dichloroethene	11.3		0.0276	0.100	1	11/17/2024 17:26	WG2401614
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 08:55	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 08:55	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 08:55	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 08:55	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 08:55	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 08:55	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 08:55	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 08:55	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 08:55	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 08:55	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 08:55	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 08:55	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 08:55	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 08:55	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 08:55	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 08:55	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 08:55	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 08:55	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 08:55	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 08:55	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 08:55	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 08:55	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 08:55	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 08:55	WG2400372
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 08:55	WG2400372
Tetrachloroethene	0.135		0.0280	0.100	1	11/13/2024 08:55	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 08:55	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 08:55	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 08:55	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 08:55	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 08:55	WG2400372
Trichloroethene	0.0710		0.0160	0.0400	1	11/13/2024 08:55	WG2400372
Trichlorofluoromethane	U	UJ CS JS	0.0200	0.100	1	11/13/2024 08:55	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 08:55	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 08:55	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 08:55	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 08:55	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 08:55	WG2400372
Vinyl chloride	0.462		0.0273	0.100	1	11/17/2024 17:26	WG2401614
Xylenes, Total	U		0.191	0.260	1	11/13/2024 08:55	WG2400372
(S) Toluene-d8	99.7			75.0-131		11/13/2024 08:55	WG2400372
(S) Toluene-d8	106			75.0-131		11/17/2024 17:26	WG2401614
(S) 4-Bromofluorobenzene	96.3			67.0-138		11/13/2024 08:55	WG2400372
(S) 4-Bromofluorobenzene	95.4			67.0-138		11/17/2024 17:26	WG2401614

JC 1/2/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/13/2024 08:55	WG2400372
(S) 1,2-Dichloroethane-d4	92.1			70.0-130		11/17/2024 17:26	WG2401614

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	645000		4750	20000	1	11/09/2024 08:34	WG2398654

Sample Narrative:
L1796865-10 WG2398654: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		
Chloride	57800		547	1000	1	11/07/2024 21:19	WG2397513	
Nitrate as (N)	155		88.4	100	1	11/07/2024 21:19	WG2397513	
Sulfate	4720	U	BJ	637	5000	1	11/07/2024 21:19	WG2397513

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	13900		495	1000	1	11/08/2024 17:39	WG2397988

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	5490		22.6	100	1	11/14/2024 12:52	WG2399540
Manganese	2670		0.700	5.00	1	11/14/2024 12:52	WG2399540

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	1280		0.287	0.678	1	11/10/2024 15:53	WG2398842
Ethane	26.4		0.296	1.29	1	11/10/2024 15:53	WG2398842
Ethene	29.2		0.422	1.27	1	11/10/2024 15:53	WG2398842

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
	ug/l		ug/l	ug/l		date / time		
Acetone	3.54	J+	C5 J4	0.548	1.00	1	11/13/2024 09:41	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 09:41	WG2400372	
Benzene	0.0220	J	0.0160	0.0400	1	11/13/2024 09:41	WG2400372	
Bromobenzene	U		0.0420	0.500	1	11/13/2024 09:41	WG2400372	
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 09:41	WG2400372	
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 09:41	WG2400372	
Bromoform	U		0.239	1.00	1	11/13/2024 09:41	WG2400372	
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 09:41	WG2400372	
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 09:41	WG2400372	
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 09:41	WG2400372	
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 09:41	WG2400372	
Carbon disulfide	U		0.162	0.500	1	11/13/2024 09:41	WG2400372	
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 09:41	WG2400372	
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 09:41	WG2400372	
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 09:41	WG2400372	
Chloroethane	U	UJ	C3 J3 J4	0.0432	0.200	1	11/13/2024 09:41	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 09:41	WG2400372	
Chloromethane	U		0.0556	0.500	1	11/13/2024 09:41	WG2400372	
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 09:41	WG2400372	
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 09:41	WG2400372	

JC 1/2/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/2/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 09:41	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 09:41	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 09:41	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 09:41	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 09:41	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 09:41	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 09:41	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 09:41	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 09:41	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 09:41	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 09:41	WG2400372
cis-1,2-Dichloroethene	2.22		0.0276	0.100	1	11/13/2024 09:41	WG2400372
trans-1,2-Dichloroethene	0.287		0.0572	0.200	1	11/13/2024 09:41	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 09:41	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 09:41	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 09:41	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 09:41	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 09:41	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 09:41	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 09:41	WG2400372
Ethylbenzene	0.0340	J	0.0212	0.100	1	11/13/2024 09:41	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 09:41	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 09:41	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 09:41	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 09:41	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 09:41	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 09:41	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 09:41	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 09:41	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 09:41	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 09:41	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 09:41	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 09:41	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 09:41	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 09:41	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 09:41	WG2400372
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 09:41	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 09:41	WG2400372
Toluene	0.0880	J	0.0500	0.200	1	11/13/2024 09:41	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 09:41	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 09:41	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 09:41	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 09:41	WG2400372
Trichloroethene	0.0560		0.0160	0.0400	1	11/13/2024 09:41	WG2400372
Trichlorofluoromethane	U	UJ CS J3	0.0200	0.100	1	11/13/2024 09:41	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 09:41	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 09:41	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 09:41	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 09:41	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 09:41	WG2400372
Vinyl chloride	15.9		0.0273	0.100	1	11/13/2024 09:41	WG2400372
Xylenes, Total	0.222	J	0.191	0.260	1	11/13/2024 09:41	WG2400372
(S) Toluene-d8	99.3			75.0-131		11/13/2024 09:41	WG2400372
(S) 4-Bromofluorobenzene	102			67.0-138		11/13/2024 09:41	WG2400372
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/13/2024 09:41	WG2400372

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/2/2025

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Alkalinity	374000		4750	20000	1	11/09/2024 11:50	WG2398696

Sample Narrative:
L1797397-01 WG2398696: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Chloride	21400		547	1000	1	11/09/2024 07:16	WG2398168
Nitrate as (N)	U		88.4	100	1	11/09/2024 07:16	WG2398168
Sulfate	27800		637	5000	1	11/09/2024 07:16	WG2398168

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
TOC (Total Organic Carbon)	2230		495	1000	1	11/11/2024 23:14	WG2399058

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Iron	1140		22.6	100	1	11/18/2024 17:09	WG2400811
Manganese	764		3.50	25.0	5	11/18/2024 16:54	WG2400811

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Methane	6970		2.87	6.78	10	11/12/2024 14:37	WG2400134
Ethane	108		0.296	1.29	1	11/12/2024 12:46	WG2399208
Ethene	98.0		0.422	1.27	1	11/12/2024 12:46	WG2399208

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Acetone	U	J4	0.548	1.00	1	11/15/2024 13:06	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 13:06	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 13:06	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 13:06	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 13:06	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 13:06	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 13:06	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 13:06	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 13:06	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 13:06	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 13:06	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 13:06	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 13:06	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 13:06	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 13:06	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 13:06	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 13:06	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 13:06	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 13:06	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 13:06	WG2402109

JC 1/14/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 13:06	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 13:06	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 13:06	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 13:06	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 13:06	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 13:06	WG2402109
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/15/2024 13:06	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 13:06	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 13:06	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 13:06	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 13:06	WG2402109
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/15/2024 13:06	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 13:06	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 13:06	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 13:06	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 13:06	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 13:06	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 13:06	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 13:06	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 13:06	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 13:06	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 13:06	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 13:06	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 13:06	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 13:06	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 13:06	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 13:06	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 13:06	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 13:06	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 13:06	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 13:06	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 13:06	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 13:06	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 13:06	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 13:06	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 13:06	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 13:06	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 13:06	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 13:06	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 13:06	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 13:06	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 13:06	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 13:06	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 13:06	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 13:06	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 13:06	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 13:06	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 13:06	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 13:06	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 13:06	WG2402109
Vinyl chloride	33.8		0.0273	0.100	1	11/15/2024 13:06	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 13:06	WG2402109
(S) Toluene-d8	98.3			75.0-131		11/15/2024 13:06	WG2402109
(S) 4-Bromofluorobenzene	92.8			67.0-138		11/15/2024 13:06	WG2402109
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/15/2024 13:06	WG2402109

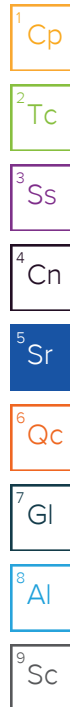
JC 1/14/2025



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/13/2024 10:01	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 10:01	WG2400372
Benzene	0.0170	J	0.0160	0.0400	1	11/13/2024 10:01	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 10:01	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 10:01	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 10:01	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 10:01	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 10:01	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 10:01	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 10:01	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 10:01	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 10:01	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 10:01	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 10:01	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 10:01	WG2400372
Chloroethane	U	UJ C3 J3 J4	0.0432	0.200	1	11/13/2024 10:01	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 10:01	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 10:01	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 10:01	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 10:01	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 10:01	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 10:01	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 10:01	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 10:01	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 10:01	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 10:01	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 10:01	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 10:01	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 10:01	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 10:01	WG2400372
1,1-Dichloroethene	0.0700	J	0.0200	0.100	1	11/13/2024 10:01	WG2400372
cis-1,2-Dichloroethene	57.2		0.0276	0.100	1	11/13/2024 10:01	WG2400372
trans-1,2-Dichloroethene	0.441		0.0572	0.200	1	11/13/2024 10:01	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 10:01	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 10:01	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 10:01	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 10:01	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 10:01	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 10:01	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 10:01	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 10:01	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 10:01	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 10:01	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 10:01	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 10:01	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 10:01	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 10:01	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 10:01	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 10:01	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 10:01	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 10:01	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 10:01	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 10:01	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 10:01	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 10:01	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 10:01	WG2400372

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 10:01	WG2400372
Tetrachloroethene	1.97		0.0280	0.100	1	11/13/2024 10:01	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 10:01	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 10:01	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 10:01	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 10:01	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 10:01	WG2400372
Trichloroethene	7.30		0.0160	0.0400	1	11/13/2024 10:01	WG2400372
Trichlorofluoromethane	U	UJ CS-J3	0.0200	0.100	1	11/13/2024 10:01	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 10:01	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 10:01	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 10:01	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 10:01	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 10:01	WG2400372
Vinyl chloride	0.0670	J	0.0273	0.100	1	11/13/2024 10:01	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 10:01	WG2400372
(S) Toluene-d8	99.6			75.0-131		11/13/2024 10:01	WG2400372
(S) 4-Bromofluorobenzene	93.8			67.0-138		11/13/2024 10:01	WG2400372
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/13/2024 10:01	WG2400372

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

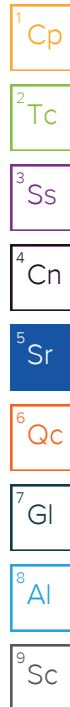
8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/13/2024 10:20	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 10:20	WG2400372
Benzene	0.0500		0.0160	0.0400	1	11/13/2024 10:20	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 10:20	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 10:20	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 10:20	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 10:20	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 10:20	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 10:20	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 10:20	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 10:20	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 10:20	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 10:20	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 10:20	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 10:20	WG2400372
Chloroethane	U	UJ C3 J3 J4	0.0432	0.200	1	11/13/2024 10:20	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 10:20	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 10:20	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 10:20	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 10:20	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 10:20	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 10:20	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 10:20	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 10:20	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 10:20	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 10:20	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 10:20	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 10:20	WG2400372
1,1-Dichloroethane	0.0950	J	0.0230	0.100	1	11/13/2024 10:20	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 10:20	WG2400372
1,1-Dichloroethene	2.54		0.0200	0.100	1	11/13/2024 10:20	WG2400372
cis-1,2-Dichloroethene	527		0.552	2.00	20	11/17/2024 18:23	WG2401614
trans-1,2-Dichloroethene	0.517		0.0572	0.200	1	11/13/2024 10:20	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 10:20	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 10:20	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 10:20	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 10:20	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 10:20	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 10:20	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 10:20	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 10:20	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 10:20	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 10:20	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 10:20	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 10:20	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 10:20	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 10:20	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 10:20	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 10:20	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 10:20	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 10:20	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 10:20	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 10:20	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 10:20	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 10:20	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 10:20	WG2400372

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 10:20	WG2400372	
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 10:20	WG2400372	
Toluene	U		0.0500	0.200	1	11/13/2024 10:20	WG2400372	
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 10:20	WG2400372	
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 10:20	WG2400372	
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 10:20	WG2400372	
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 10:20	WG2400372	
Trichloroethene	0.0480		0.0160	0.0400	1	11/13/2024 10:20	WG2400372	
Trichlorofluoromethane	U	uj	C3-J3	0.0200	0.100	1	11/13/2024 10:20	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 10:20	WG2400372	
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 10:20	WG2400372	
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 10:20	WG2400372	
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 10:20	WG2400372	
Vinyl acetate	U		0.141	0.500	1	11/13/2024 10:20	WG2400372	
Vinyl chloride	73.1		0.0273	0.100	1	11/13/2024 10:20	WG2400372	
Xylenes, Total	U		0.191	0.260	1	11/13/2024 10:20	WG2400372	
(S) Toluene-d8	101			75.0-131		11/13/2024 10:20	WG2400372	
(S) Toluene-d8	106			75.0-131		11/17/2024 18:23	WG2401614	
(S) 4-Bromofluorobenzene	95.9			67.0-138		11/13/2024 10:20	WG2400372	
(S) 4-Bromofluorobenzene	103			67.0-138		11/17/2024 18:23	WG2401614	
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/13/2024 10:20	WG2400372	
(S) 1,2-Dichloroethane-d4	92.9			70.0-130		11/17/2024 18:23	WG2401614	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

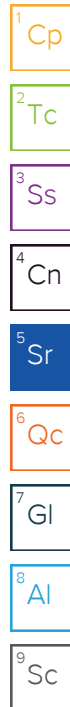
7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/13/2024 10:44	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 10:44	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 10:44	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 10:44	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 10:44	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 10:44	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 10:44	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 10:44	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 10:44	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 10:44	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 10:44	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 10:44	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 10:44	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 10:44	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 10:44	WG2400372
Chloroethane	U	UJ C3 J3 J4	0.0432	0.200	1	11/13/2024 10:44	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 10:44	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 10:44	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 10:44	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 10:44	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 10:44	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 10:44	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 10:44	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 10:44	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 10:44	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 10:44	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 10:44	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 10:44	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 10:44	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 10:44	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 10:44	WG2400372
cis-1,2-Dichloroethene	0.157		0.0276	0.100	1	11/17/2024 17:45	WG2401614
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 10:44	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 10:44	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 10:44	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 10:44	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 10:44	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 10:44	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 10:44	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 10:44	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 10:44	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 10:44	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 10:44	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 10:44	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 10:44	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 10:44	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 10:44	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 10:44	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 10:44	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 10:44	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 10:44	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 10:44	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 10:44	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 10:44	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 10:44	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 10:44	WG2400372



JC 12/10/24

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413001.10.701.02

SDG:

L1797459

DATE/TIME:

11/26/24 14:44

PAGE:

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 10:44	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 10:44	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 10:44	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 10:44	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 10:44	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 10:44	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 10:44	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 10:44	WG2400372
Trichlorofluoromethane	U	UJ CS JS	0.0200	0.100	1	11/13/2024 10:44	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 10:44	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 10:44	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 10:44	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 10:44	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 10:44	WG2400372
Vinyl chloride	0.430		0.0273	0.100	1	11/17/2024 17:45	WG2401614
Xylenes, Total	U		0.191	0.260	1	11/13/2024 10:44	WG2400372
(S) Toluene-d8	100			75.0-131		11/13/2024 10:44	WG2400372
(S) Toluene-d8	105			75.0-131		11/17/2024 17:45	WG2401614
(S) 4-Bromofluorobenzene	97.1			67.0-138		11/13/2024 10:44	WG2400372
(S) 4-Bromofluorobenzene	94.9			67.0-138		11/17/2024 17:45	WG2401614
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/13/2024 10:44	WG2400372
(S) 1,2-Dichloroethane-d4	93.9			70.0-130		11/17/2024 17:45	WG2401614

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/15/2024 13:25	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 13:25	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 13:25	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 13:25	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 13:25	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 13:25	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 13:25	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 13:25	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 13:25	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 13:25	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 13:25	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 13:25	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 13:25	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 13:25	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 13:25	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 13:25	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 13:25	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 13:25	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 13:25	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 13:25	WG2402109
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 13:25	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 13:25	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 13:25	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 13:25	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 13:25	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 13:25	WG2402109
trans-1,4-Dichloro-2-butene	U	UJ C3	0.0560	0.200	1	11/15/2024 13:25	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 13:25	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 13:25	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 13:25	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 13:25	WG2402109
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/15/2024 13:25	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 13:25	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 13:25	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 13:25	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 13:25	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 13:25	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 13:25	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 13:25	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 13:25	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 13:25	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 13:25	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 13:25	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 13:25	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 13:25	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 13:25	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 13:25	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 13:25	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 13:25	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 13:25	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 13:25	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 13:25	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 13:25	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 13:25	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 13:25	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 13:25	WG2402109

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 12/10/24

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 13:25	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 13:25	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 13:25	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 13:25	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 13:25	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 13:25	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 13:25	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 13:25	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 13:25	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 13:25	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 13:25	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 13:25	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 13:25	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 13:25	WG2402109
Vinyl chloride	U		0.0273	0.100	1	11/15/2024 13:25	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 13:25	WG2402109
(S) Toluene-d8	98.6			75.0-131		11/15/2024 13:25	WG2402109
(S) 4-Bromofluorobenzene	93.1			67.0-138		11/15/2024 13:25	WG2402109
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/15/2024 13:25	WG2402109

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	13.7	25.0	25	11/15/2024 17:16	WG2402109
Acrylonitrile	U		1.90	12.5	25	11/15/2024 17:16	WG2402109
Benzene	U		0.400	1.00	25	11/15/2024 17:16	WG2402109
Bromobenzene	U		1.05	12.5	25	11/15/2024 17:16	WG2402109
Bromochloromethane	U		1.13	5.00	25	11/15/2024 17:16	WG2402109
Bromodichloromethane	U		0.788	2.50	25	11/15/2024 17:16	WG2402109
Bromoform	U		5.98	25.0	25	11/15/2024 17:16	WG2402109
Bromomethane	U		3.70	12.5	25	11/15/2024 17:16	WG2402109
n-Butylbenzene	U		3.83	12.5	25	11/15/2024 17:16	WG2402109
sec-Butylbenzene	U		2.53	12.5	25	11/15/2024 17:16	WG2402109
tert-Butylbenzene	U		1.55	5.00	25	11/15/2024 17:16	WG2402109
Carbon disulfide	U		4.05	12.5	25	11/15/2024 17:16	WG2402109
Carbon tetrachloride	U		1.08	5.00	25	11/15/2024 17:16	WG2402109
Chlorobenzene	U		0.573	2.50	25	11/15/2024 17:16	WG2402109
Chlorodibromomethane	U		0.450	2.50	25	11/15/2024 17:16	WG2402109
Chloroethane	U		1.08	5.00	25	11/15/2024 17:16	WG2402109
Chloroform	U		0.415	2.50	25	11/15/2024 17:16	WG2402109
Chloromethane	U		1.39	12.5	25	11/15/2024 17:16	WG2402109
2-Chlorotoluene	U		0.920	2.50	25	11/15/2024 17:16	WG2402109
4-Chlorotoluene	U		1.13	5.00	25	11/15/2024 17:16	WG2402109
1,2-Dibromo-3-Chloropropane	U		5.10	25.0	25	11/15/2024 17:16	WG2402109
1,2-Dibromoethane	U		0.525	2.50	25	11/15/2024 17:16	WG2402109
Dibromomethane	U		1.00	5.00	25	11/15/2024 17:16	WG2402109
1,2-Dichlorobenzene	U		1.45	5.00	25	11/15/2024 17:16	WG2402109
1,3-Dichlorobenzene	U		1.70	5.00	25	11/15/2024 17:16	WG2402109
1,4-Dichlorobenzene	U		1.97	5.00	25	11/15/2024 17:16	WG2402109
trans-1,4-Dichloro-2-butene	U	UJ G3	1.40	5.00	25	11/15/2024 17:16	WG2402109
Dichlorodifluoromethane	U		0.818	5.00	25	11/15/2024 17:16	WG2402109
1,1-Dichloroethane	U		0.575	2.50	25	11/15/2024 17:16	WG2402109
1,2-Dichloroethane	U		0.475	2.50	25	11/15/2024 17:16	WG2402109
1,1-Dichloroethene	2.93		0.500	2.50	25	11/15/2024 17:16	WG2402109
cis-1,2-Dichloroethene	1600		0.690	2.50	25	11/15/2024 17:16	WG2402109
trans-1,2-Dichloroethene	8.65		1.43	5.00	25	11/15/2024 17:16	WG2402109
1,2-Dichloropropane	U		1.27	5.00	25	11/15/2024 17:16	WG2402109
1,1-Dichloropropene	U		0.700	2.50	25	11/15/2024 17:16	WG2402109
1,3-Dichloropropane	U		1.75	5.00	25	11/15/2024 17:16	WG2402109
cis-1,3-Dichloropropene	U		0.678	2.50	25	11/15/2024 17:16	WG2402109
trans-1,3-Dichloropropene	U		1.53	5.00	25	11/15/2024 17:16	WG2402109
2,2-Dichloropropane	U		0.793	2.50	25	11/15/2024 17:16	WG2402109
Di-isopropyl ether	U		0.350	1.00	25	11/15/2024 17:16	WG2402109
Ethylbenzene	U		0.530	2.50	25	11/15/2024 17:16	WG2402109
Hexachloro-1,3-butadiene	U		12.7	25.0	25	11/15/2024 17:16	WG2402109
2-Hexanone	U		10.0	25.0	25	11/15/2024 17:16	WG2402109
n-Hexane	U		1.06	5.00	25	11/15/2024 17:16	WG2402109
Iodomethane	U		6.05	12.5	25	11/15/2024 17:16	WG2402109
Isopropylbenzene	U		0.863	2.50	25	11/15/2024 17:16	WG2402109
p-Isopropyltoluene	U		2.33	5.00	25	11/15/2024 17:16	WG2402109
2-Butanone (MEK)	U		12.5	25.0	25	11/15/2024 17:16	WG2402109
Methylene Chloride	U		6.63	25.0	25	11/15/2024 17:16	WG2402109
4-Methyl-2-pentanone (MIBK)	U		10.0	25.0	25	11/15/2024 17:16	WG2402109
Methyl tert-butyl ether	U		0.295	1.00	25	11/15/2024 17:16	WG2402109
Naphthalene	U		3.10	12.5	25	11/15/2024 17:16	WG2402109
n-Propylbenzene	U		1.18	5.00	25	11/15/2024 17:16	WG2402109
Styrene	U		2.73	12.5	25	11/15/2024 17:16	WG2402109
1,1,1,2-Tetrachloroethane	U		0.500	2.50	25	11/15/2024 17:16	WG2402109
1,1,2,2-Tetrachloroethane	U		0.390	2.50	25	11/15/2024 17:16	WG2402109

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 12/10/24

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413001.10.701.02

SDG:

L1797459

DATE/TIME:

11/26/24 14:44

PAGE:

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.675	2.50	25	11/15/2024 17:16	WG2402109
Tetrachloroethene	2.25	J	0.700	2.50	25	11/15/2024 17:16	WG2402109
Toluene	U		1.25	5.00	25	11/15/2024 17:16	WG2402109
1,2,3-Trichlorobenzene	U		0.625	12.5	25	11/15/2024 17:16	WG2402109
1,2,4-Trichlorobenzene	U		4.83	12.5	25	11/15/2024 17:16	WG2402109
1,1,1-Trichloroethane	U		0.275	2.50	25	11/15/2024 17:16	WG2402109
1,1,2-Trichloroethane	U		0.883	2.50	25	11/15/2024 17:16	WG2402109
Trichloroethene	U		0.400	1.00	25	11/15/2024 17:16	WG2402109
Trichlorofluoromethane	U		0.500	2.50	25	11/15/2024 17:16	WG2402109
1,2,3-Trichloropropane	U		5.10	12.5	25	11/15/2024 17:16	WG2402109
1,2,4-Trimethylbenzene	U		1.16	5.00	25	11/15/2024 17:16	WG2402109
1,2,3-Trimethylbenzene	U		1.15	5.00	25	11/15/2024 17:16	WG2402109
1,3,5-Trimethylbenzene	U		1.08	5.00	25	11/15/2024 17:16	WG2402109
Vinyl acetate	U		3.53	12.5	25	11/15/2024 17:16	WG2402109
Vinyl chloride	38.1		0.682	2.50	25	11/15/2024 17:16	WG2402109
Xylenes, Total	U		4.78	6.50	25	11/15/2024 17:16	WG2402109
(S) Toluene-d8	98.7			75.0-131		11/15/2024 17:16	WG2402109
(S) 4-Bromofluorobenzene	90.9			67.0-138		11/15/2024 17:16	WG2402109
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/15/2024 17:16	WG2402109

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	UJ	0.548	1.00	1	11/15/2024 13:44	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 13:44	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 13:44	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 13:44	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 13:44	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 13:44	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 13:44	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 13:44	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 13:44	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 13:44	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 13:44	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 13:44	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 13:44	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 13:44	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 13:44	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 13:44	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 13:44	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 13:44	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 13:44	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 13:44	WG2402109
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 13:44	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 13:44	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 13:44	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 13:44	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 13:44	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 13:44	WG2402109
trans-1,4-Dichloro-2-butene	U	UJ	0.0560	0.200	1	11/15/2024 13:44	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 13:44	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 13:44	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 13:44	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 13:44	WG2402109
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/15/2024 13:44	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 13:44	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 13:44	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 13:44	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 13:44	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 13:44	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 13:44	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 13:44	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 13:44	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 13:44	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 13:44	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 13:44	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 13:44	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 13:44	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 13:44	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 13:44	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 13:44	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 13:44	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 13:44	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 13:44	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 13:44	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 13:44	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 13:44	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 13:44	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 13:44	WG2402109

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	UJ	0.0270	0.100	1	11/15/2024 13:44	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 13:44	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 13:44	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 13:44	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 13:44	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 13:44	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 13:44	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 13:44	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 13:44	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 13:44	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 13:44	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 13:44	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 13:44	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 13:44	WG2402109
Vinyl chloride	U		0.0273	0.100	1	11/15/2024 13:44	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 13:44	WG2402109
(S) Toluene-d8	98.5			75.0-131		11/15/2024 13:44	WG2402109
(S) 4-Bromofluorobenzene	93.1			67.0-138		11/15/2024 13:44	WG2402109
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/15/2024 13:44	WG2402109

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	11.0	20.0	20	11/15/2024 17:36	WG2402109
Acrylonitrile	U		1.52	10.0	20	11/15/2024 17:36	WG2402109
Benzene	U		0.320	0.800	20	11/15/2024 17:36	WG2402109
Bromobenzene	U		0.840	10.0	20	11/15/2024 17:36	WG2402109
Bromochloromethane	U		0.904	4.00	20	11/15/2024 17:36	WG2402109
Bromodichloromethane	U		0.630	2.00	20	11/15/2024 17:36	WG2402109
Bromoform	U		4.78	20.0	20	11/15/2024 17:36	WG2402109
Bromomethane	U		2.96	10.0	20	11/15/2024 17:36	WG2402109
n-Butylbenzene	U		3.06	10.0	20	11/15/2024 17:36	WG2402109
sec-Butylbenzene	U		2.02	10.0	20	11/15/2024 17:36	WG2402109
tert-Butylbenzene	U		1.24	4.00	20	11/15/2024 17:36	WG2402109
Carbon disulfide	U		3.24	10.0	20	11/15/2024 17:36	WG2402109
Carbon tetrachloride	U		0.864	4.00	20	11/15/2024 17:36	WG2402109
Chlorobenzene	U		0.458	2.00	20	11/15/2024 17:36	WG2402109
Chlorodibromomethane	U		0.360	2.00	20	11/15/2024 17:36	WG2402109
Chloroethane	U		0.864	4.00	20	11/15/2024 17:36	WG2402109
Chloroform	U		0.332	2.00	20	11/15/2024 17:36	WG2402109
Chloromethane	U		1.11	10.0	20	11/15/2024 17:36	WG2402109
2-Chlorotoluene	U		0.736	2.00	20	11/15/2024 17:36	WG2402109
4-Chlorotoluene	U		0.904	4.00	20	11/15/2024 17:36	WG2402109
1,2-Dibromo-3-Chloropropane	U		4.08	20.0	20	11/15/2024 17:36	WG2402109
1,2-Dibromoethane	U		0.420	2.00	20	11/15/2024 17:36	WG2402109
Dibromomethane	U		0.800	4.00	20	11/15/2024 17:36	WG2402109
1,2-Dichlorobenzene	U		1.16	4.00	20	11/15/2024 17:36	WG2402109
1,3-Dichlorobenzene	U		1.36	4.00	20	11/15/2024 17:36	WG2402109
1,4-Dichlorobenzene	U		1.58	4.00	20	11/15/2024 17:36	WG2402109
trans-1,4-Dichloro-2-butene	U	UJ C3	1.12	4.00	20	11/15/2024 17:36	WG2402109
Dichlorodifluoromethane	U		0.654	4.00	20	11/15/2024 17:36	WG2402109
1,1-Dichloroethane	U		0.460	2.00	20	11/15/2024 17:36	WG2402109
1,2-Dichloroethane	U		0.380	2.00	20	11/15/2024 17:36	WG2402109
1,1-Dichloroethene	3.78		0.400	2.00	20	11/15/2024 17:36	WG2402109
cis-1,2-Dichloroethene	614		0.552	2.00	20	11/15/2024 17:36	WG2402109
trans-1,2-Dichloroethene	4.02		1.14	4.00	20	11/15/2024 17:36	WG2402109
1,2-Dichloropropane	U		1.02	4.00	20	11/15/2024 17:36	WG2402109
1,1-Dichloropropene	U		0.560	2.00	20	11/15/2024 17:36	WG2402109
1,3-Dichloropropane	U		1.40	4.00	20	11/15/2024 17:36	WG2402109
cis-1,3-Dichloropropene	U		0.542	2.00	20	11/15/2024 17:36	WG2402109
trans-1,3-Dichloropropene	U		1.22	4.00	20	11/15/2024 17:36	WG2402109
2,2-Dichloropropane	U		0.634	2.00	20	11/15/2024 17:36	WG2402109
Di-isopropyl ether	U		0.280	0.800	20	11/15/2024 17:36	WG2402109
Ethylbenzene	U		0.424	2.00	20	11/15/2024 17:36	WG2402109
Hexachloro-1,3-butadiene	U		10.2	20.0	20	11/15/2024 17:36	WG2402109
2-Hexanone	U		8.00	20.0	20	11/15/2024 17:36	WG2402109
n-Hexane	U		0.848	4.00	20	11/15/2024 17:36	WG2402109
Iodomethane	U		4.84	10.0	20	11/15/2024 17:36	WG2402109
Isopropylbenzene	U		0.690	2.00	20	11/15/2024 17:36	WG2402109
p-Isopropyltoluene	U		1.86	4.00	20	11/15/2024 17:36	WG2402109
2-Butanone (MEK)	U		10.0	20.0	20	11/15/2024 17:36	WG2402109
Methylene Chloride	6.18	J	5.30	20.0	20	11/15/2024 17:36	WG2402109
4-Methyl-2-pentanone (MIBK)	U		8.00	20.0	20	11/15/2024 17:36	WG2402109
Methyl tert-butyl ether	U		0.236	0.800	20	11/15/2024 17:36	WG2402109
Naphthalene	U		2.48	10.0	20	11/15/2024 17:36	WG2402109
n-Propylbenzene	U		0.944	4.00	20	11/15/2024 17:36	WG2402109
Styrene	U		2.18	10.0	20	11/15/2024 17:36	WG2402109
1,1,1,2-Tetrachloroethane	U		0.400	2.00	20	11/15/2024 17:36	WG2402109
1,1,2,2-Tetrachloroethane	U		0.312	2.00	20	11/15/2024 17:36	WG2402109

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/2/2025

4 2 10 1 / 2 1 C J

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.540	2.00	20	11/15/2024 17:36	WG2402109
Tetrachloroethene	U		0.560	2.00	20	11/15/2024 17:36	WG2402109
Toluene	U		1.00	4.00	20	11/15/2024 17:36	WG2402109
1,2,3-Trichlorobenzene	U		0.500	10.0	20	11/15/2024 17:36	WG2402109
1,2,4-Trichlorobenzene	U		3.86	10.0	20	11/15/2024 17:36	WG2402109
1,1,1-Trichloroethane	U		0.220	2.00	20	11/15/2024 17:36	WG2402109
1,1,2-Trichloroethane	U		0.706	2.00	20	11/15/2024 17:36	WG2402109
Trichloroethene	U		0.320	0.800	20	11/15/2024 17:36	WG2402109
Trichlorofluoromethane	U		0.400	2.00	20	11/15/2024 17:36	WG2402109
1,2,3-Trichloropropane	U		4.08	10.0	20	11/15/2024 17:36	WG2402109
1,2,4-Trimethylbenzene	U		0.928	4.00	20	11/15/2024 17:36	WG2402109
1,2,3-Trimethylbenzene	U		0.920	4.00	20	11/15/2024 17:36	WG2402109
1,3,5-Trimethylbenzene	U		0.864	4.00	20	11/15/2024 17:36	WG2402109
Vinyl acetate	U		2.82	10.0	20	11/15/2024 17:36	WG2402109
Vinyl chloride	144		0.546	2.00	20	11/15/2024 17:36	WG2402109
Xylenes, Total	U		3.82	5.20	20	11/15/2024 17:36	WG2402109
(S) Toluene-d8	98.0			75.0-131		11/15/2024 17:36	WG2402109
(S) 4-Bromofluorobenzene	92.8			67.0-138		11/15/2024 17:36	WG2402109
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/15/2024 17:36	WG2402109

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	893000		4750	20000	1	11/10/2024 12:41	WG2398691

Sample Narrative:
L1797459-08 WG2398691: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	35200		547	1000	1	11/09/2024 03:54	WG2398286
Nitrate as (N)	4600		88.4	100	1	11/09/2024 03:54	WG2398286
Sulfate	35400		637	5000	1	11/09/2024 03:54	WG2398286

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6960		495	1000	1	11/12/2024 00:52	WG2399058

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	4640		113	500	5	11/18/2024 17:12	WG2400811
Manganese	5330		14.0	100	20	11/18/2024 17:15	WG2400811

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	572		0.287	0.678	1	11/12/2024 09:35	WG2399209
Ethane	1.60		0.296	1.29	1	11/12/2024 09:35	WG2399209
Ethene	U		0.422	1.27	1	11/12/2024 09:35	WG2399209

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	13.5	J+ C5 J4	0.548	1.00	1	11/15/2024 14:04	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 14:04	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 14:04	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 14:04	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 14:04	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 14:04	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 14:04	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 14:04	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 14:04	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 14:04	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 14:04	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 14:04	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 14:04	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 14:04	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 14:04	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 14:04	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 14:04	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 14:04	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 14:04	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 14:04	WG2402109

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

MW121-110724

SAMPLE RESULTS - 08

Collected date/time: 11/07/24 10:00

L1797459

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 14:04	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 14:04	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 14:04	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 14:04	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 14:04	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 14:04	WG2402109
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/15/2024 14:04	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 14:04	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 14:04	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 14:04	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 14:04	WG2402109
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/15/2024 14:04	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 14:04	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 14:04	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 14:04	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 14:04	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 14:04	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 14:04	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 14:04	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 14:04	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 14:04	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 14:04	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 14:04	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 14:04	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 14:04	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 14:04	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 14:04	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 14:04	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 14:04	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 14:04	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 14:04	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 14:04	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 14:04	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 14:04	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 14:04	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 14:04	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 14:04	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 14:04	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 14:04	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 14:04	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 14:04	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 14:04	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 14:04	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 14:04	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 14:04	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 14:04	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 14:04	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 14:04	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 14:04	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 14:04	WG2402109
Vinyl chloride	0.347		0.0273	0.100	1	11/15/2024 14:04	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 14:04	WG2402109
(S) Toluene-d8	98.5			75.0-131		11/15/2024 14:04	WG2402109
(S) 4-Bromofluorobenzene	91.1			67.0-138		11/15/2024 14:04	WG2402109
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/15/2024 14:04	WG2402109

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 12/10/24

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413001.10.701.02

SDG:

L1797459

DATE/TIME:

11/26/24 14:44

PAGE:

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Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	952000		4750	20000	1	11/09/2024 12:09	WG2398696

Sample Narrative:
L1797459-09 WG2398696: Endpoint pH 4.5

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	101000		547	1000	1	11/09/2024 04:11	WG2398286
Nitrate as (N)	U		88.4	100	1	11/09/2024 04:11	WG2398286
Sulfate	U		637	5000	1	11/09/2024 04:11	WG2398286

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	5180		495	1000	1	11/12/2024 01:54	WG2399058

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	4800		113	500	5	11/18/2024 17:19	WG2400811
Manganese	1810		3.50	25.0	5	11/18/2024 17:19	WG2400811

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	21700		2.87	6.78	10	11/12/2024 14:43	WG2400134
Ethane	92.8		0.296	1.29	1	11/12/2024 09:40	WG2399209
Ethene	U		0.422	1.27	1	11/12/2024 09:40	WG2399209

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	162	J+ C5-14	0.548	1.00	1	11/15/2024 14:23	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 14:23	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 14:23	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 14:23	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 14:23	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 14:23	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 14:23	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 14:23	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 14:23	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 14:23	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 14:23	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 14:23	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 14:23	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 14:23	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 14:23	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 14:23	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 14:23	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 14:23	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 14:23	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 14:23	WG2402109

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 12/10/24

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 14:23	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 14:23	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 14:23	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 14:23	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 14:23	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 14:23	WG2402109
trans-1,4-Dichloro-2-butene	U	UJ 	0.0560	0.200	1	11/15/2024 14:23	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 14:23	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 14:23	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 14:23	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 14:23	WG2402109
cis-1,2-Dichloroethene	0.210		0.0276	0.100	1	11/15/2024 14:23	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 14:23	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 14:23	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 14:23	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 14:23	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 14:23	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 14:23	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 14:23	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 14:23	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 14:23	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 14:23	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 14:23	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 14:23	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 14:23	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 14:23	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 14:23	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 14:23	WG2402109
Methylene Chloride	0.271	UJ 	0.265	1.00	1	11/15/2024 14:23	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 14:23	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 14:23	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 14:23	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 14:23	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 14:23	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 14:23	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 14:23	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 14:23	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 14:23	WG2402109
Toluene	0.133	UJ 	0.0500	0.200	1	11/15/2024 14:23	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 14:23	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 14:23	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 14:23	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 14:23	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 14:23	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 14:23	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 14:23	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 14:23	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 14:23	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 14:23	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 14:23	WG2402109
Vinyl chloride	U		0.0273	0.100	1	11/15/2024 14:23	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 14:23	WG2402109
(S) Toluene-d8	101			75.0-131		11/15/2024 14:23	WG2402109
(S) 4-Bromofluorobenzene	93.3			67.0-138		11/15/2024 14:23	WG2402109
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/15/2024 14:23	WG2402109

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	22400		4750	20000	1	11/10/2024 12:45	WG2398691

Sample Narrative:
L1797459-10 WG2398691: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	3640		547	1000	1	11/09/2024 04:28	WG2398286
Nitrate as (N)	506		88.4	100	1	11/09/2024 04:28	WG2398286
Sulfate	2830	J	637	5000	1	11/09/2024 04:28	WG2398286

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1170		495	1000	1	11/12/2024 02:12	WG2399058

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	U		22.6	100	1	11/18/2024 20:14	WG2400812
Manganese	20.4		0.700	5.00	1	11/18/2024 20:14	WG2400812

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	U		0.287	0.678	1	11/12/2024 09:45	WG2399209
Ethane	U		0.296	1.29	1	11/12/2024 09:45	WG2399209
Ethene	U		0.422	1.27	1	11/12/2024 09:45	WG2399209

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/15/2024 14:42	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 14:42	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 14:42	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 14:42	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 14:42	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 14:42	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 14:42	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 14:42	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 14:42	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 14:42	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 14:42	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 14:42	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 14:42	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 14:42	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 14:42	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 14:42	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 14:42	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 14:42	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 14:42	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 14:42	WG2402109

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 12/10/24

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 14:42	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 14:42	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 14:42	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 14:42	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 14:42	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 14:42	WG2402109
trans-1,4-Dichloro-2-butene	U	UJ 	0.0560	0.200	1	11/15/2024 14:42	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 14:42	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 14:42	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 14:42	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 14:42	WG2402109
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/15/2024 14:42	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 14:42	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 14:42	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 14:42	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 14:42	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 14:42	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 14:42	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 14:42	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 14:42	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 14:42	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 14:42	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 14:42	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 14:42	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 14:42	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 14:42	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 14:42	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 14:42	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 14:42	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 14:42	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 14:42	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 14:42	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 14:42	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 14:42	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 14:42	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 14:42	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 14:42	WG2402109
Tetrachloroethene	11.0		0.0280	0.100	1	11/15/2024 14:42	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 14:42	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 14:42	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 14:42	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 14:42	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 14:42	WG2402109
Trichloroethene	2.38		0.0160	0.0400	1	11/15/2024 14:42	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 14:42	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 14:42	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 14:42	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 14:42	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 14:42	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 14:42	WG2402109
Vinyl chloride	U		0.0273	0.100	1	11/15/2024 14:42	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 14:42	WG2402109
(S) Toluene-d8	97.8			75.0-131		11/15/2024 14:42	WG2402109
(S) 4-Bromofluorobenzene	95.0			67.0-138		11/15/2024 14:42	WG2402109
(S) 1,2-Dichloroethane-d4	112			70.0-130		11/15/2024 14:42	WG2402109

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 12/10/24

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	329000		4750	20000	1	11/10/2024 13:58	WG2398691

Sample Narrative:

L1797476-01 WG2398691: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	67200	J	547	1000	1	11/09/2024 02:33	WG2398303
Nitrate as (N)	U		88.4	100	1	11/09/2024 02:33	WG2398303
Sulfate	21600		637	5000	1	11/09/2024 02:33	WG2398303

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4860		495	1000	1	11/12/2024 02:32	WG2399058

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	4760		22.6	100	1	11/18/2024 20:17	WG2400812
Manganese	634		0.700	5.00	1	11/18/2024 20:17	WG2400812

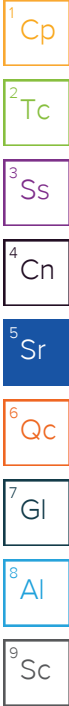
Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	5090		0.287	0.678	1	11/12/2024 09:49	WG2399209
Ethane	47.2		0.296	1.29	1	11/12/2024 09:49	WG2399209
Ethene	117		0.422	1.27	1	11/12/2024 09:49	WG2399209

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	6.68	J+	0.548	1.00	1	11/15/2024 15:01	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 15:01	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 15:01	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 15:01	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 15:01	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 15:01	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 15:01	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 15:01	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 15:01	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 15:01	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 15:01	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 15:01	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 15:01	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 15:01	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 15:01	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 15:01	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 15:01	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 15:01	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 15:01	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 15:01	WG2402109

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 15:01	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 15:01	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 15:01	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 15:01	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 15:01	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 15:01	WG2402109
trans-1,4-Dichloro-2-butene	U	UJ	0.0560	0.200	1	11/15/2024 15:01	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 15:01	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 15:01	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 15:01	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 15:01	WG2402109
cis-1,2-Dichloroethene	12.3		0.0276	0.100	1	11/15/2024 15:01	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 15:01	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 15:01	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 15:01	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 15:01	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 15:01	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 15:01	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 15:01	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 15:01	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 15:01	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 15:01	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 15:01	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 15:01	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 15:01	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 15:01	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 15:01	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 15:01	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 15:01	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 15:01	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 15:01	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 15:01	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 15:01	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 15:01	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 15:01	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 15:01	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 15:01	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 15:01	WG2402109
Toluene	0.0680	U	0.0500	0.200	1	11/15/2024 15:01	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 15:01	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 15:01	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 15:01	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 15:01	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 15:01	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 15:01	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 15:01	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 15:01	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 15:01	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 15:01	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 15:01	WG2402109
Vinyl chloride	34.2		0.0273	0.100	1	11/15/2024 15:01	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 15:01	WG2402109
(S) Toluene-d8	100			75.0-131		11/15/2024 15:01	WG2402109
(S) 4-Bromofluorobenzene	92.6			67.0-138		11/15/2024 15:01	WG2402109
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/15/2024 15:01	WG2402109

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/2/2025

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	575000		4750	20000	1	11/10/2024 14:47	WG2398691

Sample Narrative:
L1797476-02 WG2398691: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	50600		547	1000	1	11/09/2024 03:27	WG2398303
Nitrate as (N)	U		88.4	100	1	11/09/2024 03:27	WG2398303
Sulfate	6400		637	5000	1	11/09/2024 03:27	WG2398303

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4520	J	495	1000	1	11/12/2024 02:51	WG2399058

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	7140		22.6	100	1	11/18/2024 20:21	WG2400812
Manganese	1580		0.700	5.00	1	11/18/2024 20:21	WG2400812

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	23400		2.87	6.78	10	11/12/2024 14:48	WG2400134
Ethane	307		0.296	1.29	1	11/12/2024 09:54	WG2399209
Ethene	220		0.422	1.27	1	11/12/2024 09:54	WG2399209

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/15/2024 15:21	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 15:21	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 15:21	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 15:21	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 15:21	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 15:21	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 15:21	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 15:21	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 15:21	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 15:21	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 15:21	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 15:21	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 15:21	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 15:21	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 15:21	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 15:21	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 15:21	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 15:21	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 15:21	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 15:21	WG2402109

JC 1/2/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

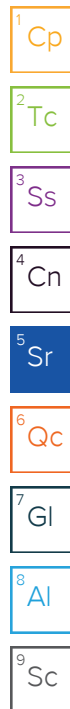
7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 15:21	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 15:21	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 15:21	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 15:21	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 15:21	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 15:21	WG2402109
trans-1,4-Dichloro-2-butene	U	UJ	CS 0.0560	0.200	1	11/15/2024 15:21	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 15:21	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 15:21	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 15:21	WG2402109
1,1-Dichloroethene	0.170		0.0200	0.100	1	11/15/2024 15:21	WG2402109
cis-1,2-Dichloroethene	70.2		0.0276	0.100	1	11/15/2024 15:21	WG2402109
trans-1,2-Dichloroethene	1.45		0.0572	0.200	1	11/15/2024 15:21	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 15:21	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 15:21	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 15:21	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 15:21	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 15:21	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 15:21	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 15:21	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 15:21	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 15:21	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 15:21	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 15:21	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 15:21	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 15:21	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 15:21	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 15:21	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 15:21	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 15:21	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 15:21	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 15:21	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 15:21	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 15:21	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 15:21	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 15:21	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 15:21	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 15:21	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 15:21	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 15:21	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 15:21	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 15:21	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 15:21	WG2402109
Trichloroethene	0.153		0.0160	0.0400	1	11/15/2024 15:21	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 15:21	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 15:21	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 15:21	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 15:21	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 15:21	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 15:21	WG2402109
Vinyl chloride	159	J	CS 0.273	1.00	10	11/23/2024 15:18	WG2405317
Xylenes, Total	U		0.191	0.260	1	11/15/2024 15:21	WG2402109
(S) Toluene-d8	99.4			75.0-131		11/15/2024 15:21	WG2402109
(S) Toluene-d8	111			75.0-131		11/23/2024 15:18	WG2405317
(S) 4-Bromofluorobenzene	92.4			67.0-138		11/15/2024 15:21	WG2402109
(S) 4-Bromofluorobenzene	91.0			67.0-138		11/23/2024 15:18	WG2405317



JC 1/2/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/15/2024 15:21	WG2402109
(S) 1,2-Dichloroethane-d4	93.0			70.0-130		11/23/2024 15:18	WG2405317

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	578000		4750	20000	1	11/09/2024 12:16	WG2398696

Sample Narrative:
L1797476-03 WG2398696: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	50400		547	1000	1	11/09/2024 03:45	WG2398303
Nitrate as (N)	U		88.4	100	1	11/09/2024 03:45	WG2398303
Sulfate	6060		637	5000	1	11/09/2024 03:45	WG2398303

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	8390	J	495	1000	1	11/11/2024 15:16	WG2399384

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	7280		22.6	100	1	11/18/2024 20:24	WG2400812
Manganese	1580		0.700	5.00	1	11/18/2024 20:24	WG2400812

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	21100		2.87	6.78	10	11/12/2024 14:55	WG2400134
Ethane	286		0.296	1.29	1	11/12/2024 10:00	WG2399209
Ethene	206		0.422	1.27	1	11/12/2024 10:00	WG2399209

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/15/2024 15:40	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 15:40	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 15:40	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 15:40	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 15:40	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 15:40	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 15:40	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 15:40	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 15:40	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 15:40	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 15:40	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 15:40	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 15:40	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 15:40	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 15:40	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 15:40	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 15:40	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 15:40	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 15:40	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 15:40	WG2402109

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

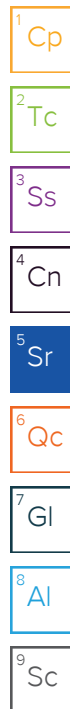
8Al

9Sc

JC 1/2/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 15:40	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 15:40	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 15:40	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 15:40	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 15:40	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 15:40	WG2402109
trans-1,4-Dichloro-2-butene	U	UJ	0.0560	0.200	1	11/15/2024 15:40	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 15:40	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 15:40	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 15:40	WG2402109
1,1-Dichloroethene	0.179		0.0200	0.100	1	11/15/2024 15:40	WG2402109
cis-1,2-Dichloroethene	70.6		0.0276	0.100	1	11/15/2024 15:40	WG2402109
trans-1,2-Dichloroethene	1.47		0.0572	0.200	1	11/15/2024 15:40	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 15:40	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 15:40	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 15:40	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 15:40	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 15:40	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 15:40	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 15:40	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 15:40	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 15:40	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 15:40	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 15:40	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 15:40	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 15:40	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 15:40	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 15:40	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 15:40	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 15:40	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 15:40	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 15:40	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 15:40	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 15:40	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 15:40	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 15:40	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 15:40	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 15:40	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 15:40	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 15:40	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 15:40	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 15:40	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 15:40	WG2402109
Trichloroethene	0.170		0.0160	0.0400	1	11/15/2024 15:40	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 15:40	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 15:40	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 15:40	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 15:40	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 15:40	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 15:40	WG2402109
Vinyl chloride	165	J	0.273	1.00	10	11/23/2024 15:37	WG2405317
Xylenes, Total	U		0.191	0.260	1	11/15/2024 15:40	WG2402109
(S) Toluene-d8	99.5			75.0-131		11/15/2024 15:40	WG2402109
(S) Toluene-d8	105			75.0-131		11/23/2024 15:37	WG2405317
(S) 4-Bromofluorobenzene	93.1			67.0-138		11/15/2024 15:40	WG2402109
(S) 4-Bromofluorobenzene	93.1			67.0-138		11/23/2024 15:37	WG2405317



JC 1/2/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/15/2024 15:40	WG2402109
(S) 1,2-Dichloroethane-d4	93.2			70.0-130		11/23/2024 15:37	WG2405317

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

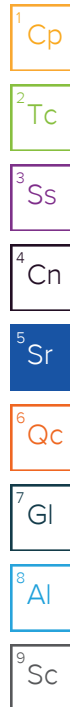
9Sc

JC 1/2/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/15/2024 16:19	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 16:19	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 16:19	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 16:19	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 16:19	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 16:19	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 16:19	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 16:19	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 16:19	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 16:19	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 16:19	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 16:19	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 16:19	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 16:19	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 16:19	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 16:19	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 16:19	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 16:19	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 16:19	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 16:19	WG2402109
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 16:19	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 16:19	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 16:19	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 16:19	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 16:19	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 16:19	WG2402109
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/15/2024 16:19	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 16:19	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 16:19	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 16:19	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 16:19	WG2402109
cis-1,2-Dichloroethene	0.258		0.0276	0.100	1	11/15/2024 16:19	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 16:19	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 16:19	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 16:19	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 16:19	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 16:19	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 16:19	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 16:19	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 16:19	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 16:19	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 16:19	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 16:19	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 16:19	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 16:19	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 16:19	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 16:19	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 16:19	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 16:19	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 16:19	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 16:19	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 16:19	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 16:19	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 16:19	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 16:19	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 16:19	WG2402109

JC 12/10/24



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 16:19	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 16:19	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 16:19	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 16:19	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 16:19	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 16:19	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 16:19	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 16:19	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 16:19	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 16:19	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 16:19	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 16:19	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 16:19	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 16:19	WG2402109
Vinyl chloride	0.131	J	0.0273	0.100	1	11/15/2024 16:19	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 16:19	WG2402109
(S) Toluene-d8	101			75.0-131		11/15/2024 16:19	WG2402109
(S) 4-Bromofluorobenzene	92.8			67.0-138		11/15/2024 16:19	WG2402109
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/15/2024 16:19	WG2402109

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

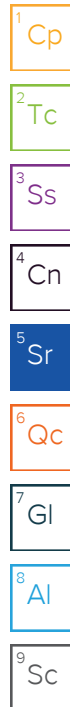
9Sc

JC 12/10/24

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/15/2024 16:38	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 16:38	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 16:38	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 16:38	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 16:38	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 16:38	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 16:38	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 16:38	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 16:38	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 16:38	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 16:38	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 16:38	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 16:38	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 16:38	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 16:38	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 16:38	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 16:38	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 16:38	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 16:38	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 16:38	WG2402109
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 16:38	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 16:38	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 16:38	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 16:38	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 16:38	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 16:38	WG2402109
trans-1,4-Dichloro-2-butene	U	UJ	0.0560	0.200	1	11/15/2024 16:38	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 16:38	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 16:38	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 16:38	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 16:38	WG2402109
cis-1,2-Dichloroethene	0.210		0.0276	0.100	1	11/15/2024 16:38	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 16:38	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 16:38	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 16:38	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 16:38	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 16:38	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 16:38	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 16:38	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 16:38	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 16:38	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 16:38	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 16:38	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 16:38	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 16:38	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 16:38	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 16:38	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 16:38	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 16:38	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 16:38	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 16:38	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 16:38	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 16:38	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 16:38	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 16:38	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 16:38	WG2402109

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 16:38	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 16:38	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 16:38	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 16:38	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 16:38	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 16:38	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 16:38	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 16:38	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 16:38	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 16:38	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 16:38	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 16:38	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 16:38	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 16:38	WG2402109
Vinyl chloride	U	UJ	0.0273	0.100	1	11/15/2024 16:38	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 16:38	WG2402109
(S) Toluene-d8	98.6			75.0-131		11/15/2024 16:38	WG2402109
(S) 4-Bromofluorobenzene	90.2			67.0-138		11/15/2024 16:38	WG2402109
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/15/2024 16:38	WG2402109

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	206000		4750	20000	1	11/10/2024 14:52	WG2398691

Sample Narrative:
L1797476-08 WG2398691: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	55100		547	1000	1	11/09/2024 04:21	WG2398303
Nitrate as (N)	308		88.4	100	1	11/09/2024 04:21	WG2398303
Sulfate	58000		637	5000	1	11/09/2024 04:21	WG2398303

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2630		495	1000	1	11/11/2024 16:29	WG2399384

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	96.3	J	22.6	100	1	11/18/2024 20:39	WG2400812
Manganese	704		0.700	5.00	1	11/18/2024 20:39	WG2400812

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	10900		2.87	6.78	10	11/12/2024 15:01	WG2400134
Ethane	13.9		0.296	1.29	1	11/12/2024 10:14	WG2399209
Ethene	U		0.422	1.27	1	11/12/2024 10:14	WG2399209

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/15/2024 16:57	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 16:57	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 16:57	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 16:57	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 16:57	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 16:57	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 16:57	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 16:57	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 16:57	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 16:57	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 16:57	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 16:57	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 16:57	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 16:57	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 16:57	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 16:57	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 16:57	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 16:57	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 16:57	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 16:57	WG2402109

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1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 16:57	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 16:57	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 16:57	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 16:57	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 16:57	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 16:57	WG2402109
trans-1,4-Dichloro-2-butene	U	UF CS	0.0560	0.200	1	11/15/2024 16:57	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 16:57	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 16:57	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 16:57	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 16:57	WG2402109
cis-1,2-Dichloroethene	11.9		0.0276	0.100	1	11/15/2024 16:57	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 16:57	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 16:57	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 16:57	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 16:57	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 16:57	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 16:57	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 16:57	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 16:57	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 16:57	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 16:57	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 16:57	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 16:57	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 16:57	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 16:57	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 16:57	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 16:57	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 16:57	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 16:57	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 16:57	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 16:57	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 16:57	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 16:57	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 16:57	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 16:57	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 16:57	WG2402109
Tetrachloroethene	70.3		0.0280	0.100	1	11/15/2024 16:57	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 16:57	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 16:57	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 16:57	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 16:57	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 16:57	WG2402109
Trichloroethene	8.78		0.0160	0.0400	1	11/15/2024 16:57	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 16:57	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 16:57	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 16:57	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 16:57	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 16:57	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 16:57	WG2402109
Vinyl chloride	U		0.0273	0.100	1	11/15/2024 16:57	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 16:57	WG2402109
(S) Toluene-d8	98.6			75.0-131		11/15/2024 16:57	WG2402109
(S) 4-Bromofluorobenzene	92.7			67.0-138		11/15/2024 16:57	WG2402109
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/15/2024 16:57	WG2402109

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

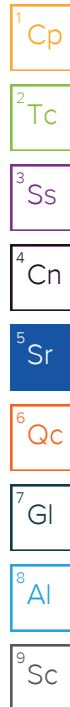
9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 13:21	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 13:21	WG2402769
Benzene	0.0180	J	0.0160	0.0400	1	11/18/2024 13:21	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 13:21	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 13:21	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 13:21	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 13:21	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 13:21	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 13:21	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 13:21	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 13:21	WG2402769
Carbon disulfide	0.309	U BT	0.162	0.500	1	11/18/2024 13:21	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 13:21	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 13:21	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 13:21	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 13:21	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 13:21	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 13:21	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 13:21	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 13:21	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 13:21	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 13:21	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 13:21	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 13:21	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 13:21	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 13:21	WG2402769
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/18/2024 13:21	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 13:21	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 13:21	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 13:21	WG2402769
1,1-Dichloroethene	0.0200	J	0.0200	0.100	1	11/18/2024 13:21	WG2402769
cis-1,2-Dichloroethene	3.35		0.0276	0.100	1	11/18/2024 13:21	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 13:21	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 13:21	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 13:21	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 13:21	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 13:21	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 13:21	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 13:21	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 13:21	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 13:21	WG2402769
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/18/2024 13:21	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 13:21	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 13:21	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 13:21	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 13:21	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 13:21	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 13:21	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 13:21	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 13:21	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 13:21	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 13:21	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 13:21	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 13:21	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 13:21	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 13:21	WG2402769

JC 12/10/24



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 13:21	WG2402769
Tetrachloroethene	0.0590	J	0.0280	0.100	1	11/18/2024 13:21	WG2402769
Toluene	U		0.0500	0.200	1	11/18/2024 13:21	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 13:21	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 13:21	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 13:21	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 13:21	WG2402769
Trichloroethene	0.0460		0.0160	0.0400	1	11/18/2024 13:21	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 13:21	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 13:21	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 13:21	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 13:21	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 13:21	WG2402769
Vinyl acetate	U	UJ CS	0.141	0.500	1	11/18/2024 13:21	WG2402769
Vinyl chloride	20.8		0.0273	0.100	1	11/18/2024 13:21	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 13:21	WG2402769
(S) Toluene-d8	99.6			75.0-131		11/18/2024 13:21	WG2402769
(S) 4-Bromofluorobenzene	88.1			67.0-138		11/18/2024 13:21	WG2402769
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/18/2024 13:21	WG2402769

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

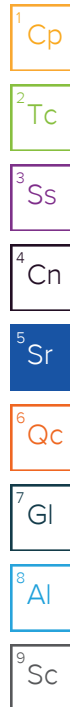
9Sc

JC 12/10/24

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 13:41	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 13:41	WG2402769
Benzene	U		0.0160	0.0400	1	11/18/2024 13:41	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 13:41	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 13:41	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 13:41	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 13:41	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 13:41	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 13:41	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 13:41	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 13:41	WG2402769
Carbon disulfide	U		0.162	0.500	1	11/18/2024 13:41	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 13:41	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 13:41	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 13:41	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 13:41	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 13:41	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 13:41	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 13:41	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 13:41	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 13:41	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 13:41	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 13:41	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 13:41	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 13:41	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 13:41	WG2402769
trans-1,4-Dichloro-2-butene	U	UJ C3	0.0560	0.200	1	11/18/2024 13:41	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 13:41	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 13:41	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 13:41	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 13:41	WG2402769
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/18/2024 13:41	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 13:41	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 13:41	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 13:41	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 13:41	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 13:41	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 13:41	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 13:41	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 13:41	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 13:41	WG2402769
Hexachloro-1,3-butadiene	U	UJ C3	0.508	1.00	1	11/18/2024 13:41	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 13:41	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 13:41	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 13:41	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 13:41	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 13:41	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 13:41	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 13:41	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 13:41	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 13:41	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 13:41	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 13:41	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 13:41	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 13:41	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 13:41	WG2402769

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 13:41	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 13:41	WG2402769
Toluene	U		0.0500	0.200	1	11/18/2024 13:41	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 13:41	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 13:41	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 13:41	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 13:41	WG2402769
Trichloroethene	U		0.0160	0.0400	1	11/18/2024 13:41	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 13:41	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 13:41	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 13:41	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 13:41	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 13:41	WG2402769
Vinyl acetate	U	UJ	0.141	0.500	1	11/18/2024 13:41	WG2402769
Vinyl chloride	U		0.0273	0.100	1	11/18/2024 13:41	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 13:41	WG2402769
(S) Toluene-d8	100			75.0-131		11/18/2024 13:41	WG2402769
(S) 4-Bromofluorobenzene	91.6			67.0-138		11/18/2024 13:41	WG2402769
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/18/2024 13:41	WG2402769

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	427000		4750	20000	1	11/10/2024 13:54	WG2398785

Sample Narrative:
L1797923-03 WG2398785: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	4170		547	1000	1	11/10/2024 01:35	WG2398742
Nitrate as (N)	U		88.4	100	1	11/10/2024 01:35	WG2398742
Sulfate	U		637	5000	1	11/10/2024 01:35	WG2398742

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4680		495	1000	1	11/15/2024 11:55	WG2400657

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	9970		22.6	100	1	11/19/2024 04:02	WG2401720
Manganese	3010		0.700	5.00	1	11/19/2024 04:02	WG2401720

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	3190		0.287	0.678	1	11/13/2024 13:27	WG2399938
Ethane	5.17		0.296	1.29	1	11/13/2024 13:27	WG2399938
Ethene	U		0.422	1.27	1	11/13/2024 13:27	WG2399938

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 14:00	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 14:00	WG2402769
Benzene	0.0250	J	0.0160	0.0400	1	11/18/2024 14:00	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 14:00	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 14:00	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 14:00	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 14:00	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 14:00	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 14:00	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 14:00	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 14:00	WG2402769
Carbon disulfide	U		0.162	0.500	1	11/18/2024 14:00	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 14:00	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 14:00	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 14:00	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 14:00	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 14:00	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 14:00	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 14:00	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 14:00	WG2402769

JC 12/10/24

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

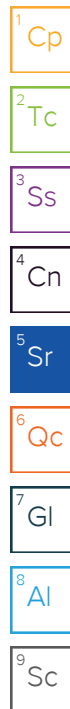
8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 14:00	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 14:00	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 14:00	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 14:00	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 14:00	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 14:00	WG2402769
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/18/2024 14:00	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 14:00	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 14:00	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 14:00	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 14:00	WG2402769
cis-1,2-Dichloroethene	1.41		0.0276	0.100	1	11/18/2024 14:00	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 14:00	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 14:00	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 14:00	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 14:00	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 14:00	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 14:00	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 14:00	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 14:00	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 14:00	WG2402769
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/18/2024 14:00	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 14:00	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 14:00	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 14:00	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 14:00	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 14:00	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 14:00	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 14:00	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 14:00	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 14:00	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 14:00	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 14:00	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 14:00	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 14:00	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 14:00	WG2402769
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 14:00	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 14:00	WG2402769
Toluene	U		0.0500	0.200	1	11/18/2024 14:00	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 14:00	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 14:00	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 14:00	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 14:00	WG2402769
Trichloroethene	U		0.0160	0.0400	1	11/18/2024 14:00	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 14:00	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 14:00	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 14:00	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 14:00	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 14:00	WG2402769
Vinyl acetate	U	UJ CS	0.141	0.500	1	11/18/2024 14:00	WG2402769
Vinyl chloride	1.83		0.0273	0.100	1	11/18/2024 14:00	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 14:00	WG2402769
(S) Toluene-d8	98.8			75.0-131		11/18/2024 14:00	WG2402769
(S) 4-Bromofluorobenzene	87.3			67.0-138		11/18/2024 14:00	WG2402769
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/18/2024 14:00	WG2402769

JC 12/10/24



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 14:20	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 14:20	WG2402769
Benzene	0.0170	J	0.0160	0.0400	1	11/18/2024 14:20	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 14:20	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 14:20	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 14:20	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 14:20	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 14:20	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 14:20	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 14:20	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 14:20	WG2402769
Carbon disulfide	0.197	U BJ	0.162	0.500	1	11/18/2024 14:20	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 14:20	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 14:20	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 14:20	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 14:20	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 14:20	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 14:20	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 14:20	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 14:20	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 14:20	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 14:20	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 14:20	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 14:20	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 14:20	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 14:20	WG2402769
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/18/2024 14:20	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 14:20	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 14:20	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 14:20	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 14:20	WG2402769
cis-1,2-Dichloroethene	0.202		0.0276	0.100	1	11/18/2024 14:20	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 14:20	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 14:20	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 14:20	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 14:20	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 14:20	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 14:20	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 14:20	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 14:20	WG2402769
Ethylbenzene	0.290		0.0212	0.100	1	11/18/2024 14:20	WG2402769
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/18/2024 14:20	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 14:20	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 14:20	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 14:20	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 14:20	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 14:20	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 14:20	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 14:20	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 14:20	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 14:20	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 14:20	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 14:20	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 14:20	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 14:20	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 14:20	WG2402769

JC 12/10/24

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 14:20	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 14:20	WG2402769
Toluene	0.693		0.0500	0.200	1	11/18/2024 14:20	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 14:20	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 14:20	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 14:20	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 14:20	WG2402769
Trichloroethene	0.0850		0.0160	0.0400	1	11/18/2024 14:20	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 14:20	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 14:20	WG2402769
1,2,4-Trimethylbenzene	0.156	U	0.0464	0.200	1	11/18/2024 14:20	WG2402769
1,2,3-Trimethylbenzene	0.0500	U	0.0460	0.200	1	11/18/2024 14:20	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 14:20	WG2402769
Vinyl acetate	U	UJ	0.141	0.500	1	11/18/2024 14:20	WG2402769
Vinyl chloride	U		0.0273	0.100	1	11/18/2024 14:20	WG2402769
Xylenes, Total	1.58		0.191	0.260	1	11/18/2024 14:20	WG2402769
(S) Toluene-d8	101			75.0-131		11/18/2024 14:20	WG2402769
(S) 4-Bromofluorobenzene	85.7			67.0-138		11/18/2024 14:20	WG2402769
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/18/2024 14:20	WG2402769

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 12/10/24

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Alkalinity	393000		4750	20000	1	11/10/2024 14:21	WG2398785

Sample Narrative:
L1797923-05 WG2398785: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Chloride	26900		547	1000	1	11/10/2024 02:29	WG2398742
Nitrate as (N)	U		88.4	100	1	11/10/2024 02:29	WG2398742
Sulfate	U		637	5000	1	11/10/2024 02:29	WG2398742

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
TOC (Total Organic Carbon)	6810		495	1000	1	11/15/2024 12:55	WG2400657

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Iron	6670		22.6	100	1	11/19/2024 04:05	WG2401720
Manganese	819		0.700	5.00	1	11/19/2024 04:05	WG2401720

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Methane	21000		2.87	6.78	10	11/13/2024 20:25	WG2401030
Ethane	216		0.296	1.29	1	11/13/2024 09:52	WG2399940
Ethene	U		0.422	1.27	1	11/13/2024 09:52	WG2399940

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Acetone	244		0.548	1.00	1	11/18/2024 14:40	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 14:40	WG2402769
Benzene	0.0730		0.0160	0.0400	1	11/18/2024 14:40	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 14:40	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 14:40	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 14:40	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 14:40	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 14:40	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 14:40	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 14:40	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 14:40	WG2402769
Carbon disulfide	0.190	U	0.162	0.500	1	11/18/2024 14:40	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 14:40	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 14:40	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 14:40	WG2402769
Chloroethane	0.272		0.0432	0.200	1	11/18/2024 14:40	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 14:40	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 14:40	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 14:40	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 14:40	WG2402769

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 14:40	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 14:40	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 14:40	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 14:40	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 14:40	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 14:40	WG2402769
trans-1,4-Dichloro-2-butene	U	UJ	0.0560	0.200	1	11/18/2024 14:40	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 14:40	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 14:40	WG2402769
1,2-Dichloroethane	0.139		0.0190	0.100	1	11/18/2024 14:40	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 14:40	WG2402769
cis-1,2-Dichloroethene	5.99		0.0276	0.100	1	11/18/2024 14:40	WG2402769
trans-1,2-Dichloroethene	1.61		0.0572	0.200	1	11/18/2024 14:40	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 14:40	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 14:40	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 14:40	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 14:40	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 14:40	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 14:40	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 14:40	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 14:40	WG2402769
Hexachloro-1,3-butadiene	U	UJ	0.508	1.00	1	11/18/2024 14:40	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 14:40	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 14:40	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 14:40	WG2402769
Isopropylbenzene	0.0410	U	0.0345	0.100	1	11/18/2024 14:40	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 14:40	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 14:40	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 14:40	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 14:40	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 14:40	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 14:40	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 14:40	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 14:40	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 14:40	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 14:40	WG2402769
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 14:40	WG2402769
Tetrachloroethene	0.198		0.0280	0.100	1	11/18/2024 14:40	WG2402769
Toluene	0.100	U	0.0500	0.200	1	11/18/2024 14:40	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 14:40	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 14:40	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 14:40	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 14:40	WG2402769
Trichloroethene	0.674		0.0160	0.0400	1	11/18/2024 14:40	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 14:40	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 14:40	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 14:40	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 14:40	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 14:40	WG2402769
Vinyl acetate	U	UJ	0.141	0.500	1	11/18/2024 14:40	WG2402769
Vinyl chloride	1.13		0.0273	0.100	1	11/18/2024 14:40	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 14:40	WG2402769
(S) Toluene-d8	101			75.0-131		11/18/2024 14:40	WG2402769
(S) 4-Bromofluorobenzene	88.6			67.0-138		11/18/2024 14:40	WG2402769
(S) 1,2-Dichloroethane-d4	102			70.0-130		11/18/2024 14:40	WG2402769

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 12/10/24

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/18/2024 14:59	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 14:59	WG2402769
Benzene	0.0910		0.0160	0.0400	1	11/18/2024 14:59	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 14:59	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 14:59	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 14:59	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 14:59	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 14:59	WG2402769
n-Butylbenzene	0.384	J	0.153	0.500	1	11/18/2024 14:59	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 14:59	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 14:59	WG2402769
Carbon disulfide	0.429	U BJ	0.162	0.500	1	11/18/2024 14:59	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 14:59	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 14:59	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 14:59	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 14:59	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 14:59	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 14:59	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 14:59	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 14:59	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 14:59	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 14:59	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 14:59	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 14:59	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 14:59	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 14:59	WG2402769
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/18/2024 14:59	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 14:59	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 14:59	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 14:59	WG2402769
1,1-Dichloroethene	0.176		0.0200	0.100	1	11/18/2024 14:59	WG2402769
cis-1,2-Dichloroethene	13.0		0.0276	0.100	1	11/18/2024 14:59	WG2402769
trans-1,2-Dichloroethene	0.331		0.0572	0.200	1	11/18/2024 14:59	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 14:59	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 14:59	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 14:59	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 14:59	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 14:59	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 14:59	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 14:59	WG2402769
Ethylbenzene	0.177		0.0212	0.100	1	11/18/2024 14:59	WG2402769
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/18/2024 14:59	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 14:59	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 14:59	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 14:59	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 14:59	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 14:59	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 14:59	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 14:59	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 14:59	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 14:59	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 14:59	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 14:59	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 14:59	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 14:59	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 14:59	WG2402769

JC 12/10/24

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 14:59	WG2402769
Tetrachloroethene	0.0430	J	0.0280	0.100	1	11/18/2024 14:59	WG2402769
Toluene	1.20		0.0500	0.200	1	11/18/2024 14:59	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 14:59	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 14:59	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 14:59	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 14:59	WG2402769
Trichloroethene	0.281		0.0160	0.0400	1	11/18/2024 14:59	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 14:59	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 14:59	WG2402769
1,2,4-Trimethylbenzene	0.0970	J	0.0464	0.200	1	11/18/2024 14:59	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 14:59	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 14:59	WG2402769
Vinyl acetate	U	UJ CS	0.141	0.500	1	11/18/2024 14:59	WG2402769
Vinyl chloride	17.6		0.0273	0.100	1	11/18/2024 14:59	WG2402769
Xylenes, Total	0.961		0.191	0.260	1	11/18/2024 14:59	WG2402769
(S) Toluene-d8	98.9			75.0-131		11/18/2024 14:59	WG2402769
(S) 4-Bromofluorobenzene	94.3			67.0-138		11/18/2024 14:59	WG2402769
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/18/2024 14:59	WG2402769

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 12/10/24

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 15:19	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 15:19	WG2402769
Benzene	0.0840		0.0160	0.0400	1	11/18/2024 15:19	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 15:19	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 15:19	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 15:19	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 15:19	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 15:19	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 15:19	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 15:19	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 15:19	WG2402769
Carbon disulfide	U		0.162	0.500	1	11/18/2024 15:19	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 15:19	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 15:19	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 15:19	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 15:19	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 15:19	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 15:19	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 15:19	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 15:19	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 15:19	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 15:19	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 15:19	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 15:19	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 15:19	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 15:19	WG2402769
trans-1,4-Dichloro-2-butene	U	UJ	0.0560	0.200	1	11/18/2024 15:19	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 15:19	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 15:19	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 15:19	WG2402769
1,1-Dichloroethene	0.0350	U	0.0200	0.100	1	11/18/2024 15:19	WG2402769
cis-1,2-Dichloroethene	21.4		0.0276	0.100	1	11/18/2024 15:19	WG2402769
trans-1,2-Dichloroethene	0.121	U	0.0572	0.200	1	11/18/2024 15:19	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 15:19	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 15:19	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 15:19	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 15:19	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 15:19	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 15:19	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 15:19	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 15:19	WG2402769
Hexachloro-1,3-butadiene	U	UJ	0.508	1.00	1	11/18/2024 15:19	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 15:19	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 15:19	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 15:19	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 15:19	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 15:19	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 15:19	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 15:19	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 15:19	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 15:19	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 15:19	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 15:19	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 15:19	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 15:19	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 15:19	WG2402769

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 12/10/24

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 15:19	WG2402769
Tetrachloroethene	0.0440	J	0.0280	0.100	1	11/18/2024 15:19	WG2402769
Toluene	U		0.0500	0.200	1	11/18/2024 15:19	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 15:19	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 15:19	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 15:19	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 15:19	WG2402769
Trichloroethene	1.18		0.0160	0.0400	1	11/18/2024 15:19	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 15:19	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 15:19	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 15:19	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 15:19	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 15:19	WG2402769
Vinyl acetate	U	UJ C3	0.141	0.500	1	11/18/2024 15:19	WG2402769
Vinyl chloride	0.386		0.0273	0.100	1	11/18/2024 15:19	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 15:19	WG2402769
(S) Toluene-d8	102			75.0-131		11/18/2024 15:19	WG2402769
(S) 4-Bromofluorobenzene	86.0			67.0-138		11/18/2024 15:19	WG2402769
(S) 1,2-Dichloroethane-d4	98.7			70.0-130		11/18/2024 15:19	WG2402769

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 12/10/24

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 15:39	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 15:39	WG2402769
Benzene	0.0270	J	0.0160	0.0400	1	11/18/2024 15:39	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 15:39	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 15:39	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 15:39	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 15:39	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 15:39	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 15:39	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 15:39	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 15:39	WG2402769
Carbon disulfide	U		0.162	0.500	1	11/18/2024 15:39	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 15:39	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 15:39	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 15:39	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 15:39	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 15:39	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 15:39	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 15:39	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 15:39	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 15:39	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 15:39	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 15:39	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 15:39	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 15:39	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 15:39	WG2402769
trans-1,4-Dichloro-2-butene	U	UJ	0.0560	0.200	1	11/18/2024 15:39	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 15:39	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 15:39	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 15:39	WG2402769
1,1-Dichloroethene	0.0220	J	0.0200	0.100	1	11/18/2024 15:39	WG2402769
cis-1,2-Dichloroethene	5.14		0.0276	0.100	1	11/18/2024 15:39	WG2402769
trans-1,2-Dichloroethene	0.0630	J	0.0572	0.200	1	11/18/2024 15:39	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 15:39	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 15:39	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 15:39	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 15:39	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 15:39	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 15:39	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 15:39	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 15:39	WG2402769
Hexachloro-1,3-butadiene	U	UJ	0.508	1.00	1	11/18/2024 15:39	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 15:39	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 15:39	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 15:39	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 15:39	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 15:39	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 15:39	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 15:39	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 15:39	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 15:39	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 15:39	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 15:39	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 15:39	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 15:39	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 15:39	WG2402769

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 12/10/24

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 15:39	WG2402769
Tetrachloroethene	0.255		0.0280	0.100	1	11/18/2024 15:39	WG2402769
Toluene	U		0.0500	0.200	1	11/18/2024 15:39	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 15:39	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 15:39	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 15:39	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 15:39	WG2402769
Trichloroethene	1.03		0.0160	0.0400	1	11/18/2024 15:39	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 15:39	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 15:39	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 15:39	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 15:39	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 15:39	WG2402769
Vinyl acetate	U	UJ	0.141	0.500	1	11/18/2024 15:39	WG2402769
Vinyl chloride	0.0400	J	0.0273	0.100	1	11/18/2024 15:39	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 15:39	WG2402769
(S) Toluene-d8	102			75.0-131		11/18/2024 15:39	WG2402769
(S) 4-Bromofluorobenzene	89.3			67.0-138		11/18/2024 15:39	WG2402769
(S) 1,2-Dichloroethane-d4	96.8			70.0-130		11/18/2024 15:39	WG2402769

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 15:59	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 15:59	WG2402769
Benzene	U		0.0160	0.0400	1	11/18/2024 15:59	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 15:59	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 15:59	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 15:59	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 15:59	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 15:59	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 15:59	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 15:59	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 15:59	WG2402769
Carbon disulfide	0.239	U	0.162	0.500	1	11/18/2024 15:59	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 15:59	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 15:59	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 15:59	WG2402769
Chloroethane	0.195	U	0.0432	0.200	1	11/18/2024 15:59	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 15:59	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 15:59	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 15:59	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 15:59	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 15:59	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 15:59	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 15:59	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 15:59	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 15:59	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 15:59	WG2402769
trans-1,4-Dichloro-2-butene	U	UJ	0.0560	0.200	1	11/18/2024 15:59	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 15:59	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 15:59	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 15:59	WG2402769
1,1-Dichloroethene	0.838		0.0200	0.100	1	11/18/2024 15:59	WG2402769
cis-1,2-Dichloroethene	16.1		0.0276	0.100	1	11/18/2024 15:59	WG2402769
trans-1,2-Dichloroethene	0.322		0.0572	0.200	1	11/18/2024 15:59	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 15:59	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 15:59	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 15:59	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 15:59	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 15:59	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 15:59	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 15:59	WG2402769
Ethylbenzene	0.0440	U	0.0212	0.100	1	11/18/2024 15:59	WG2402769
Hexachloro-1,3-butadiene	U	UJ	0.508	1.00	1	11/18/2024 15:59	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 15:59	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 15:59	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 15:59	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 15:59	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 15:59	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 15:59	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 15:59	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 15:59	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 15:59	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 15:59	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 15:59	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 15:59	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 15:59	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 15:59	WG2402769

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 12/10/24

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 15:59	WG2402769
Tetrachloroethene	0.392		0.0280	0.100	1	11/18/2024 15:59	WG2402769
Toluene	0.0690	J	0.0500	0.200	1	11/18/2024 15:59	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 15:59	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 15:59	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 15:59	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 15:59	WG2402769
Trichloroethene	0.986		0.0160	0.0400	1	11/18/2024 15:59	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 15:59	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 15:59	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 15:59	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 15:59	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 15:59	WG2402769
Vinyl acetate	U	UJ 	0.141	0.500	1	11/18/2024 15:59	WG2402769
Vinyl chloride	10.3		0.0273	0.100	1	11/18/2024 15:59	WG2402769
Xylenes, Total	0.287		0.191	0.260	1	11/18/2024 15:59	WG2402769
(S) Toluene-d8	101			75.0-131		11/18/2024 15:59	WG2402769
(S) 4-Bromofluorobenzene	88.4			67.0-138		11/18/2024 15:59	WG2402769
(S) 1,2-Dichloroethane-d4	99.1			70.0-130		11/18/2024 15:59	WG2402769

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 12/10/24

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 16:18	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 16:18	WG2402769
Benzene	U		0.0160	0.0400	1	11/18/2024 16:18	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 16:18	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 16:18	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 16:18	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 16:18	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 16:18	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 16:18	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 16:18	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 16:18	WG2402769
Carbon disulfide	0.180	U BJ	0.162	0.500	1	11/18/2024 16:18	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 16:18	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 16:18	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 16:18	WG2402769
Chloroethane	0.172	U	0.0432	0.200	1	11/18/2024 16:18	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 16:18	WG2402769
Chloromethane	0.116	U	0.0556	0.500	1	11/18/2024 16:18	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 16:18	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 16:18	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 16:18	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 16:18	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 16:18	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 16:18	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 16:18	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 16:18	WG2402769
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/18/2024 16:18	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 16:18	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 16:18	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 16:18	WG2402769
1,1-Dichloroethene	0.821		0.0200	0.100	1	11/18/2024 16:18	WG2402769
cis-1,2-Dichloroethene	16.7		0.0276	0.100	1	11/18/2024 16:18	WG2402769
trans-1,2-Dichloroethene	0.346		0.0572	0.200	1	11/18/2024 16:18	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 16:18	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 16:18	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 16:18	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 16:18	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 16:18	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 16:18	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 16:18	WG2402769
Ethylbenzene	0.0410	U	0.0212	0.100	1	11/18/2024 16:18	WG2402769
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/18/2024 16:18	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 16:18	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 16:18	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 16:18	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 16:18	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 16:18	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 16:18	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 16:18	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 16:18	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 16:18	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 16:18	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 16:18	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 16:18	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 16:18	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 16:18	WG2402769

JC 12/10/24

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 16:18	WG2402769
Tetrachloroethene	0.380		0.0280	0.100	1	11/18/2024 16:18	WG2402769
Toluene	0.0640	<u>U</u>	0.0500	0.200	1	11/18/2024 16:18	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 16:18	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 16:18	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 16:18	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 16:18	WG2402769
Trichloroethene	0.896		0.0160	0.0400	1	11/18/2024 16:18	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 16:18	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 16:18	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 16:18	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 16:18	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 16:18	WG2402769
Vinyl acetate	U	<u>UJ</u> <u>C3</u>	0.141	0.500	1	11/18/2024 16:18	WG2402769
Vinyl chloride	10.7		0.0273	0.100	1	11/18/2024 16:18	WG2402769
Xylenes, Total	0.214	<u>U</u>	0.191	0.260	1	11/18/2024 16:18	WG2402769
(S) Toluene-d8	103			75.0-131		11/18/2024 16:18	WG2402769
(S) 4-Bromofluorobenzene	87.2			67.0-138		11/18/2024 16:18	WG2402769
(S) 1,2-Dichloroethane-d4	96.3			70.0-130		11/18/2024 16:18	WG2402769

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

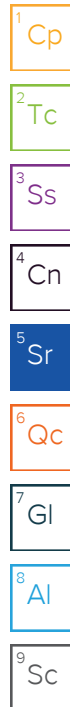
8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/18/2024 16:38	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 16:38	WG2402769
Benzene	U		0.0160	0.0400	1	11/18/2024 16:38	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 16:38	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 16:38	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 16:38	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 16:38	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 16:38	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 16:38	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 16:38	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 16:38	WG2402769
Carbon disulfide	0.162	U 3	0.162	0.500	1	11/18/2024 16:38	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 16:38	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 16:38	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 16:38	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 16:38	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 16:38	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 16:38	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 16:38	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 16:38	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 16:38	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 16:38	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 16:38	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 16:38	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 16:38	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 16:38	WG2402769
trans-1,4-Dichloro-2-butene	U	UJ 63	0.0560	0.200	1	11/18/2024 16:38	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 16:38	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 16:38	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 16:38	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 16:38	WG2402769
cis-1,2-Dichloroethene	0.0920	U 3	0.0276	0.100	1	11/18/2024 16:38	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 16:38	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 16:38	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 16:38	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 16:38	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 16:38	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 16:38	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 16:38	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 16:38	WG2402769
Ethylbenzene	0.0310	U 63	0.0212	0.100	1	11/18/2024 16:38	WG2402769
Hexachloro-1,3-butadiene	U	UJ 63	0.508	1.00	1	11/18/2024 16:38	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 16:38	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 16:38	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 16:38	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 16:38	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 16:38	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 16:38	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 16:38	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 16:38	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 16:38	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 16:38	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 16:38	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 16:38	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 16:38	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 16:38	WG2402769

JC 12/10/24



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 16:38	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 16:38	WG2402769
Toluene	0.0730	J	0.0500	0.200	1	11/18/2024 16:38	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 16:38	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 16:38	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 16:38	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 16:38	WG2402769
Trichloroethene	U		0.0160	0.0400	1	11/18/2024 16:38	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 16:38	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 16:38	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 16:38	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 16:38	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 16:38	WG2402769
Vinyl acetate	U	UJ CS	0.141	0.500	1	11/18/2024 16:38	WG2402769
Vinyl chloride	U		0.0273	0.100	1	11/18/2024 16:38	WG2402769
Xylenes, Total	0.211	J	0.191	0.260	1	11/18/2024 16:38	WG2402769
(S) Toluene-d8	101			75.0-131		11/18/2024 16:38	WG2402769
(S) 4-Bromofluorobenzene	88.8			67.0-138		11/18/2024 16:38	WG2402769
(S) 1,2-Dichloroethane-d4	101			70.0-130		11/18/2024 16:38	WG2402769

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 12/10/24

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 16:58	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 16:58	WG2402769
Benzene	U		0.0160	0.0400	1	11/18/2024 16:58	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 16:58	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 16:58	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 16:58	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 16:58	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 16:58	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 16:58	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 16:58	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 16:58	WG2402769
Carbon disulfide	U		0.162	0.500	1	11/18/2024 16:58	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 16:58	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 16:58	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 16:58	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 16:58	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 16:58	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 16:58	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 16:58	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 16:58	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 16:58	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 16:58	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 16:58	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 16:58	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 16:58	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 16:58	WG2402769
trans-1,4-Dichloro-2-butene	U	UJ 	0.0560	0.200	1	11/18/2024 16:58	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 16:58	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 16:58	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 16:58	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 16:58	WG2402769
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/18/2024 16:58	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 16:58	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 16:58	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 16:58	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 16:58	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 16:58	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 16:58	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 16:58	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 16:58	WG2402769
Ethylbenzene	0.123		0.0212	0.100	1	11/18/2024 16:58	WG2402769
Hexachloro-1,3-butadiene	U	UJ 	0.508	1.00	1	11/18/2024 16:58	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 16:58	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 16:58	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 16:58	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 16:58	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 16:58	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 16:58	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 16:58	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 16:58	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 16:58	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 16:58	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 16:58	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 16:58	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 16:58	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 16:58	WG2402769

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 12/10/24

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 16:58	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 16:58	WG2402769
Toluene	0.151	U	0.0500	0.200	1	11/18/2024 16:58	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 16:58	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 16:58	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 16:58	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 16:58	WG2402769
Trichloroethene	U		0.0160	0.0400	1	11/18/2024 16:58	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 16:58	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 16:58	WG2402769
1,2,4-Trimethylbenzene	0.0910	U	0.0464	0.200	1	11/18/2024 16:58	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 16:58	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 16:58	WG2402769
Vinyl acetate	U	UJ	CS 0.141	0.500	1	11/18/2024 16:58	WG2402769
Vinyl chloride	U		0.0273	0.100	1	11/18/2024 16:58	WG2402769
Xylenes, Total	0.738		0.191	0.260	1	11/18/2024 16:58	WG2402769
(S) Toluene-d8	101			75.0-131		11/18/2024 16:58	WG2402769
(S) 4-Bromofluorobenzene	88.4			67.0-138		11/18/2024 16:58	WG2402769
(S) 1,2-Dichloroethane-d4	102			70.0-130		11/18/2024 16:58	WG2402769

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 12/10/24

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	301000		4750	20000	1	11/10/2024 10:20	WG2398699

Sample Narrative:
L1797923-13 WG2398699: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	28000		547	1000	1	11/10/2024 03:09	WG2398742
Nitrate as (N)	U		88.4	100	1	11/10/2024 03:09	WG2398742
Sulfate	24300		637	5000	1	11/10/2024 03:09	WG2398742

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3210		495	1000	1	11/15/2024 13:34	WG2400657

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	342		22.6	100	1	11/19/2024 04:09	WG2401720
Manganese	296		0.700	5.00	1	11/19/2024 04:09	WG2401720

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	1600		0.287	0.678	1	11/13/2024 10:02	WG2399940
Ethane	4.68		0.296	1.29	1	11/13/2024 10:02	WG2399940
Ethene	U		0.422	1.27	1	11/13/2024 10:02	WG2399940

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 17:17	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 17:17	WG2402769
Benzene	0.0160	J	0.0160	0.0400	1	11/18/2024 17:17	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 17:17	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 17:17	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 17:17	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 17:17	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 17:17	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 17:17	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 17:17	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 17:17	WG2402769
Carbon disulfide	U		0.162	0.500	1	11/18/2024 17:17	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 17:17	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 17:17	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 17:17	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 17:17	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 17:17	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 17:17	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 17:17	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 17:17	WG2402769

JC 12/10/24

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 17:17	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 17:17	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 17:17	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 17:17	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 17:17	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 17:17	WG2402769
trans-1,4-Dichloro-2-butene	U	UJ C3	0.0560	0.200	1	11/18/2024 17:17	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 17:17	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 17:17	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 17:17	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 17:17	WG2402769
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/18/2024 17:17	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 17:17	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 17:17	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 17:17	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 17:17	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 17:17	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 17:17	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 17:17	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 17:17	WG2402769
Ethylbenzene	0.0560		0.0212	0.100	1	11/18/2024 17:17	WG2402769
Hexachloro-1,3-butadiene	U	UJ C3	0.508	1.00	1	11/18/2024 17:17	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 17:17	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 17:17	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 17:17	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 17:17	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 17:17	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 17:17	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 17:17	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 17:17	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 17:17	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 17:17	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 17:17	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 17:17	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 17:17	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 17:17	WG2402769
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 17:17	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 17:17	WG2402769
Toluene	0.0930	U	0.0500	0.200	1	11/18/2024 17:17	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 17:17	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 17:17	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 17:17	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 17:17	WG2402769
Trichloroethene	U		0.0160	0.0400	1	11/18/2024 17:17	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 17:17	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 17:17	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 17:17	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 17:17	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 17:17	WG2402769
Vinyl acetate	U	UJ C3	0.141	0.500	1	11/18/2024 17:17	WG2402769
Vinyl chloride	U		0.0273	0.100	1	11/18/2024 17:17	WG2402769
Xylenes, Total	0.229	U	0.191	0.260	1	11/18/2024 17:17	WG2402769
(S) Toluene-d8	101			75.0-131		11/18/2024 17:17	WG2402769
(S) 4-Bromofluorobenzene	87.3			67.0-138		11/18/2024 17:17	WG2402769
(S) 1,2-Dichloroethane-d4	99.6			70.0-130		11/18/2024 17:17	WG2402769

JC 12/10/24

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Alkalinity	817000		4750	20000	1	11/10/2024 14:27	WG2398785

Sample Narrative:
L1797923-14 WG2398785: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Chloride	14200		547	1000	1	11/10/2024 03:23	WG2398742
Nitrate as (N)	U		88.4	100	1	11/10/2024 03:23	WG2398742
Sulfate	U		637	5000	1	11/10/2024 03:23	WG2398742

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
TOC (Total Organic Carbon)	9120		495	1000	1	11/15/2024 13:54	WG2400657

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Iron	46200		113	500	5	11/19/2024 04:18	WG2401720
Manganese	10800		3.50	25.0	5	11/19/2024 04:18	WG2401720

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Methane	6550		0.287	0.678	1	11/13/2024 10:53	WG2399940
Ethane	6.04		0.296	1.29	1	11/13/2024 10:53	WG2399940
Ethene	U		0.422	1.27	1	11/13/2024 10:53	WG2399940

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		
Acetone	U		0.548	1.00	1	11/18/2024 17:37	WG2402769	
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 17:37	WG2402769	
Benzene	0.0500		0.0160	0.0400	1	11/18/2024 17:37	WG2402769	
Bromobenzene	U		0.0420	0.500	1	11/18/2024 17:37	WG2402769	
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 17:37	WG2402769	
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 17:37	WG2402769	
Bromoform	U		0.239	1.00	1	11/18/2024 17:37	WG2402769	
Bromomethane	U		0.148	0.500	1	11/18/2024 17:37	WG2402769	
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 17:37	WG2402769	
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 17:37	WG2402769	
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 17:37	WG2402769	
Carbon disulfide	0.291	U	BJ	0.162	0.500	1	11/18/2024 17:37	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 17:37	WG2402769	
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 17:37	WG2402769	
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 17:37	WG2402769	
Chloroethane	U		0.0432	0.200	1	11/18/2024 17:37	WG2402769	
Chloroform	U		0.0166	0.100	1	11/18/2024 17:37	WG2402769	
Chloromethane	U		0.0556	0.500	1	11/18/2024 17:37	WG2402769	
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 17:37	WG2402769	
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 17:37	WG2402769	

JC 12/10/24

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 17:37	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 17:37	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 17:37	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 17:37	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 17:37	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 17:37	WG2402769
trans-1,4-Dichloro-2-butene	U	UJ ES	0.0560	0.200	1	11/18/2024 17:37	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 17:37	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 17:37	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 17:37	WG2402769
1,1-Dichloroethene	0.0210	U	0.0200	0.100	1	11/18/2024 17:37	WG2402769
cis-1,2-Dichloroethene	1.19		0.0276	0.100	1	11/18/2024 17:37	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 17:37	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 17:37	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 17:37	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 17:37	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 17:37	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 17:37	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 17:37	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 17:37	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 17:37	WG2402769
Hexachloro-1,3-butadiene	U	UJ ES	0.508	1.00	1	11/18/2024 17:37	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 17:37	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 17:37	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 17:37	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 17:37	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 17:37	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 17:37	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 17:37	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 17:37	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 17:37	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 17:37	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 17:37	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 17:37	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 17:37	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 17:37	WG2402769
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 17:37	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 17:37	WG2402769
Toluene	0.204		0.0500	0.200	1	11/18/2024 17:37	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 17:37	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 17:37	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 17:37	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 17:37	WG2402769
Trichloroethene	0.107		0.0160	0.0400	1	11/18/2024 17:37	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 17:37	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 17:37	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 17:37	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 17:37	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 17:37	WG2402769
Vinyl acetate	U	UJ ES	0.141	0.500	1	11/18/2024 17:37	WG2402769
Vinyl chloride	1.22		0.0273	0.100	1	11/18/2024 17:37	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 17:37	WG2402769
(S) Toluene-d8	101			75.0-131		11/18/2024 17:37	WG2402769
(S) 4-Bromofluorobenzene	85.9			67.0-138		11/18/2024 17:37	WG2402769
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/18/2024 17:37	WG2402769

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 12/10/24

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	1070000		4750	20000	1	11/10/2024 14:31	WG2398785

Sample Narrative:
L1797923-15 WG2398785: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	28200		547	1000	1	11/10/2024 03:36	WG2398742
Nitrate as (N)	U		88.4	100	1	11/10/2024 03:36	WG2398742
Sulfate	U		637	5000	1	11/10/2024 03:36	WG2398742

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	9630		495	1000	1	11/15/2024 14:14	WG2400657

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	6290		22.6	100	1	11/19/2024 04:21	WG2401720
Manganese	2540		0.700	5.00	1	11/19/2024 04:21	WG2401720

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	13300		2.87	6.78	10	11/13/2024 21:54	WG2401030
Ethane	5.83		0.296	1.29	1	11/13/2024 10:58	WG2399940
Ethene	U		0.422	1.27	1	11/13/2024 10:58	WG2399940

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	39.5		0.548	1.00	1	11/18/2024 17:57	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 17:57	WG2402769
Benzene	U		0.0160	0.0400	1	11/18/2024 17:57	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 17:57	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 17:57	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 17:57	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 17:57	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 17:57	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 17:57	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 17:57	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 17:57	WG2402769
Carbon disulfide	0.252	U BS	0.162	0.500	1	11/18/2024 17:57	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 17:57	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 17:57	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 17:57	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 17:57	WG2402769
Chloroform	0.123	BS	0.0166	0.100	1	11/18/2024 17:57	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 17:57	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 17:57	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 17:57	WG2402769

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 12/10/24

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 17:57	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 17:57	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 17:57	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 17:57	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 17:57	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 17:57	WG2402769
trans-1,4-Dichloro-2-butene	U	UJ 	0.0560	0.200	1	11/18/2024 17:57	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 17:57	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 17:57	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 17:57	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 17:57	WG2402769
cis-1,2-Dichloroethene	0.188		0.0276	0.100	1	11/18/2024 17:57	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 17:57	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 17:57	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 17:57	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 17:57	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 17:57	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 17:57	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 17:57	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 17:57	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 17:57	WG2402769
Hexachloro-1,3-butadiene	U	UJ 	0.508	1.00	1	11/18/2024 17:57	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 17:57	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 17:57	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 17:57	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 17:57	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 17:57	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 17:57	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 17:57	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 17:57	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 17:57	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 17:57	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 17:57	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 17:57	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 17:57	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 17:57	WG2402769
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 17:57	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 17:57	WG2402769
Toluene	0.0510	J 	0.0500	0.200	1	11/18/2024 17:57	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 17:57	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 17:57	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 17:57	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 17:57	WG2402769
Trichloroethene	0.0160	U 	0.0160	0.0400	1	11/18/2024 17:57	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 17:57	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 17:57	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 17:57	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 17:57	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 17:57	WG2402769
Vinyl acetate	U	UJ 	0.141	0.500	1	11/18/2024 17:57	WG2402769
Vinyl chloride	0.411		0.0273	0.100	1	11/18/2024 17:57	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 17:57	WG2402769
(S) Toluene-d8	98.8			75.0-131		11/18/2024 17:57	WG2402769
(S) 4-Bromofluorobenzene	86.1			67.0-138		11/18/2024 17:57	WG2402769
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/18/2024 17:57	WG2402769

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 12/10/24

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	276000		4750	20000	1	11/13/2024 11:32	WG2400690

Sample Narrative:
L1798511-01 WG2400690: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	14900		547	1000	1	11/12/2024 21:49	WG2400159
Nitrate as (N)	2600		88.4	100	1	11/12/2024 21:49	WG2400159
Sulfate	155000		637	5000	1	11/12/2024 21:49	WG2400159

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2730		495	1000	1	11/15/2024 21:18	WG2401895

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	651		22.6	100	1	11/19/2024 14:44	WG2401735
Manganese	385		0.700	5.00	1	11/19/2024 14:44	WG2401735

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	241		0.287	0.678	1	11/14/2024 13:10	WG2400515
Ethane	U		0.296	1.29	1	11/14/2024 13:10	WG2400515
Ethene	U		0.422	1.27	1	11/14/2024 13:10	WG2400515

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	1.13		0.548	1.00	1	11/17/2024 19:47	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 19:47	WG2403269
Benzene	0.0220	J	0.0160	0.0400	1	11/17/2024 19:47	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 19:47	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 19:47	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 19:47	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 19:47	WG2403269
Bromomethane	U	UJ CS	0.148	0.500	1	11/17/2024 19:47	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 19:47	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 19:47	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 19:47	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 19:47	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 19:47	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 19:47	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 19:47	WG2403269
Chloroethane	U	UJ CS	0.0432	0.200	1	11/17/2024 19:47	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 19:47	WG2403269
Chloromethane	U	UJ CS	0.0556	0.500	1	11/17/2024 19:47	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 19:47	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 19:47	WG2403269

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/25

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 19:47	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 19:47	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 19:47	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 19:47	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 19:47	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 19:47	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 19:47	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 19:47	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 19:47	WG2403269
1,2-Dichloroethane	U	UJ CS	0.0190	0.100	1	11/17/2024 19:47	WG2403269
1,1-Dichloroethene	0.208		0.0200	0.100	1	11/17/2024 19:47	WG2403269
cis-1,2-Dichloroethene	64.5		0.0276	0.100	1	11/17/2024 19:47	WG2403269
trans-1,2-Dichloroethene	0.137	J	0.0572	0.200	1	11/17/2024 19:47	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 19:47	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 19:47	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 19:47	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 19:47	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 19:47	WG2403269
2,2-Dichloropropane	U	UJ CS	0.0317	0.100	1	11/17/2024 19:47	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 19:47	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 19:47	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 19:47	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 19:47	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 19:47	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 19:47	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 19:47	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 19:47	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 19:47	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 19:47	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 19:47	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 19:47	WG2403269
Naphthalene	U	UJ CS	0.124	0.500	1	11/17/2024 19:47	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 19:47	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 19:47	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 19:47	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 19:47	WG2403269
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 19:47	WG2403269
Tetrachloroethene	38.7	J+ CS	0.0280	0.100	1	11/17/2024 19:47	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 19:47	WG2403269
1,2,3-Trichlorobenzene	U	UJ CS	0.0250	0.500	1	11/17/2024 19:47	WG2403269
1,2,4-Trichlorobenzene	U	UJ CS	0.193	0.500	1	11/17/2024 19:47	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 19:47	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 19:47	WG2403269
Trichloroethene	11.0		0.0160	0.0400	1	11/17/2024 19:47	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 19:47	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 19:47	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 19:47	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 19:47	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 19:47	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 19:47	WG2403269
Vinyl chloride	0.804	J- CS	0.0273	0.100	1	11/17/2024 19:47	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 19:47	WG2403269
(S) Toluene-d8	106			75.0-131		11/17/2024 19:47	WG2403269
(S) 4-Bromofluorobenzene	94.9			67.0-138		11/17/2024 19:47	WG2403269
(S) 1,2-Dichloroethane-d4	91.7			70.0-130		11/17/2024 19:47	WG2403269

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

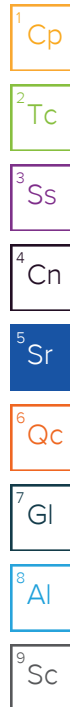
8 Al

9 Sc

JC 1/7/25

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.02		0.548	1.00	1	11/17/2024 20:06	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 20:06	WG2403269
Benzene	U		0.0160	0.0400	1	11/17/2024 20:06	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 20:06	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 20:06	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 20:06	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 20:06	WG2403269
Bromomethane	U	UJ CS	0.148	0.500	1	11/17/2024 20:06	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 20:06	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 20:06	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 20:06	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 20:06	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 20:06	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 20:06	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 20:06	WG2403269
Chloroethane	U	UJ CS	0.0432	0.200	1	11/17/2024 20:06	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 20:06	WG2403269
Chloromethane	U	UJ CS	0.0556	0.500	1	11/17/2024 20:06	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 20:06	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 20:06	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 20:06	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 20:06	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 20:06	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 20:06	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 20:06	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 20:06	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 20:06	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 20:06	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 20:06	WG2403269
1,2-Dichloroethane	U	UJ CS	0.0190	0.100	1	11/17/2024 20:06	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 20:06	WG2403269
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/17/2024 20:06	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 20:06	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 20:06	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 20:06	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 20:06	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 20:06	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 20:06	WG2403269
2,2-Dichloropropane	U	UJ CS	0.0317	0.100	1	11/17/2024 20:06	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 20:06	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 20:06	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 20:06	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 20:06	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 20:06	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 20:06	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 20:06	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 20:06	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 20:06	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 20:06	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 20:06	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 20:06	WG2403269
Naphthalene	U	UJ CS	0.124	0.500	1	11/17/2024 20:06	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 20:06	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 20:06	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 20:06	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 20:06	WG2403269



JC 1/7/25

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 20:06	WG2403269
Tetrachloroethene	0.0290	J	0.0280	0.100	1	11/17/2024 20:06	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 20:06	WG2403269
1,2,3-Trichlorobenzene	U	UJ C3	0.0250	0.500	1	11/17/2024 20:06	WG2403269
1,2,4-Trichlorobenzene	U	UJ C3	0.193	0.500	1	11/17/2024 20:06	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 20:06	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 20:06	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 20:06	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 20:06	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 20:06	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 20:06	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 20:06	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 20:06	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 20:06	WG2403269
Vinyl chloride	U	UJ C3	0.0273	0.100	1	11/17/2024 20:06	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 20:06	WG2403269
(S) Toluene-d8	110			75.0-131		11/17/2024 20:06	WG2403269
(S) 4-Bromofluorobenzene	95.8			67.0-138		11/17/2024 20:06	WG2403269
(S) 1,2-Dichloroethane-d4	92.4			70.0-130		11/17/2024 20:06	WG2403269

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

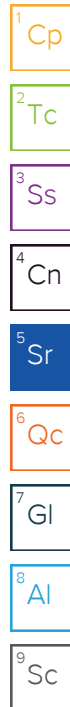
8Al

9Sc

JC 1/7/25

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	0.922	J	0.548	1.00	1	11/17/2024 20:25	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 20:25	WG2403269
Benzene	U		0.0160	0.0400	1	11/17/2024 20:25	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 20:25	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 20:25	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 20:25	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 20:25	WG2403269
Bromomethane	U	UJ CS	0.148	0.500	1	11/17/2024 20:25	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 20:25	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 20:25	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 20:25	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 20:25	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 20:25	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 20:25	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 20:25	WG2403269
Chloroethane	U	UJ CS	0.0432	0.200	1	11/17/2024 20:25	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 20:25	WG2403269
Chloromethane	U	UJ CS	0.0556	0.500	1	11/17/2024 20:25	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 20:25	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 20:25	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 20:25	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 20:25	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 20:25	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 20:25	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 20:25	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 20:25	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 20:25	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 20:25	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 20:25	WG2403269
1,2-Dichloroethane	U	UJ CS	0.0190	0.100	1	11/17/2024 20:25	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 20:25	WG2403269
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/17/2024 20:25	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 20:25	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 20:25	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 20:25	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 20:25	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 20:25	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 20:25	WG2403269
2,2-Dichloropropane	U	UJ CS	0.0317	0.100	1	11/17/2024 20:25	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 20:25	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 20:25	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 20:25	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 20:25	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 20:25	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 20:25	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 20:25	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 20:25	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 20:25	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 20:25	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 20:25	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 20:25	WG2403269
Naphthalene	U	UJ CS	0.124	0.500	1	11/17/2024 20:25	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 20:25	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 20:25	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 20:25	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 20:25	WG2403269



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 20:25	WG2403269
Tetrachloroethene	0.0610	J	0.0280	0.100	1	11/17/2024 20:25	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 20:25	WG2403269
1,2,3-Trichlorobenzene	U	UJ C3	0.0250	0.500	1	11/17/2024 20:25	WG2403269
1,2,4-Trichlorobenzene	U	UJ C3	0.193	0.500	1	11/17/2024 20:25	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 20:25	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 20:25	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 20:25	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 20:25	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 20:25	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 20:25	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 20:25	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 20:25	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 20:25	WG2403269
Vinyl chloride	U	UJ C3	0.0273	0.100	1	11/17/2024 20:25	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 20:25	WG2403269
(S) Toluene-d8	108			75.0-131		11/17/2024 20:25	WG2403269
(S) 4-Bromofluorobenzene	91.5			67.0-138		11/17/2024 20:25	WG2403269
(S) 1,2-Dichloroethane-d4	93.3			70.0-130		11/17/2024 20:25	WG2403269

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

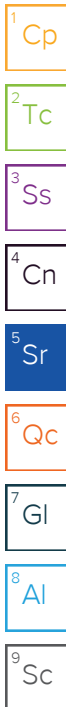
8Al

9Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.65		0.548	1.00	1	11/17/2024 20:44	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 20:44	WG2403269
Benzene	U		0.0160	0.0400	1	11/17/2024 20:44	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 20:44	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 20:44	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 20:44	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 20:44	WG2403269
Bromomethane	U	UJ C3	0.148	0.500	1	11/17/2024 20:44	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 20:44	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 20:44	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 20:44	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 20:44	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 20:44	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 20:44	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 20:44	WG2403269
Chloroethane	U	UJ C3	0.0432	0.200	1	11/17/2024 20:44	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 20:44	WG2403269
Chloromethane	U	UJ C3	0.0556	0.500	1	11/17/2024 20:44	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 20:44	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 20:44	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 20:44	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 20:44	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 20:44	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 20:44	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 20:44	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 20:44	WG2403269
trans-1,4-Dichloro-2-butene	U	I3	0.0560	0.200	1	11/17/2024 20:44	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 20:44	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 20:44	WG2403269
1,2-Dichloroethane	U	UJ C3	0.0190	0.100	1	11/17/2024 20:44	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 20:44	WG2403269
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/17/2024 20:44	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 20:44	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 20:44	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 20:44	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 20:44	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 20:44	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 20:44	WG2403269
2,2-Dichloropropane	U	UJ C3	0.0317	0.100	1	11/17/2024 20:44	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 20:44	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 20:44	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 20:44	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 20:44	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 20:44	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 20:44	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 20:44	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 20:44	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 20:44	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 20:44	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 20:44	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 20:44	WG2403269
Naphthalene	U	UJ C3	0.124	0.500	1	11/17/2024 20:44	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 20:44	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 20:44	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 20:44	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 20:44	WG2403269

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 20:44	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 20:44	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 20:44	WG2403269
1,2,3-Trichlorobenzene	U	UJ 	0.0250	0.500	1	11/17/2024 20:44	WG2403269
1,2,4-Trichlorobenzene	U	UJ 	0.193	0.500	1	11/17/2024 20:44	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 20:44	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 20:44	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 20:44	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 20:44	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 20:44	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 20:44	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 20:44	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 20:44	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 20:44	WG2403269
Vinyl chloride	U	UJ 	0.0273	0.100	1	11/17/2024 20:44	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 20:44	WG2403269
(S) Toluene-d8	110			75.0-131		11/17/2024 20:44	WG2403269
(S) 4-Bromofluorobenzene	94.1			67.0-138		11/17/2024 20:44	WG2403269
(S) 1,2-Dichloroethane-d4	92.6			70.0-130		11/17/2024 20:44	WG2403269

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/25

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.17		0.548	1.00	1	11/17/2024 21:03	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 21:03	WG2403269
Benzene	U		0.0160	0.0400	1	11/17/2024 21:03	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 21:03	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 21:03	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 21:03	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 21:03	WG2403269
Bromomethane	U	UJ CS	0.148	0.500	1	11/17/2024 21:03	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 21:03	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 21:03	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 21:03	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 21:03	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 21:03	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 21:03	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 21:03	WG2403269
Chloroethane	U	UJ CS	0.0432	0.200	1	11/17/2024 21:03	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 21:03	WG2403269
Chloromethane	U	UJ CS	0.0556	0.500	1	11/17/2024 21:03	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 21:03	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 21:03	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 21:03	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 21:03	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 21:03	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 21:03	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 21:03	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 21:03	WG2403269
trans-1,4-Dichloro-2-butene	U	U3	0.0560	0.200	1	11/17/2024 21:03	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 21:03	WG2403269
1,1-Dichloroethane	0.0280	U CS	0.0230	0.100	1	11/17/2024 21:03	WG2403269
1,2-Dichloroethane	U	UJ CS	0.0190	0.100	1	11/17/2024 21:03	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 21:03	WG2403269
cis-1,2-Dichloroethene	1.61		0.0276	0.100	1	11/17/2024 21:03	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 21:03	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 21:03	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 21:03	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 21:03	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 21:03	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 21:03	WG2403269
2,2-Dichloropropane	U	UJ CS	0.0317	0.100	1	11/17/2024 21:03	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 21:03	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 21:03	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 21:03	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 21:03	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 21:03	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 21:03	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 21:03	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 21:03	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 21:03	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 21:03	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 21:03	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 21:03	WG2403269
Naphthalene	U	UJ CS	0.124	0.500	1	11/17/2024 21:03	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 21:03	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 21:03	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 21:03	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 21:03	WG2403269

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 21:03	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 21:03	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 21:03	WG2403269
1,2,3-Trichlorobenzene	U	UJ CS	0.0250	0.500	1	11/17/2024 21:03	WG2403269
1,2,4-Trichlorobenzene	U	UJ CS	0.193	0.500	1	11/17/2024 21:03	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 21:03	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 21:03	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 21:03	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 21:03	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 21:03	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 21:03	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 21:03	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 21:03	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 21:03	WG2403269
Vinyl chloride	U	UJ CS	0.0273	0.100	1	11/17/2024 21:03	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 21:03	WG2403269
(S) Toluene-d8	109			75.0-131		11/17/2024 21:03	WG2403269
(S) 4-Bromofluorobenzene	91.0			67.0-138		11/17/2024 21:03	WG2403269
(S) 1,2-Dichloroethane-d4	92.3			70.0-130		11/17/2024 21:03	WG2403269

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.29		0.548	1.00	1	11/17/2024 21:22	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 21:22	WG2403269
Benzene	0.0330	J	0.0160	0.0400	1	11/17/2024 21:22	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 21:22	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 21:22	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 21:22	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 21:22	WG2403269
Bromomethane	U	UJ C3	0.148	0.500	1	11/17/2024 21:22	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 21:22	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 21:22	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 21:22	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 21:22	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 21:22	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 21:22	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 21:22	WG2403269
Chloroethane	U	UJ C3	0.0432	0.200	1	11/17/2024 21:22	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 21:22	WG2403269
Chloromethane	U	UJ C3	0.0556	0.500	1	11/17/2024 21:22	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 21:22	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 21:22	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 21:22	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 21:22	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 21:22	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 21:22	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 21:22	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 21:22	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 21:22	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 21:22	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 21:22	WG2403269
1,2-Dichloroethane	U	UJ C3	0.0190	0.100	1	11/17/2024 21:22	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 21:22	WG2403269
cis-1,2-Dichloroethene	0.0880	J	0.0276	0.100	1	11/17/2024 21:22	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 21:22	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 21:22	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 21:22	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 21:22	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 21:22	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 21:22	WG2403269
2,2-Dichloropropane	U	UJ C3	0.0317	0.100	1	11/17/2024 21:22	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 21:22	WG2403269
Ethylbenzene	0.234		0.0212	0.100	1	11/17/2024 21:22	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 21:22	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 21:22	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 21:22	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 21:22	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 21:22	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 21:22	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 21:22	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 21:22	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 21:22	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 21:22	WG2403269
Naphthalene	U	UJ C3	0.124	0.500	1	11/17/2024 21:22	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 21:22	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 21:22	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 21:22	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 21:22	WG2403269

JC 1/7/25

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 21:22	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 21:22	WG2403269
Toluene	0.102		0.0500	0.200	1	11/17/2024 21:22	WG2403269
1,2,3-Trichlorobenzene	U	UJ CS	0.0250	0.500	1	11/17/2024 21:22	WG2403269
1,2,4-Trichlorobenzene	U	UJ CS	0.193	0.500	1	11/17/2024 21:22	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 21:22	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 21:22	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 21:22	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 21:22	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 21:22	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 21:22	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 21:22	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 21:22	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 21:22	WG2403269
Vinyl chloride	U	UJ CS	0.0273	0.100	1	11/17/2024 21:22	WG2403269
Xylenes, Total	1.19		0.191	0.260	1	11/17/2024 21:22	WG2403269
(S) Toluene-d8	107			75.0-131		11/17/2024 21:22	WG2403269
(S) 4-Bromofluorobenzene	96.8			67.0-138		11/17/2024 21:22	WG2403269
(S) 1,2-Dichloroethane-d4	94.8			70.0-130		11/17/2024 21:22	WG2403269

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

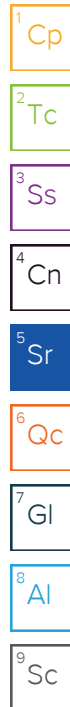
8Al

9Sc

JC 1/7/25

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	0.871	J	0.548	1.00	1	11/17/2024 21:41	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 21:41	WG2403269
Benzene	U		0.0160	0.0400	1	11/17/2024 21:41	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 21:41	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 21:41	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 21:41	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 21:41	WG2403269
Bromomethane	U	UJ CS	0.148	0.500	1	11/17/2024 21:41	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 21:41	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 21:41	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 21:41	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 21:41	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 21:41	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 21:41	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 21:41	WG2403269
Chloroethane	U	UJ CS	0.0432	0.200	1	11/17/2024 21:41	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 21:41	WG2403269
Chloromethane	U	UJ CS	0.0556	0.500	1	11/17/2024 21:41	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 21:41	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 21:41	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 21:41	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 21:41	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 21:41	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 21:41	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 21:41	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 21:41	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 21:41	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 21:41	WG2403269
1,1-Dichloroethane	0.714		0.0230	0.100	1	11/17/2024 21:41	WG2403269
1,2-Dichloroethane	U	UJ CS	0.0190	0.100	1	11/17/2024 21:41	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 21:41	WG2403269
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/17/2024 21:41	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 21:41	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 21:41	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 21:41	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 21:41	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 21:41	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 21:41	WG2403269
2,2-Dichloropropane	U	UJ CS	0.0317	0.100	1	11/17/2024 21:41	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 21:41	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 21:41	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 21:41	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 21:41	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 21:41	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 21:41	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 21:41	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 21:41	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 21:41	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 21:41	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 21:41	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 21:41	WG2403269
Naphthalene	U	UJ CS	0.124	0.500	1	11/17/2024 21:41	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 21:41	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 21:41	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 21:41	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 21:41	WG2403269



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 21:41	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 21:41	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 21:41	WG2403269
1,2,3-Trichlorobenzene	U	UJ CS	0.0250	0.500	1	11/17/2024 21:41	WG2403269
1,2,4-Trichlorobenzene	U	UJ CS	0.193	0.500	1	11/17/2024 21:41	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 21:41	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 21:41	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 21:41	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 21:41	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 21:41	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 21:41	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 21:41	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 21:41	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 21:41	WG2403269
Vinyl chloride	U	UJ CS	0.0273	0.100	1	11/17/2024 21:41	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 21:41	WG2403269
(S) Toluene-d8	112			75.0-131		11/17/2024 21:41	WG2403269
(S) 4-Bromofluorobenzene	91.9			67.0-138		11/17/2024 21:41	WG2403269
(S) 1,2-Dichloroethane-d4	94.2			70.0-130		11/17/2024 21:41	WG2403269

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

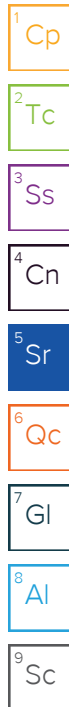
9Sc

JC 1/7/25

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	0.927	J	0.548	1.00	1	11/17/2024 22:00	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 22:00	WG2403269
Benzene	U		0.0160	0.0400	1	11/17/2024 22:00	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 22:00	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 22:00	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 22:00	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 22:00	WG2403269
Bromomethane	U	UJ C3	0.148	0.500	1	11/17/2024 22:00	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 22:00	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 22:00	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 22:00	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 22:00	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 22:00	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 22:00	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 22:00	WG2403269
Chloroethane	U	UJ C3	0.0432	0.200	1	11/17/2024 22:00	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 22:00	WG2403269
Chloromethane	U	UJ C3	0.0556	0.500	1	11/17/2024 22:00	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 22:00	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 22:00	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 22:00	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 22:00	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 22:00	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 22:00	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 22:00	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 22:00	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 22:00	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 22:00	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 22:00	WG2403269
1,2-Dichloroethane	U	UJ C3	0.0190	0.100	1	11/17/2024 22:00	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 22:00	WG2403269
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/17/2024 22:00	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 22:00	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 22:00	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 22:00	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 22:00	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 22:00	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 22:00	WG2403269
2,2-Dichloropropane	U	UJ C3	0.0317	0.100	1	11/17/2024 22:00	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 22:00	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 22:00	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 22:00	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 22:00	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 22:00	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 22:00	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 22:00	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 22:00	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 22:00	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 22:00	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 22:00	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 22:00	WG2403269
Naphthalene	U	UJ C3	0.124	0.500	1	11/17/2024 22:00	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 22:00	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 22:00	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 22:00	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 22:00	WG2403269

JC 1/7/25



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 22:00	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 22:00	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 22:00	WG2403269
1,2,3-Trichlorobenzene	U	UJ CS	0.0250	0.500	1	11/17/2024 22:00	WG2403269
1,2,4-Trichlorobenzene	U	UJ CS	0.193	0.500	1	11/17/2024 22:00	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 22:00	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 22:00	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 22:00	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 22:00	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 22:00	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 22:00	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 22:00	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 22:00	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 22:00	WG2403269
Vinyl chloride	U	UJ CS	0.0273	0.100	1	11/17/2024 22:00	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 22:00	WG2403269
(S) Toluene-d8	105			75.0-131		11/17/2024 22:00	WG2403269
(S) 4-Bromofluorobenzene	95.0			67.0-138		11/17/2024 22:00	WG2403269
(S) 1,2-Dichloroethane-d4	94.3			70.0-130		11/17/2024 22:00	WG2403269

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/25

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.65		0.548	1.00	1	11/17/2024 22:20	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 22:20	WG2403269
Benzene	2.13		0.0160	0.0400	1	11/17/2024 22:20	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 22:20	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 22:20	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 22:20	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 22:20	WG2403269
Bromomethane	U	UJ CS	0.148	0.500	1	11/17/2024 22:20	WG2403269
n-Butylbenzene	1.37		0.153	0.500	1	11/17/2024 22:20	WG2403269
sec-Butylbenzene	5.95		0.101	0.500	1	11/17/2024 22:20	WG2403269
tert-Butylbenzene	0.211		0.0620	0.200	1	11/17/2024 22:20	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 22:20	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 22:20	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 22:20	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 22:20	WG2403269
Chloroethane	U	UJ CS	0.0432	0.200	1	11/17/2024 22:20	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 22:20	WG2403269
Chloromethane	U	UJ CS	0.0556	0.500	1	11/17/2024 22:20	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 22:20	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 22:20	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 22:20	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 22:20	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 22:20	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 22:20	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 22:20	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 22:20	WG2403269
trans-1,4-Dichloro-2-butene	U	CS	0.0560	0.200	1	11/17/2024 22:20	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 22:20	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 22:20	WG2403269
1,2-Dichloroethane	0.165	J- CS	0.0190	0.100	1	11/17/2024 22:20	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 22:20	WG2403269
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/17/2024 22:20	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 22:20	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 22:20	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 22:20	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 22:20	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 22:20	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 22:20	WG2403269
2,2-Dichloropropane	U	UJ CS	0.0317	0.100	1	11/17/2024 22:20	WG2403269
Di-isopropyl ether	0.0290	J- CS	0.0140	0.0400	1	11/17/2024 22:20	WG2403269
Ethylbenzene	0.136		0.0212	0.100	1	11/17/2024 22:20	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 22:20	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 22:20	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 22:20	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 22:20	WG2403269
Isopropylbenzene	6.54		0.0345	0.100	1	11/17/2024 22:20	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 22:20	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 22:20	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 22:20	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 22:20	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 22:20	WG2403269
Naphthalene	0.643	J- CS	0.124	0.500	1	11/17/2024 22:20	WG2403269
n-Propylbenzene	12.4		0.0472	0.200	1	11/17/2024 22:20	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 22:20	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 22:20	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 22:20	WG2403269

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/25

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 22:20	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 22:20	WG2403269
Toluene	0.203		0.0500	0.200	1	11/17/2024 22:20	WG2403269
1,2,3-Trichlorobenzene	U	UJ CS	0.0250	0.500	1	11/17/2024 22:20	WG2403269
1,2,4-Trichlorobenzene	U	UJ CS	0.193	0.500	1	11/17/2024 22:20	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 22:20	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 22:20	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 22:20	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 22:20	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 22:20	WG2403269
1,2,4-Trimethylbenzene	0.188	U	0.0464	0.200	1	11/17/2024 22:20	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 22:20	WG2403269
1,3,5-Trimethylbenzene	0.0560	U	0.0432	0.200	1	11/17/2024 22:20	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 22:20	WG2403269
Vinyl chloride	U	UJ CS	0.0273	0.100	1	11/17/2024 22:20	WG2403269
Xylenes, Total	0.813		0.191	0.260	1	11/17/2024 22:20	WG2403269
(S) Toluene-d8	106			75.0-131		11/17/2024 22:20	WG2403269
(S) 4-Bromofluorobenzene	97.2			67.0-138		11/17/2024 22:20	WG2403269
(S) 1,2-Dichloroethane-d4	91.9			70.0-130		11/17/2024 22:20	WG2403269

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	0.919	J	0.548	1.00	1	11/17/2024 22:39	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 22:39	WG2403269
Benzene	0.187		0.0160	0.0400	1	11/17/2024 22:39	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 22:39	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 22:39	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 22:39	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 22:39	WG2403269
Bromomethane	U	UJ CS	0.148	0.500	1	11/17/2024 22:39	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 22:39	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 22:39	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 22:39	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 22:39	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 22:39	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 22:39	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 22:39	WG2403269
Chloroethane	U	UJ CS	0.0432	0.200	1	11/17/2024 22:39	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 22:39	WG2403269
Chloromethane	U	UJ CS	0.0556	0.500	1	11/17/2024 22:39	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 22:39	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 22:39	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 22:39	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 22:39	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 22:39	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 22:39	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 22:39	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 22:39	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 22:39	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 22:39	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 22:39	WG2403269
1,2-Dichloroethane	U	UJ CS	0.0190	0.100	1	11/17/2024 22:39	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 22:39	WG2403269
cis-1,2-Dichloroethene	0.111		0.0276	0.100	1	11/17/2024 22:39	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 22:39	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 22:39	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 22:39	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 22:39	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 22:39	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 22:39	WG2403269
2,2-Dichloropropane	U	UJ CS	0.0317	0.100	1	11/17/2024 22:39	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 22:39	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 22:39	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 22:39	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 22:39	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 22:39	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 22:39	WG2403269
Isopropylbenzene	0.141		0.0345	0.100	1	11/17/2024 22:39	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 22:39	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 22:39	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 22:39	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 22:39	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 22:39	WG2403269
Naphthalene	U	UJ CS	0.124	0.500	1	11/17/2024 22:39	WG2403269
n-Propylbenzene	0.0670	J	0.0472	0.200	1	11/17/2024 22:39	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 22:39	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 22:39	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 22:39	WG2403269

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/25

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 22:39	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 22:39	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 22:39	WG2403269
1,2,3-Trichlorobenzene	U	UJ CS	0.0250	0.500	1	11/17/2024 22:39	WG2403269
1,2,4-Trichlorobenzene	U	UJ CS	0.193	0.500	1	11/17/2024 22:39	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 22:39	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 22:39	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 22:39	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 22:39	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 22:39	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 22:39	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 22:39	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 22:39	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 22:39	WG2403269
Vinyl chloride	8.77	J- CS	0.0273	0.100	1	11/17/2024 22:39	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 22:39	WG2403269
(S) Toluene-d8	110			75.0-131		11/17/2024 22:39	WG2403269
(S) 4-Bromofluorobenzene	94.6			67.0-138		11/17/2024 22:39	WG2403269
(S) 1,2-Dichloroethane-d4	92.6			70.0-130		11/17/2024 22:39	WG2403269

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

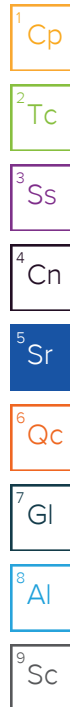
8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.13		0.548	1.00	1	11/17/2024 22:58	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 22:58	WG2403269
Benzene	7.30		0.0160	0.0400	1	11/17/2024 22:58	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 22:58	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 22:58	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 22:58	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 22:58	WG2403269
Bromomethane	U	UJ C3	0.148	0.500	1	11/17/2024 22:58	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 22:58	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 22:58	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 22:58	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 22:58	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 22:58	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 22:58	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 22:58	WG2403269
Chloroethane	U	UJ C3	0.0432	0.200	1	11/17/2024 22:58	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 22:58	WG2403269
Chloromethane	U	UJ C3	0.0556	0.500	1	11/17/2024 22:58	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 22:58	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 22:58	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 22:58	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 22:58	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 22:58	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 22:58	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 22:58	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 22:58	WG2403269
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/17/2024 22:58	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 22:58	WG2403269
1,1-Dichloroethane	0.0960	J C3	0.0230	0.100	1	11/17/2024 22:58	WG2403269
1,2-Dichloroethane	0.0950	J C3	0.0190	0.100	1	11/17/2024 22:58	WG2403269
1,1-Dichloroethene	0.126		0.0200	0.100	1	11/17/2024 22:58	WG2403269
cis-1,2-Dichloroethene	55.4		0.0276	0.100	1	11/17/2024 22:58	WG2403269
trans-1,2-Dichloroethene	1.11		0.0572	0.200	1	11/17/2024 22:58	WG2403269
1,2-Dichloropropane	0.0720	J	0.0508	0.200	1	11/17/2024 22:58	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 22:58	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 22:58	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 22:58	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 22:58	WG2403269
2,2-Dichloropropane	U	UJ C3	0.0317	0.100	1	11/17/2024 22:58	WG2403269
Di-isopropyl ether	0.0460		0.0140	0.0400	1	11/17/2024 22:58	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 22:58	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 22:58	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 22:58	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 22:58	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 22:58	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 22:58	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 22:58	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 22:58	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 22:58	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 22:58	WG2403269
Methyl tert-butyl ether	0.0130	J	0.0118	0.0400	1	11/17/2024 22:58	WG2403269
Naphthalene	U	UJ C3	0.124	0.500	1	11/17/2024 22:58	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 22:58	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 22:58	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 22:58	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 22:58	WG2403269

JC 1/7/25



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 22:58	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 22:58	WG2403269
Toluene	0.101		0.0500	0.200	1	11/17/2024 22:58	WG2403269
1,2,3-Trichlorobenzene	U	UJ CS	0.0250	0.500	1	11/17/2024 22:58	WG2403269
1,2,4-Trichlorobenzene	U	UJ CS	0.193	0.500	1	11/17/2024 22:58	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 22:58	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 22:58	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 22:58	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 22:58	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 22:58	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 22:58	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 22:58	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 22:58	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 22:58	WG2403269
Vinyl chloride	20.5	J- CS	0.0273	0.100	1	11/17/2024 22:58	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 22:58	WG2403269
(S) Toluene-d8	110			75.0-131		11/17/2024 22:58	WG2403269
(S) 4-Bromofluorobenzene	91.6			67.0-138		11/17/2024 22:58	WG2403269
(S) 1,2-Dichloroethane-d4	90.6			70.0-130		11/17/2024 22:58	WG2403269

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/25

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Alkalinity	639000		4750	20000	1	11/13/2024 12:12	WG2400690

Sample Narrative:
L1798511-12 WG2400690: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Chloride	97200		547	1000	1	11/12/2024 22:03	WG2400159
Nitrate as (N)	U		88.4	100	1	11/12/2024 22:03	WG2400159
Sulfate	U		637	5000	1	11/12/2024 22:03	WG2400159

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
TOC (Total Organic Carbon)	34000		495	1000	1	11/15/2024 21:36	WG2401895

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Iron	13800		113	500	5	11/19/2024 14:47	WG2401735
Manganese	1610		3.50	25.0	5	11/19/2024 14:47	WG2401735

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Methane	29100		2.87	6.78	10	11/14/2024 15:27	WG2401848
Ethane	410		0.296	1.29	1	11/14/2024 13:15	WG2400515
Ethene	2860		0.422	1.27	1	11/14/2024 13:15	WG2400515

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Acetone	2.12		0.548	1.00	1	11/17/2024 23:17	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 23:17	WG2403269
Benzene	0.243		0.0160	0.0400	1	11/17/2024 23:17	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 23:17	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 23:17	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 23:17	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 23:17	WG2403269
Bromomethane	U	UJ 	0.148	0.500	1	11/17/2024 23:17	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 23:17	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 23:17	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 23:17	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 23:17	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 23:17	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 23:17	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 23:17	WG2403269
Chloroethane	U	UJ 	0.0432	0.200	1	11/17/2024 23:17	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 23:17	WG2403269
Chloromethane	U	UJ 	0.0556	0.500	1	11/17/2024 23:17	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 23:17	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 23:17	WG2403269

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/25

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 23:17	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 23:17	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 23:17	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 23:17	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 23:17	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 23:17	WG2403269
trans-1,4-Dichloro-2-butene	U	U3	0.0560	0.200	1	11/17/2024 23:17	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 23:17	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 23:17	WG2403269
1,2-Dichloroethane	U	UJ CS	0.0190	0.100	1	11/17/2024 23:17	WG2403269
1,1-Dichloroethene	8.60		0.0200	0.100	1	11/17/2024 23:17	WG2403269
cis-1,2-Dichloroethene	5270		6.90	25.0	250	11/24/2024 15:59	WG2407254
trans-1,2-Dichloroethene	9.68		0.0572	0.200	1	11/17/2024 23:17	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 23:17	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 23:17	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 23:17	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 23:17	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 23:17	WG2403269
2,2-Dichloropropane	U	UJ CS	0.0317	0.100	1	11/17/2024 23:17	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 23:17	WG2403269
Ethylbenzene	0.0800	U	0.0212	0.100	1	11/17/2024 23:17	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 23:17	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 23:17	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 23:17	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 23:17	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 23:17	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 23:17	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 23:17	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 23:17	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 23:17	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 23:17	WG2403269
Naphthalene	U	UJ CS	0.124	0.500	1	11/17/2024 23:17	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 23:17	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 23:17	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 23:17	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 23:17	WG2403269
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 23:17	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 23:17	WG2403269
Toluene	0.265		0.0500	0.200	1	11/17/2024 23:17	WG2403269
1,2,3-Trichlorobenzene	U	UJ CS	0.0250	0.500	1	11/17/2024 23:17	WG2403269
1,2,4-Trichlorobenzene	U	UJ CS	0.193	0.500	1	11/17/2024 23:17	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 23:17	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 23:17	WG2403269
Trichloroethene	0.0960		0.0160	0.0400	1	11/17/2024 23:17	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 23:17	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 23:17	WG2403269
1,2,4-Trimethylbenzene	0.0930	U	0.0464	0.200	1	11/17/2024 23:17	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 23:17	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 23:17	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 23:17	WG2403269
Vinyl chloride	10300		6.82	25.0	250	11/24/2024 15:59	WG2407254
Xylenes, Total	0.419		0.191	0.260	1	11/17/2024 23:17	WG2403269
(S) Toluene-d8	110			75.0-131		11/17/2024 23:17	WG2403269
(S) Toluene-d8	103			75.0-131		11/24/2024 15:59	WG2407254
(S) 4-Bromofluorobenzene	93.6			67.0-138		11/17/2024 23:17	WG2403269
(S) 4-Bromofluorobenzene	93.5			67.0-138		11/24/2024 15:59	WG2407254

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/25

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	91.3			70.0-130		11/17/2024 23:17	WG2403269
(S) 1,2-Dichloroethane-d4	99.6			70.0-130		11/24/2024 15:59	WG2407254

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/25

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	207000		4750	20000	1	11/13/2024 12:16	WG2400690

Sample Narrative:
L1798511-13 WG2400690: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	22000		547	1000	1	11/12/2024 22:16	WG2400159
Nitrate as (N)	U		88.4	100	1	11/12/2024 22:16	WG2400159
Sulfate	7500		637	5000	1	11/12/2024 22:16	WG2400159

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3800		495	1000	1	11/15/2024 21:51	WG2401895

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	543		22.6	100	1	11/19/2024 14:50	WG2401735
Manganese	668		0.700	5.00	1	11/19/2024 14:50	WG2401735

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	3800		0.287	0.678	1	11/14/2024 13:27	WG2400515
Ethane	4.35		0.296	1.29	1	11/14/2024 13:27	WG2400515
Ethene	99.7		0.422	1.27	1	11/14/2024 13:27	WG2400515

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	0.865	J	0.548	1.00	1	11/17/2024 23:36	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 23:36	WG2403269
Benzene	U		0.0160	0.0400	1	11/17/2024 23:36	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 23:36	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 23:36	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 23:36	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 23:36	WG2403269
Bromomethane	U	UJ CS	0.148	0.500	1	11/17/2024 23:36	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 23:36	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 23:36	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 23:36	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 23:36	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 23:36	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 23:36	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 23:36	WG2403269
Chloroethane	0.440	J- CS	0.0432	0.200	1	11/17/2024 23:36	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 23:36	WG2403269
Chloromethane	U	UJ CS	0.0556	0.500	1	11/17/2024 23:36	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 23:36	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 23:36	WG2403269

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

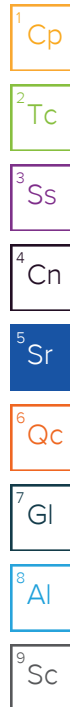
8Al

9Sc

JC 1/7/25

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 23:36	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 23:36	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 23:36	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 23:36	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 23:36	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 23:36	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 23:36	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 23:36	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 23:36	WG2403269
1,2-Dichloroethane	U	UJ CS	0.0190	0.100	1	11/17/2024 23:36	WG2403269
1,1-Dichloroethene	1.70		0.0200	0.100	1	11/17/2024 23:36	WG2403269
cis-1,2-Dichloroethene	40.1		0.0276	0.100	1	11/24/2024 15:40	WG2407254
trans-1,2-Dichloroethene	0.491		0.0572	0.200	1	11/17/2024 23:36	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 23:36	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 23:36	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 23:36	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 23:36	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 23:36	WG2403269
2,2-Dichloropropane	U	UJ CS	0.0317	0.100	1	11/17/2024 23:36	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 23:36	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 23:36	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 23:36	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 23:36	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 23:36	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 23:36	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 23:36	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 23:36	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 23:36	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 23:36	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 23:36	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 23:36	WG2403269
Naphthalene	U	UJ CS	0.124	0.500	1	11/17/2024 23:36	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 23:36	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 23:36	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 23:36	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 23:36	WG2403269
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 23:36	WG2403269
Tetrachloroethene	49.6	J+ CS	0.0280	0.100	1	11/17/2024 23:36	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 23:36	WG2403269
1,2,3-Trichlorobenzene	U	UJ CS	0.0250	0.500	1	11/17/2024 23:36	WG2403269
1,2,4-Trichlorobenzene	U	UJ CS	0.193	0.500	1	11/17/2024 23:36	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 23:36	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 23:36	WG2403269
Trichloroethene	56.1		0.0160	0.0400	1	11/17/2024 23:36	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 23:36	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 23:36	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 23:36	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 23:36	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 23:36	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 23:36	WG2403269
Vinyl chloride	75.1		0.0273	0.100	1	11/24/2024 15:40	WG2407254
Xylenes, Total	U		0.191	0.260	1	11/17/2024 23:36	WG2403269
(S) Toluene-d8	109			75.0-131		11/17/2024 23:36	WG2403269
(S) Toluene-d8	113			75.0-131		11/24/2024 15:40	WG2407254
(S) 4-Bromofluorobenzene	90.1			67.0-138		11/17/2024 23:36	WG2403269
(S) 4-Bromofluorobenzene	103			67.0-138		11/24/2024 15:40	WG2407254



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	93.5			70.0-130		11/17/2024 23:36	WG2403269
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/24/2024 15:40	WG2407254

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

JC 1/7/25

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	622000		4750	20000	1	11/13/2024 12:21	WG2400690

Sample Narrative:

L1798511-14 WG2400690: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	84100		547	1000	1	11/12/2024 22:30	WG2400159
Nitrate as (N)	U		88.4	100	1	11/12/2024 22:30	WG2400159
Sulfate	15300		637	5000	1	11/12/2024 22:30	WG2400159

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	14200		495	1000	1	11/15/2024 22:08	WG2401895

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3260		22.6	100	1	11/19/2024 14:53	WG2401735
Manganese	1550		0.700	5.00	1	11/19/2024 14:53	WG2401735

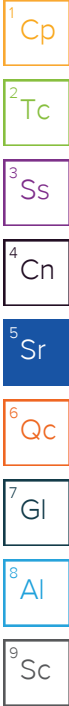
Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	32200		2.87	6.78	10	11/14/2024 15:32	WG2401848
Ethane	4.92		0.296	1.29	1	11/14/2024 13:32	WG2400515
Ethene	419		0.422	1.27	1	11/14/2024 13:32	WG2400515

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	0.756	J	0.548	1.00	1	11/17/2024 23:56	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 23:56	WG2403269
Benzene	U		0.0160	0.0400	1	11/17/2024 23:56	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 23:56	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 23:56	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 23:56	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 23:56	WG2403269
Bromomethane	U	UJ CS	0.148	0.500	1	11/17/2024 23:56	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 23:56	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 23:56	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 23:56	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 23:56	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 23:56	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 23:56	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 23:56	WG2403269
Chloroethane	U	UJ CS	0.0432	0.200	1	11/17/2024 23:56	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 23:56	WG2403269
Chloromethane	U	UJ CS	0.0556	0.500	1	11/17/2024 23:56	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 23:56	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 23:56	WG2403269

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 23:56	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 23:56	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 23:56	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 23:56	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 23:56	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 23:56	WG2403269
trans-1,4-Dichloro-2-butene	U	UJ	0.0560	0.200	1	11/17/2024 23:56	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 23:56	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 23:56	WG2403269
1,2-Dichloroethane	U	UJ UJ	0.0190	0.100	1	11/17/2024 23:56	WG2403269
1,1-Dichloroethene	0.822		0.0200	0.100	1	11/17/2024 23:56	WG2403269
cis-1,2-Dichloroethene	279		0.690	2.50	25	11/24/2024 16:18	WG2407254
trans-1,2-Dichloroethene	1.38		0.0572	0.200	1	11/17/2024 23:56	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 23:56	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 23:56	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 23:56	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 23:56	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 23:56	WG2403269
2,2-Dichloropropane	U	UJ UJ	0.0317	0.100	1	11/17/2024 23:56	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 23:56	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 23:56	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 23:56	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 23:56	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 23:56	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 23:56	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 23:56	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 23:56	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 23:56	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 23:56	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 23:56	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 23:56	WG2403269
Naphthalene	U	UJ UJ	0.124	0.500	1	11/17/2024 23:56	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 23:56	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 23:56	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 23:56	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 23:56	WG2403269
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 23:56	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 23:56	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 23:56	WG2403269
1,2,3-Trichlorobenzene	U	UJ UJ	0.0250	0.500	1	11/17/2024 23:56	WG2403269
1,2,4-Trichlorobenzene	U	UJ UJ	0.193	0.500	1	11/17/2024 23:56	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 23:56	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 23:56	WG2403269
Trichloroethene	0.0290	UJ	0.0160	0.0400	1	11/17/2024 23:56	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 23:56	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 23:56	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 23:56	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 23:56	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 23:56	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 23:56	WG2403269
Vinyl chloride	1500		0.682	2.50	25	11/24/2024 16:18	WG2407254
Xylenes, Total	U		0.191	0.260	1	11/17/2024 23:56	WG2403269
(S) Toluene-d8	108			75.0-131		11/17/2024 23:56	WG2403269
(S) Toluene-d8	104			75.0-131		11/24/2024 16:18	WG2407254
(S) 4-Bromofluorobenzene	94.5			67.0-138		11/17/2024 23:56	WG2403269
(S) 4-Bromofluorobenzene	96.6			67.0-138		11/24/2024 16:18	WG2407254

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	90.4			70.0-130		11/17/2024 23:56	WG2403269
(S) 1,2-Dichloroethane-d4	99.2			70.0-130		11/24/2024 16:18	WG2407254

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

JC 1/7/25

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	517000		4750	20000	1	11/14/2024 11:04	WG2401465

Sample Narrative:
L1799093-01 WG2401465: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	24300		547	1000	1	11/14/2024 07:53	WG2401053
Nitrate as (N)	U		88.4	100	1	11/14/2024 07:53	WG2401053
Sulfate	16900		637	5000	1	11/19/2024 17:59	WG2401053

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7740		495	1000	1	11/17/2024 05:22	WG2403031

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	12500		22.6	100	1	11/21/2024 15:53	WG2404347
Manganese	1500		0.700	5.00	1	11/21/2024 15:53	WG2404347

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	6320		2.87	6.78	10	11/17/2024 21:05	WG2403424
Ethane	47.1		0.296	1.29	1	11/17/2024 16:25	WG2401584
Ethene	16.5	J	0.422	1.27	1	11/17/2024 16:25	WG2401584

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	21.1	J+ B-C5	11.0	20.0	20	11/17/2024 23:09	WG2403355
Acrylonitrile	U	J4	1.52	10.0	20	11/17/2024 23:09	WG2403355
Benzene	2.34		0.320	0.800	20	11/17/2024 23:09	WG2403355
Bromobenzene	U		0.840	10.0	20	11/17/2024 23:09	WG2403355
Bromochloromethane	U		0.904	4.00	20	11/17/2024 23:09	WG2403355
Bromodichloromethane	U		0.630	2.00	20	11/17/2024 23:09	WG2403355
Bromoform	U		4.78	20.0	20	11/17/2024 23:09	WG2403355
Bromomethane	U		2.96	10.0	20	11/17/2024 23:09	WG2403355
n-Butylbenzene	U		3.06	10.0	20	11/17/2024 23:09	WG2403355
sec-Butylbenzene	U		2.02	10.0	20	11/17/2024 23:09	WG2403355
tert-Butylbenzene	U		1.24	4.00	20	11/17/2024 23:09	WG2403355
Carbon disulfide	U		3.24	10.0	20	11/17/2024 23:09	WG2403355
Carbon tetrachloride	U		0.864	4.00	20	11/17/2024 23:09	WG2403355
Chlorobenzene	U		0.458	2.00	20	11/17/2024 23:09	WG2403355
Chlorodibromomethane	U		0.360	2.00	20	11/17/2024 23:09	WG2403355
Chloroethane	U		0.864	4.00	20	11/17/2024 23:09	WG2403355
Chloroform	U		0.332	2.00	20	11/17/2024 23:09	WG2403355
Chloromethane	U	UJ B-C	1.11	10.0	20	11/17/2024 23:09	WG2403355
2-Chlorotoluene	U		0.736	2.00	20	11/17/2024 23:09	WG2403355
4-Chlorotoluene	U		0.904	4.00	20	11/17/2024 23:09	WG2403355

JC 1/7/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

MW108-111224

SAMPLE RESULTS - 01

Collected date/time: 11/12/24 12:50

L1799093

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		4.08	20.0	20	11/17/2024 23:09	WG2403355
1,2-Dibromoethane	U		0.420	2.00	20	11/17/2024 23:09	WG2403355
Dibromomethane	U		0.800	4.00	20	11/17/2024 23:09	WG2403355
1,2-Dichlorobenzene	U		1.16	4.00	20	11/17/2024 23:09	WG2403355
1,3-Dichlorobenzene	U		1.36	4.00	20	11/17/2024 23:09	WG2403355
1,4-Dichlorobenzene	U		1.58	4.00	20	11/17/2024 23:09	WG2403355
trans-1,4-Dichloro-2-butene	U		1.12	4.00	20	11/17/2024 23:09	WG2403355
Dichlorodifluoromethane	U		0.654	4.00	20	11/17/2024 23:09	WG2403355
1,1-Dichloroethane	U		0.460	2.00	20	11/17/2024 23:09	WG2403355
1,2-Dichloroethane	U		0.380	2.00	20	11/17/2024 23:09	WG2403355
1,1-Dichloroethene	1.06	U	0.400	2.00	20	11/17/2024 23:09	WG2403355
cis-1,2-Dichloroethene	507		0.552	2.00	20	11/17/2024 23:09	WG2403355
trans-1,2-Dichloroethene	2.32	U	1.14	4.00	20	11/17/2024 23:09	WG2403355
1,2-Dichloropropane	U		1.02	4.00	20	11/17/2024 23:09	WG2403355
1,1-Dichloropropene	U		0.560	2.00	20	11/17/2024 23:09	WG2403355
1,3-Dichloropropane	U		1.40	4.00	20	11/17/2024 23:09	WG2403355
cis-1,3-Dichloropropene	U		0.542	2.00	20	11/17/2024 23:09	WG2403355
trans-1,3-Dichloropropene	U		1.22	4.00	20	11/17/2024 23:09	WG2403355
2,2-Dichloropropane	U	J4	0.634	2.00	20	11/17/2024 23:09	WG2403355
Di-isopropyl ether	U		0.280	0.800	20	11/17/2024 23:09	WG2403355
Ethylbenzene	U		0.424	2.00	20	11/17/2024 23:09	WG2403355
Hexachloro-1,3-butadiene	U		10.2	20.0	20	11/17/2024 23:09	WG2403355
2-Hexanone	U		8.00	20.0	20	11/17/2024 23:09	WG2403355
n-Hexane	U		0.848	4.00	20	11/17/2024 23:09	WG2403355
Iodomethane	U		4.84	10.0	20	11/17/2024 23:09	WG2403355
Isopropylbenzene	U		0.690	2.00	20	11/17/2024 23:09	WG2403355
p-Isopropyltoluene	U		1.86	4.00	20	11/17/2024 23:09	WG2403355
2-Butanone (MEK)	U		10.0	20.0	20	11/17/2024 23:09	WG2403355
Methylene Chloride	U		5.30	20.0	20	11/17/2024 23:09	WG2403355
4-Methyl-2-pentanone (MIBK)	U		8.00	20.0	20	11/17/2024 23:09	WG2403355
Methyl tert-butyl ether	U		0.236	0.800	20	11/17/2024 23:09	WG2403355
Naphthalene	U		2.48	10.0	20	11/17/2024 23:09	WG2403355
n-Propylbenzene	U		0.944	4.00	20	11/17/2024 23:09	WG2403355
Styrene	U		2.18	10.0	20	11/17/2024 23:09	WG2403355
1,1,1,2-Tetrachloroethane	U		0.400	2.00	20	11/17/2024 23:09	WG2403355
1,1,2,2-Tetrachloroethane	U		0.312	2.00	20	11/17/2024 23:09	WG2403355
1,1,2-Trichlorotrifluoroethane	U		0.540	2.00	20	11/17/2024 23:09	WG2403355
Tetrachloroethene	37.9		0.560	2.00	20	11/17/2024 23:09	WG2403355
Toluene	U		1.00	4.00	20	11/17/2024 23:09	WG2403355
1,2,3-Trichlorobenzene	U		0.500	10.0	20	11/17/2024 23:09	WG2403355
1,2,4-Trichlorobenzene	U		3.86	10.0	20	11/17/2024 23:09	WG2403355
1,1,1-Trichloroethane	U		0.220	2.00	20	11/17/2024 23:09	WG2403355
1,1,2-Trichloroethane	U		0.706	2.00	20	11/17/2024 23:09	WG2403355
Trichloroethene	18.0		0.320	0.800	20	11/17/2024 23:09	WG2403355
Trichlorofluoromethane	U		0.400	2.00	20	11/17/2024 23:09	WG2403355
1,2,3-Trichloropropane	U		4.08	10.0	20	11/17/2024 23:09	WG2403355
1,2,4-Trimethylbenzene	U		0.928	4.00	20	11/17/2024 23:09	WG2403355
1,2,3-Trimethylbenzene	U		0.920	4.00	20	11/17/2024 23:09	WG2403355
1,3,5-Trimethylbenzene	U		0.864	4.00	20	11/17/2024 23:09	WG2403355
Vinyl acetate	U		2.82	10.0	20	11/17/2024 23:09	WG2403355
Vinyl chloride	133		0.546	2.00	20	11/17/2024 23:09	WG2403355
Xylenes, Total	U		3.82	5.20	20	11/17/2024 23:09	WG2403355
(S) Toluene-d8	108			75.0-131		11/17/2024 23:09	WG2403355
(S) 4-Bromofluorobenzene	93.2			67.0-138		11/17/2024 23:09	WG2403355
(S) 1,2-Dichloroethane-d4	93.3			70.0-130		11/17/2024 23:09	WG2403355

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/2025

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413001.10.701.02

SDG:

L1799093

DATE/TIME:

12/13/24 15:29

PAGE:

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Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	514000		4750	20000	1	11/14/2024 11:08	WG2401465

Sample Narrative:
L1799093-02 WG2401465: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	25500		547	1000	1	11/14/2024 08:07	WG2401053
Nitrate as (N)	U		88.4	100	1	11/14/2024 08:07	WG2401053
Sulfate	17500		637	5000	1	11/19/2024 18:17	WG2401053

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6250		495	1000	1	11/17/2024 05:46	WG2403031

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	12400		22.6	100	1	11/21/2024 15:56	WG2404347
Manganese	1480		0.700	5.00	1	11/21/2024 15:56	WG2404347

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	6400		0.287	0.678	1	11/17/2024 16:32	WG2401584
Ethane	50.2		0.296	1.29	1	11/17/2024 16:32	WG2401584
Ethene	24.0	J	0.422	1.27	1	11/17/2024 16:32	WG2401584

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/17/2024 19:20	WG2403355
Acrylonitrile	U	J4	0.0760	0.500	1	11/17/2024 19:20	WG2403355
Benzene	2.58		0.0160	0.0400	1	11/17/2024 19:20	WG2403355
Bromobenzene	U		0.0420	0.500	1	11/17/2024 19:20	WG2403355
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 19:20	WG2403355
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 19:20	WG2403355
Bromoform	U		0.239	1.00	1	11/17/2024 19:20	WG2403355
Bromomethane	U		0.148	0.500	1	11/17/2024 19:20	WG2403355
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 19:20	WG2403355
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 19:20	WG2403355
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 19:20	WG2403355
Carbon disulfide	U		0.162	0.500	1	11/17/2024 19:20	WG2403355
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 19:20	WG2403355
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 19:20	WG2403355
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 19:20	WG2403355
Chloroethane	U		0.0432	0.200	1	11/17/2024 19:20	WG2403355
Chloroform	0.0690	U J4	0.0166	0.100	1	11/17/2024 19:20	WG2403355
Chloromethane	U	UJ CS	0.0556	0.500	1	11/17/2024 19:20	WG2403355
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 19:20	WG2403355
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 19:20	WG2403355

JC 1/7/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 19:20	WG2403355
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 19:20	WG2403355
Dibromomethane	U		0.0400	0.200	1	11/17/2024 19:20	WG2403355
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 19:20	WG2403355
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 19:20	WG2403355
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 19:20	WG2403355
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/17/2024 19:20	WG2403355
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 19:20	WG2403355
1,1-Dichloroethane	0.0500	I	0.0230	0.100	1	11/17/2024 19:20	WG2403355
1,2-Dichloroethane	U		0.0190	0.100	1	11/17/2024 19:20	WG2403355
1,1-Dichloroethene	1.04		0.0200	0.100	1	11/17/2024 19:20	WG2403355
cis-1,2-Dichloroethene	565		0.552	2.00	20	11/25/2024 17:28	WG2406168
trans-1,2-Dichloroethene	2.53		0.0572	0.200	1	11/17/2024 19:20	WG2403355
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 19:20	WG2403355
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 19:20	WG2403355
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 19:20	WG2403355
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 19:20	WG2403355
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 19:20	WG2403355
2,2-Dichloropropane	U	J4	0.0317	0.100	1	11/17/2024 19:20	WG2403355
Di-isopropyl ether	0.0410		0.0140	0.0400	1	11/17/2024 19:20	WG2403355
Ethylbenzene	0.125		0.0212	0.100	1	11/17/2024 19:20	WG2403355
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 19:20	WG2403355
2-Hexanone	U		0.400	1.00	1	11/17/2024 19:20	WG2403355
n-Hexane	U		0.0424	0.200	1	11/17/2024 19:20	WG2403355
Iodomethane	U		0.242	0.500	1	11/17/2024 19:20	WG2403355
Isopropylbenzene	0.0720	I	0.0345	0.100	1	11/17/2024 19:20	WG2403355
p-Isopropyltoluene	0.165	I	0.0932	0.200	1	11/17/2024 19:20	WG2403355
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 19:20	WG2403355
Methylene Chloride	U		0.265	1.00	1	11/17/2024 19:20	WG2403355
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 19:20	WG2403355
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 19:20	WG2403355
Naphthalene	0.335	I	0.124	0.500	1	11/17/2024 19:20	WG2403355
n-Propylbenzene	0.126	I	0.0472	0.200	1	11/17/2024 19:20	WG2403355
Styrene	U		0.109	0.500	1	11/17/2024 19:20	WG2403355
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 19:20	WG2403355
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 19:20	WG2403355
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 19:20	WG2403355
Tetrachloroethene	34.6		0.0280	0.100	1	11/17/2024 19:20	WG2403355
Toluene	0.164	I	0.0500	0.200	1	11/17/2024 19:20	WG2403355
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/17/2024 19:20	WG2403355
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/17/2024 19:20	WG2403355
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 19:20	WG2403355
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 19:20	WG2403355
Trichloroethene	20.2		0.0160	0.0400	1	11/17/2024 19:20	WG2403355
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 19:20	WG2403355
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 19:20	WG2403355
1,2,4-Trimethylbenzene	0.534		0.0464	0.200	1	11/17/2024 19:20	WG2403355
1,2,3-Trimethylbenzene	0.284		0.0460	0.200	1	11/17/2024 19:20	WG2403355
1,3,5-Trimethylbenzene	0.267		0.0432	0.200	1	11/17/2024 19:20	WG2403355
Vinyl acetate	U		0.141	0.500	1	11/17/2024 19:20	WG2403355
Vinyl chloride	163		0.546	2.00	20	11/25/2024 17:28	WG2406168
Xylenes, Total	0.584		0.191	0.260	1	11/17/2024 19:20	WG2403355
(S) Toluene-d8	105			75.0-131		11/17/2024 19:20	WG2403355
(S) Toluene-d8	99.1			75.0-131		11/25/2024 17:28	WG2406168
(S) 4-Bromofluorobenzene	98.1			67.0-138		11/17/2024 19:20	WG2403355
(S) 4-Bromofluorobenzene	86.9			67.0-138		11/25/2024 17:28	WG2406168

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	96.6			70.0-130		11/17/2024 19:20	WG2403355
(S) 1,2-Dichloroethane-d4	100			70.0-130		11/25/2024 17:28	WG2406168

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	170000		4750	20000	1	11/14/2024 11:13	WG2401465

Sample Narrative:

L1799093-03 WG2401465: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	11900		547	1000	1	11/14/2024 02:50	WG2400994
Nitrate as (N)	525		88.4	100	1	11/14/2024 02:50	WG2400994
Sulfate	56700		637	5000	1	11/14/2024 02:50	WG2400994

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1660		495	1000	1	11/17/2024 06:05	WG2403031

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	106		22.6	100	1	11/21/2024 15:59	WG2404347
Manganese	19.6		0.700	5.00	1	11/21/2024 15:59	WG2404347

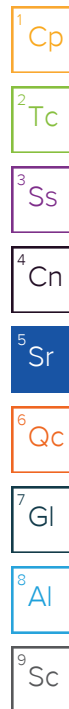
Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	11/17/2024 16:43	WG2401584
Ethane	U		0.296	1.29	1	11/17/2024 16:43	WG2401584
Ethene	U		0.422	1.27	1	11/17/2024 16:43	WG2401584

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/23/2024 15:56	WG2406165
Acrylonitrile	U	J4	0.0760	0.500	1	11/23/2024 15:56	WG2406165
Benzene	U		0.0160	0.0400	1	11/23/2024 15:56	WG2406165
Bromobenzene	U		0.0420	0.500	1	11/23/2024 15:56	WG2406165
Bromochloromethane	U		0.0452	0.200	1	11/23/2024 15:56	WG2406165
Bromodichloromethane	U		0.0315	0.100	1	11/23/2024 15:56	WG2406165
Bromoform	U		0.239	1.00	1	11/23/2024 15:56	WG2406165
Bromomethane	U	UJ C3	0.148	0.500	1	11/23/2024 15:56	WG2406165
n-Butylbenzene	U		0.153	0.500	1	11/23/2024 15:56	WG2406165
sec-Butylbenzene	U		0.101	0.500	1	11/23/2024 15:56	WG2406165
tert-Butylbenzene	U		0.0620	0.200	1	11/23/2024 15:56	WG2406165
Carbon disulfide	U		0.162	0.500	1	11/23/2024 15:56	WG2406165
Carbon tetrachloride	U		0.0432	0.200	1	11/23/2024 15:56	WG2406165
Chlorobenzene	U		0.0229	0.100	1	11/23/2024 15:56	WG2406165
Chlorodibromomethane	U		0.0180	0.100	1	11/23/2024 15:56	WG2406165
Chloroethane	U		0.0432	0.200	1	11/23/2024 15:56	WG2406165
Chloroform	U		0.0166	0.100	1	11/23/2024 15:56	WG2406165
Chloromethane	U		0.0556	0.500	1	11/23/2024 15:56	WG2406165
2-Chlorotoluene	U	UJ C3	0.0368	0.100	1	11/23/2024 15:56	WG2406165
4-Chlorotoluene	U	UJ C3 I4	0.0452	0.200	1	11/23/2024 15:56	WG2406165

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/23/2024 15:56	WG2406165
1,2-Dibromoethane	U		0.0210	0.100	1	11/23/2024 15:56	WG2406165
Dibromomethane	U		0.0400	0.200	1	11/23/2024 15:56	WG2406165
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/23/2024 15:56	WG2406165
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/23/2024 15:56	WG2406165
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/23/2024 15:56	WG2406165
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/23/2024 15:56	WG2406165
Dichlorodifluoromethane	U		0.0327	0.200	1	11/23/2024 15:56	WG2406165
1,1-Dichloroethane	U		0.0230	0.100	1	11/23/2024 15:56	WG2406165
1,2-Dichloroethane	U		0.0190	0.100	1	11/23/2024 15:56	WG2406165
1,1-Dichloroethene	U		0.0200	0.100	1	11/23/2024 15:56	WG2406165
cis-1,2-Dichloroethene	4.82		0.0276	0.100	1	11/23/2024 15:56	WG2406165
trans-1,2-Dichloroethene	0.0620	U	0.0572	0.200	1	11/23/2024 15:56	WG2406165
1,2-Dichloropropane	U		0.0508	0.200	1	11/23/2024 15:56	WG2406165
1,1-Dichloropropene	U		0.0280	0.100	1	11/23/2024 15:56	WG2406165
1,3-Dichloropropane	U		0.0700	0.200	1	11/23/2024 15:56	WG2406165
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/23/2024 15:56	WG2406165
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/23/2024 15:56	WG2406165
2,2-Dichloropropane	U		0.0317	0.100	1	11/23/2024 15:56	WG2406165
Di-isopropyl ether	U		0.0140	0.0400	1	11/23/2024 15:56	WG2406165
Ethylbenzene	U		0.0212	0.100	1	11/23/2024 15:56	WG2406165
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/23/2024 15:56	WG2406165
2-Hexanone	U		0.400	1.00	1	11/23/2024 15:56	WG2406165
n-Hexane	U		0.0424	0.200	1	11/23/2024 15:56	WG2406165
Iodomethane	U		0.242	0.500	1	11/23/2024 15:56	WG2406165
Isopropylbenzene	U		0.0345	0.100	1	11/23/2024 15:56	WG2406165
p-Isopropyltoluene	U		0.0932	0.200	1	11/23/2024 15:56	WG2406165
2-Butanone (MEK)	U		0.500	1.00	1	11/23/2024 15:56	WG2406165
Methylene Chloride	U		0.265	1.00	1	11/23/2024 15:56	WG2406165
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/23/2024 15:56	WG2406165
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/23/2024 15:56	WG2406165
Naphthalene	U		0.124	0.500	1	11/23/2024 15:56	WG2406165
n-Propylbenzene	U		0.0472	0.200	1	11/23/2024 15:56	WG2406165
Styrene	U		0.109	0.500	1	11/23/2024 15:56	WG2406165
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/23/2024 15:56	WG2406165
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/23/2024 15:56	WG2406165
1,1,2-Trichlorotrifluoroethane	U	UJ	0.0270	0.100	1	11/23/2024 15:56	WG2406165
Tetrachloroethene	0.0600	U	0.0280	0.100	1	11/23/2024 15:56	WG2406165
Toluene	U		0.0500	0.200	1	11/23/2024 15:56	WG2406165
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/23/2024 15:56	WG2406165
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/23/2024 15:56	WG2406165
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/23/2024 15:56	WG2406165
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/23/2024 15:56	WG2406165
Trichloroethene	0.508		0.0160	0.0400	1	11/23/2024 15:56	WG2406165
Trichlorofluoromethane	U		0.0200	0.100	1	11/23/2024 15:56	WG2406165
1,2,3-Trichloropropane	U		0.204	0.500	1	11/23/2024 15:56	WG2406165
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/23/2024 15:56	WG2406165
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/23/2024 15:56	WG2406165
1,3,5-Trimethylbenzene	U	UJ	0.0432	0.200	1	11/23/2024 15:56	WG2406165
Vinyl acetate	U		0.141	0.500	1	11/23/2024 15:56	WG2406165
Vinyl chloride	U		0.0273	0.100	1	11/23/2024 15:56	WG2406165
Xylenes, Total	U		0.191	0.260	1	11/23/2024 15:56	WG2406165
(S) Toluene-d8	104			75.0-131		11/23/2024 15:56	WG2406165
(S) 4-Bromofluorobenzene	94.4			67.0-138		11/23/2024 15:56	WG2406165
(S) 1,2-Dichloroethane-d4	94.3			70.0-130		11/23/2024 15:56	WG2406165

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/2025

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	428000		4750	20000	1	11/14/2024 11:36	WG2401465

Sample Narrative:
L1799093-04 WG2401465: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	42400		547	1000	1	11/14/2024 03:17	WG2400994
Nitrate as (N)	U		88.4	100	1	11/14/2024 03:17	WG2400994
Sulfate	99900		637	5000	1	11/14/2024 03:17	WG2400994

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	11700		2480	5000	5	11/19/2024 19:00	WG2404190

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	412		22.6	100	1	11/21/2024 16:03	WG2404347
Manganese	4590		0.700	5.00	1	11/21/2024 16:03	WG2404347

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	2380		0.287	0.678	1	11/17/2024 16:47	WG2401584
Ethane	7.33		0.296	1.29	1	11/17/2024 16:47	WG2401584
Ethene	U		0.422	1.27	1	11/17/2024 16:47	WG2401584

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	16.6	J+ Q-C5	5.48	10.0	10	11/17/2024 23:47	WG2403355
Acrylonitrile	U	Q4	0.760	5.00	10	11/17/2024 23:47	WG2403355
Benzene	U		0.160	0.400	10	11/17/2024 23:47	WG2403355
Bromobenzene	U		0.420	5.00	10	11/17/2024 23:47	WG2403355
Bromochloromethane	U		0.452	2.00	10	11/17/2024 23:47	WG2403355
Bromodichloromethane	U		0.315	1.00	10	11/17/2024 23:47	WG2403355
Bromoform	U		2.39	10.0	10	11/17/2024 23:47	WG2403355
Bromomethane	U		1.48	5.00	10	11/17/2024 23:47	WG2403355
n-Butylbenzene	U		1.53	5.00	10	11/17/2024 23:47	WG2403355
sec-Butylbenzene	U		1.01	5.00	10	11/17/2024 23:47	WG2403355
tert-Butylbenzene	U		0.620	2.00	10	11/17/2024 23:47	WG2403355
Carbon disulfide	U		1.62	5.00	10	11/17/2024 23:47	WG2403355
Carbon tetrachloride	U		0.432	2.00	10	11/17/2024 23:47	WG2403355
Chlorobenzene	U		0.229	1.00	10	11/17/2024 23:47	WG2403355
Chlorodibromomethane	U		0.180	1.00	10	11/17/2024 23:47	WG2403355
Chloroethane	U		0.432	2.00	10	11/17/2024 23:47	WG2403355
Chloroform	U		0.166	1.00	10	11/17/2024 23:47	WG2403355
Chloromethane	U	UJ Q3	0.556	5.00	10	11/17/2024 23:47	WG2403355
2-Chlorotoluene	U		0.368	1.00	10	11/17/2024 23:47	WG2403355
4-Chlorotoluene	U		0.452	2.00	10	11/17/2024 23:47	WG2403355

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		2.04	10.0	10	11/17/2024 23:47	WG2403355
1,2-Dibromoethane	U		0.210	1.00	10	11/17/2024 23:47	WG2403355
Dibromomethane	U		0.400	2.00	10	11/17/2024 23:47	WG2403355
1,2-Dichlorobenzene	U		0.580	2.00	10	11/17/2024 23:47	WG2403355
1,3-Dichlorobenzene	U		0.680	2.00	10	11/17/2024 23:47	WG2403355
1,4-Dichlorobenzene	U		0.788	2.00	10	11/17/2024 23:47	WG2403355
trans-1,4-Dichloro-2-butene	U		0.560	2.00	10	11/17/2024 23:47	WG2403355
Dichlorodifluoromethane	U		0.327	2.00	10	11/17/2024 23:47	WG2403355
1,1-Dichloroethane	U		0.230	1.00	10	11/17/2024 23:47	WG2403355
1,2-Dichloroethane	U		0.190	1.00	10	11/17/2024 23:47	WG2403355
1,1-Dichloroethene	1.92		0.200	1.00	10	11/17/2024 23:47	WG2403355
cis-1,2-Dichloroethene	861		0.276	1.00	10	11/17/2024 23:47	WG2403355
trans-1,2-Dichloroethene	4.38		0.572	2.00	10	11/17/2024 23:47	WG2403355
1,2-Dichloropropane	U		0.508	2.00	10	11/17/2024 23:47	WG2403355
1,1-Dichloropropene	U		0.280	1.00	10	11/17/2024 23:47	WG2403355
1,3-Dichloropropane	U		0.700	2.00	10	11/17/2024 23:47	WG2403355
cis-1,3-Dichloropropene	U		0.271	1.00	10	11/17/2024 23:47	WG2403355
trans-1,3-Dichloropropene	U		0.612	2.00	10	11/17/2024 23:47	WG2403355
2,2-Dichloropropane	U		0.317	1.00	10	11/17/2024 23:47	WG2403355
Di-isopropyl ether	U		0.140	0.400	10	11/17/2024 23:47	WG2403355
Ethylbenzene	U		0.212	1.00	10	11/17/2024 23:47	WG2403355
Hexachloro-1,3-butadiene	U		5.08	10.0	10	11/17/2024 23:47	WG2403355
2-Hexanone	U		4.00	10.0	10	11/17/2024 23:47	WG2403355
n-Hexane	U		0.424	2.00	10	11/17/2024 23:47	WG2403355
Iodomethane	U		2.42	5.00	10	11/17/2024 23:47	WG2403355
Isopropylbenzene	U		0.345	1.00	10	11/17/2024 23:47	WG2403355
p-Isopropyltoluene	U		0.932	2.00	10	11/17/2024 23:47	WG2403355
2-Butanone (MEK)	U		5.00	10.0	10	11/17/2024 23:47	WG2403355
Methylene Chloride	U		2.65	10.0	10	11/17/2024 23:47	WG2403355
4-Methyl-2-pentanone (MIBK)	U		4.00	10.0	10	11/17/2024 23:47	WG2403355
Methyl tert-butyl ether	U		0.118	0.400	10	11/17/2024 23:47	WG2403355
Naphthalene	U		1.24	5.00	10	11/17/2024 23:47	WG2403355
n-Propylbenzene	U		0.472	2.00	10	11/17/2024 23:47	WG2403355
Styrene	U		1.09	5.00	10	11/17/2024 23:47	WG2403355
1,1,1,2-Tetrachloroethane	U		0.200	1.00	10	11/17/2024 23:47	WG2403355
1,1,2,2-Tetrachloroethane	U		0.156	1.00	10	11/17/2024 23:47	WG2403355
1,1,2-Trichlorotrifluoroethane	U		0.270	1.00	10	11/17/2024 23:47	WG2403355
Tetrachloroethene	77.8		0.280	1.00	10	11/17/2024 23:47	WG2403355
Toluene	U		0.500	2.00	10	11/17/2024 23:47	WG2403355
1,2,3-Trichlorobenzene	U		0.250	5.00	10	11/17/2024 23:47	WG2403355
1,2,4-Trichlorobenzene	U		1.93	5.00	10	11/17/2024 23:47	WG2403355
1,1,1-Trichloroethane	U		0.110	1.00	10	11/17/2024 23:47	WG2403355
1,1,2-Trichloroethane	U		0.353	1.00	10	11/17/2024 23:47	WG2403355
Trichloroethene	124		0.160	0.400	10	11/17/2024 23:47	WG2403355
Trichlorofluoromethane	U		0.200	1.00	10	11/17/2024 23:47	WG2403355
1,2,3-Trichloropropane	U		2.04	5.00	10	11/17/2024 23:47	WG2403355
1,2,4-Trimethylbenzene	U		0.464	2.00	10	11/17/2024 23:47	WG2403355
1,2,3-Trimethylbenzene	U		0.460	2.00	10	11/17/2024 23:47	WG2403355
1,3,5-Trimethylbenzene	U		0.432	2.00	10	11/17/2024 23:47	WG2403355
Vinyl acetate	U		1.41	5.00	10	11/17/2024 23:47	WG2403355
Vinyl chloride	1.02		0.273	1.00	10	11/17/2024 23:47	WG2403355
Xylenes, Total	U		1.91	2.60	10	11/17/2024 23:47	WG2403355
(S) Toluene-d8	107			75.0-131		11/17/2024 23:47	WG2403355
(S) 4-Bromofluorobenzene	92.5			67.0-138		11/17/2024 23:47	WG2403355
(S) 1,2-Dichloroethane-d4	95.1			70.0-130		11/17/2024 23:47	WG2403355

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/2025

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	1040000		4750	20000	1	11/14/2024 14:16	WG2401534

Sample Narrative:
L1799093-05 WG2401534: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	238000		2740	5000	5	11/14/2024 11:14	WG2401053
Nitrate as (N)	U		88.4	100	1	11/14/2024 08:20	WG2401053
Sulfate	U		637	5000	1	11/19/2024 18:34	WG2401053

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	20600		495	1000	1	11/17/2024 06:56	WG2403031

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	17600		22.6	100	1	11/21/2024 17:00	WG2404347
Manganese	2980		0.700	5.00	1	11/21/2024 17:00	WG2404347

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	20800		2.87	6.78	10	11/17/2024 22:06	WG2403424
Ethane	23.2		0.296	1.29	1	11/17/2024 16:51	WG2401584
Ethene	185		0.422	1.27	1	11/17/2024 16:51	WG2401584

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	56.7	J+ B C5	27.4	50.0	50	11/18/2024 00:06	WG2403355
Acrylonitrile	U	J4	3.80	25.0	50	11/18/2024 00:06	WG2403355
Benzene	U		0.800	2.00	50	11/18/2024 00:06	WG2403355
Bromobenzene	U		2.10	25.0	50	11/18/2024 00:06	WG2403355
Bromochloromethane	U		2.26	10.0	50	11/18/2024 00:06	WG2403355
Bromodichloromethane	U		1.58	5.00	50	11/18/2024 00:06	WG2403355
Bromoform	U		12.0	50.0	50	11/18/2024 00:06	WG2403355
Bromomethane	U		7.40	25.0	50	11/18/2024 00:06	WG2403355
n-Butylbenzene	U		7.65	25.0	50	11/18/2024 00:06	WG2403355
sec-Butylbenzene	U		5.05	25.0	50	11/18/2024 00:06	WG2403355
tert-Butylbenzene	U		3.10	10.0	50	11/18/2024 00:06	WG2403355
Carbon disulfide	U		8.10	25.0	50	11/18/2024 00:06	WG2403355
Carbon tetrachloride	U		2.16	10.0	50	11/18/2024 00:06	WG2403355
Chlorobenzene	U		1.15	5.00	50	11/18/2024 00:06	WG2403355
Chlorodibromomethane	U		0.900	5.00	50	11/18/2024 00:06	WG2403355
Chloroethane	31.3		2.16	10.0	50	11/18/2024 00:06	WG2403355
Chloroform	U		0.830	5.00	50	11/18/2024 00:06	WG2403355
Chloromethane	U	UJ C3	2.78	25.0	50	11/18/2024 00:06	WG2403355
2-Chlorotoluene	U		1.84	5.00	50	11/18/2024 00:06	WG2403355
4-Chlorotoluene	U		2.26	10.0	50	11/18/2024 00:06	WG2403355

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		10.2	50.0	50	11/18/2024 00:06	WG2403355
1,2-Dibromoethane	U		1.05	5.00	50	11/18/2024 00:06	WG2403355
Dibromomethane	U		2.00	10.0	50	11/18/2024 00:06	WG2403355
1,2-Dichlorobenzene	U		2.90	10.0	50	11/18/2024 00:06	WG2403355
1,3-Dichlorobenzene	U		3.40	10.0	50	11/18/2024 00:06	WG2403355
1,4-Dichlorobenzene	U		3.94	10.0	50	11/18/2024 00:06	WG2403355
trans-1,4-Dichloro-2-butene	U		2.80	10.0	50	11/18/2024 00:06	WG2403355
Dichlorodifluoromethane	U		1.64	10.0	50	11/18/2024 00:06	WG2403355
1,1-Dichloroethane	U		1.15	5.00	50	11/18/2024 00:06	WG2403355
1,2-Dichloroethane	U		0.950	5.00	50	11/18/2024 00:06	WG2403355
1,1-Dichloroethene	2.95	<u>U</u>	1.00	5.00	50	11/18/2024 00:06	WG2403355
cis-1,2-Dichloroethene	623		1.38	5.00	50	11/18/2024 00:06	WG2403355
trans-1,2-Dichloroethene	U		2.86	10.0	50	11/18/2024 00:06	WG2403355
1,2-Dichloropropane	U		2.54	10.0	50	11/18/2024 00:06	WG2403355
1,1-Dichloropropene	U		1.40	5.00	50	11/18/2024 00:06	WG2403355
1,3-Dichloropropane	U		3.50	10.0	50	11/18/2024 00:06	WG2403355
cis-1,3-Dichloropropene	U		1.36	5.00	50	11/18/2024 00:06	WG2403355
trans-1,3-Dichloropropene	U		3.06	10.0	50	11/18/2024 00:06	WG2403355
2,2-Dichloropropane	U	<u>J4</u>	1.59	5.00	50	11/18/2024 00:06	WG2403355
Di-isopropyl ether	U		0.700	2.00	50	11/18/2024 00:06	WG2403355
Ethylbenzene	U		1.06	5.00	50	11/18/2024 00:06	WG2403355
Hexachloro-1,3-butadiene	U		25.4	50.0	50	11/18/2024 00:06	WG2403355
2-Hexanone	U		20.0	50.0	50	11/18/2024 00:06	WG2403355
n-Hexane	U		2.12	10.0	50	11/18/2024 00:06	WG2403355
Iodomethane	U		12.1	25.0	50	11/18/2024 00:06	WG2403355
Isopropylbenzene	U		1.73	5.00	50	11/18/2024 00:06	WG2403355
p-Isopropyltoluene	U		4.66	10.0	50	11/18/2024 00:06	WG2403355
2-Butanone (MEK)	U		25.0	50.0	50	11/18/2024 00:06	WG2403355
Methylene Chloride	U		13.3	50.0	50	11/18/2024 00:06	WG2403355
4-Methyl-2-pentanone (MIBK)	U		20.0	50.0	50	11/18/2024 00:06	WG2403355
Methyl tert-butyl ether	U		0.590	2.00	50	11/18/2024 00:06	WG2403355
Naphthalene	U		6.20	25.0	50	11/18/2024 00:06	WG2403355
n-Propylbenzene	U		2.36	10.0	50	11/18/2024 00:06	WG2403355
Styrene	U		5.45	25.0	50	11/18/2024 00:06	WG2403355
1,1,1,2-Tetrachloroethane	U		1.00	5.00	50	11/18/2024 00:06	WG2403355
1,1,2,2-Tetrachloroethane	U		0.780	5.00	50	11/18/2024 00:06	WG2403355
1,1,2-Trichlorotrifluoroethane	U		1.35	5.00	50	11/18/2024 00:06	WG2403355
Tetrachloroethene	14.2		1.40	5.00	50	11/18/2024 00:06	WG2403355
Toluene	U		2.50	10.0	50	11/18/2024 00:06	WG2403355
1,2,3-Trichlorobenzene	U		1.25	25.0	50	11/18/2024 00:06	WG2403355
1,2,4-Trichlorobenzene	U		9.65	25.0	50	11/18/2024 00:06	WG2403355
1,1,1-Trichloroethane	U		0.550	5.00	50	11/18/2024 00:06	WG2403355
1,1,2-Trichloroethane	U		1.77	5.00	50	11/18/2024 00:06	WG2403355
Trichloroethene	4.65		0.800	2.00	50	11/18/2024 00:06	WG2403355
Trichlorofluoromethane	U		1.00	5.00	50	11/18/2024 00:06	WG2403355
1,2,3-Trichloropropane	U		10.2	25.0	50	11/18/2024 00:06	WG2403355
1,2,4-Trimethylbenzene	U		2.32	10.0	50	11/18/2024 00:06	WG2403355
1,2,3-Trimethylbenzene	U		2.30	10.0	50	11/18/2024 00:06	WG2403355
1,3,5-Trimethylbenzene	U		2.16	10.0	50	11/18/2024 00:06	WG2403355
Vinyl acetate	U		7.05	25.0	50	11/18/2024 00:06	WG2403355
Vinyl chloride	1370		1.36	5.00	50	11/18/2024 00:06	WG2403355
Xylenes, Total	U		9.55	13.0	50	11/18/2024 00:06	WG2403355
(S) Toluene-d8	113			75.0-131		11/18/2024 00:06	WG2403355
(S) 4-Bromofluorobenzene	89.3			67.0-138		11/18/2024 00:06	WG2403355
(S) 1,2-Dichloroethane-d4	93.1			70.0-130		11/18/2024 00:06	WG2403355

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Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	581000		4750	20000	1	11/14/2024 11:40	WG2401465

Sample Narrative:
L1799093-06 WG2401465: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	92400		547	1000	1	11/14/2024 08:33	WG2401053
Nitrate as (N)	U		88.4	100	1	11/14/2024 08:33	WG2401053
Sulfate	1400	J	637	5000	1	11/19/2024 18:52	WG2401053

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	10100		495	1000	1	11/17/2024 07:20	WG2403031

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	5840		22.6	100	1	11/21/2024 17:03	WG2404347
Manganese	952		0.700	5.00	1	11/21/2024 17:03	WG2404347

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	20000		2.87	6.78	10	11/17/2024 22:25	WG2403424
Ethane	339		0.296	1.29	1	11/17/2024 17:06	WG2401584
Ethene	630		0.422	1.27	1	11/17/2024 17:06	WG2401584

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/17/2024 19:39	WG2403355
Acrylonitrile	U	J4	0.0760	0.500	1	11/17/2024 19:39	WG2403355
Benzene	0.191		0.0160	0.0400	1	11/17/2024 19:39	WG2403355
Bromobenzene	U		0.0420	0.500	1	11/17/2024 19:39	WG2403355
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 19:39	WG2403355
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 19:39	WG2403355
Bromoform	U		0.239	1.00	1	11/17/2024 19:39	WG2403355
Bromomethane	U		0.148	0.500	1	11/17/2024 19:39	WG2403355
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 19:39	WG2403355
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 19:39	WG2403355
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 19:39	WG2403355
Carbon disulfide	U		0.162	0.500	1	11/17/2024 19:39	WG2403355
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 19:39	WG2403355
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 19:39	WG2403355
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 19:39	WG2403355
Chloroethane	9.26		0.0432	0.200	1	11/17/2024 19:39	WG2403355
Chloroform	U		0.0166	0.100	1	11/17/2024 19:39	WG2403355
Chloromethane	U	UJ C3	0.0556	0.500	1	11/17/2024 19:39	WG2403355
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 19:39	WG2403355
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 19:39	WG2403355

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1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 19:39	WG2403355
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 19:39	WG2403355
Dibromomethane	U		0.0400	0.200	1	11/17/2024 19:39	WG2403355
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 19:39	WG2403355
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 19:39	WG2403355
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 19:39	WG2403355
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/17/2024 19:39	WG2403355
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 19:39	WG2403355
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 19:39	WG2403355
1,2-Dichloroethane	U		0.0190	0.100	1	11/17/2024 19:39	WG2403355
1,1-Dichloroethene	25.3		0.0200	0.100	1	11/17/2024 19:39	WG2403355
cis-1,2-Dichloroethene	2950		13.8	50.0	500	11/25/2024 17:48	WG2406168
trans-1,2-Dichloroethene	15.2		0.0572	0.200	1	11/17/2024 19:39	WG2403355
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 19:39	WG2403355
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 19:39	WG2403355
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 19:39	WG2403355
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 19:39	WG2403355
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 19:39	WG2403355
2,2-Dichloropropane	U	34	0.0317	0.100	1	11/17/2024 19:39	WG2403355
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 19:39	WG2403355
Ethylbenzene	0.0840	12	0.0212	0.100	1	11/17/2024 19:39	WG2403355
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 19:39	WG2403355
2-Hexanone	U		0.400	1.00	1	11/17/2024 19:39	WG2403355
n-Hexane	U		0.0424	0.200	1	11/17/2024 19:39	WG2403355
Iodomethane	U		0.242	0.500	1	11/17/2024 19:39	WG2403355
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 19:39	WG2403355
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 19:39	WG2403355
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 19:39	WG2403355
Methylene Chloride	U		0.265	1.00	1	11/17/2024 19:39	WG2403355
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 19:39	WG2403355
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 19:39	WG2403355
Naphthalene	U		0.124	0.500	1	11/17/2024 19:39	WG2403355
n-Propylbenzene	0.0910	12	0.0472	0.200	1	11/17/2024 19:39	WG2403355
Styrene	U		0.109	0.500	1	11/17/2024 19:39	WG2403355
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 19:39	WG2403355
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 19:39	WG2403355
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 19:39	WG2403355
Tetrachloroethene	5730		14.0	50.0	500	11/25/2024 17:48	WG2406168
Toluene	0.344		0.0500	0.200	1	11/17/2024 19:39	WG2403355
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/17/2024 19:39	WG2403355
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/17/2024 19:39	WG2403355
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 19:39	WG2403355
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 19:39	WG2403355
Trichloroethene	820		8.00	20.0	500	11/25/2024 17:48	WG2406168
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 19:39	WG2403355
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 19:39	WG2403355
1,2,4-Trimethylbenzene	0.493		0.0464	0.200	1	11/17/2024 19:39	WG2403355
1,2,3-Trimethylbenzene	0.181	12	0.0460	0.200	1	11/17/2024 19:39	WG2403355
1,3,5-Trimethylbenzene	0.194	12	0.0432	0.200	1	11/17/2024 19:39	WG2403355
Vinyl acetate	U		0.141	0.500	1	11/17/2024 19:39	WG2403355
Vinyl chloride	1460		13.6	50.0	500	11/25/2024 17:48	WG2406168
Xylenes, Total	0.386		0.191	0.260	1	11/17/2024 19:39	WG2403355
(S) Toluene-d8	89.8			75.0-131		11/17/2024 19:39	WG2403355
(S) Toluene-d8	102			75.0-131		11/25/2024 17:48	WG2406168
(S) 4-Bromofluorobenzene	95.4			67.0-138		11/17/2024 19:39	WG2403355
(S) 4-Bromofluorobenzene	87.2			67.0-138		11/25/2024 17:48	WG2406168

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

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
(S) 1,2-Dichloroethane-d4	94.8			70.0-130		11/17/2024 19:39	WG2403355
(S) 1,2-Dichloroethane-d4	98.3			70.0-130		11/25/2024 17:48	WG2406168

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

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Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	1340000		4750	20000	1	11/19/2024 10:06	WG2404160

Sample Narrative:
L1799093-07 WG2404160: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	193000		2740	5000	5	11/14/2024 11:41	WG2401053
Nitrate as (N)	U		88.4	100	1	11/14/2024 08:47	WG2401053
Sulfate	23000		637	5000	1	11/19/2024 19:09	WG2401053

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	38800		495	1000	1	11/17/2024 07:47	WG2403031

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	19200		22.6	100	1	11/21/2024 17:06	WG2404347
Manganese	7740		0.700	5.00	1	11/21/2024 17:06	WG2404347

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	18500		2.87	6.78	10	11/17/2024 22:33	WG2403424
Ethane	207		0.296	1.29	1	11/17/2024 17:14	WG2401584
Ethene	80.7		0.422	1.27	1	11/17/2024 17:14	WG2401584

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	29.2	J+ B-C5	13.7	25.0	25	11/18/2024 00:25	WG2403355
Acrylonitrile	U	J4	1.90	12.5	25	11/18/2024 00:25	WG2403355
Benzene	U		0.400	1.00	25	11/18/2024 00:25	WG2403355
Bromobenzene	U		1.05	12.5	25	11/18/2024 00:25	WG2403355
Bromochloromethane	U		1.13	5.00	25	11/18/2024 00:25	WG2403355
Bromodichloromethane	U		0.788	2.50	25	11/18/2024 00:25	WG2403355
Bromoform	U		5.98	25.0	25	11/18/2024 00:25	WG2403355
Bromomethane	U		3.70	12.5	25	11/18/2024 00:25	WG2403355
n-Butylbenzene	U		3.83	12.5	25	11/18/2024 00:25	WG2403355
sec-Butylbenzene	U		2.53	12.5	25	11/18/2024 00:25	WG2403355
tert-Butylbenzene	U		1.55	5.00	25	11/18/2024 00:25	WG2403355
Carbon disulfide	U		4.05	12.5	25	11/18/2024 00:25	WG2403355
Carbon tetrachloride	U		1.08	5.00	25	11/18/2024 00:25	WG2403355
Chlorobenzene	U		0.573	2.50	25	11/18/2024 00:25	WG2403355
Chlorodibromomethane	U		0.450	2.50	25	11/18/2024 00:25	WG2403355
Chloroethane	4.08	J	1.08	5.00	25	11/18/2024 00:25	WG2403355
Chloroform	U		0.415	2.50	25	11/18/2024 00:25	WG2403355
Chloromethane	U	UJ C3	1.39	12.5	25	11/18/2024 00:25	WG2403355
2-Chlorotoluene	U		0.920	2.50	25	11/18/2024 00:25	WG2403355
4-Chlorotoluene	U		1.13	5.00	25	11/18/2024 00:25	WG2403355

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		5.10	25.0	25	11/18/2024 00:25	WG2403355
1,2-Dibromoethane	U		0.525	2.50	25	11/18/2024 00:25	WG2403355
Dibromomethane	U		1.00	5.00	25	11/18/2024 00:25	WG2403355
1,2-Dichlorobenzene	U		1.45	5.00	25	11/18/2024 00:25	WG2403355
1,3-Dichlorobenzene	U		1.70	5.00	25	11/18/2024 00:25	WG2403355
1,4-Dichlorobenzene	U		1.97	5.00	25	11/18/2024 00:25	WG2403355
trans-1,4-Dichloro-2-butene	U		1.40	5.00	25	11/18/2024 00:25	WG2403355
Dichlorodifluoromethane	U		0.818	5.00	25	11/18/2024 00:25	WG2403355
1,1-Dichloroethane	U		0.575	2.50	25	11/18/2024 00:25	WG2403355
1,2-Dichloroethane	U		0.475	2.50	25	11/18/2024 00:25	WG2403355
1,1-Dichloroethene	9.55		0.500	2.50	25	11/18/2024 00:25	WG2403355
cis-1,2-Dichloroethene	4010		6.90	25.0	250	11/25/2024 18:08	WG2406168
trans-1,2-Dichloroethene	15.5		1.43	5.00	25	11/18/2024 00:25	WG2403355
1,2-Dichloropropane	U		1.27	5.00	25	11/18/2024 00:25	WG2403355
1,1-Dichloropropene	U		0.700	2.50	25	11/18/2024 00:25	WG2403355
1,3-Dichloropropane	U		1.75	5.00	25	11/18/2024 00:25	WG2403355
cis-1,3-Dichloropropene	U		0.678	2.50	25	11/18/2024 00:25	WG2403355
trans-1,3-Dichloropropene	U		1.53	5.00	25	11/18/2024 00:25	WG2403355
2,2-Dichloropropane	U	J4	0.793	2.50	25	11/18/2024 00:25	WG2403355
Di-isopropyl ether	U		0.350	1.00	25	11/18/2024 00:25	WG2403355
Ethylbenzene	U		0.530	2.50	25	11/18/2024 00:25	WG2403355
Hexachloro-1,3-butadiene	U		12.7	25.0	25	11/18/2024 00:25	WG2403355
2-Hexanone	U		10.0	25.0	25	11/18/2024 00:25	WG2403355
n-Hexane	U		1.06	5.00	25	11/18/2024 00:25	WG2403355
Iodomethane	U		6.05	12.5	25	11/18/2024 00:25	WG2403355
Isopropylbenzene	U		0.863	2.50	25	11/18/2024 00:25	WG2403355
p-Isopropyltoluene	U		2.33	5.00	25	11/18/2024 00:25	WG2403355
2-Butanone (MEK)	U		12.5	25.0	25	11/18/2024 00:25	WG2403355
Methylene Chloride	U		6.63	25.0	25	11/18/2024 00:25	WG2403355
4-Methyl-2-pentanone (MIBK)	U		10.0	25.0	25	11/18/2024 00:25	WG2403355
Methyl tert-butyl ether	U		0.295	1.00	25	11/18/2024 00:25	WG2403355
Naphthalene	U		3.10	12.5	25	11/18/2024 00:25	WG2403355
n-Propylbenzene	U		1.18	5.00	25	11/18/2024 00:25	WG2403355
Styrene	U		2.73	12.5	25	11/18/2024 00:25	WG2403355
1,1,1,2-Tetrachloroethane	U		0.500	2.50	25	11/18/2024 00:25	WG2403355
1,1,2,2-Tetrachloroethane	U		0.390	2.50	25	11/18/2024 00:25	WG2403355
1,1,2-Trichlorotrifluoroethane	U		0.675	2.50	25	11/18/2024 00:25	WG2403355
Tetrachloroethene	165		0.700	2.50	25	11/18/2024 00:25	WG2403355
Toluene	U		1.25	5.00	25	11/18/2024 00:25	WG2403355
1,2,3-Trichlorobenzene	U		0.625	12.5	25	11/18/2024 00:25	WG2403355
1,2,4-Trichlorobenzene	U		4.83	12.5	25	11/18/2024 00:25	WG2403355
1,1,1-Trichloroethane	U		0.275	2.50	25	11/18/2024 00:25	WG2403355
1,1,2-Trichloroethane	U		0.883	2.50	25	11/18/2024 00:25	WG2403355
Trichloroethene	247		0.400	1.00	25	11/18/2024 00:25	WG2403355
Trichlorofluoromethane	U		0.500	2.50	25	11/18/2024 00:25	WG2403355
1,2,3-Trichloropropane	U		5.10	12.5	25	11/18/2024 00:25	WG2403355
1,2,4-Trimethylbenzene	U		1.16	5.00	25	11/18/2024 00:25	WG2403355
1,2,3-Trimethylbenzene	U		1.15	5.00	25	11/18/2024 00:25	WG2403355
1,3,5-Trimethylbenzene	U		1.08	5.00	25	11/18/2024 00:25	WG2403355
Vinyl acetate	U		3.53	12.5	25	11/18/2024 00:25	WG2403355
Vinyl chloride	1090		0.682	2.50	25	11/18/2024 00:25	WG2403355
Xylenes, Total	U		4.78	6.50	25	11/18/2024 00:25	WG2403355
(S) Toluene-d8	101			75.0-131		11/18/2024 00:25	WG2403355
(S) Toluene-d8	102			75.0-131		11/25/2024 18:08	WG2406168
(S) 4-Bromofluorobenzene	92.2			67.0-138		11/18/2024 00:25	WG2403355
(S) 4-Bromofluorobenzene	84.7			67.0-138		11/25/2024 18:08	WG2406168

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	93.9			70.0-130		11/18/2024 00:25	WG2403355
(S) 1,2-Dichloroethane-d4	102			70.0-130		11/25/2024 18:08	WG2406168

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

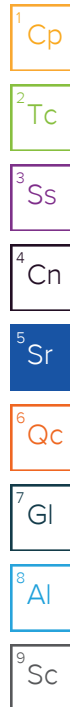
⁸Al

⁹Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.42	U B C5	0.548	1.00	1	11/17/2024 19:58	WG2403355
Acrylonitrile	U	J4	0.0760	0.500	1	11/17/2024 19:58	WG2403355
Benzene	U		0.0160	0.0400	1	11/17/2024 19:58	WG2403355
Bromobenzene	U		0.0420	0.500	1	11/17/2024 19:58	WG2403355
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 19:58	WG2403355
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 19:58	WG2403355
Bromoform	U		0.239	1.00	1	11/17/2024 19:58	WG2403355
Bromomethane	U		0.148	0.500	1	11/17/2024 19:58	WG2403355
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 19:58	WG2403355
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 19:58	WG2403355
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 19:58	WG2403355
Carbon disulfide	U		0.162	0.500	1	11/17/2024 19:58	WG2403355
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 19:58	WG2403355
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 19:58	WG2403355
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 19:58	WG2403355
Chloroethane	U		0.0432	0.200	1	11/17/2024 19:58	WG2403355
Chloroform	U		0.0166	0.100	1	11/17/2024 19:58	WG2403355
Chloromethane	U	UJ C3	0.0556	0.500	1	11/17/2024 19:58	WG2403355
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 19:58	WG2403355
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 19:58	WG2403355
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 19:58	WG2403355
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 19:58	WG2403355
Dibromomethane	U		0.0400	0.200	1	11/17/2024 19:58	WG2403355
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 19:58	WG2403355
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 19:58	WG2403355
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 19:58	WG2403355
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/17/2024 19:58	WG2403355
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 19:58	WG2403355
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 19:58	WG2403355
1,2-Dichloroethane	U		0.0190	0.100	1	11/17/2024 19:58	WG2403355
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 19:58	WG2403355
cis-1,2-Dichloroethene	0.0400	U B J	0.0276	0.100	1	11/25/2024 15:10	WG2406168
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 19:58	WG2403355
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 19:58	WG2403355
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 19:58	WG2403355
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 19:58	WG2403355
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 19:58	WG2403355
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 19:58	WG2403355
2,2-Dichloropropane	U	J4	0.0317	0.100	1	11/17/2024 19:58	WG2403355
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 19:58	WG2403355
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 19:58	WG2403355
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 19:58	WG2403355
2-Hexanone	U		0.400	1.00	1	11/17/2024 19:58	WG2403355
n-Hexane	U		0.0424	0.200	1	11/17/2024 19:58	WG2403355
Iodomethane	U		0.242	0.500	1	11/17/2024 19:58	WG2403355
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 19:58	WG2403355
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 19:58	WG2403355
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 19:58	WG2403355
Methylene Chloride	U		0.265	1.00	1	11/17/2024 19:58	WG2403355
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 19:58	WG2403355
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 19:58	WG2403355
Naphthalene	U		0.124	0.500	1	11/17/2024 19:58	WG2403355
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 19:58	WG2403355
Styrene	U		0.109	0.500	1	11/17/2024 19:58	WG2403355
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 19:58	WG2403355
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 19:58	WG2403355

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 19:58	WG2403355
Tetrachloroethene	0.0670	J	0.0280	0.100	1	11/25/2024 15:10	WG2406168
Toluene	U		0.0500	0.200	1	11/17/2024 19:58	WG2403355
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/17/2024 19:58	WG2403355
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/17/2024 19:58	WG2403355
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 19:58	WG2403355
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 19:58	WG2403355
Trichloroethene	U		0.0160	0.0400	1	11/25/2024 15:10	WG2406168
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 19:58	WG2403355
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 19:58	WG2403355
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 19:58	WG2403355
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 19:58	WG2403355
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 19:58	WG2403355
Vinyl acetate	U		0.141	0.500	1	11/17/2024 19:58	WG2403355
Vinyl chloride	U		0.0273	0.100	1	11/25/2024 15:10	WG2406168
Xylenes, Total	U		0.191	0.260	1	11/17/2024 19:58	WG2403355
(S) Toluene-d8	105			75.0-131		11/17/2024 19:58	WG2403355
(S) Toluene-d8	101			75.0-131		11/25/2024 15:10	WG2406168
(S) 4-Bromofluorobenzene	98.9			67.0-138		11/17/2024 19:58	WG2403355
(S) 4-Bromofluorobenzene	86.1			67.0-138		11/25/2024 15:10	WG2406168
(S) 1,2-Dichloroethane-d4	92.1			70.0-130		11/17/2024 19:58	WG2403355
(S) 1,2-Dichloroethane-d4	99.9			70.0-130		11/25/2024 15:10	WG2406168

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

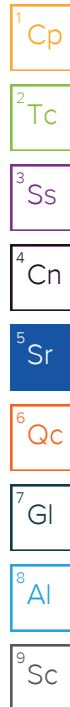
9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.54	U BC5	0.548	1.00	1	11/17/2024 20:17	WG2403355
Acrylonitrile	U	J4	0.0760	0.500	1	11/17/2024 20:17	WG2403355
Benzene	U		0.0160	0.0400	1	11/17/2024 20:17	WG2403355
Bromobenzene	U		0.0420	0.500	1	11/17/2024 20:17	WG2403355
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 20:17	WG2403355
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 20:17	WG2403355
Bromoform	U		0.239	1.00	1	11/17/2024 20:17	WG2403355
Bromomethane	U		0.148	0.500	1	11/17/2024 20:17	WG2403355
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 20:17	WG2403355
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 20:17	WG2403355
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 20:17	WG2403355
Carbon disulfide	U		0.162	0.500	1	11/17/2024 20:17	WG2403355
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 20:17	WG2403355
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 20:17	WG2403355
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 20:17	WG2403355
Chloroethane	U		0.0432	0.200	1	11/17/2024 20:17	WG2403355
Chloroform	U		0.0166	0.100	1	11/17/2024 20:17	WG2403355
Chloromethane	U	UJ BC	0.0556	0.500	1	11/17/2024 20:17	WG2403355
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 20:17	WG2403355
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 20:17	WG2403355
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 20:17	WG2403355
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 20:17	WG2403355
Dibromomethane	0.0830	J	0.0400	0.200	1	11/17/2024 20:17	WG2403355
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 20:17	WG2403355
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 20:17	WG2403355
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 20:17	WG2403355
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/17/2024 20:17	WG2403355
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 20:17	WG2403355
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 20:17	WG2403355
1,2-Dichloroethane	U		0.0190	0.100	1	11/17/2024 20:17	WG2403355
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 20:17	WG2403355
cis-1,2-Dichloroethene	0.0750	U BJ	0.0276	0.100	1	11/25/2024 15:30	WG2406168
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 20:17	WG2403355
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 20:17	WG2403355
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 20:17	WG2403355
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 20:17	WG2403355
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 20:17	WG2403355
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 20:17	WG2403355
2,2-Dichloropropane	U	J4	0.0317	0.100	1	11/17/2024 20:17	WG2403355
Di-isopropyl ether	0.0280	J	0.0140	0.0400	1	11/17/2024 20:17	WG2403355
Ethylbenzene	0.103		0.0212	0.100	1	11/17/2024 20:17	WG2403355
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 20:17	WG2403355
2-Hexanone	U		0.400	1.00	1	11/17/2024 20:17	WG2403355
n-Hexane	U		0.0424	0.200	1	11/17/2024 20:17	WG2403355
Iodomethane	U		0.242	0.500	1	11/17/2024 20:17	WG2403355
Isopropylbenzene	0.0720	J	0.0345	0.100	1	11/17/2024 20:17	WG2403355
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 20:17	WG2403355
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 20:17	WG2403355
Methylene Chloride	U		0.265	1.00	1	11/17/2024 20:17	WG2403355
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 20:17	WG2403355
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 20:17	WG2403355
Naphthalene	U		0.124	0.500	1	11/17/2024 20:17	WG2403355
n-Propylbenzene	0.0490	J	0.0472	0.200	1	11/17/2024 20:17	WG2403355
Styrene	U		0.109	0.500	1	11/17/2024 20:17	WG2403355
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 20:17	WG2403355
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 20:17	WG2403355

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 20:17	WG2403355
Tetrachloroethene	U		0.0280	0.100	1	11/25/2024 15:30	WG2406168
Toluene	0.176	U	0.0500	0.200	1	11/17/2024 20:17	WG2403355
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/17/2024 20:17	WG2403355
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/17/2024 20:17	WG2403355
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 20:17	WG2403355
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 20:17	WG2403355
Trichloroethene	U		0.0160	0.0400	1	11/25/2024 15:30	WG2406168
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 20:17	WG2403355
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 20:17	WG2403355
1,2,4-Trimethylbenzene	0.0830	U	0.0464	0.200	1	11/17/2024 20:17	WG2403355
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 20:17	WG2403355
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 20:17	WG2403355
Vinyl acetate	U		0.141	0.500	1	11/17/2024 20:17	WG2403355
Vinyl chloride	U		0.0273	0.100	1	11/25/2024 15:30	WG2406168
Xylenes, Total	0.644		0.191	0.260	1	11/17/2024 20:17	WG2403355
(S) Toluene-d8	106			75.0-131		11/17/2024 20:17	WG2403355
(S) Toluene-d8	99.7			75.0-131		11/25/2024 15:30	WG2406168
(S) 4-Bromofluorobenzene	104			67.0-138		11/17/2024 20:17	WG2403355
(S) 4-Bromofluorobenzene	90.8			67.0-138		11/25/2024 15:30	WG2406168
(S) 1,2-Dichloroethane-d4	91.5			70.0-130		11/17/2024 20:17	WG2403355
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/25/2024 15:30	WG2406168

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/20/2024 00:07	WG2405418
Acrylonitrile	U		0.0760	0.500	1	11/20/2024 00:07	WG2405418
Benzene	U		0.0160	0.0400	1	11/20/2024 00:07	WG2405418
Bromobenzene	U		0.0420	0.500	1	11/20/2024 00:07	WG2405418
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 00:07	WG2405418
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 00:07	WG2405418
Bromoform	U		0.239	1.00	1	11/20/2024 00:07	WG2405418
Bromomethane	U		0.148	0.500	1	11/20/2024 00:07	WG2405418
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 00:07	WG2405418
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 00:07	WG2405418
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 00:07	WG2405418
Carbon disulfide	0.204	U BJ	0.162	0.500	1	11/20/2024 00:07	WG2405418
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 00:07	WG2405418
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 00:07	WG2405418
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 00:07	WG2405418
Chloroethane	U		0.0432	0.200	1	11/20/2024 00:07	WG2405418
Chloroform	U		0.0166	0.100	1	11/20/2024 00:07	WG2405418
Chloromethane	U	CS	0.0556	0.500	1	11/20/2024 00:07	WG2405418
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 00:07	WG2405418
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 00:07	WG2405418
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/20/2024 00:07	WG2405418
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 00:07	WG2405418
Dibromomethane	U		0.0400	0.200	1	11/20/2024 00:07	WG2405418
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 00:07	WG2405418
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 00:07	WG2405418
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 00:07	WG2405418
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/20/2024 00:07	WG2405418
Dichlorodifluoromethane	U	UJ CS	0.0327	0.200	1	11/20/2024 00:07	WG2405418
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 00:07	WG2405418
1,2-Dichloroethane	U		0.0190	0.100	1	11/20/2024 00:07	WG2405418
1,1-Dichloroethene	U		0.0200	0.100	1	11/20/2024 00:07	WG2405418
cis-1,2-Dichloroethene	6.34		0.0276	0.100	1	11/20/2024 00:07	WG2405418
trans-1,2-Dichloroethene	0.0910	J	0.0572	0.200	1	11/20/2024 00:07	WG2405418
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 00:07	WG2405418
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 00:07	WG2405418
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 00:07	WG2405418
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 00:07	WG2405418
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 00:07	WG2405418
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 00:07	WG2405418
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 00:07	WG2405418
Ethylbenzene	U		0.0212	0.100	1	11/20/2024 00:07	WG2405418
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/20/2024 00:07	WG2405418
2-Hexanone	U		0.400	1.00	1	11/20/2024 00:07	WG2405418
n-Hexane	U		0.0424	0.200	1	11/20/2024 00:07	WG2405418
Iodomethane	U		0.242	0.500	1	11/20/2024 00:07	WG2405418
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 00:07	WG2405418
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 00:07	WG2405418
2-Butanone (MEK)	U	UJ CS	0.500	1.00	1	11/20/2024 00:07	WG2405418
Methylene Chloride	U		0.265	1.00	1	11/20/2024 00:07	WG2405418
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 00:07	WG2405418
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 00:07	WG2405418
Naphthalene	U		0.124	0.500	1	11/20/2024 00:07	WG2405418
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 00:07	WG2405418
Styrene	U		0.109	0.500	1	11/20/2024 00:07	WG2405418
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 00:07	WG2405418
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 00:07	WG2405418

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 00:07	WG2405418
Tetrachloroethene	U		0.0280	0.100	1	11/20/2024 00:07	WG2405418
Toluene	U		0.0500	0.200	1	11/20/2024 00:07	WG2405418
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 00:07	WG2405418
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 00:07	WG2405418
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 00:07	WG2405418
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 00:07	WG2405418
Trichloroethene	U		0.0160	0.0400	1	11/20/2024 00:07	WG2405418
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 00:07	WG2405418
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 00:07	WG2405418
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 00:07	WG2405418
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 00:07	WG2405418
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 00:07	WG2405418
Vinyl acetate	U		0.141	0.500	1	11/20/2024 00:07	WG2405418
Vinyl chloride	0.110		0.0273	0.100	1	11/24/2024 13:07	WG2406076
Xylenes, Total	U		0.191	0.260	1	11/20/2024 00:07	WG2405418
(S) Toluene-d8	101			75.0-131		11/20/2024 00:07	WG2405418
(S) Toluene-d8	101			75.0-131		11/24/2024 13:07	WG2406076
(S) 4-Bromofluorobenzene	83.9			67.0-138		11/20/2024 00:07	WG2405418
(S) 4-Bromofluorobenzene	96.8			67.0-138		11/24/2024 13:07	WG2406076
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/20/2024 00:07	WG2405418
(S) 1,2-Dichloroethane-d4	102			70.0-130		11/24/2024 13:07	WG2406076

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/19/2024 23:47	WG2405418
Acrylonitrile	U		0.0760	0.500	1	11/19/2024 23:47	WG2405418
Benzene	U		0.0160	0.0400	1	11/19/2024 23:47	WG2405418
Bromobenzene	U		0.0420	0.500	1	11/24/2024 13:26	WG2406076
Bromochloromethane	U		0.0452	0.200	1	11/19/2024 23:47	WG2405418
Bromodichloromethane	U		0.0315	0.100	1	11/19/2024 23:47	WG2405418
Bromoform	U		0.239	1.00	1	11/19/2024 23:47	WG2405418
Bromomethane	U		0.148	0.500	1	11/19/2024 23:47	WG2405418
n-Butylbenzene	U		0.153	0.500	1	11/24/2024 13:26	WG2406076
sec-Butylbenzene	U		0.101	0.500	1	11/24/2024 13:26	WG2406076
tert-Butylbenzene	U		0.0620	0.200	1	11/24/2024 13:26	WG2406076
Carbon disulfide	U		0.162	0.500	1	11/19/2024 23:47	WG2405418
Carbon tetrachloride	U		0.0432	0.200	1	11/19/2024 23:47	WG2405418
Chlorobenzene	U		0.0229	0.100	1	11/19/2024 23:47	WG2405418
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2024 23:47	WG2405418
Chloroethane	U		0.0432	0.200	1	11/19/2024 23:47	WG2405418
Chloroform	U		0.0166	0.100	1	11/19/2024 23:47	WG2405418
Chloromethane	U	J3	0.0556	0.500	1	11/19/2024 23:47	WG2405418
2-Chlorotoluene	U		0.0368	0.100	1	11/24/2024 13:26	WG2406076
4-Chlorotoluene	U		0.0452	0.200	1	11/24/2024 13:26	WG2406076
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/24/2024 13:26	WG2406076
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2024 23:47	WG2405418
Dibromomethane	U		0.0400	0.200	1	11/19/2024 23:47	WG2405418
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/24/2024 13:26	WG2406076
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/24/2024 13:26	WG2406076
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/24/2024 13:26	WG2406076
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 13:26	WG2406076
Dichlorodifluoromethane	U	UJ C3	0.0327	0.200	1	11/19/2024 23:47	WG2405418
1,1-Dichloroethane	0.381		0.0230	0.100	1	11/19/2024 23:47	WG2405418
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2024 23:47	WG2405418
1,1-Dichloroethene	0.0460	J	0.0200	0.100	1	11/19/2024 23:47	WG2405418
cis-1,2-Dichloroethene	0.564		0.0276	0.100	1	11/24/2024 13:26	WG2406076
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2024 23:47	WG2405418
1,2-Dichloropropane	0.0660	J	0.0508	0.200	1	11/19/2024 23:47	WG2405418
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2024 23:47	WG2405418
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2024 23:47	WG2405418
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2024 23:47	WG2405418
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2024 23:47	WG2405418
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2024 23:47	WG2405418
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2024 23:47	WG2405418
Ethylbenzene	U		0.0212	0.100	1	11/19/2024 23:47	WG2405418
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/24/2024 13:26	WG2406076
2-Hexanone	U		0.400	1.00	1	11/19/2024 23:47	WG2405418
n-Hexane	U		0.0424	0.200	1	11/19/2024 23:47	WG2405418
Iodomethane	U		0.242	0.500	1	11/19/2024 23:47	WG2405418
Isopropylbenzene	U		0.0345	0.100	1	11/19/2024 23:47	WG2405418
p-Isopropyltoluene	U		0.0932	0.200	1	11/24/2024 13:26	WG2406076
2-Butanone (MEK)	U	UJ C3	0.500	1.00	1	11/19/2024 23:47	WG2405418
Methylene Chloride	U		0.265	1.00	1	11/19/2024 23:47	WG2405418
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/19/2024 23:47	WG2405418
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2024 23:47	WG2405418
Naphthalene	U	UJ C3	0.124	0.500	1	11/24/2024 13:26	WG2406076
n-Propylbenzene	U		0.0472	0.200	1	11/24/2024 13:26	WG2406076
Styrene	U		0.109	0.500	1	11/19/2024 23:47	WG2405418
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2024 23:47	WG2405418
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/24/2024 13:26	WG2406076

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	0.176		0.0270	0.100	1	11/19/2024 23:47	WG2405418
Tetrachloroethene	U		0.0280	0.100	1	11/19/2024 23:47	WG2405418
Toluene	U		0.0500	0.200	1	11/19/2024 23:47	WG2405418
1,2,3-Trichlorobenzene	U	UJ CS	0.0250	0.500	1	11/24/2024 13:26	WG2406076
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/24/2024 13:26	WG2406076
1,1,1-Trichloroethane	0.0570	J	0.0110	0.100	1	11/19/2024 23:47	WG2405418
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2024 23:47	WG2405418
Trichloroethene	U		0.0160	0.0400	1	11/19/2024 23:47	WG2405418
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2024 23:47	WG2405418
1,2,3-Trichloropropane	U		0.204	0.500	1	11/24/2024 13:26	WG2406076
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/24/2024 13:26	WG2406076
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/24/2024 13:26	WG2406076
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/24/2024 13:26	WG2406076
Vinyl acetate	U		0.141	0.500	1	11/19/2024 23:47	WG2405418
Vinyl chloride	0.171		0.0273	0.100	1	11/24/2024 13:26	WG2406076
Xylenes, Total	U		0.191	0.260	1	11/19/2024 23:47	WG2405418
(S) Toluene-d8	102			75.0-131		11/19/2024 23:47	WG2405418
(S) Toluene-d8	103			75.0-131		11/24/2024 13:26	WG2406076
(S) 4-Bromofluorobenzene	83.6			67.0-138		11/19/2024 23:47	WG2405418
(S) 4-Bromofluorobenzene	82.5			67.0-138		11/24/2024 13:26	WG2406076
(S) 1,2-Dichloroethane-d4	99.1			70.0-130		11/19/2024 23:47	WG2405418
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/24/2024 13:26	WG2406076

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/19/2024 23:27	WG2405418
Acrylonitrile	U		0.0760	0.500	1	11/19/2024 23:27	WG2405418
Benzene	U		0.0160	0.0400	1	11/19/2024 23:27	WG2405418
Bromobenzene	U		0.0420	0.500	1	11/19/2024 23:27	WG2405418
Bromochloromethane	U		0.0452	0.200	1	11/19/2024 23:27	WG2405418
Bromodichloromethane	U		0.0315	0.100	1	11/19/2024 23:27	WG2405418
Bromoform	U		0.239	1.00	1	11/19/2024 23:27	WG2405418
Bromomethane	U		0.148	0.500	1	11/19/2024 23:27	WG2405418
n-Butylbenzene	U		0.153	0.500	1	11/19/2024 23:27	WG2405418
sec-Butylbenzene	U		0.101	0.500	1	11/19/2024 23:27	WG2405418
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2024 23:27	WG2405418
Carbon disulfide	0.405	U BJ	0.162	0.500	1	11/19/2024 23:27	WG2405418
Carbon tetrachloride	U		0.0432	0.200	1	11/19/2024 23:27	WG2405418
Chlorobenzene	U		0.0229	0.100	1	11/19/2024 23:27	WG2405418
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2024 23:27	WG2405418
Chloroethane	U		0.0432	0.200	1	11/19/2024 23:27	WG2405418
Chloroform	U		0.0166	0.100	1	11/19/2024 23:27	WG2405418
Chloromethane	U	J3	0.0556	0.500	1	11/19/2024 23:27	WG2405418
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2024 23:27	WG2405418
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2024 23:27	WG2405418
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2024 23:27	WG2405418
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2024 23:27	WG2405418
Dibromomethane	U		0.0400	0.200	1	11/19/2024 23:27	WG2405418
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2024 23:27	WG2405418
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2024 23:27	WG2405418
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2024 23:27	WG2405418
trans-1,4-Dichloro-2-butene	U	UJ BJ	0.0560	0.200	1	11/19/2024 23:27	WG2405418
Dichlorodifluoromethane	U	UJ BJ	0.0327	0.200	1	11/19/2024 23:27	WG2405418
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2024 23:27	WG2405418
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2024 23:27	WG2405418
1,1-Dichloroethene	0.372		0.0200	0.100	1	11/19/2024 23:27	WG2405418
cis-1,2-Dichloroethene	194		0.276	1.00	10	11/24/2024 14:05	WG2406076
trans-1,2-Dichloroethene	0.251		0.0572	0.200	1	11/19/2024 23:27	WG2405418
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2024 23:27	WG2405418
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2024 23:27	WG2405418
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2024 23:27	WG2405418
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2024 23:27	WG2405418
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2024 23:27	WG2405418
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2024 23:27	WG2405418
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2024 23:27	WG2405418
Ethylbenzene	U		0.0212	0.100	1	11/19/2024 23:27	WG2405418
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/19/2024 23:27	WG2405418
2-Hexanone	U		0.400	1.00	1	11/19/2024 23:27	WG2405418
n-Hexane	U		0.0424	0.200	1	11/19/2024 23:27	WG2405418
Iodomethane	U		0.242	0.500	1	11/19/2024 23:27	WG2405418
Isopropylbenzene	U		0.0345	0.100	1	11/19/2024 23:27	WG2405418
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2024 23:27	WG2405418
2-Butanone (MEK)	U	UJ CS	0.500	1.00	1	11/19/2024 23:27	WG2405418
Methylene Chloride	U		0.265	1.00	1	11/19/2024 23:27	WG2405418
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/19/2024 23:27	WG2405418
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2024 23:27	WG2405418
Naphthalene	U		0.124	0.500	1	11/19/2024 23:27	WG2405418
n-Propylbenzene	U		0.0472	0.200	1	11/19/2024 23:27	WG2405418
Styrene	U		0.109	0.500	1	11/19/2024 23:27	WG2405418
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2024 23:27	WG2405418
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2024 23:27	WG2405418

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2024 23:27	WG2405418
Tetrachloroethene	U		0.0280	0.100	1	11/19/2024 23:27	WG2405418
Toluene	U		0.0500	0.200	1	11/19/2024 23:27	WG2405418
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2024 23:27	WG2405418
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2024 23:27	WG2405418
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2024 23:27	WG2405418
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2024 23:27	WG2405418
Trichloroethene	0.240	LB	0.0160	0.0400	1	11/19/2024 23:27	WG2405418
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2024 23:27	WG2405418
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2024 23:27	WG2405418
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2024 23:27	WG2405418
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2024 23:27	WG2405418
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2024 23:27	WG2405418
Vinyl acetate	U		0.141	0.500	1	11/19/2024 23:27	WG2405418
Vinyl chloride	92.7		0.273	1.00	10	11/24/2024 14:05	WG2406076
Xylenes, Total	U		0.191	0.260	1	11/19/2024 23:27	WG2405418
(S) Toluene-d8	100			75.0-131		11/19/2024 23:27	WG2405418
(S) Toluene-d8	100			75.0-131		11/24/2024 14:05	WG2406076
(S) 4-Bromofluorobenzene	87.7			67.0-138		11/19/2024 23:27	WG2405418
(S) 4-Bromofluorobenzene	93.5			67.0-138		11/24/2024 14:05	WG2406076
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/19/2024 23:27	WG2405418
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/24/2024 14:05	WG2406076

1

Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

JC 1/7/2025

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/19/2024 23:07	WG2405418
Acrylonitrile	U		0.0760	0.500	1	11/19/2024 23:07	WG2405418
Benzene	U		0.0160	0.0400	1	11/19/2024 23:07	WG2405418
Bromobenzene	U		0.0420	0.500	1	11/19/2024 23:07	WG2405418
Bromochloromethane	U		0.0452	0.200	1	11/19/2024 23:07	WG2405418
Bromodichloromethane	U		0.0315	0.100	1	11/19/2024 23:07	WG2405418
Bromoform	U		0.239	1.00	1	11/19/2024 23:07	WG2405418
Bromomethane	U		0.148	0.500	1	11/19/2024 23:07	WG2405418
n-Butylbenzene	U		0.153	0.500	1	11/19/2024 23:07	WG2405418
sec-Butylbenzene	U		0.101	0.500	1	11/19/2024 23:07	WG2405418
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2024 23:07	WG2405418
Carbon disulfide	U		0.162	0.500	1	11/19/2024 23:07	WG2405418
Carbon tetrachloride	U		0.0432	0.200	1	11/19/2024 23:07	WG2405418
Chlorobenzene	U		0.0229	0.100	1	11/19/2024 23:07	WG2405418
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2024 23:07	WG2405418
Chloroethane	U		0.0432	0.200	1	11/19/2024 23:07	WG2405418
Chloroform	U		0.0166	0.100	1	11/19/2024 23:07	WG2405418
Chloromethane	U	J3	0.0556	0.500	1	11/19/2024 23:07	WG2405418
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2024 23:07	WG2405418
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2024 23:07	WG2405418
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2024 23:07	WG2405418
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2024 23:07	WG2405418
Dibromomethane	U		0.0400	0.200	1	11/19/2024 23:07	WG2405418
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2024 23:07	WG2405418
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2024 23:07	WG2405418
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2024 23:07	WG2405418
trans-1,4-Dichloro-2-butene	U	UJ	0.0560	0.200	1	11/19/2024 23:07	WG2405418
Dichlorodifluoromethane	U	UJ	0.0327	0.200	1	11/19/2024 23:07	WG2405418
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2024 23:07	WG2405418
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2024 23:07	WG2405418
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2024 23:07	WG2405418
cis-1,2-Dichloroethene	0.161		0.0276	0.100	1	11/19/2024 23:07	WG2405418
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2024 23:07	WG2405418
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2024 23:07	WG2405418
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2024 23:07	WG2405418
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2024 23:07	WG2405418
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2024 23:07	WG2405418
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2024 23:07	WG2405418
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2024 23:07	WG2405418
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2024 23:07	WG2405418
Ethylbenzene	U		0.0212	0.100	1	11/19/2024 23:07	WG2405418
Hexachloro-1,3-butadiene	U	UJ	0.508	1.00	1	11/19/2024 23:07	WG2405418
2-Hexanone	U		0.400	1.00	1	11/19/2024 23:07	WG2405418
n-Hexane	U		0.0424	0.200	1	11/19/2024 23:07	WG2405418
Iodomethane	U		0.242	0.500	1	11/19/2024 23:07	WG2405418
Isopropylbenzene	U		0.0345	0.100	1	11/19/2024 23:07	WG2405418
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2024 23:07	WG2405418
2-Butanone (MEK)	U	UJ	0.500	1.00	1	11/19/2024 23:07	WG2405418
Methylene Chloride	U		0.265	1.00	1	11/19/2024 23:07	WG2405418
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/19/2024 23:07	WG2405418
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2024 23:07	WG2405418
Naphthalene	U		0.124	0.500	1	11/19/2024 23:07	WG2405418
n-Propylbenzene	U		0.0472	0.200	1	11/19/2024 23:07	WG2405418
Styrene	U		0.109	0.500	1	11/19/2024 23:07	WG2405418
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2024 23:07	WG2405418
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2024 23:07	WG2405418

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2024 23:07	WG2405418
Tetrachloroethene	U		0.0280	0.100	1	11/19/2024 23:07	WG2405418
Toluene	U		0.0500	0.200	1	11/19/2024 23:07	WG2405418
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2024 23:07	WG2405418
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2024 23:07	WG2405418
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2024 23:07	WG2405418
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2024 23:07	WG2405418
Trichloroethene	0.0830	B	0.0160	0.0400	1	11/19/2024 23:07	WG2405418
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2024 23:07	WG2405418
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2024 23:07	WG2405418
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2024 23:07	WG2405418
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2024 23:07	WG2405418
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2024 23:07	WG2405418
Vinyl acetate	U		0.141	0.500	1	11/19/2024 23:07	WG2405418
Vinyl chloride	0.220		0.0273	0.100	1	11/19/2024 23:07	WG2405418
Xylenes, Total	U		0.191	0.260	1	11/19/2024 23:07	WG2405418
(S) Toluene-d8	99.9			75.0-131		11/19/2024 23:07	WG2405418
(S) 4-Bromofluorobenzene	89.9			67.0-138		11/19/2024 23:07	WG2405418
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/19/2024 23:07	WG2405418

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	UJ C3	0.548	1.00	1	11/20/2024 21:24	WG2405389
Acrylonitrile	U	UJ C3	0.0760	0.500	1	11/20/2024 21:24	WG2405389
Benzene	0.0310	J	0.0160	0.0400	1	11/20/2024 21:24	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 21:24	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 21:24	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 21:24	WG2405389
Bromoform	U	UJ C3	0.239	1.00	1	11/20/2024 21:24	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 21:24	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 21:24	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 21:24	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 21:24	WG2405389
Carbon disulfide	U	UJ C3	0.162	0.500	1	11/20/2024 21:24	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 21:24	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 21:24	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 21:24	WG2405389
Chloroethane	U		0.0432	0.200	1	11/20/2024 21:24	WG2405389
Chloroform	U		0.0166	0.100	1	11/20/2024 21:24	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 21:24	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 21:24	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 21:24	WG2405389
1,2-Dibromo-3-Chloropropane	U	UJ C3	0.204	1.00	1	11/20/2024 21:24	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 21:24	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 21:24	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 21:24	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 21:24	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 21:24	WG2405389
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 17:16	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 21:24	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 21:24	WG2405389
1,2-Dichloroethane	0.0250	J	0.0190	0.100	1	11/20/2024 21:24	WG2405389
1,1-Dichloroethene	U		0.0200	0.100	1	11/20/2024 21:24	WG2405389
cis-1,2-Dichloroethene	17.8		0.0276	0.100	1	11/20/2024 21:24	WG2405389
trans-1,2-Dichloroethene	0.211		0.0572	0.200	1	11/20/2024 21:24	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 21:24	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 21:24	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 21:24	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 21:24	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 21:24	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 21:24	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 21:24	WG2405389
Ethylbenzene	U		0.0212	0.100	1	11/20/2024 21:24	WG2405389
Hexachloro-1,3-butadiene	U	UJ C3	0.508	1.00	1	11/20/2024 21:24	WG2405389
2-Hexanone	U	UJ C3	0.400	1.00	1	11/20/2024 21:24	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 21:24	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 21:24	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 21:24	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 21:24	WG2405389
2-Butanone (MEK)	U	UJ C3	0.500	1.00	1	11/20/2024 21:24	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 21:24	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 21:24	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 21:24	WG2405389
Naphthalene	U		0.124	0.500	1	11/20/2024 21:24	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 21:24	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 21:24	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 21:24	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 21:24	WG2405389

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 12/9/2024

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 21:24	WG2405389
Tetrachloroethene	2.73		0.0280	0.100	1	11/20/2024 21:24	WG2405389
Toluene	U		0.0500	0.200	1	11/20/2024 21:24	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 21:24	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 21:24	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 21:24	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 21:24	WG2405389
Trichloroethene	6.36		0.0160	0.0400	1	11/20/2024 21:24	WG2405389
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 21:24	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 21:24	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 21:24	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 21:24	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 21:24	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 21:24	WG2405389
Vinyl chloride	U		0.0273	0.100	1	11/20/2024 21:24	WG2405389
Xylenes, Total	U		0.191	0.260	1	11/20/2024 21:24	WG2405389
(S) Toluene-d8	99.6			75.0-131		11/20/2024 21:24	WG2405389
(S) Toluene-d8	102			75.0-131		11/24/2024 17:16	WG2406846
(S) 4-Bromofluorobenzene	88.9			67.0-138		11/20/2024 21:24	WG2405389
(S) 4-Bromofluorobenzene	95.1			67.0-138		11/24/2024 17:16	WG2406846
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/20/2024 21:24	WG2405389
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/24/2024 17:16	WG2406846

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

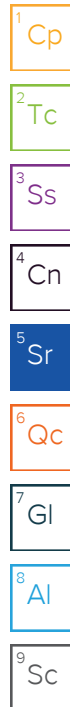
JC 12/9/2024

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
	ug/l		ug/l	ug/l		date / time		
Acetone	U	UJ	C3	0.548	1.00	1	11/20/2024 21:43	WG2405389
Acrylonitrile	U	UJ	C3	0.0760	0.500	1	11/20/2024 21:43	WG2405389
Benzene	U			0.0160	0.0400	1	11/20/2024 21:43	WG2405389
Bromobenzene	U			0.0420	0.500	1	11/20/2024 21:43	WG2405389
Bromochloromethane	U			0.0452	0.200	1	11/20/2024 21:43	WG2405389
Bromodichloromethane	U			0.0315	0.100	1	11/20/2024 21:43	WG2405389
Bromoform	U	UJ	C3	0.239	1.00	1	11/20/2024 21:43	WG2405389
Bromomethane	U			0.148	0.500	1	11/20/2024 21:43	WG2405389
n-Butylbenzene	U			0.153	0.500	1	11/20/2024 21:43	WG2405389
sec-Butylbenzene	U			0.101	0.500	1	11/20/2024 21:43	WG2405389
tert-Butylbenzene	U			0.0620	0.200	1	11/20/2024 21:43	WG2405389
Carbon disulfide	0.186	J	C3 J	0.162	0.500	1	11/20/2024 21:43	WG2405389
Carbon tetrachloride	U			0.0432	0.200	1	11/20/2024 21:43	WG2405389
Chlorobenzene	U			0.0229	0.100	1	11/20/2024 21:43	WG2405389
Chlorodibromomethane	U			0.0180	0.100	1	11/20/2024 21:43	WG2405389
Chloroethane	U			0.0432	0.200	1	11/20/2024 21:43	WG2405389
Chloroform	U			0.0166	0.100	1	11/20/2024 21:43	WG2405389
Chloromethane	U			0.0556	0.500	1	11/20/2024 21:43	WG2405389
2-Chlorotoluene	U			0.0368	0.100	1	11/20/2024 21:43	WG2405389
4-Chlorotoluene	U			0.0452	0.200	1	11/20/2024 21:43	WG2405389
1,2-Dibromo-3-Chloropropane	U	UJ	C3	0.204	1.00	1	11/20/2024 21:43	WG2405389
1,2-Dibromoethane	U			0.0210	0.100	1	11/20/2024 21:43	WG2405389
Dibromomethane	U			0.0400	0.200	1	11/20/2024 21:43	WG2405389
1,2-Dichlorobenzene	U			0.0580	0.200	1	11/20/2024 21:43	WG2405389
1,3-Dichlorobenzene	U			0.0680	0.200	1	11/20/2024 21:43	WG2405389
1,4-Dichlorobenzene	U			0.0788	0.200	1	11/20/2024 21:43	WG2405389
trans-1,4-Dichloro-2-butene	U			0.0560	0.200	1	11/24/2024 17:35	WG2406846
Dichlorodifluoromethane	U			0.0327	0.200	1	11/20/2024 21:43	WG2405389
1,1-Dichloroethane	U			0.0230	0.100	1	11/20/2024 21:43	WG2405389
1,2-Dichloroethane	0.561			0.0190	0.100	1	11/20/2024 21:43	WG2405389
1,1-Dichloroethene	U			0.0200	0.100	1	11/20/2024 21:43	WG2405389
cis-1,2-Dichloroethene	U			0.0276	0.100	1	11/20/2024 21:43	WG2405389
trans-1,2-Dichloroethene	U			0.0572	0.200	1	11/20/2024 21:43	WG2405389
1,2-Dichloropropane	U			0.0508	0.200	1	11/20/2024 21:43	WG2405389
1,1-Dichloropropene	U			0.0280	0.100	1	11/20/2024 21:43	WG2405389
1,3-Dichloropropane	U			0.0700	0.200	1	11/20/2024 21:43	WG2405389
cis-1,3-Dichloropropene	0.0330		J	0.0271	0.100	1	11/20/2024 21:43	WG2405389
trans-1,3-Dichloropropene	U			0.0612	0.200	1	11/20/2024 21:43	WG2405389
2,2-Dichloropropane	U			0.0317	0.100	1	11/20/2024 21:43	WG2405389
Di-isopropyl ether	U			0.0140	0.0400	1	11/20/2024 21:43	WG2405389
Ethylbenzene	0.0400		J	0.0212	0.100	1	11/20/2024 21:43	WG2405389
Hexachloro-1,3-butadiene	U	UJ	C3	0.508	1.00	1	11/20/2024 21:43	WG2405389
2-Hexanone	U	UJ	C3	0.400	1.00	1	11/20/2024 21:43	WG2405389
n-Hexane	U			0.0424	0.200	1	11/20/2024 21:43	WG2405389
Iodomethane	U			0.242	0.500	1	11/20/2024 21:43	WG2405389
Isopropylbenzene	U			0.0345	0.100	1	11/20/2024 21:43	WG2405389
p-Isopropyltoluene	U			0.0932	0.200	1	11/20/2024 21:43	WG2405389
2-Butanone (MEK)	U	UJ	C3	0.500	1.00	1	11/20/2024 21:43	WG2405389
Methylene Chloride	U			0.265	1.00	1	11/20/2024 21:43	WG2405389
4-Methyl-2-pentanone (MIBK)	U			0.400	1.00	1	11/20/2024 21:43	WG2405389
Methyl tert-butyl ether	U			0.0118	0.0400	1	11/20/2024 21:43	WG2405389
Naphthalene	U			0.124	0.500	1	11/20/2024 21:43	WG2405389
n-Propylbenzene	U			0.0472	0.200	1	11/20/2024 21:43	WG2405389
Styrene	U			0.109	0.500	1	11/20/2024 21:43	WG2405389
1,1,1,2-Tetrachloroethane	U			0.0200	0.100	1	11/20/2024 21:43	WG2405389
1,1,2,2-Tetrachloroethane	U			0.0156	0.100	1	11/20/2024 21:43	WG2405389

JC 1/7/2025

JC 1/7/2025



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 21:43	WG2405389
Tetrachloroethene	U		0.0280	0.100	1	11/20/2024 21:43	WG2405389
Toluene	U		0.0500	0.200	1	11/20/2024 21:43	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 21:43	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 21:43	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 21:43	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 21:43	WG2405389
Trichloroethene	0.0270	J	0.0160	0.0400	1	11/20/2024 21:43	WG2405389
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 21:43	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 21:43	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 21:43	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 21:43	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 21:43	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 21:43	WG2405389
Vinyl chloride	U		0.0273	0.100	1	11/20/2024 21:43	WG2405389
Xylenes, Total	0.254	J	0.191	0.260	1	11/20/2024 21:43	WG2405389
(S) Toluene-d8	96.8			75.0-131		11/20/2024 21:43	WG2405389
(S) Toluene-d8	103			75.0-131		11/24/2024 17:35	WG2406846
(S) 4-Bromofluorobenzene	91.3			67.0-138		11/20/2024 21:43	WG2405389
(S) 4-Bromofluorobenzene	96.1			67.0-138		11/24/2024 17:35	WG2406846
(S) 1,2-Dichloroethane-d4	112			70.0-130		11/20/2024 21:43	WG2405389
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/24/2024 17:35	WG2406846

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	UJ	0.548	1.00	1	11/20/2024 22:02	WG2405389
Acrylonitrile	U	UJ	0.0760	0.500	1	11/20/2024 22:02	WG2405389
Benzene	U		0.0160	0.0400	1	11/20/2024 22:02	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 22:02	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 22:02	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 22:02	WG2405389
Bromoform	U	UJ	0.239	1.00	1	11/20/2024 22:02	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 22:02	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 22:02	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 22:02	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 22:02	WG2405389
Carbon disulfide	0.202	J	0.162	0.500	1	11/20/2024 22:02	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 22:02	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 22:02	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 22:02	WG2405389
Chloroethane	U		0.0432	0.200	1	11/20/2024 22:02	WG2405389
Chloroform	U		0.0166	0.100	1	11/20/2024 22:02	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 22:02	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 22:02	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 22:02	WG2405389
1,2-Dibromo-3-Chloropropane	U	UJ	0.204	1.00	1	11/20/2024 22:02	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 22:02	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 22:02	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 22:02	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 22:02	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 22:02	WG2405389
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 17:54	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 22:02	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 22:02	WG2405389
1,2-Dichloroethane	U		0.0190	0.100	1	11/20/2024 22:02	WG2405389
1,1-Dichloroethene	U		0.0200	0.100	1	11/20/2024 22:02	WG2405389
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/20/2024 22:02	WG2405389
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/20/2024 22:02	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 22:02	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 22:02	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 22:02	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 22:02	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 22:02	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 22:02	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 22:02	WG2405389
Ethylbenzene	0.0300		0.0212	0.100	1	11/20/2024 22:02	WG2405389
Hexachloro-1,3-butadiene	U	UJ	0.508	1.00	1	11/20/2024 22:02	WG2405389
2-Hexanone	U	UJ	0.400	1.00	1	11/20/2024 22:02	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 22:02	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 22:02	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 22:02	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 22:02	WG2405389
2-Butanone (MEK)	U	UJ	0.500	1.00	1	11/20/2024 22:02	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 22:02	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 22:02	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 22:02	WG2405389
Naphthalene	U		0.124	0.500	1	11/20/2024 22:02	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 22:02	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 22:02	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 22:02	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 22:02	WG2405389

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 22:02	WG2405389
Tetrachloroethene	U		0.0280	0.100	1	11/20/2024 22:02	WG2405389
Toluene	U		0.0500	0.200	1	11/20/2024 22:02	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 22:02	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 22:02	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 22:02	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 22:02	WG2405389
Trichloroethene	U		0.0160	0.0400	1	11/20/2024 22:02	WG2405389
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 22:02	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 22:02	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 22:02	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 22:02	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 22:02	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 22:02	WG2405389
Vinyl chloride	U		0.0273	0.100	1	11/20/2024 22:02	WG2405389
Xylenes, Total	0.214	J	0.191	0.260	1	11/20/2024 22:02	WG2405389
(S) Toluene-d8	98.1			75.0-131		11/20/2024 22:02	WG2405389
(S) Toluene-d8	101			75.0-131		11/24/2024 17:54	WG2406846
(S) 4-Bromofluorobenzene	88.3			67.0-138		11/20/2024 22:02	WG2405389
(S) 4-Bromofluorobenzene	97.8			67.0-138		11/24/2024 17:54	WG2406846
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/20/2024 22:02	WG2405389
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/24/2024 17:54	WG2406846

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

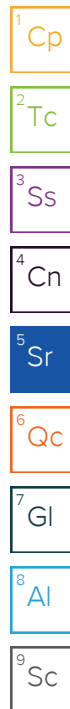
9Sc

JC 1/7/2025

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	UJ C3	0.548	1.00	1	11/20/2024 22:22	WG2405389
Acrylonitrile	U	UJ C3	0.0760	0.500	1	11/20/2024 22:22	WG2405389
Benzene	U		0.0160	0.0400	1	11/20/2024 22:22	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 22:22	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 22:22	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 22:22	WG2405389
Bromoform	U	UJ C3	0.239	1.00	1	11/20/2024 22:22	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 22:22	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 22:22	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 22:22	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 22:22	WG2405389
Carbon disulfide	0.203	J -C3 J	0.162	0.500	1	11/20/2024 22:22	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 22:22	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 22:22	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 22:22	WG2405389
Chloroethane	U		0.0432	0.200	1	11/20/2024 22:22	WG2405389
Chloroform	U		0.0166	0.100	1	11/20/2024 22:22	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 22:22	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 22:22	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 22:22	WG2405389
1,2-Dibromo-3-Chloropropane	U	UJ C3	0.204	1.00	1	11/20/2024 22:22	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 22:22	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 22:22	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 22:22	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 22:22	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 22:22	WG2405389
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 18:13	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 22:22	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 22:22	WG2405389
1,2-Dichloroethane	U		0.0190	0.100	1	11/20/2024 22:22	WG2405389
1,1-Dichloroethene	U		0.0200	0.100	1	11/20/2024 22:22	WG2405389
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/20/2024 22:22	WG2405389
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/20/2024 22:22	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 22:22	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 22:22	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 22:22	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 22:22	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 22:22	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 22:22	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 22:22	WG2405389
Ethylbenzene	U		0.0212	0.100	1	11/20/2024 22:22	WG2405389
Hexachloro-1,3-butadiene	U	UJ C3	0.508	1.00	1	11/20/2024 22:22	WG2405389
2-Hexanone	U	UJ C3	0.400	1.00	1	11/20/2024 22:22	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 22:22	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 22:22	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 22:22	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 22:22	WG2405389
2-Butanone (MEK)	U	UJ C3	0.500	1.00	1	11/20/2024 22:22	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 22:22	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 22:22	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 22:22	WG2405389
Naphthalene	U		0.124	0.500	1	11/20/2024 22:22	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 22:22	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 22:22	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 22:22	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 22:22	WG2405389

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 22:22	WG2405389
Tetrachloroethene	U		0.0280	0.100	1	11/20/2024 22:22	WG2405389
Toluene	U		0.0500	0.200	1	11/20/2024 22:22	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 22:22	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 22:22	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 22:22	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 22:22	WG2405389
Trichloroethene	U		0.0160	0.0400	1	11/20/2024 22:22	WG2405389
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 22:22	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 22:22	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 22:22	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 22:22	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 22:22	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 22:22	WG2405389
Vinyl chloride	U		0.0273	0.100	1	11/20/2024 22:22	WG2405389
Xylenes, Total	U		0.191	0.260	1	11/20/2024 22:22	WG2405389
(S) Toluene-d8	95.7			75.0-131		11/20/2024 22:22	WG2405389
(S) Toluene-d8	103			75.0-131		11/24/2024 18:13	WG2406846
(S) 4-Bromofluorobenzene	88.4			67.0-138		11/20/2024 22:22	WG2405389
(S) 4-Bromofluorobenzene	92.1			67.0-138		11/24/2024 18:13	WG2406846
(S) 1,2-Dichloroethane-d4	112			70.0-130		11/20/2024 22:22	WG2405389
(S) 1,2-Dichloroethane-d4	101			70.0-130		11/24/2024 18:13	WG2406846

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	323000		4750	20000	1	11/18/2024 12:28	WG2403590

Sample Narrative:

L1799514-04 WG2403590: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	26300		547	1000	1	11/15/2024 04:14	WG2401790
Nitrate as (N)	U		88.4	100	1	11/15/2024 04:14	WG2401790
Sulfate	127000		637	5000	1	11/15/2024 04:14	WG2401790

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2890		495	1000	1	11/18/2024 19:07	WG2403655

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	10500		452	2000	20	11/22/2024 23:15	WG2404355
Manganese	4850		14.0	100	20	11/22/2024 23:15	WG2404355

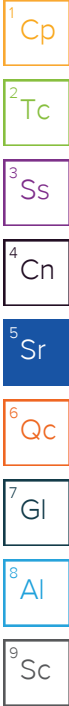
Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	25800		2.87	6.78	10	11/18/2024 12:40	WG2403774
Ethane	U		0.296	1.29	1	11/17/2024 21:02	WG2403060
Ethene	U		0.422	1.27	1	11/17/2024 21:02	WG2403060

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	UJ 	0.548	1.00	1	11/20/2024 22:41	WG2405389
Acrylonitrile	U	UJ 	0.0760	0.500	1	11/20/2024 22:41	WG2405389
Benzene	0.0960		0.0160	0.0400	1	11/20/2024 22:41	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 22:41	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 22:41	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 22:41	WG2405389
Bromoform	U	UJ 	0.239	1.00	1	11/20/2024 22:41	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 22:41	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 22:41	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 22:41	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 22:41	WG2405389
Carbon disulfide	U	UJ 	0.162	0.500	1	11/20/2024 22:41	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 22:41	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 22:41	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 22:41	WG2405389
Chloroethane	U		0.0432	0.200	1	11/20/2024 22:41	WG2405389
Chloroform	U		0.0166	0.100	1	11/20/2024 22:41	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 22:41	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 22:41	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 22:41	WG2405389

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U	UJ CS	0.204	1.00	1	11/20/2024 22:41	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 22:41	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 22:41	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 22:41	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 22:41	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 22:41	WG2405389
trans-1,4-Dichloro-2-butene	U		0.560	2.00	10	11/24/2024 19:49	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 22:41	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 22:41	WG2405389
1,2-Dichloroethane	U		0.0190	0.100	1	11/20/2024 22:41	WG2405389
1,1-Dichloroethene	0.609		0.0200	0.100	1	11/20/2024 22:41	WG2405389
cis-1,2-Dichloroethene	186		0.276	1.00	10	11/24/2024 19:49	WG2406846
trans-1,2-Dichloroethene	0.734		0.0572	0.200	1	11/20/2024 22:41	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 22:41	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 22:41	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 22:41	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 22:41	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 22:41	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 22:41	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 22:41	WG2405389
Ethylbenzene	U		0.0212	0.100	1	11/20/2024 22:41	WG2405389
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/20/2024 22:41	WG2405389
2-Hexanone	U	UJ CS	0.400	1.00	1	11/20/2024 22:41	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 22:41	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 22:41	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 22:41	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 22:41	WG2405389
2-Butanone (MEK)	U	UJ CS	0.500	1.00	1	11/20/2024 22:41	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 22:41	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 22:41	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 22:41	WG2405389
Naphthalene	U		0.124	0.500	1	11/20/2024 22:41	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 22:41	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 22:41	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 22:41	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 22:41	WG2405389
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 22:41	WG2405389
Tetrachloroethene	12.6		0.0280	0.100	1	11/20/2024 22:41	WG2405389
Toluene	U		0.0500	0.200	1	11/20/2024 22:41	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 22:41	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 22:41	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 22:41	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 22:41	WG2405389
Trichloroethene	32.2		0.0160	0.0400	1	11/20/2024 22:41	WG2405389
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 22:41	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 22:41	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 22:41	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 22:41	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 22:41	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 22:41	WG2405389
Vinyl chloride	1.67		0.0273	0.100	1	11/20/2024 22:41	WG2405389
Xylenes, Total	U		0.191	0.260	1	11/20/2024 22:41	WG2405389
(S) Toluene-d8	97.9			75.0-131		11/20/2024 22:41	WG2405389
(S) Toluene-d8	101			75.0-131		11/24/2024 19:49	WG2406846
(S) 4-Bromofluorobenzene	91.2			67.0-138		11/20/2024 22:41	WG2405389
(S) 4-Bromofluorobenzene	93.2			67.0-138		11/24/2024 19:49	WG2406846

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1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	113			70.0-130		11/20/2024 22:41	WG2405389
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/24/2024 19:49	WG2406846

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	93400		4750	20000	1	11/18/2024 12:34	WG2403590

Sample Narrative:
L1799514-05 WG2403590: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	5650		547	1000	1	11/15/2024 04:32	WG2401790
Nitrate as (N)	317		88.4	100	1	11/15/2024 04:32	WG2401790
Sulfate	6760		637	5000	1	11/15/2024 04:32	WG2401790

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1690		495	1000	1	11/18/2024 20:02	WG2403655

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2390		22.6	100	1	11/22/2024 21:42	WG2404355
Manganese	326		0.700	5.00	1	11/22/2024 21:42	WG2404355

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	907		0.287	0.678	1	11/17/2024 22:23	WG2403060
Ethane	U		0.296	1.29	1	11/17/2024 22:23	WG2403060
Ethene	U		0.422	1.27	1	11/17/2024 22:23	WG2403060

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ 	0.548	1.00	1	11/20/2024 23:00	WG2405389
Acrylonitrile	U	UJ 	0.0760	0.500	1	11/20/2024 23:00	WG2405389
Benzene	U		0.0160	0.0400	1	11/20/2024 23:00	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 23:00	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 23:00	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 23:00	WG2405389
Bromoform	U	UJ 	0.239	1.00	1	11/20/2024 23:00	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 23:00	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 23:00	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 23:00	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 23:00	WG2405389
Carbon disulfide	U	UJ 	0.162	0.500	1	11/20/2024 23:00	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 23:00	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 23:00	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 23:00	WG2405389
Chloroethane	U		0.0432	0.200	1	11/20/2024 23:00	WG2405389
Chloroform	0.162		0.0166	0.100	1	11/20/2024 23:00	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 23:00	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 23:00	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 23:00	WG2405389

JC 1/7/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

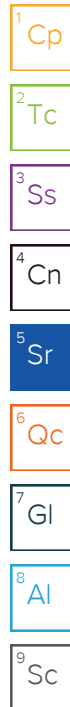
7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U	UJ ES	0.204	1.00	1	11/20/2024 23:00	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 23:00	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 23:00	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 23:00	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 23:00	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 23:00	WG2405389
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 18:32	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 23:00	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 23:00	WG2405389
1,2-Dichloroethane	U		0.0190	0.100	1	11/20/2024 23:00	WG2405389
1,1-Dichloroethene	U		0.0200	0.100	1	11/20/2024 23:00	WG2405389
cis-1,2-Dichloroethene	0.190		0.0276	0.100	1	11/24/2024 18:32	WG2406846
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/20/2024 23:00	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 23:00	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 23:00	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 23:00	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 23:00	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 23:00	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 23:00	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 23:00	WG2405389
Ethylbenzene	U		0.0212	0.100	1	11/20/2024 23:00	WG2405389
Hexachloro-1,3-butadiene	U	UJ ES	0.508	1.00	1	11/20/2024 23:00	WG2405389
2-Hexanone	U	UJ ES	0.400	1.00	1	11/20/2024 23:00	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 23:00	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 23:00	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 23:00	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 23:00	WG2405389
2-Butanone (MEK)	U	UJ ES	0.500	1.00	1	11/20/2024 23:00	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 23:00	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 23:00	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 23:00	WG2405389
Naphthalene	U		0.124	0.500	1	11/20/2024 23:00	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 23:00	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 23:00	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 23:00	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 23:00	WG2405389
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 23:00	WG2405389
Tetrachloroethene	0.483		0.0280	0.100	1	11/20/2024 23:00	WG2405389
Toluene	U		0.0500	0.200	1	11/20/2024 23:00	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 23:00	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 23:00	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 23:00	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 23:00	WG2405389
Trichloroethene	0.280		0.0160	0.0400	1	11/20/2024 23:00	WG2405389
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 23:00	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 23:00	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 23:00	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 23:00	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 23:00	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 23:00	WG2405389
Vinyl chloride	U		0.0273	0.100	1	11/20/2024 23:00	WG2405389
Xylenes, Total	U		0.191	0.260	1	11/20/2024 23:00	WG2405389
(S) Toluene-d8	97.6			75.0-131		11/20/2024 23:00	WG2405389
(S) Toluene-d8	101			75.0-131		11/24/2024 18:32	WG2406846
(S) 4-Bromofluorobenzene	88.7			67.0-138		11/20/2024 23:00	WG2405389
(S) 4-Bromofluorobenzene	94.6			67.0-138		11/24/2024 18:32	WG2406846



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/20/2024 23:00	WG2405389
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/24/2024 18:32	WG2406846

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	UJ CS	0.548	1.00	1	11/20/2024 23:19	WG2405389
Acrylonitrile	U	UJ CS	0.0760	0.500	1	11/20/2024 23:19	WG2405389
Benzene	U		0.0160	0.0400	1	11/20/2024 23:19	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 23:19	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 23:19	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 23:19	WG2405389
Bromoform	U	UJ CS	0.239	1.00	1	11/20/2024 23:19	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 23:19	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 23:19	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 23:19	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 23:19	WG2405389
Carbon disulfide	U	UJ CS	0.162	0.500	1	11/20/2024 23:19	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 23:19	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 23:19	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 23:19	WG2405389
Chloroethane	U		0.0432	0.200	1	11/20/2024 23:19	WG2405389
Chloroform	U		0.0166	0.100	1	11/20/2024 23:19	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 23:19	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 23:19	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 23:19	WG2405389
1,2-Dibromo-3-Chloropropane	U	UJ CS	0.204	1.00	1	11/20/2024 23:19	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 23:19	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 23:19	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 23:19	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 23:19	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 23:19	WG2405389
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 18:51	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 23:19	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 23:19	WG2405389
1,2-Dichloroethane	U		0.0190	0.100	1	11/20/2024 23:19	WG2405389
1,1-Dichloroethene	U		0.0200	0.100	1	11/20/2024 23:19	WG2405389
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/24/2024 18:51	WG2406846
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/20/2024 23:19	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 23:19	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 23:19	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 23:19	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 23:19	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 23:19	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 23:19	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 23:19	WG2405389
Ethylbenzene	U		0.0212	0.100	1	11/20/2024 23:19	WG2405389
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/20/2024 23:19	WG2405389
2-Hexanone	U	UJ CS	0.400	1.00	1	11/20/2024 23:19	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 23:19	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 23:19	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 23:19	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 23:19	WG2405389
2-Butanone (MEK)	U	UJ CS	0.500	1.00	1	11/20/2024 23:19	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 23:19	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 23:19	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 23:19	WG2405389
Naphthalene	U		0.124	0.500	1	11/20/2024 23:19	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 23:19	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 23:19	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 23:19	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 23:19	WG2405389

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 23:19	WG2405389
Tetrachloroethene	U		0.0280	0.100	1	11/20/2024 23:19	WG2405389
Toluene	U		0.0500	0.200	1	11/20/2024 23:19	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 23:19	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 23:19	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 23:19	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 23:19	WG2405389
Trichloroethene	U		0.0160	0.0400	1	11/20/2024 23:19	WG2405389
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 23:19	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 23:19	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 23:19	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 23:19	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 23:19	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 23:19	WG2405389
Vinyl chloride	U		0.0273	0.100	1	11/20/2024 23:19	WG2405389
Xylenes, Total	U		0.191	0.260	1	11/20/2024 23:19	WG2405389
(S) Toluene-d8	97.9			75.0-131		11/20/2024 23:19	WG2405389
(S) Toluene-d8	103			75.0-131		11/24/2024 18:51	WG2406846
(S) 4-Bromofluorobenzene	89.1			67.0-138		11/20/2024 23:19	WG2405389
(S) 4-Bromofluorobenzene	92.3			67.0-138		11/24/2024 18:51	WG2406846
(S) 1,2-Dichloroethane-d4	114			70.0-130		11/20/2024 23:19	WG2405389
(S) 1,2-Dichloroethane-d4	102			70.0-130		11/24/2024 18:51	WG2406846

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	UJ C3	0.548	1.00	1	11/20/2024 23:39	WG2405389
Acrylonitrile	U	UJ C3	0.0760	0.500	1	11/20/2024 23:39	WG2405389
Benzene	U		0.0160	0.0400	1	11/20/2024 23:39	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 23:39	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 23:39	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 23:39	WG2405389
Bromoform	U	UJ C3	0.239	1.00	1	11/20/2024 23:39	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 23:39	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 23:39	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 23:39	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 23:39	WG2405389
Carbon disulfide	U	UJ C3	0.162	0.500	1	11/20/2024 23:39	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 23:39	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 23:39	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 23:39	WG2405389
Chloroethane	U		0.0432	0.200	1	11/20/2024 23:39	WG2405389
Chloroform	U		0.0166	0.100	1	11/20/2024 23:39	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 23:39	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 23:39	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 23:39	WG2405389
1,2-Dibromo-3-Chloropropane	U	UJ C3	0.204	1.00	1	11/20/2024 23:39	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 23:39	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 23:39	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 23:39	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 23:39	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 23:39	WG2405389
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 19:11	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 23:39	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 23:39	WG2405389
1,2-Dichloroethane	0.549		0.0190	0.100	1	11/20/2024 23:39	WG2405389
1,1-Dichloroethene	0.601		0.0200	0.100	1	11/20/2024 23:39	WG2405389
cis-1,2-Dichloroethene	4.84		0.0276	0.100	1	11/20/2024 23:39	WG2405389
trans-1,2-Dichloroethene	0.114	J	0.0572	0.200	1	11/20/2024 23:39	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 23:39	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 23:39	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 23:39	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 23:39	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 23:39	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 23:39	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 23:39	WG2405389
Ethylbenzene	0.0520	J	0.0212	0.100	1	11/20/2024 23:39	WG2405389
Hexachloro-1,3-butadiene	U	UJ C3	0.508	1.00	1	11/20/2024 23:39	WG2405389
2-Hexanone	U	UJ C3	0.400	1.00	1	11/20/2024 23:39	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 23:39	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 23:39	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 23:39	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 23:39	WG2405389
2-Butanone (MEK)	U	UJ C3	0.500	1.00	1	11/20/2024 23:39	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 23:39	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 23:39	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 23:39	WG2405389
Naphthalene	U		0.124	0.500	1	11/20/2024 23:39	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 23:39	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 23:39	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 23:39	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 23:39	WG2405389

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 23:39	WG2405389
Tetrachloroethene	U		0.0280	0.100	1	11/20/2024 23:39	WG2405389
Toluene	U		0.0500	0.200	1	11/20/2024 23:39	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 23:39	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 23:39	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 23:39	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 23:39	WG2405389
Trichloroethene	0.0690		0.0160	0.0400	1	11/20/2024 23:39	WG2405389
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 23:39	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 23:39	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 23:39	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 23:39	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 23:39	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 23:39	WG2405389
Vinyl chloride	1.94		0.0273	0.100	1	11/20/2024 23:39	WG2405389
Xylenes, Total	0.233	J	0.191	0.260	1	11/20/2024 23:39	WG2405389
(S) Toluene-d8	97.1			75.0-131		11/20/2024 23:39	WG2405389
(S) Toluene-d8	102			75.0-131		11/24/2024 19:11	WG2406846
(S) 4-Bromofluorobenzene	91.9			67.0-138		11/20/2024 23:39	WG2405389
(S) 4-Bromofluorobenzene	93.4			67.0-138		11/24/2024 19:11	WG2406846
(S) 1,2-Dichloroethane-d4	112			70.0-130		11/20/2024 23:39	WG2405389
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/24/2024 19:11	WG2406846

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	702000		4750	20000	1	11/18/2024 12:40	WG2403590

Sample Narrative:
L1799514-08 WG2403590: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	365000		2740	5000	5	11/15/2024 09:32	WG2401790
Nitrate as (N)	U		88.4	100	1	11/15/2024 04:49	WG2401790
Sulfate	795	J	637	5000	1	11/15/2024 04:49	WG2401790

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	28000		495	1000	1	11/18/2024 21:05	WG2403655

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	18800		226	1000	10	11/22/2024 23:18	WG2404355
Manganese	3100		7.00	50.0	10	11/22/2024 23:18	WG2404355

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	26700		2.87	6.78	10	11/18/2024 12:46	WG2403774
Ethane	272		0.296	1.29	1	11/17/2024 22:29	WG2403060
Ethene	2960		0.422	1.27	1	11/17/2024 22:29	WG2403060

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	UJ CS	0.548	1.00	1	11/20/2024 23:58	WG2405389
Acrylonitrile	U	UJ CS	0.0760	0.500	1	11/20/2024 23:58	WG2405389
Benzene	0.362		0.0160	0.0400	1	11/20/2024 23:58	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 23:58	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 23:58	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 23:58	WG2405389
Bromoform	U	UJ CS	0.239	1.00	1	11/20/2024 23:58	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 23:58	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 23:58	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 23:58	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 23:58	WG2405389
Carbon disulfide	17.0	J- CS	0.162	0.500	1	11/20/2024 23:58	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 23:58	WG2405389
Chlorobenzene	0.0240	J	0.0229	0.100	1	11/20/2024 23:58	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 23:58	WG2405389
Chloroethane	6.93		0.0432	0.200	1	11/20/2024 23:58	WG2405389
Chloroform	U		0.0166	0.100	1	11/20/2024 23:58	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 23:58	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 23:58	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 23:58	WG2405389

JC 1/7/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U	UJ C3	0.204	1.00	1	11/20/2024 23:58	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 23:58	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 23:58	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 23:58	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 23:58	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 23:58	WG2405389
trans-1,4-Dichloro-2-butene	U		11.2	40.0	200	11/24/2024 20:08	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 23:58	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 23:58	WG2405389
1,2-Dichloroethane	U		0.0190	0.100	1	11/20/2024 23:58	WG2405389
1,1-Dichloroethene	40.5		0.0200	0.100	1	11/20/2024 23:58	WG2405389
cis-1,2-Dichloroethene	30500		27.6	100	1000	11/27/2024 10:33	WG2408378
trans-1,2-Dichloroethene	67.4		0.0572	0.200	1	11/20/2024 23:58	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 23:58	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 23:58	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 23:58	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 23:58	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 23:58	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 23:58	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 23:58	WG2405389
Ethylbenzene	0.262		0.0212	0.100	1	11/20/2024 23:58	WG2405389
Hexachloro-1,3-butadiene	U	UJ B1	0.508	1.00	1	11/20/2024 23:58	WG2405389
2-Hexanone	U	UJ B1	0.400	1.00	1	11/20/2024 23:58	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 23:58	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 23:58	WG2405389
Isopropylbenzene	0.0410	I1	0.0345	0.100	1	11/20/2024 23:58	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 23:58	WG2405389
2-Butanone (MEK)	U	UJ B1	0.500	1.00	1	11/20/2024 23:58	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 23:58	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 23:58	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 23:58	WG2405389
Naphthalene	0.739		0.124	0.500	1	11/20/2024 23:58	WG2405389
n-Propylbenzene	0.0980	I1	0.0472	0.200	1	11/20/2024 23:58	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 23:58	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 23:58	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 23:58	WG2405389
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 23:58	WG2405389
Tetrachloroethene	246		5.60	20.0	200	11/24/2024 20:08	WG2406846
Toluene	0.778		0.0500	0.200	1	11/20/2024 23:58	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 23:58	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 23:58	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 23:58	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 23:58	WG2405389
Trichloroethene	303		3.20	8.00	200	11/24/2024 20:08	WG2406846
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 23:58	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 23:58	WG2405389
1,2,4-Trimethylbenzene	1.74		0.0464	0.200	1	11/20/2024 23:58	WG2405389
1,2,3-Trimethylbenzene	1.26		0.0460	0.200	1	11/20/2024 23:58	WG2405389
1,3,5-Trimethylbenzene	0.443		0.0432	0.200	1	11/20/2024 23:58	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 23:58	WG2405389
Vinyl chloride	18900		5.46	20.0	200	11/24/2024 20:08	WG2406846
Xylenes, Total	1.43		0.191	0.260	1	11/20/2024 23:58	WG2405389
(S) Toluene-d8	98.9			75.0-131		11/20/2024 23:58	WG2405389
(S) Toluene-d8	103			75.0-131		11/24/2024 20:08	WG2406846
(S) Toluene-d8	98.8			75.0-131		11/27/2024 10:33	WG2408378
(S) 4-Bromofluorobenzene	96.6			67.0-138		11/20/2024 23:58	WG2405389

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	93.0			67.0-138		11/24/2024 20:08	WG2406846
(S) 4-Bromofluorobenzene	84.6			67.0-138		11/27/2024 10:33	WG2408378
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/20/2024 23:58	WG2405389
(S) 1,2-Dichloroethane-d4	100			70.0-130		11/24/2024 20:08	WG2406846
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/27/2024 10:33	WG2408378

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	549000		4750	20000	1	11/18/2024 12:45	WG2403590

Sample Narrative:

L1799514-09 WG2403590: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	92400		547	1000	1	11/15/2024 05:06	WG2401790
Nitrate as (N)	128		88.4	100	1	11/15/2024 05:06	WG2401790
Sulfate	U		637	5000	1	11/15/2024 05:06	WG2401790

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	14800		495	1000	1	11/18/2024 21:46	WG2403655

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	3700		22.6	100	1	11/22/2024 21:49	WG2404355
Manganese	851		3.50	25.0	5	11/22/2024 23:21	WG2404355

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	26900		2.87	6.78	10	11/18/2024 12:54	WG2403774
Ethane	219		0.296	1.29	1	11/17/2024 22:46	WG2403060
Ethene	43.3		0.422	1.27	1	11/17/2024 22:46	WG2403060

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	UJ CS	0.548	1.00	1	11/21/2024 00:17	WG2405389
Acrylonitrile	U	UJ CS	0.0760	0.500	1	11/21/2024 00:17	WG2405389
Benzene	0.101		0.0160	0.0400	1	11/21/2024 00:17	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/21/2024 00:17	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/21/2024 00:17	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/21/2024 00:17	WG2405389
Bromoform	U	UJ CS	0.239	1.00	1	11/21/2024 00:17	WG2405389
Bromomethane	U		0.148	0.500	1	11/21/2024 00:17	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/21/2024 00:17	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/21/2024 00:17	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/21/2024 00:17	WG2405389
Carbon disulfide	24.6	J- CS	0.162	0.500	1	11/21/2024 00:17	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/21/2024 00:17	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/21/2024 00:17	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/21/2024 00:17	WG2405389
Chloroethane	0.454		0.0432	0.200	1	11/21/2024 00:17	WG2405389
Chloroform	U		0.0166	0.100	1	11/21/2024 00:17	WG2405389
Chloromethane	U		0.0556	0.500	1	11/21/2024 00:17	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/21/2024 00:17	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/21/2024 00:17	WG2405389

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U	UJ CS	0.204	1.00	1	11/21/2024 00:17	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/21/2024 00:17	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/21/2024 00:17	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/21/2024 00:17	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/21/2024 00:17	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/21/2024 00:17	WG2405389
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 19:30	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/21/2024 00:17	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/21/2024 00:17	WG2405389
1,2-Dichloroethane	0.0260	J	0.0190	0.100	1	11/21/2024 00:17	WG2405389
1,1-Dichloroethene	0.791		0.0200	0.100	1	11/21/2024 00:17	WG2405389
cis-1,2-Dichloroethene	3.00		0.0276	0.100	1	11/24/2024 19:30	WG2406846
trans-1,2-Dichloroethene	0.762		0.0572	0.200	1	11/21/2024 00:17	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/21/2024 00:17	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/21/2024 00:17	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/21/2024 00:17	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/21/2024 00:17	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/21/2024 00:17	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/21/2024 00:17	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/21/2024 00:17	WG2405389
Ethylbenzene	U		0.0212	0.100	1	11/21/2024 00:17	WG2405389
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/21/2024 00:17	WG2405389
2-Hexanone	U	UJ CS	0.400	1.00	1	11/21/2024 00:17	WG2405389
n-Hexane	U		0.0424	0.200	1	11/21/2024 00:17	WG2405389
Iodomethane	U		0.242	0.500	1	11/21/2024 00:17	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/21/2024 00:17	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/21/2024 00:17	WG2405389
2-Butanone (MEK)	1.82	J- CS	0.500	1.00	1	11/21/2024 00:17	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/21/2024 00:17	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/21/2024 00:17	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/21/2024 00:17	WG2405389
Naphthalene	U		0.124	0.500	1	11/21/2024 00:17	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/21/2024 00:17	WG2405389
Styrene	U		0.109	0.500	1	11/21/2024 00:17	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/21/2024 00:17	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/21/2024 00:17	WG2405389
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/21/2024 00:17	WG2405389
Tetrachloroethene	13.0		0.0280	0.100	1	11/24/2024 19:30	WG2406846
Toluene	U		0.0500	0.200	1	11/21/2024 00:17	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/21/2024 00:17	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/21/2024 00:17	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/21/2024 00:17	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/21/2024 00:17	WG2405389
Trichloroethene	1.02		0.0160	0.0400	1	11/24/2024 19:30	WG2406846
Trichlorofluoromethane	U		0.0200	0.100	1	11/21/2024 00:17	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/21/2024 00:17	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/21/2024 00:17	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/21/2024 00:17	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/21/2024 00:17	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/21/2024 00:17	WG2405389
Vinyl chloride	47.6		0.0273	0.100	1	11/24/2024 19:30	WG2406846
Xylenes, Total	U		0.191	0.260	1	11/21/2024 00:17	WG2405389
(S) Toluene-d8	97.9			75.0-131		11/21/2024 00:17	WG2405389
(S) Toluene-d8	103			75.0-131		11/24/2024 19:30	WG2406846
(S) 4-Bromofluorobenzene	89.8			67.0-138		11/21/2024 00:17	WG2405389
(S) 4-Bromofluorobenzene	90.9			67.0-138		11/24/2024 19:30	WG2406846

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/21/2024 00:17	WG2405389
(S) 1,2-Dichloroethane-d4	98.6			70.0-130		11/24/2024 19:30	WG2406846

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	438000		4750	20000	1	11/18/2024 11:47	WG2403599

Sample Narrative:
L1799514-10 WG2403599: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	34500		547	1000	1	11/15/2024 05:24	WG2401790
Nitrate as (N)	U		88.4	100	1	11/15/2024 05:24	WG2401790
Sulfate	32500		637	5000	1	11/15/2024 05:24	WG2401790

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	14200		495	1000	1	11/19/2024 14:55	WG2404168

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	2230		22.6	100	1	11/22/2024 21:52	WG2404355
Manganese	4620		14.0	100	20	11/22/2024 23:24	WG2404355

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	7550		2.87	6.78	10	11/18/2024 13:01	WG2403774
Ethane	77.9		0.296	1.29	1	11/17/2024 22:51	WG2403060
Ethene	2.46		0.422	1.27	1	11/17/2024 22:51	WG2403060

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		
Acetone	U	UJ	CS	0.548	1.00	1	11/21/2024 00:36	WG2405389
Acrylonitrile	U	UJ	CS	0.0760	0.500	1	11/21/2024 00:36	WG2405389
Benzene	0.0330		J	0.0160	0.0400	1	11/21/2024 00:36	WG2405389
Bromobenzene	U			0.0420	0.500	1	11/21/2024 00:36	WG2405389
Bromochloromethane	U			0.0452	0.200	1	11/21/2024 00:36	WG2405389
Bromodichloromethane	U			0.0315	0.100	1	11/21/2024 00:36	WG2405389
Bromoform	U	UJ	CS	0.239	1.00	1	11/21/2024 00:36	WG2405389
Bromomethane	U			0.148	0.500	1	11/21/2024 00:36	WG2405389
n-Butylbenzene	U			0.153	0.500	1	11/21/2024 00:36	WG2405389
sec-Butylbenzene	U			0.101	0.500	1	11/21/2024 00:36	WG2405389
tert-Butylbenzene	U			0.0620	0.200	1	11/21/2024 00:36	WG2405389
Carbon disulfide	0.346	J	CSJ	0.162	0.500	1	11/21/2024 00:36	WG2405389
Carbon tetrachloride	U			0.0432	0.200	1	11/21/2024 00:36	WG2405389
Chlorobenzene	U			0.0229	0.100	1	11/21/2024 00:36	WG2405389
Chlorodibromomethane	U			0.0180	0.100	1	11/21/2024 00:36	WG2405389
Chloroethane	0.122		J	0.0432	0.200	1	11/21/2024 00:36	WG2405389
Chloroform	U			0.0166	0.100	1	11/21/2024 00:36	WG2405389
Chloromethane	U			0.0556	0.500	1	11/21/2024 00:36	WG2405389
2-Chlorotoluene	U			0.0368	0.100	1	11/21/2024 00:36	WG2405389
4-Chlorotoluene	U			0.0452	0.200	1	11/21/2024 00:36	WG2405389

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U	UJ CS	0.204	1.00	1	11/21/2024 00:36	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/21/2024 00:36	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/21/2024 00:36	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/21/2024 00:36	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/21/2024 00:36	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/21/2024 00:36	WG2405389
trans-1,4-Dichloro-2-butene	U		5.60	20.0	100	11/24/2024 20:27	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/21/2024 00:36	WG2405389
1,1-Dichloroethane	0.0930	U	0.0230	0.100	1	11/21/2024 00:36	WG2405389
1,2-Dichloroethane	U		0.0190	0.100	1	11/21/2024 00:36	WG2405389
1,1-Dichloroethene	70.8		0.0200	0.100	1	11/21/2024 00:36	WG2405389
cis-1,2-Dichloroethene	909		2.76	10.0	100	11/24/2024 20:27	WG2406846
trans-1,2-Dichloroethene	38.6		0.0572	0.200	1	11/21/2024 00:36	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/21/2024 00:36	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/21/2024 00:36	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/21/2024 00:36	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/21/2024 00:36	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/21/2024 00:36	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/21/2024 00:36	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/21/2024 00:36	WG2405389
Ethylbenzene	U		0.0212	0.100	1	11/21/2024 00:36	WG2405389
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/21/2024 00:36	WG2405389
2-Hexanone	U	UJ CS	0.400	1.00	1	11/21/2024 00:36	WG2405389
n-Hexane	U		0.0424	0.200	1	11/21/2024 00:36	WG2405389
Iodomethane	U		0.242	0.500	1	11/21/2024 00:36	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/21/2024 00:36	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/21/2024 00:36	WG2405389
2-Butanone (MEK)	U	UJ CS	0.500	1.00	1	11/21/2024 00:36	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/21/2024 00:36	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/21/2024 00:36	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/21/2024 00:36	WG2405389
Naphthalene	U		0.124	0.500	1	11/21/2024 00:36	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/21/2024 00:36	WG2405389
Styrene	U		0.109	0.500	1	11/21/2024 00:36	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/21/2024 00:36	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/21/2024 00:36	WG2405389
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/21/2024 00:36	WG2405389
Tetrachloroethene	1350		2.80	10.0	100	11/24/2024 20:27	WG2406846
Toluene	0.173	U	0.0500	0.200	1	11/21/2024 00:36	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/21/2024 00:36	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/21/2024 00:36	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/21/2024 00:36	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/21/2024 00:36	WG2405389
Trichloroethene	1860		1.60	4.00	100	11/24/2024 20:27	WG2406846
Trichlorofluoromethane	U		0.0200	0.100	1	11/21/2024 00:36	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/21/2024 00:36	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/21/2024 00:36	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/21/2024 00:36	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/21/2024 00:36	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/21/2024 00:36	WG2405389
Vinyl chloride	14.2		2.73	10.0	100	11/24/2024 20:27	WG2406846
Xylenes, Total	U		0.191	0.260	1	11/21/2024 00:36	WG2405389
(S) Toluene-d8	100			75.0-131		11/21/2024 00:36	WG2405389
(S) Toluene-d8	103			75.0-131		11/24/2024 20:27	WG2406846
(S) 4-Bromofluorobenzene	89.6			67.0-138		11/21/2024 00:36	WG2405389
(S) 4-Bromofluorobenzene	93.1			67.0-138		11/24/2024 20:27	WG2406846

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/21/2024 00:36	WG2405389
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/24/2024 20:27	WG2406846

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

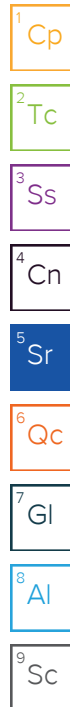
⁹ Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 17:53	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 17:53	WG2406633
Benzene	0.509		0.0160	0.0400	1	11/22/2024 17:53	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 17:53	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 17:53	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 17:53	WG2406633
Bromoform	U	UJ CS	0.239	1.00	1	11/22/2024 17:53	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 17:53	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 17:53	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 17:53	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 17:53	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 17:53	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 17:53	WG2406633
Chlorobenzene	0.0230	J	0.0229	0.100	1	11/22/2024 17:53	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 17:53	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 17:53	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 17:53	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 17:53	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 17:53	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 17:53	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 17:53	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 17:53	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 17:53	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 17:53	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 17:53	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 17:53	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/22/2024 17:53	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 17:53	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 17:53	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 17:53	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 17:53	WG2406633
cis-1,2-Dichloroethene	0.223		0.0276	0.100	1	11/22/2024 17:53	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 17:53	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 17:53	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 17:53	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 17:53	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 17:53	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 17:53	WG2406633
2,2-Dichloropropane	U	.	0.0317	0.100	1	11/22/2024 17:53	WG2406633
Di-isopropyl ether	0.0300	J	0.0140	0.0400	1	11/22/2024 17:53	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 17:53	WG2406633
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/22/2024 17:53	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 17:53	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 17:53	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 17:53	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 17:53	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 17:53	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 17:53	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 17:53	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 17:53	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 17:53	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 17:53	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 17:53	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 17:53	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 17:53	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 17:53	WG2406633

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 17:53	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 17:53	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 17:53	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 17:53	WG2406633
1,2,4-Trichlorobenzene	U	UJ 	0.193	0.500	1	11/22/2024 17:53	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 17:53	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 17:53	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 17:53	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 17:53	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 17:53	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 17:53	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 17:53	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 17:53	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 17:53	WG2406633
Vinyl chloride	0.459		0.0273	0.100	1	11/22/2024 17:53	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 17:53	WG2406633
(S) Toluene-d8	98.6			75.0-131		11/22/2024 17:53	WG2406633
(S) 4-Bromofluorobenzene	88.1			67.0-138		11/22/2024 17:53	WG2406633
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/22/2024 17:53	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 18:12	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 18:12	WG2406633
Benzene	18.5		0.0160	0.0400	1	11/22/2024 18:12	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 18:12	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 18:12	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 18:12	WG2406633
Bromoform	U	UJ 	0.239	1.00	1	11/22/2024 18:12	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 18:12	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 18:12	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 18:12	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 18:12	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 18:12	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 18:12	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 18:12	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 18:12	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 18:12	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 18:12	WG2406633
Chloromethane	U		0.0556	0.500	1	11/22/2024 18:12	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 18:12	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 18:12	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 18:12	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 18:12	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 18:12	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 18:12	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 18:12	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 18:12	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ 	0.0560	0.200	1	11/22/2024 18:12	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 18:12	WG2406633
1,1-Dichloroethane	0.0510	J	0.0230	0.100	1	11/22/2024 18:12	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 18:12	WG2406633
1,1-Dichloroethene	0.0570	J	0.0200	0.100	1	11/22/2024 18:12	WG2406633
cis-1,2-Dichloroethene	29.8		0.0276	0.100	1	11/22/2024 18:12	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 18:12	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 18:12	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 18:12	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 18:12	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 18:12	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 18:12	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 18:12	WG2406633
Di-isopropyl ether	0.420		0.0140	0.0400	1	11/22/2024 18:12	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 18:12	WG2406633
Hexachloro-1,3-butadiene	U	UJ 	0.508	1.00	1	11/22/2024 18:12	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 18:12	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 18:12	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 18:12	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 18:12	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 18:12	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 18:12	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 18:12	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 18:12	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 18:12	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 18:12	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 18:12	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 18:12	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 18:12	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 18:12	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC
1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 18:12	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 18:12	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 18:12	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 18:12	WG2406633
1,2,4-Trichlorobenzene	U	UJ 	0.193	0.500	1	11/22/2024 18:12	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 18:12	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 18:12	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 18:12	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 18:12	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 18:12	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 18:12	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 18:12	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 18:12	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 18:12	WG2406633
Vinyl chloride	58.0		0.0273	0.100	1	11/22/2024 18:12	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 18:12	WG2406633
(S) Toluene-d8	97.4			75.0-131		11/22/2024 18:12	WG2406633
(S) 4-Bromofluorobenzene	94.1			67.0-138		11/22/2024 18:12	WG2406633
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/22/2024 18:12	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 18:32	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 18:32	WG2406633
Benzene	U		0.0160	0.0400	1	11/22/2024 18:32	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 18:32	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 18:32	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 18:32	WG2406633
Bromoform	U	UJ CS	0.239	1.00	1	11/22/2024 18:32	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 18:32	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 18:32	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 18:32	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 18:32	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 18:32	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 18:32	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 18:32	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 18:32	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 18:32	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 18:32	WG2406633
Chloromethane	U	CS	0.0556	0.500	1	11/22/2024 18:32	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 18:32	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 18:32	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 18:32	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 18:32	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 18:32	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 18:32	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 18:32	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 18:32	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/22/2024 18:32	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 18:32	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 18:32	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 18:32	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 18:32	WG2406633
cis-1,2-Dichloroethene	0.0610	J	0.0276	0.100	1	11/22/2024 18:32	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 18:32	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 18:32	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 18:32	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 18:32	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 18:32	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 18:32	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 18:32	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 18:32	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 18:32	WG2406633
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/22/2024 18:32	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 18:32	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 18:32	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 18:32	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 18:32	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 18:32	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 18:32	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 18:32	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 18:32	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 18:32	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 18:32	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 18:32	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 18:32	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 18:32	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 18:32	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 18:32	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 18:32	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 18:32	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 18:32	WG2406633
1,2,4-Trichlorobenzene	U	UJ 	0.193	0.500	1	11/22/2024 18:32	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 18:32	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 18:32	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 18:32	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 18:32	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 18:32	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 18:32	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 18:32	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 18:32	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 18:32	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 18:32	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 18:32	WG2406633
(S) Toluene-d8	98.8			75.0-131		11/22/2024 18:32	WG2406633
(S) 4-Bromofluorobenzene	91.1			67.0-138		11/22/2024 18:32	WG2406633
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2024 18:32	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/22/2024 18:51	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 18:51	WG2406633
Benzene	U		0.0160	0.0400	1	11/22/2024 18:51	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 18:51	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 18:51	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 18:51	WG2406633
Bromoform	U	UJ	0.239	1.00	1	11/22/2024 18:51	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 18:51	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 18:51	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 18:51	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 18:51	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 18:51	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 18:51	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 18:51	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 18:51	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 18:51	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 18:51	WG2406633
Chloromethane	U		0.0556	0.500	1	11/22/2024 18:51	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 18:51	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 18:51	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 18:51	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 18:51	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 18:51	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 18:51	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 18:51	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 18:51	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ	0.0560	0.200	1	11/22/2024 18:51	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 18:51	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 18:51	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 18:51	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 18:51	WG2406633
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/22/2024 18:51	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 18:51	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 18:51	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 18:51	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 18:51	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 18:51	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 18:51	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 18:51	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 18:51	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 18:51	WG2406633
Hexachloro-1,3-butadiene	U	UJ	0.508	1.00	1	11/22/2024 18:51	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 18:51	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 18:51	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 18:51	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 18:51	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 18:51	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 18:51	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 18:51	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 18:51	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 18:51	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 18:51	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 18:51	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 18:51	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 18:51	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 18:51	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 18:51	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 18:51	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 18:51	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 18:51	WG2406633
1,2,4-Trichlorobenzene	U	UJ	0.193	0.500	1	11/22/2024 18:51	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 18:51	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 18:51	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 18:51	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 18:51	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 18:51	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 18:51	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 18:51	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 18:51	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 18:51	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 18:51	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 18:51	WG2406633
(S) Toluene-d8	98.9			75.0-131		11/22/2024 18:51	WG2406633
(S) 4-Bromofluorobenzene	90.3			67.0-138		11/22/2024 18:51	WG2406633
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2024 18:51	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/22/2024 19:10	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 19:10	WG2406633
Benzene	U		0.0160	0.0400	1	11/22/2024 19:10	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 19:10	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 19:10	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 19:10	WG2406633
Bromoform	U	UJ CS	0.239	1.00	1	11/22/2024 19:10	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 19:10	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 19:10	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 19:10	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 19:10	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 19:10	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 19:10	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 19:10	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 19:10	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 19:10	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 19:10	WG2406633
Chloromethane	U	CS	0.0556	0.500	1	11/22/2024 19:10	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 19:10	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 19:10	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 19:10	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 19:10	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 19:10	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 19:10	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 19:10	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 19:10	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/22/2024 19:10	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 19:10	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 19:10	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 19:10	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 19:10	WG2406633
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/22/2024 19:10	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 19:10	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 19:10	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 19:10	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 19:10	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 19:10	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 19:10	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 19:10	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 19:10	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 19:10	WG2406633
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/22/2024 19:10	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 19:10	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 19:10	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 19:10	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 19:10	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 19:10	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 19:10	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 19:10	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 19:10	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 19:10	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 19:10	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 19:10	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 19:10	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 19:10	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 19:10	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 19:10	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 19:10	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 19:10	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 19:10	WG2406633
1,2,4-Trichlorobenzene	U	UJ 	0.193	0.500	1	11/22/2024 19:10	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 19:10	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 19:10	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 19:10	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 19:10	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 19:10	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 19:10	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 19:10	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 19:10	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 19:10	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 19:10	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 19:10	WG2406633
(S) Toluene-d8	97.1			75.0-131		11/22/2024 19:10	WG2406633
(S) 4-Bromofluorobenzene	92.4			67.0-138		11/22/2024 19:10	WG2406633
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/22/2024 19:10	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 19:29	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 19:29	WG2406633
Benzene	U		0.0160	0.0400	1	11/22/2024 19:29	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 19:29	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 19:29	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 19:29	WG2406633
Bromoform	U	UJ CS	0.239	1.00	1	11/22/2024 19:29	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 19:29	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 19:29	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 19:29	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 19:29	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 19:29	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 19:29	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 19:29	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 19:29	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 19:29	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 19:29	WG2406633
Chloromethane	U	CS	0.0556	0.500	1	11/22/2024 19:29	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 19:29	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 19:29	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 19:29	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 19:29	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 19:29	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 19:29	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 19:29	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 19:29	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/22/2024 19:29	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 19:29	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 19:29	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 19:29	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 19:29	WG2406633
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/22/2024 19:29	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 19:29	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 19:29	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 19:29	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 19:29	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 19:29	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 19:29	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 19:29	WG2406633
Di-isopropyl ether	0.241		0.0140	0.0400	1	11/22/2024 19:29	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 19:29	WG2406633
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/22/2024 19:29	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 19:29	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 19:29	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 19:29	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 19:29	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 19:29	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 19:29	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 19:29	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 19:29	WG2406633
Methyl tert-butyl ether	0.0990		0.0118	0.0400	1	11/22/2024 19:29	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 19:29	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 19:29	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 19:29	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 19:29	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 19:29	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 19:29	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 19:29	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 19:29	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 19:29	WG2406633
1,2,4-Trichlorobenzene	U	UJ 	0.193	0.500	1	11/22/2024 19:29	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 19:29	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 19:29	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 19:29	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 19:29	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 19:29	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 19:29	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 19:29	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 19:29	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 19:29	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 19:29	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 19:29	WG2406633
(S) Toluene-d8	98.0			75.0-131		11/22/2024 19:29	WG2406633
(S) 4-Bromofluorobenzene	90.4			67.0-138		11/22/2024 19:29	WG2406633
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/22/2024 19:29	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

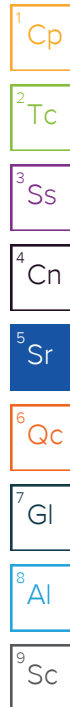
8Al

9Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 19:48	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 19:48	WG2406633
Benzene	7.49		0.0160	0.0400	1	11/22/2024 19:48	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 19:48	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 19:48	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 19:48	WG2406633
Bromoform	U	UJ CS	0.239	1.00	1	11/22/2024 19:48	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 19:48	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 19:48	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 19:48	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 19:48	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 19:48	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 19:48	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 19:48	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 19:48	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 19:48	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 19:48	WG2406633
Chloromethane	U	CS	0.0556	0.500	1	11/22/2024 19:48	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 19:48	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 19:48	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 19:48	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 19:48	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 19:48	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 19:48	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 19:48	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 19:48	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/22/2024 19:48	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 19:48	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 19:48	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 19:48	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 19:48	WG2406633
cis-1,2-Dichloroethene	0.144		0.0276	0.100	1	11/22/2024 19:48	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 19:48	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 19:48	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 19:48	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 19:48	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 19:48	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 19:48	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 19:48	WG2406633
Di-isopropyl ether	0.226		0.0140	0.0400	1	11/22/2024 19:48	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 19:48	WG2406633
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/22/2024 19:48	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 19:48	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 19:48	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 19:48	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 19:48	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 19:48	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 19:48	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 19:48	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 19:48	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 19:48	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 19:48	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 19:48	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 19:48	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 19:48	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 19:48	WG2406633



JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 19:48	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 19:48	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 19:48	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 19:48	WG2406633
1,2,4-Trichlorobenzene	U	UJ	0.193	0.500	1	11/22/2024 19:48	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 19:48	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 19:48	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 19:48	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 19:48	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 19:48	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 19:48	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 19:48	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 19:48	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 19:48	WG2406633
Vinyl chloride	0.764		0.0273	0.100	1	11/22/2024 19:48	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 19:48	WG2406633
(S) Toluene-d8	98.6			75.0-131		11/22/2024 19:48	WG2406633
(S) 4-Bromofluorobenzene	88.9			67.0-138		11/22/2024 19:48	WG2406633
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2024 19:48	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 20:08	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 20:08	WG2406633
Benzene	0.148		0.0160	0.0400	1	11/22/2024 20:08	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 20:08	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 20:08	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 20:08	WG2406633
Bromoform	U	UJ CS	0.239	1.00	1	11/22/2024 20:08	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 20:08	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 20:08	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 20:08	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 20:08	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 20:08	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 20:08	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 20:08	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 20:08	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 20:08	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 20:08	WG2406633
Chloromethane	U	CS	0.0556	0.500	1	11/22/2024 20:08	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 20:08	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 20:08	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 20:08	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 20:08	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 20:08	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 20:08	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 20:08	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 20:08	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/22/2024 20:08	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 20:08	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 20:08	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 20:08	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 20:08	WG2406633
cis-1,2-Dichloroethene	7.64		0.0276	0.100	1	11/22/2024 20:08	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 20:08	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 20:08	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 20:08	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 20:08	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 20:08	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 20:08	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 20:08	WG2406633
Di-isopropyl ether	0.0600		0.0140	0.0400	1	11/22/2024 20:08	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 20:08	WG2406633
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/22/2024 20:08	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 20:08	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 20:08	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 20:08	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 20:08	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 20:08	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 20:08	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 20:08	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 20:08	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 20:08	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 20:08	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 20:08	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 20:08	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 20:08	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 20:08	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 20:08	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 20:08	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 20:08	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 20:08	WG2406633
1,2,4-Trichlorobenzene	U	UJ CS	0.193	0.500	1	11/22/2024 20:08	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 20:08	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 20:08	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 20:08	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 20:08	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 20:08	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 20:08	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 20:08	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 20:08	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 20:08	WG2406633
Vinyl chloride	28.5		0.0273	0.100	1	11/22/2024 20:08	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 20:08	WG2406633
(S) Toluene-d8	98.1			75.0-131		11/22/2024 20:08	WG2406633
(S) 4-Bromofluorobenzene	90.1			67.0-138		11/22/2024 20:08	WG2406633
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2024 20:08	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	335000		4750	20000	1	11/19/2024 12:39	WG2403985

Sample Narrative:
L1800138-09 WG2403985: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	31700		547	1000	1	11/15/2024 22:35	WG2402471
Nitrate as (N)	U		88.4	100	1	11/15/2024 22:35	WG2402471
Sulfate	80100		637	5000	1	11/15/2024 22:35	WG2402471

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3300		495	1000	1	11/20/2024 14:27	WG2404586

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	214		22.6	100	1	11/24/2024 19:29	WG2404363
Manganese	1140		0.700	5.00	1	11/24/2024 19:29	WG2404363

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	389		0.287	0.678	1	11/18/2024 22:00	WG2403411
Ethane	16.2		0.296	1.29	1	11/18/2024 22:00	WG2403411
Ethene	U		0.422	1.27	1	11/18/2024 22:00	WG2403411

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 20:27	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 20:27	WG2406633
Benzene	0.431		0.0160	0.0400	1	11/22/2024 20:27	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 20:27	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 20:27	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 20:27	WG2406633
Bromoform	U	UJ 	0.239	1.00	1	11/22/2024 20:27	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 20:27	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 20:27	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 20:27	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 20:27	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 20:27	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 20:27	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 20:27	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 20:27	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 20:27	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 20:27	WG2406633
Chloromethane	U		0.0556	0.500	1	11/22/2024 20:27	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 20:27	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 20:27	WG2406633

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

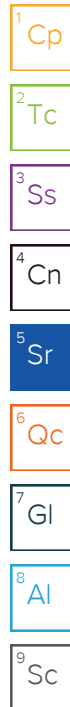
9

Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 20:27	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 20:27	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 20:27	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 20:27	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 20:27	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 20:27	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ	0.0560	0.200	1	11/22/2024 20:27	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 20:27	WG2406633
1,1-Dichloroethane	0.0790	U	0.0230	0.100	1	11/22/2024 20:27	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 20:27	WG2406633
1,1-Dichloroethene	2.04		0.0200	0.100	1	11/22/2024 20:27	WG2406633
cis-1,2-Dichloroethene	1550		1.38	5.00	50	11/27/2024 15:01	WG2409707
trans-1,2-Dichloroethene	2.01		0.0572	0.200	1	11/22/2024 20:27	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 20:27	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 20:27	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 20:27	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 20:27	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 20:27	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 20:27	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 20:27	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 20:27	WG2406633
Hexachloro-1,3-butadiene	U	UJ	0.508	1.00	1	11/22/2024 20:27	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 20:27	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 20:27	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 20:27	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 20:27	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 20:27	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 20:27	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 20:27	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 20:27	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 20:27	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 20:27	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 20:27	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 20:27	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 20:27	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 20:27	WG2406633
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 20:27	WG2406633
Tetrachloroethene	78.8		0.0280	0.100	1	11/22/2024 20:27	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 20:27	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 20:27	WG2406633
1,2,4-Trichlorobenzene	U	UJ	0.193	0.500	1	11/22/2024 20:27	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 20:27	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 20:27	WG2406633
Trichloroethene	215		0.800	2.00	50	11/27/2024 15:01	WG2409707
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 20:27	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 20:27	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 20:27	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 20:27	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 20:27	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 20:27	WG2406633
Vinyl chloride	0.591		0.0273	0.100	1	11/22/2024 20:27	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 20:27	WG2406633
(S) Toluene-d8	99.5			75.0-131		11/22/2024 20:27	WG2406633
(S) Toluene-d8	101			75.0-131		11/27/2024 15:01	WG2409707
(S) 4-Bromofluorobenzene	91.4			67.0-138		11/22/2024 20:27	WG2406633
(S) 4-Bromofluorobenzene	98.4			67.0-138		11/27/2024 15:01	WG2409707



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/22/2024 20:27	WG2406633
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/27/2024 15:01	WG2409707

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

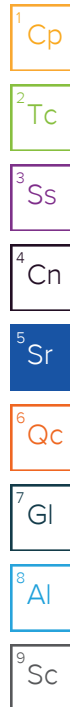
⁸Al

⁹Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 20:46	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 20:46	WG2406633
Benzene	U		0.0160	0.0400	1	11/22/2024 20:46	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 20:46	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 20:46	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 20:46	WG2406633
Bromoform	U	UJ C3	0.239	1.00	1	11/22/2024 20:46	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 20:46	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 20:46	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 20:46	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 20:46	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 20:46	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 20:46	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 20:46	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 20:46	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 20:46	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 20:46	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 20:46	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 20:46	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 20:46	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 20:46	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 20:46	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 20:46	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 20:46	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 20:46	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 20:46	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ C3	0.0560	0.200	1	11/22/2024 20:46	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 20:46	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 20:46	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 20:46	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 20:46	WG2406633
cis-1,2-Dichloroethene	0.767		0.0276	0.100	1	11/27/2024 14:03	WG2409707
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 20:46	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 20:46	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 20:46	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 20:46	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 20:46	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 20:46	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 20:46	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 20:46	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 20:46	WG2406633
Hexachloro-1,3-butadiene	U	UJ C3	0.508	1.00	1	11/22/2024 20:46	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 20:46	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 20:46	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 20:46	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 20:46	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 20:46	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 20:46	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 20:46	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 20:46	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 20:46	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 20:46	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 20:46	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 20:46	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 20:46	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 20:46	WG2406633



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 20:46	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/27/2024 14:03	WG2409707
Toluene	U		0.0500	0.200	1	11/22/2024 20:46	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 20:46	WG2406633
1,2,4-Trichlorobenzene	U	UJ 	0.193	0.500	1	11/22/2024 20:46	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 20:46	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 20:46	WG2406633
Trichloroethene	0.394		0.0160	0.0400	1	11/27/2024 14:03	WG2409707
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 20:46	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 20:46	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 20:46	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 20:46	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 20:46	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 20:46	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 20:46	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 20:46	WG2406633
(S) Toluene-d8	100			75.0-131		11/22/2024 20:46	WG2406633
(S) Toluene-d8	103			75.0-131		11/27/2024 14:03	WG2409707
(S) 4-Bromofluorobenzene	91.0			67.0-138		11/22/2024 20:46	WG2406633
(S) 4-Bromofluorobenzene	99.1			67.0-138		11/27/2024 14:03	WG2409707
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/22/2024 20:46	WG2406633
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/27/2024 14:03	WG2409707

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 21:05	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 21:05	WG2406633
Benzene	9.98		0.0160	0.0400	1	11/22/2024 21:05	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 21:05	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 21:05	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 21:05	WG2406633
Bromoform	U	UJ CS	0.239	1.00	1	11/22/2024 21:05	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 21:05	WG2406633
n-Butylbenzene	7.67		0.153	0.500	1	11/22/2024 21:05	WG2406633
sec-Butylbenzene	8.93		0.101	0.500	1	11/22/2024 21:05	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 21:05	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 21:05	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 21:05	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 21:05	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 21:05	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 21:05	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 21:05	WG2406633
Chloromethane	U	CS	0.0556	0.500	1	11/22/2024 21:05	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 21:05	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 21:05	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 21:05	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 21:05	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 21:05	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 21:05	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 21:05	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 21:05	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/22/2024 21:05	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 21:05	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 21:05	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 21:05	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 21:05	WG2406633
cis-1,2-Dichloroethene	0.366		0.0276	0.100	1	11/22/2024 21:05	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 21:05	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 21:05	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 21:05	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 21:05	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 21:05	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 21:05	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 21:05	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 21:05	WG2406633
Ethylbenzene	136		0.212	1.00	10	11/27/2024 15:20	WG2409707
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/22/2024 21:05	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 21:05	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 21:05	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 21:05	WG2406633
Isopropylbenzene	49.5		0.0345	0.100	1	11/22/2024 21:05	WG2406633
p-Isopropyltoluene	2.15		0.0932	0.200	1	11/22/2024 21:05	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 21:05	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 21:05	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 21:05	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 21:05	WG2406633
Naphthalene	85.6	CS	1.24	5.00	10	11/27/2024 15:20	WG2409707
n-Propylbenzene	102		0.472	2.00	10	11/27/2024 15:20	WG2409707
Styrene	U		0.109	0.500	1	11/22/2024 21:05	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 21:05	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 21:05	WG2406633

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 21:05	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 21:05	WG2406633
Toluene	1.70		0.0500	0.200	1	11/22/2024 21:05	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 21:05	WG2406633
1,2,4-Trichlorobenzene	U	UJ 	0.193	0.500	1	11/22/2024 21:05	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 21:05	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 21:05	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 21:05	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 21:05	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 21:05	WG2406633
1,2,4-Trimethylbenzene	249		0.464	2.00	10	11/27/2024 15:20	WG2409707
1,2,3-Trimethylbenzene	145		0.460	2.00	10	11/27/2024 15:20	WG2409707
1,3,5-Trimethylbenzene	45.9		0.0432	0.200	1	11/22/2024 21:05	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 21:05	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 21:05	WG2406633
Xylenes, Total	150		0.191	0.260	1	11/22/2024 21:05	WG2406633
(S) Toluene-d8	92.3			75.0-131		11/22/2024 21:05	WG2406633
(S) Toluene-d8	103			75.0-131		11/27/2024 15:20	WG2409707
(S) 4-Bromofluorobenzene	92.3			67.0-138		11/22/2024 21:05	WG2406633
(S) 4-Bromofluorobenzene	100			67.0-138		11/27/2024 15:20	WG2409707
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/22/2024 21:05	WG2406633
(S) 1,2-Dichloroethane-d4	112			70.0-130		11/27/2024 15:20	WG2409707

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 21:24	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 21:24	WG2406633
Benzene	0.101		0.0160	0.0400	1	11/22/2024 21:24	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 21:24	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 21:24	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 21:24	WG2406633
Bromoform	U	UJ 	0.239	1.00	1	11/22/2024 21:24	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 21:24	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 21:24	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 21:24	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 21:24	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 21:24	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 21:24	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 21:24	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 21:24	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 21:24	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 21:24	WG2406633
Chloromethane	U		0.0556	0.500	1	11/22/2024 21:24	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 21:24	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 21:24	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 21:24	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 21:24	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 21:24	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 21:24	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 21:24	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 21:24	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ 	0.0560	0.200	1	11/22/2024 21:24	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 21:24	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 21:24	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 21:24	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 21:24	WG2406633
cis-1,2-Dichloroethene	0.242		0.0276	0.100	1	11/22/2024 21:24	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 21:24	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 21:24	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 21:24	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 21:24	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 21:24	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 21:24	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 21:24	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 21:24	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/27/2024 14:22	WG2409707
Hexachloro-1,3-butadiene	U	UJ 	0.508	1.00	1	11/22/2024 21:24	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 21:24	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 21:24	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 21:24	WG2406633
Isopropylbenzene	0.0990	J	0.0345	0.100	1	11/22/2024 21:24	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 21:24	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 21:24	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 21:24	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 21:24	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 21:24	WG2406633
Naphthalene	U		0.124	0.500	1	11/27/2024 14:22	WG2409707
n-Propylbenzene	U		0.0472	0.200	1	11/27/2024 14:22	WG2409707
Styrene	U		0.109	0.500	1	11/22/2024 21:24	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 21:24	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 21:24	WG2406633

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 21:24	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 21:24	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 21:24	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 21:24	WG2406633
1,2,4-Trichlorobenzene	U	UJ	0.193	0.500	1	11/22/2024 21:24	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 21:24	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 21:24	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 21:24	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 21:24	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 21:24	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/27/2024 14:22	WG2409707
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/27/2024 14:22	WG2409707
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/27/2024 14:22	WG2409707
Vinyl acetate	U		0.141	0.500	1	11/22/2024 21:24	WG2406633
Vinyl chloride	0.195		0.0273	0.100	1	11/22/2024 21:24	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/27/2024 14:22	WG2409707
(S) Toluene-d8	98.0			75.0-131		11/22/2024 21:24	WG2406633
(S) Toluene-d8	103			75.0-131		11/27/2024 14:22	WG2409707
(S) 4-Bromofluorobenzene	97.7			67.0-138		11/22/2024 21:24	WG2406633
(S) 4-Bromofluorobenzene	99.6			67.0-138		11/27/2024 14:22	WG2409707
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/22/2024 21:24	WG2406633
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/27/2024 14:22	WG2409707

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

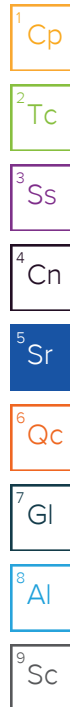
9Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 22:22	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 22:22	WG2406633
Benzene	U		0.0160	0.0400	1	11/22/2024 22:22	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 22:22	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 22:22	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 22:22	WG2406633
Bromoform	U	UJ C3	0.239	1.00	1	11/22/2024 22:22	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 22:22	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 22:22	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 22:22	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 22:22	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 22:22	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 22:22	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 22:22	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 22:22	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 22:22	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 22:22	WG2406633
Chloromethane	U	I3	0.0556	0.500	1	11/22/2024 22:22	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 22:22	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 22:22	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 22:22	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 22:22	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 22:22	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 22:22	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 22:22	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 22:22	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ C3	0.0560	0.200	1	11/22/2024 22:22	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 22:22	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 22:22	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 22:22	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 22:22	WG2406633
cis-1,2-Dichloroethene	0.0890	I	0.0276	0.100	1	11/22/2024 22:22	WG2406633
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 22:22	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 22:22	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 22:22	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 22:22	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 22:22	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 22:22	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 22:22	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 22:22	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 22:22	WG2406633
Hexachloro-1,3-butadiene	U	UJ C3	0.508	1.00	1	11/22/2024 22:22	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 22:22	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 22:22	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 22:22	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 22:22	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 22:22	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 22:22	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 22:22	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 22:22	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 22:22	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 22:22	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 22:22	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 22:22	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 22:22	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 22:22	WG2406633

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 22:22	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 22:22	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 22:22	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 22:22	WG2406633
1,2,4-Trichlorobenzene	U	UJ C3	0.193	0.500	1	11/22/2024 22:22	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 22:22	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 22:22	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 22:22	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 22:22	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 22:22	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 22:22	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 22:22	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 22:22	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 22:22	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 22:22	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 22:22	WG2406633
(S) Toluene-d8	99.9			75.0-131		11/22/2024 22:22	WG2406633
(S) 4-Bromofluorobenzene	91.8			67.0-138		11/22/2024 22:22	WG2406633
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2024 22:22	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

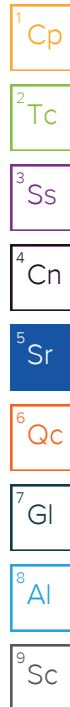
9Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 22:41	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 22:41	WG2406633
Benzene	29.2		0.0160	0.0400	1	11/22/2024 22:41	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 22:41	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 22:41	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 22:41	WG2406633
Bromoform	U	UJ C3	0.239	1.00	1	11/22/2024 22:41	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 22:41	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 22:41	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 22:41	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 22:41	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 22:41	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 22:41	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 22:41	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 22:41	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 22:41	WG2406633
Chloroform	0.220		0.0166	0.100	1	11/22/2024 22:41	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 22:41	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 22:41	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 22:41	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 22:41	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 22:41	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 22:41	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 22:41	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 22:41	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 22:41	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ C3	0.0560	0.200	1	11/22/2024 22:41	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 22:41	WG2406633
1,1-Dichloroethane	0.128		0.0230	0.100	1	11/22/2024 22:41	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 22:41	WG2406633
1,1-Dichloroethene	0.155		0.0200	0.100	1	11/22/2024 22:41	WG2406633
cis-1,2-Dichloroethene	45.1		0.0276	0.100	1	11/22/2024 22:41	WG2406633
trans-1,2-Dichloroethene	0.300		0.0572	0.200	1	11/22/2024 22:41	WG2406633
1,2-Dichloropropane	0.0800	J	0.0508	0.200	1	11/22/2024 22:41	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 22:41	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 22:41	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 22:41	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 22:41	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 22:41	WG2406633
Di-isopropyl ether	0.439		0.0140	0.0400	1	11/22/2024 22:41	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 22:41	WG2406633
Hexachloro-1,3-butadiene	U	UJ C3	0.508	1.00	1	11/22/2024 22:41	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 22:41	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 22:41	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 22:41	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 22:41	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 22:41	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 22:41	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 22:41	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 22:41	WG2406633
Methyl tert-butyl ether	0.258		0.0118	0.0400	1	11/22/2024 22:41	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 22:41	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 22:41	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 22:41	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 22:41	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 22:41	WG2406633

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 22:41	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 22:41	WG2406633
Toluene	0.119	J	0.0500	0.200	1	11/22/2024 22:41	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 22:41	WG2406633
1,2,4-Trichlorobenzene	U	UJ	0.193	0.500	1	11/22/2024 22:41	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 22:41	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 22:41	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 22:41	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 22:41	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 22:41	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 22:41	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 22:41	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 22:41	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 22:41	WG2406633
Vinyl chloride	144		0.273	1.00	10	11/28/2024 11:52	WG2409819
Xylenes, Total	U		0.191	0.260	1	11/22/2024 22:41	WG2406633
(S) Toluene-d8	101			75.0-131		11/22/2024 22:41	WG2406633
(S) Toluene-d8	96.8			75.0-131		11/28/2024 11:52	WG2409819
(S) 4-Bromofluorobenzene	95.5			67.0-138		11/22/2024 22:41	WG2406633
(S) 4-Bromofluorobenzene	101			67.0-138		11/28/2024 11:52	WG2409819
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/22/2024 22:41	WG2406633
(S) 1,2-Dichloroethane-d4	114			70.0-130		11/28/2024 11:52	WG2409819

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

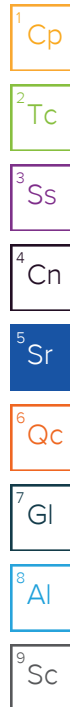
9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 23:01	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 23:01	WG2406633
Benzene	0.100		0.0160	0.0400	1	11/22/2024 23:01	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 23:01	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 23:01	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 23:01	WG2406633
Bromoform	U	UJ C3	0.239	1.00	1	11/22/2024 23:01	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 23:01	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 23:01	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 23:01	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 23:01	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 23:01	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 23:01	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 23:01	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 23:01	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 23:01	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 23:01	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 23:01	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 23:01	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 23:01	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 23:01	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 23:01	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 23:01	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 23:01	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 23:01	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 23:01	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ C3	0.0560	0.200	1	11/22/2024 23:01	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 23:01	WG2406633
1,1-Dichloroethane	0.107		0.0230	0.100	1	11/22/2024 23:01	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 23:01	WG2406633
1,1-Dichloroethene	0.0960	J	0.0200	0.100	1	11/22/2024 23:01	WG2406633
cis-1,2-Dichloroethene	112		0.276	1.00	10	11/27/2024 15:39	WG2409707
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 23:01	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 23:01	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 23:01	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 23:01	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 23:01	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 23:01	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 23:01	WG2406633
Di-isopropyl ether	0.110		0.0140	0.0400	1	11/22/2024 23:01	WG2406633
Ethylbenzene	0.0860	J	0.0212	0.100	1	11/22/2024 23:01	WG2406633
Hexachloro-1,3-butadiene	U	UJ C3	0.508	1.00	1	11/22/2024 23:01	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 23:01	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 23:01	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 23:01	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 23:01	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 23:01	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 23:01	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 23:01	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 23:01	WG2406633
Methyl tert-butyl ether	0.0280	J	0.0118	0.0400	1	11/22/2024 23:01	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 23:01	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 23:01	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 23:01	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 23:01	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 23:01	WG2406633

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 23:01	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 23:01	WG2406633
Toluene	0.244		0.0500	0.200	1	11/22/2024 23:01	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 23:01	WG2406633
1,2,4-Trichlorobenzene	U	UJ CS	0.193	0.500	1	11/22/2024 23:01	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 23:01	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 23:01	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 23:01	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 23:01	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 23:01	WG2406633
1,2,4-Trimethylbenzene	0.101	J	0.0464	0.200	1	11/22/2024 23:01	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 23:01	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 23:01	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 23:01	WG2406633
Vinyl chloride	0.515		0.0273	0.100	1	11/22/2024 23:01	WG2406633
Xylenes, Total	0.529		0.191	0.260	1	11/22/2024 23:01	WG2406633
(S) Toluene-d8	98.4			75.0-131		11/22/2024 23:01	WG2406633
(S) Toluene-d8	102			75.0-131		11/27/2024 15:39	WG2409707
(S) 4-Bromofluorobenzene	94.1			67.0-138		11/22/2024 23:01	WG2406633
(S) 4-Bromofluorobenzene	98.4			67.0-138		11/27/2024 15:39	WG2409707
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/22/2024 23:01	WG2406633
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/27/2024 15:39	WG2409707

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/22/2024 23:20	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 23:20	WG2406633
Benzene	U		0.0160	0.0400	1	11/22/2024 23:20	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 23:20	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 23:20	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 23:20	WG2406633
Bromoform	U	UJ C3	0.239	1.00	1	11/22/2024 23:20	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 23:20	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 23:20	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 23:20	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 23:20	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 23:20	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 23:20	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 23:20	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 23:20	WG2406633
Chloroethane	U		0.0432	0.200	1	11/22/2024 23:20	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 23:20	WG2406633
Chloromethane	U	J3	0.0556	0.500	1	11/22/2024 23:20	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 23:20	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 23:20	WG2406633
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 23:20	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 23:20	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 23:20	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 23:20	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 23:20	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 23:20	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ C3	0.0560	0.200	1	11/22/2024 23:20	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 23:20	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 23:20	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 23:20	WG2406633
1,1-Dichloroethene	U		0.0200	0.100	1	11/22/2024 23:20	WG2406633
cis-1,2-Dichloroethene	0.0540	J	0.0276	0.100	1	11/27/2024 14:41	WG2409707
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/22/2024 23:20	WG2406633
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 23:20	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 23:20	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 23:20	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 23:20	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 23:20	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 23:20	WG2406633
Di-isopropyl ether	0.0570		0.0140	0.0400	1	11/22/2024 23:20	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 23:20	WG2406633
Hexachloro-1,3-butadiene	U	UJ C3	0.508	1.00	1	11/22/2024 23:20	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 23:20	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 23:20	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 23:20	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 23:20	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 23:20	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 23:20	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 23:20	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 23:20	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 23:20	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 23:20	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 23:20	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 23:20	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 23:20	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 23:20	WG2406633

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1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 23:20	WG2406633
Tetrachloroethene	U		0.0280	0.100	1	11/22/2024 23:20	WG2406633
Toluene	U		0.0500	0.200	1	11/22/2024 23:20	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 23:20	WG2406633
1,2,4-Trichlorobenzene	U	UJ CS	0.193	0.500	1	11/22/2024 23:20	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 23:20	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 23:20	WG2406633
Trichloroethene	U		0.0160	0.0400	1	11/22/2024 23:20	WG2406633
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 23:20	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 23:20	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 23:20	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 23:20	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 23:20	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 23:20	WG2406633
Vinyl chloride	U		0.0273	0.100	1	11/22/2024 23:20	WG2406633
Xylenes, Total	U		0.191	0.260	1	11/22/2024 23:20	WG2406633
(S) Toluene-d8	98.3			75.0-131		11/22/2024 23:20	WG2406633
(S) Toluene-d8	101			75.0-131		11/27/2024 14:41	WG2409707
(S) 4-Bromofluorobenzene	87.8			67.0-138		11/22/2024 23:20	WG2406633
(S) 4-Bromofluorobenzene	98.3			67.0-138		11/27/2024 14:41	WG2409707
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/22/2024 23:20	WG2406633
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/27/2024 14:41	WG2409707

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	621000		4750	20000	1	11/19/2024 16:20	WG2403981

Sample Narrative:
L1800716-05 WG2403981: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	193000		547	1000	1	11/16/2024 19:22	WG2402993
Nitrate as (N)	U		88.4	100	1	11/16/2024 19:22	WG2402993
Sulfate	7690		637	5000	1	11/16/2024 19:22	WG2402993

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	23200		495	1000	1	11/22/2024 20:01	WG2406226

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	2970		22.6	100	1	11/30/2024 11:18	WG2405967
Manganese	1550		7.00	50.0	10	11/30/2024 11:59	WG2405967

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	32800		2.87	6.78	10	11/20/2024 15:45	WG2405297
Ethane	42.4		0.296	1.29	1	11/20/2024 12:20	WG2403965
Ethene	909		0.422	1.27	1	11/20/2024 12:20	WG2403965

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/22/2024 23:39	WG2406633
Acrylonitrile	U		0.0760	0.500	1	11/22/2024 23:39	WG2406633
Benzene	0.313		0.0160	0.0400	1	11/22/2024 23:39	WG2406633
Bromobenzene	U		0.0420	0.500	1	11/22/2024 23:39	WG2406633
Bromochloromethane	U		0.0452	0.200	1	11/22/2024 23:39	WG2406633
Bromodichloromethane	U		0.0315	0.100	1	11/22/2024 23:39	WG2406633
Bromoform	U	UJ	0.239	1.00	1	11/22/2024 23:39	WG2406633
Bromomethane	U		0.148	0.500	1	11/22/2024 23:39	WG2406633
n-Butylbenzene	U		0.153	0.500	1	11/22/2024 23:39	WG2406633
sec-Butylbenzene	U		0.101	0.500	1	11/22/2024 23:39	WG2406633
tert-Butylbenzene	U		0.0620	0.200	1	11/22/2024 23:39	WG2406633
Carbon disulfide	U		0.162	0.500	1	11/22/2024 23:39	WG2406633
Carbon tetrachloride	U		0.0432	0.200	1	11/22/2024 23:39	WG2406633
Chlorobenzene	U		0.0229	0.100	1	11/22/2024 23:39	WG2406633
Chlorodibromomethane	U		0.0180	0.100	1	11/22/2024 23:39	WG2406633
Chloroethane	6.24		0.0432	0.200	1	11/22/2024 23:39	WG2406633
Chloroform	U		0.0166	0.100	1	11/22/2024 23:39	WG2406633
Chloromethane	U		0.0556	0.500	1	11/22/2024 23:39	WG2406633
2-Chlorotoluene	U		0.0368	0.100	1	11/22/2024 23:39	WG2406633
4-Chlorotoluene	U		0.0452	0.200	1	11/22/2024 23:39	WG2406633

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/22/2024 23:39	WG2406633
1,2-Dibromoethane	U		0.0210	0.100	1	11/22/2024 23:39	WG2406633
Dibromomethane	U		0.0400	0.200	1	11/22/2024 23:39	WG2406633
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/22/2024 23:39	WG2406633
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/22/2024 23:39	WG2406633
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/22/2024 23:39	WG2406633
trans-1,4-Dichloro-2-butene	U	UJ CS	0.0560	0.200	1	11/22/2024 23:39	WG2406633
Dichlorodifluoromethane	U		0.0327	0.200	1	11/22/2024 23:39	WG2406633
1,1-Dichloroethane	U		0.0230	0.100	1	11/22/2024 23:39	WG2406633
1,2-Dichloroethane	U		0.0190	0.100	1	11/22/2024 23:39	WG2406633
1,1-Dichloroethene	49.6		0.0200	0.100	1	11/22/2024 23:39	WG2406633
cis-1,2-Dichloroethene	16900		6.90	25.0	250	11/28/2024 12:11	WG2409819
trans-1,2-Dichloroethene	334		14.3	50.0	250	11/28/2024 12:11	WG2409819
1,2-Dichloropropane	U		0.0508	0.200	1	11/22/2024 23:39	WG2406633
1,1-Dichloropropene	U		0.0280	0.100	1	11/22/2024 23:39	WG2406633
1,3-Dichloropropane	U		0.0700	0.200	1	11/22/2024 23:39	WG2406633
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/22/2024 23:39	WG2406633
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/22/2024 23:39	WG2406633
2,2-Dichloropropane	U		0.0317	0.100	1	11/22/2024 23:39	WG2406633
Di-isopropyl ether	U		0.0140	0.0400	1	11/22/2024 23:39	WG2406633
Ethylbenzene	U		0.0212	0.100	1	11/22/2024 23:39	WG2406633
Hexachloro-1,3-butadiene	U	UJ CS	0.508	1.00	1	11/22/2024 23:39	WG2406633
2-Hexanone	U		0.400	1.00	1	11/22/2024 23:39	WG2406633
n-Hexane	U		0.0424	0.200	1	11/22/2024 23:39	WG2406633
Iodomethane	U		0.242	0.500	1	11/22/2024 23:39	WG2406633
Isopropylbenzene	U		0.0345	0.100	1	11/22/2024 23:39	WG2406633
p-Isopropyltoluene	U		0.0932	0.200	1	11/22/2024 23:39	WG2406633
2-Butanone (MEK)	U		0.500	1.00	1	11/22/2024 23:39	WG2406633
Methylene Chloride	U		0.265	1.00	1	11/22/2024 23:39	WG2406633
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/22/2024 23:39	WG2406633
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/22/2024 23:39	WG2406633
Naphthalene	U		0.124	0.500	1	11/22/2024 23:39	WG2406633
n-Propylbenzene	U		0.0472	0.200	1	11/22/2024 23:39	WG2406633
Styrene	U		0.109	0.500	1	11/22/2024 23:39	WG2406633
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/22/2024 23:39	WG2406633
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/22/2024 23:39	WG2406633
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/22/2024 23:39	WG2406633
Tetrachloroethene	45.0		0.0280	0.100	1	11/22/2024 23:39	WG2406633
Toluene	0.297		0.0500	0.200	1	11/22/2024 23:39	WG2406633
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/22/2024 23:39	WG2406633
1,2,4-Trichlorobenzene	U	UJ CS	0.193	0.500	1	11/22/2024 23:39	WG2406633
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/22/2024 23:39	WG2406633
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/22/2024 23:39	WG2406633
Trichloroethene	195	J	4.00	10.0	250	11/28/2024 12:11	WG2409819
Trichlorofluoromethane	U		0.0200	0.100	1	11/22/2024 23:39	WG2406633
1,2,3-Trichloropropane	U		0.204	0.500	1	11/22/2024 23:39	WG2406633
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/22/2024 23:39	WG2406633
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/22/2024 23:39	WG2406633
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/22/2024 23:39	WG2406633
Vinyl acetate	U		0.141	0.500	1	11/22/2024 23:39	WG2406633
Vinyl chloride	16900	J	6.82	25.0	250	11/28/2024 12:11	WG2409819
Xylenes, Total	U		0.191	0.260	1	11/22/2024 23:39	WG2406633
(S) Toluene-d8	100			75.0-131		11/22/2024 23:39	WG2406633
(S) Toluene-d8	96.5			75.0-131		11/28/2024 12:11	WG2409819
(S) 4-Bromofluorobenzene	93.4			67.0-138		11/22/2024 23:39	WG2406633
(S) 4-Bromofluorobenzene	94.3			67.0-138		11/28/2024 12:11	WG2409819

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/22/2024 23:39	WG2406633
(S) 1,2-Dichloroethane-d4	113			70.0-130		11/28/2024 12:11	WG2409819

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

JC 1/7/2025

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	611000		4750	20000	1	11/19/2024 16:25	WG2403981

Sample Narrative:
L1800716-06 WG2403981: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	198000		547	1000	1	11/16/2024 19:47	WG2402993
Nitrate as (N)	U		88.4	100	1	11/16/2024 19:47	WG2402993
Sulfate	7580		637	5000	1	11/16/2024 19:47	WG2402993

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	18400		495	1000	1	11/22/2024 21:28	WG2406226

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2830		22.6	100	1	11/30/2024 11:21	WG2405967
Manganese	1590		7.00	50.0	10	11/30/2024 12:02	WG2405967

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	32000		2.87	6.78	10	11/20/2024 15:48	WG2405297
Ethane	41.9		0.296	1.29	1	11/20/2024 12:31	WG2403965
Ethene	900		0.422	1.27	1	11/20/2024 12:31	WG2403965

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/25/2024 18:28	WG2408141
Acrylonitrile	U		0.0760	0.500	1	11/25/2024 18:28	WG2408141
Benzene	0.275		0.0160	0.0400	1	11/25/2024 18:28	WG2408141
Bromobenzene	U		0.0420	0.500	1	11/25/2024 18:28	WG2408141
Bromochloromethane	U		0.0452	0.200	1	11/25/2024 18:28	WG2408141
Bromodichloromethane	U		0.0315	0.100	1	11/25/2024 18:28	WG2408141
Bromoform	U		0.239	1.00	1	11/25/2024 18:28	WG2408141
Bromomethane	U		0.148	0.500	1	11/25/2024 18:28	WG2408141
n-Butylbenzene	U		0.153	0.500	1	11/25/2024 18:28	WG2408141
sec-Butylbenzene	U		0.101	0.500	1	11/25/2024 18:28	WG2408141
tert-Butylbenzene	U		0.0620	0.200	1	11/25/2024 18:28	WG2408141
Carbon disulfide	U		0.162	0.500	1	11/25/2024 18:28	WG2408141
Carbon tetrachloride	U		0.0432	0.200	1	11/25/2024 18:28	WG2408141
Chlorobenzene	U		0.0229	0.100	1	11/25/2024 18:28	WG2408141
Chlorodibromomethane	U		0.0180	0.100	1	11/25/2024 18:28	WG2408141
Chloroethane	6.74		0.0432	0.200	1	11/25/2024 18:28	WG2408141
Chloroform	U		0.0166	0.100	1	11/25/2024 18:28	WG2408141
Chloromethane	U		0.0556	0.500	1	11/25/2024 18:28	WG2408141
2-Chlorotoluene	U		0.0368	0.100	1	11/25/2024 18:28	WG2408141
4-Chlorotoluene	U		0.0452	0.200	1	11/25/2024 18:28	WG2408141

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/25/2024 18:28	WG2408141
1,2-Dibromoethane	U		0.0210	0.100	1	11/25/2024 18:28	WG2408141
Dibromomethane	U		0.0400	0.200	1	11/25/2024 18:28	WG2408141
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/25/2024 18:28	WG2408141
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/25/2024 18:28	WG2408141
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/25/2024 18:28	WG2408141
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/25/2024 18:28	WG2408141
Dichlorodifluoromethane	U		0.0327	0.200	1	11/25/2024 18:28	WG2408141
1,1-Dichloroethane	U		0.0230	0.100	1	11/25/2024 18:28	WG2408141
1,2-Dichloroethane	U		0.0190	0.100	1	11/25/2024 18:28	WG2408141
1,1-Dichloroethene	44.4		0.0200	0.100	1	11/25/2024 18:28	WG2408141
cis-1,2-Dichloroethene	16800		6.90	25.0	250	11/27/2024 22:46	WG2409739
trans-1,2-Dichloroethene	301		14.3	50.0	250	11/27/2024 22:46	WG2409739
1,2-Dichloropropane	U		0.0508	0.200	1	11/25/2024 18:28	WG2408141
1,1-Dichloropropene	U		0.0280	0.100	1	11/25/2024 18:28	WG2408141
1,3-Dichloropropane	U		0.0700	0.200	1	11/25/2024 18:28	WG2408141
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/25/2024 18:28	WG2408141
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/25/2024 18:28	WG2408141
2,2-Dichloropropane	U		0.0317	0.100	1	11/25/2024 18:28	WG2408141
Di-isopropyl ether	U		0.0140	0.0400	1	11/25/2024 18:28	WG2408141
Ethylbenzene	U		0.0212	0.100	1	11/25/2024 18:28	WG2408141
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/25/2024 18:28	WG2408141
2-Hexanone	U		0.400	1.00	1	11/25/2024 18:28	WG2408141
n-Hexane	U		0.0424	0.200	1	11/25/2024 18:28	WG2408141
Iodomethane	U		0.242	0.500	1	11/25/2024 18:28	WG2408141
Isopropylbenzene	U		0.0345	0.100	1	11/25/2024 18:28	WG2408141
p-Isopropyltoluene	U		0.0932	0.200	1	11/25/2024 18:28	WG2408141
2-Butanone (MEK)	U		0.500	1.00	1	11/25/2024 18:28	WG2408141
Methylene Chloride	U		0.265	1.00	1	11/25/2024 18:28	WG2408141
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/25/2024 18:28	WG2408141
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/25/2024 18:28	WG2408141
Naphthalene	U		0.124	0.500	1	11/25/2024 18:28	WG2408141
n-Propylbenzene	U		0.0472	0.200	1	11/25/2024 18:28	WG2408141
Styrene	U		0.109	0.500	1	11/25/2024 18:28	WG2408141
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/25/2024 18:28	WG2408141
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/25/2024 18:28	WG2408141
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/25/2024 18:28	WG2408141
Tetrachloroethene	42.3		0.0280	0.100	1	11/25/2024 18:28	WG2408141
Toluene	0.281		0.0500	0.200	1	11/25/2024 18:28	WG2408141
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/25/2024 18:28	WG2408141
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/25/2024 18:28	WG2408141
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/25/2024 18:28	WG2408141
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/25/2024 18:28	WG2408141
Trichloroethene	112	J	0.0160	0.0400	1	11/25/2024 18:28	WG2408141
Trichlorofluoromethane	U		0.0200	0.100	1	11/25/2024 18:28	WG2408141
1,2,3-Trichloropropane	U		0.204	0.500	1	11/25/2024 18:28	WG2408141
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/25/2024 18:28	WG2408141
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/25/2024 18:28	WG2408141
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/25/2024 18:28	WG2408141
Vinyl acetate	U		0.141	0.500	1	11/25/2024 18:28	WG2408141
Vinyl chloride	11800	J	6.82	25.0	250	11/27/2024 22:46	WG2409739
Xylenes, Total	U		0.191	0.260	1	11/25/2024 18:28	WG2408141
(S) Toluene-d8	99.3			75.0-131		11/25/2024 18:28	WG2408141
(S) Toluene-d8	103			75.0-131		11/27/2024 22:46	WG2409739
(S) 4-Bromofluorobenzene	92.5			67.0-138		11/25/2024 18:28	WG2408141
(S) 4-Bromofluorobenzene	78.8			67.0-138		11/27/2024 22:46	WG2409739

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/25/2024 18:28	WG2408141
(S) 1,2-Dichloroethane-d4	96.3			70.0-130		11/27/2024 22:46	WG2409739

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	336000		4750	20000	1	11/19/2024 13:35	WG2403994

Sample Narrative:
L1800716-07 WG2403994: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	116000		547	1000	1	11/16/2024 20:13	WG2402993
Nitrate as (N)	U		88.4	100	1	11/16/2024 20:13	WG2402993
Sulfate	11500		637	5000	1	11/16/2024 20:13	WG2402993

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6370		495	1000	1	11/22/2024 17:00	WG2406687

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	2000		22.6	100	1	11/30/2024 11:24	WG2405967
Manganese	645		3.50	25.0	5	11/30/2024 12:06	WG2405967

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	9070		2.87	6.78	10	11/20/2024 15:53	WG2405297
Ethane	21.0		0.296	1.29	1	11/20/2024 13:34	WG2403965
Ethene	921		0.422	1.27	1	11/20/2024 13:34	WG2403965

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/25/2024 18:47	WG2408141
Acrylonitrile	U		0.0760	0.500	1	11/25/2024 18:47	WG2408141
Benzene	0.217		0.0160	0.0400	1	11/25/2024 18:47	WG2408141
Bromobenzene	U		0.0420	0.500	1	11/25/2024 18:47	WG2408141
Bromochloromethane	U		0.0452	0.200	1	11/25/2024 18:47	WG2408141
Bromodichloromethane	U		0.0315	0.100	1	11/25/2024 18:47	WG2408141
Bromoform	U		0.239	1.00	1	11/25/2024 18:47	WG2408141
Bromomethane	U		0.148	0.500	1	11/25/2024 18:47	WG2408141
n-Butylbenzene	U		0.153	0.500	1	11/25/2024 18:47	WG2408141
sec-Butylbenzene	U		0.101	0.500	1	11/25/2024 18:47	WG2408141
tert-Butylbenzene	U		0.0620	0.200	1	11/25/2024 18:47	WG2408141
Carbon disulfide	U		0.162	0.500	1	11/25/2024 18:47	WG2408141
Carbon tetrachloride	U		0.0432	0.200	1	11/25/2024 18:47	WG2408141
Chlorobenzene	U		0.0229	0.100	1	11/25/2024 18:47	WG2408141
Chlorodibromomethane	U		0.0180	0.100	1	11/25/2024 18:47	WG2408141
Chloroethane	U		0.0432	0.200	1	11/25/2024 18:47	WG2408141
Chloroform	U		0.0166	0.100	1	11/25/2024 18:47	WG2408141
Chloromethane	U		0.0556	0.500	1	11/25/2024 18:47	WG2408141
2-Chlorotoluene	U		0.0368	0.100	1	11/25/2024 18:47	WG2408141
4-Chlorotoluene	U		0.0452	0.200	1	11/25/2024 18:47	WG2408141

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/25/2024 18:47	WG2408141
1,2-Dibromoethane	U		0.0210	0.100	1	11/25/2024 18:47	WG2408141
Dibromomethane	U		0.0400	0.200	1	11/25/2024 18:47	WG2408141
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/25/2024 18:47	WG2408141
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/25/2024 18:47	WG2408141
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/25/2024 18:47	WG2408141
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/25/2024 18:47	WG2408141
Dichlorodifluoromethane	U		0.0327	0.200	1	11/25/2024 18:47	WG2408141
1,1-Dichloroethane	0.0870	U	0.0230	0.100	1	11/25/2024 18:47	WG2408141
1,2-Dichloroethane	U		0.0190	0.100	1	11/25/2024 18:47	WG2408141
1,1-Dichloroethene	57.6		0.0200	0.100	1	11/25/2024 18:47	WG2408141
cis-1,2-Dichloroethene	7840		6.90	25.0	250	11/27/2024 23:06	WG2409739
trans-1,2-Dichloroethene	16.5		0.0572	0.200	1	11/25/2024 18:47	WG2408141
1,2-Dichloropropane	U		0.0508	0.200	1	11/25/2024 18:47	WG2408141
1,1-Dichloropropene	U		0.0280	0.100	1	11/25/2024 18:47	WG2408141
1,3-Dichloropropane	U		0.0700	0.200	1	11/25/2024 18:47	WG2408141
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/25/2024 18:47	WG2408141
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/25/2024 18:47	WG2408141
2,2-Dichloropropane	U		0.0317	0.100	1	11/25/2024 18:47	WG2408141
Di-isopropyl ether	U		0.0140	0.0400	1	11/25/2024 18:47	WG2408141
Ethylbenzene	0.0510	U	0.0212	0.100	1	11/25/2024 18:47	WG2408141
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/25/2024 18:47	WG2408141
2-Hexanone	U		0.400	1.00	1	11/25/2024 18:47	WG2408141
n-Hexane	U		0.0424	0.200	1	11/25/2024 18:47	WG2408141
Iodomethane	U		0.242	0.500	1	11/25/2024 18:47	WG2408141
Isopropylbenzene	U		0.0345	0.100	1	11/25/2024 18:47	WG2408141
p-Isopropyltoluene	U		0.0932	0.200	1	11/25/2024 18:47	WG2408141
2-Butanone (MEK)	U		0.500	1.00	1	11/25/2024 18:47	WG2408141
Methylene Chloride	U		0.265	1.00	1	11/25/2024 18:47	WG2408141
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/25/2024 18:47	WG2408141
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/25/2024 18:47	WG2408141
Naphthalene	U		0.124	0.500	1	11/25/2024 18:47	WG2408141
n-Propylbenzene	U		0.0472	0.200	1	11/25/2024 18:47	WG2408141
Styrene	U		0.109	0.500	1	11/25/2024 18:47	WG2408141
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/25/2024 18:47	WG2408141
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/25/2024 18:47	WG2408141
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/25/2024 18:47	WG2408141
Tetrachloroethene	34.3		0.0280	0.100	1	11/25/2024 18:47	WG2408141
Toluene	0.715		0.0500	0.200	1	11/25/2024 18:47	WG2408141
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/25/2024 18:47	WG2408141
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/25/2024 18:47	WG2408141
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/25/2024 18:47	WG2408141
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/25/2024 18:47	WG2408141
Trichloroethene	130	J	0.0160	0.0400	1	11/25/2024 18:47	WG2408141
Trichlorofluoromethane	U		0.0200	0.100	1	11/25/2024 18:47	WG2408141
1,2,3-Trichloropropane	U		0.204	0.500	1	11/25/2024 18:47	WG2408141
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/25/2024 18:47	WG2408141
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/25/2024 18:47	WG2408141
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/25/2024 18:47	WG2408141
Vinyl acetate	U		0.141	0.500	1	11/25/2024 18:47	WG2408141
Vinyl chloride	2000		6.82	25.0	250	11/27/2024 23:06	WG2409739
Xylenes, Total	0.314		0.191	0.260	1	11/25/2024 18:47	WG2408141
(S) Toluene-d8	102			75.0-131		11/25/2024 18:47	WG2408141
(S) Toluene-d8	101			75.0-131		11/27/2024 23:06	WG2409739
(S) 4-Bromofluorobenzene	89.2			67.0-138		11/25/2024 18:47	WG2408141
(S) 4-Bromofluorobenzene	80.0			67.0-138		11/27/2024 23:06	WG2409739

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/7/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	98.4			70.0-130		11/25/2024 18:47	WG2408141
(S) 1,2-Dichloroethane-d4	101			70.0-130		11/27/2024 23:06	WG2409739

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/7/2025

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	683000		4750	20000	1	11/22/2024 10:59	WG2406563

Sample Narrative:
L1801569-01 WG2406563: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	51200		547	1000	1	11/25/2024 02:41	WG2404909
Nitrate as (N)	U	R	88.4	100	1	11/25/2024 02:41	WG2404909
Sulfate	U		637	5000	1	11/25/2024 02:41	WG2404909

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	14800	J	495	1000	1	11/26/2024 18:21	WG2407687

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	4100		22.6	100	1	11/27/2024 18:45	WG2405975
Manganese	2290		0.700	5.00	1	11/27/2024 18:45	WG2405975

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	28600		2.87	6.78	10	11/21/2024 22:23	WG2406229
Ethane	664		0.296	1.29	1	11/21/2024 13:59	WG2405441
Ethene	62.3		0.422	1.27	1	11/21/2024 13:59	WG2405441

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	UJ	0.548	1.00	1	11/26/2024 00:16	WG2408490
Acrylonitrile	U		0.0760	0.500	1	11/26/2024 00:16	WG2408490
Benzene	0.161		0.0160	0.0400	1	11/26/2024 00:16	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 00:16	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 00:16	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 00:16	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 00:16	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 00:16	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 00:16	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 00:16	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 00:16	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 00:16	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 00:16	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 00:16	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 00:16	WG2408490
Chloroethane	U		0.0432	0.200	1	11/26/2024 00:16	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 00:16	WG2408490
Chloromethane	U		0.0556	0.500	1	11/26/2024 00:16	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 00:16	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 00:16	WG2408490

JC 1/6/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 00:16	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 00:16	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 00:16	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 00:16	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 00:16	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 00:16	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 00:16	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 00:16	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 00:16	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 00:16	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 00:16	WG2408490
cis-1,2-Dichloroethene	0.247		0.0276	0.100	1	12/02/2024 14:40	WG2410807
trans-1,2-Dichloroethene	0.104	U	0.0572	0.200	1	11/26/2024 00:16	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 00:16	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 00:16	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 00:16	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 00:16	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 00:16	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 00:16	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 00:16	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 00:16	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 00:16	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 00:16	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 00:16	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 00:16	WG2408490
Isopropylbenzene	0.0550	U	0.0345	0.100	1	11/26/2024 00:16	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 00:16	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 00:16	WG2408490
Methylene Chloride	U	U3	0.265	1.00	1	11/26/2024 00:16	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 00:16	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 00:16	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 00:16	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 00:16	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 00:16	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 00:16	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 00:16	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 00:16	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 00:16	WG2408490
Toluene	0.0960	U	0.0500	0.200	1	11/26/2024 00:16	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 00:16	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 00:16	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 00:16	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 00:16	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 00:16	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 00:16	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 00:16	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 00:16	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 00:16	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 00:16	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 00:16	WG2408490
Vinyl chloride	0.285		0.0273	0.100	1	12/02/2024 14:40	WG2410807
Xylenes, Total	U		0.191	0.260	1	11/26/2024 00:16	WG2408490
(S) Toluene-d8	98.2			75.0-131		11/26/2024 00:16	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 14:40	WG2410807
(S) 4-Bromofluorobenzene	87.6			67.0-138		11/26/2024 00:16	WG2408490
(S) 4-Bromofluorobenzene	94.5			67.0-138		12/02/2024 14:40	WG2410807

JC 1/6/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/26/2024 00:16	WG2408490
(S) 1,2-Dichloroethane-d4	96.0			70.0-130		12/02/2024 14:40	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	1080000		4750	20000	1	11/22/2024 11:08	WG2406563

Sample Narrative:
L1801569-02 WG2406563: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	107000		2740	5000	5	11/25/2024 21:13	WG2404909
Nitrate as (N)	U R	T8	88.4	100	1	11/25/2024 02:54	WG2404909
Sulfate	2800	J	637	5000	1	11/25/2024 02:54	WG2404909

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	37900		495	1000	1	11/26/2024 18:37	WG2407687

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	17400		22.6	100	1	11/27/2024 18:48	WG2405975
Manganese	3900		0.700	5.00	1	11/27/2024 18:48	WG2405975

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	33000		2.87	6.78	10	11/21/2024 22:30	WG2406229
Ethane	302		0.296	1.29	1	11/21/2024 14:06	WG2405441
Ethene	109		0.422	1.27	1	11/21/2024 14:06	WG2405441

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U UJ	C3 J3	0.548	1.00	1	11/26/2024 00:35	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 00:35	WG2408490
Benzene	0.0250	J	0.0160	0.0400	1	11/26/2024 00:35	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 00:35	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 00:35	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 00:35	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 00:35	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 00:35	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 00:35	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 00:35	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 00:35	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 00:35	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 00:35	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 00:35	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 00:35	WG2408490
Chloroethane	0.365		0.0432	0.200	1	11/26/2024 00:35	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 00:35	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 00:35	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 00:35	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 00:35	WG2408490

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/6/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 00:35	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 00:35	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 00:35	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 00:35	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 00:35	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 00:35	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 00:35	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 00:35	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 00:35	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 00:35	WG2408490
1,1-Dichloroethene	0.504		0.0200	0.100	1	11/26/2024 00:35	WG2408490
cis-1,2-Dichloroethene	279		0.276	1.00	10	12/02/2024 19:26	WG2410807
trans-1,2-Dichloroethene	4.54		0.0572	0.200	1	11/26/2024 00:35	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 00:35	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 00:35	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 00:35	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 00:35	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 00:35	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 00:35	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 00:35	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 00:35	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 00:35	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 00:35	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 00:35	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 00:35	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 00:35	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 00:35	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 00:35	WG2408490
Methylene Chloride	U	JS	0.265	1.00	1	11/26/2024 00:35	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 00:35	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 00:35	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 00:35	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 00:35	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 00:35	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 00:35	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 00:35	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 00:35	WG2408490
Tetrachloroethene	0.0410	J	0.0280	0.100	1	11/26/2024 00:35	WG2408490
Toluene	U		0.0500	0.200	1	11/26/2024 00:35	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 00:35	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 00:35	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 00:35	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 00:35	WG2408490
Trichloroethene	0.459		0.0160	0.0400	1	11/26/2024 00:35	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 00:35	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 00:35	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 00:35	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 00:35	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 00:35	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 00:35	WG2408490
Vinyl chloride	374		0.273	1.00	10	12/02/2024 19:26	WG2410807
Xylenes, Total	U		0.191	0.260	1	11/26/2024 00:35	WG2408490
(S) Toluene-d8	98.9			75.0-131		11/26/2024 00:35	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 19:26	WG2410807
(S) 4-Bromofluorobenzene	89.7			67.0-138		11/26/2024 00:35	WG2408490
(S) 4-Bromofluorobenzene	93.6			67.0-138		12/02/2024 19:26	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/6/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	99.4			70.0-130		11/26/2024 00:35	WG2408490
(S) 1,2-Dichloroethane-d4	98.5			70.0-130		12/02/2024 19:26	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	1030000		4750	20000	1	11/22/2024 11:13	WG2406563

Sample Narrative:
L1801569-03 WG2406563: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	97600		547	1000	1	11/25/2024 03:08	WG2404909
Nitrate as (N)	U	R	88.4	100	1	11/25/2024 03:08	WG2404909
Sulfate	U		637	5000	1	11/25/2024 03:08	WG2404909

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	29700		495	1000	1	11/26/2024 19:38	WG2407687

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	12600		22.6	100	1	11/27/2024 18:58	WG2405975
Manganese	3110		0.700	5.00	1	11/27/2024 18:58	WG2405975

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	30200		2.87	6.78	10	11/21/2024 22:37	WG2406229
Ethane	512		0.296	1.29	1	11/21/2024 14:12	WG2405441
Ethene	62.4		0.422	1.27	1	11/21/2024 14:12	WG2405441

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	UJ	0.548	1.00	1	11/26/2024 00:55	WG2408490
Acrylonitrile	U		0.0760	0.500	1	11/26/2024 00:55	WG2408490
Benzene	0.0280		0.0160	0.0400	1	11/26/2024 00:55	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 00:55	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 00:55	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 00:55	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 00:55	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 00:55	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 00:55	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 00:55	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 00:55	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 00:55	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 00:55	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 00:55	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 00:55	WG2408490
Chloroethane	0.240		0.0432	0.200	1	11/26/2024 00:55	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 00:55	WG2408490
Chloromethane	U		0.0556	0.500	1	11/26/2024 00:55	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 00:55	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 00:55	WG2408490

JC 1/6/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 00:55	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 00:55	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 00:55	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 00:55	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 00:55	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 00:55	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 00:55	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 00:55	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 00:55	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 00:55	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 00:55	WG2408490
cis-1,2-Dichloroethene	0.637		0.0276	0.100	1	12/02/2024 14:59	WG2410807
trans-1,2-Dichloroethene	0.941		0.0572	0.200	1	11/26/2024 00:55	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 00:55	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 00:55	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 00:55	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 00:55	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 00:55	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 00:55	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 00:55	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 00:55	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 00:55	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 00:55	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 00:55	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 00:55	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 00:55	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 00:55	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 00:55	WG2408490
Methylene Chloride	U	JS	0.265	1.00	1	11/26/2024 00:55	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 00:55	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 00:55	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 00:55	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 00:55	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 00:55	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 00:55	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 00:55	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 00:55	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 00:55	WG2408490
Toluene	0.0560	U	0.0500	0.200	1	11/26/2024 00:55	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 00:55	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 00:55	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 00:55	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 00:55	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 00:55	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 00:55	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 00:55	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 00:55	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 00:55	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 00:55	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 00:55	WG2408490
Vinyl chloride	8.45		0.0273	0.100	1	11/26/2024 00:55	WG2408490
Xylenes, Total	U		0.191	0.260	1	11/26/2024 00:55	WG2408490
(S) Toluene-d8	96.9			75.0-131		11/26/2024 00:55	WG2408490
(S) Toluene-d8	105			75.0-131		12/02/2024 14:59	WG2410807
(S) 4-Bromofluorobenzene	86.8			67.0-138		11/26/2024 00:55	WG2408490
(S) 4-Bromofluorobenzene	96.0			67.0-138		12/02/2024 14:59	WG2410807

JC 1/6/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/26/2024 00:55	WG2408490
(S) 1,2-Dichloroethane-d4	96.3			70.0-130		12/02/2024 14:59	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

JC 1/6/2025

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	887000		4750	20000	1	11/22/2024 12:19	WG2406563

Sample Narrative:
L1801569-04 WG2406563: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	78900	J- 16	547	1000	1	11/25/2024 11:22	WG2405410
Nitrate as (N)	U	R 18	88.4	100	1	11/25/2024 11:22	WG2405410
Sulfate	U		637	5000	1	11/25/2024 11:22	WG2405410

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	23100		495	1000	1	11/26/2024 20:10	WG2407687

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	11600		22.6	100	1	11/27/2024 19:01	WG2405975
Manganese	2690		0.700	5.00	1	11/27/2024 19:01	WG2405975

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	27800		2.87	6.78	10	11/21/2024 22:43	WG2406229
Ethane	536		0.296	1.29	1	11/21/2024 14:19	WG2405441
Ethene	44.6		0.422	1.27	1	11/21/2024 14:19	WG2405441

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	UJ CS JS	0.548	1.00	1	11/26/2024 01:14	WG2408490
Acrylonitrile	U	JS	0.0760	0.500	1	11/26/2024 01:14	WG2408490
Benzene	0.0230	J	0.0160	0.0400	1	11/26/2024 01:14	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 01:14	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 01:14	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 01:14	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 01:14	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 01:14	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 01:14	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 01:14	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 01:14	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 01:14	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 01:14	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 01:14	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 01:14	WG2408490
Chloroethane	0.114	J	0.0432	0.200	1	11/26/2024 01:14	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 01:14	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 01:14	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 01:14	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 01:14	WG2408490

JC 1/6/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 01:14	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 01:14	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 01:14	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 01:14	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 01:14	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 01:14	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 01:14	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 01:14	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 01:14	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 01:14	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 01:14	WG2408490
cis-1,2-Dichloroethene	0.734		0.0276	0.100	1	12/02/2024 15:18	WG2410807
trans-1,2-Dichloroethene	0.802		0.0572	0.200	1	11/26/2024 01:14	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 01:14	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 01:14	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 01:14	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 01:14	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 01:14	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 01:14	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 01:14	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 01:14	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 01:14	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 01:14	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 01:14	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 01:14	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 01:14	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 01:14	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 01:14	WG2408490
Methylene Chloride	U	33	0.265	1.00	1	11/26/2024 01:14	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 01:14	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 01:14	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 01:14	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 01:14	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 01:14	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 01:14	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 01:14	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 01:14	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 01:14	WG2408490
Toluene	U		0.0500	0.200	1	11/26/2024 01:14	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 01:14	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 01:14	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 01:14	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 01:14	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 01:14	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 01:14	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 01:14	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 01:14	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 01:14	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 01:14	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 01:14	WG2408490
Vinyl chloride	8.71		0.0273	0.100	1	11/26/2024 01:14	WG2408490
Xylenes, Total	U		0.191	0.260	1	11/26/2024 01:14	WG2408490
(S) Toluene-d8	98.1			75.0-131		11/26/2024 01:14	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 15:18	WG2410807
(S) 4-Bromofluorobenzene	89.9			67.0-138		11/26/2024 01:14	WG2408490
(S) 4-Bromofluorobenzene	96.3			67.0-138		12/02/2024 15:18	WG2410807

JC 1/6/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/26/2024 01:14	WG2408490
(S) 1,2-Dichloroethane-d4	97.3			70.0-130		12/02/2024 15:18	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	1010000		4750	20000	1	11/22/2024 12:24	WG2406563

Sample Narrative:

L1801569-05 WG2406563: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	74000	J	547	1000	1	11/25/2024 12:17	WG2405410
Nitrate as (N)	U	R	88.4	100	1	11/25/2024 12:17	WG2405410
Sulfate	8550		637	5000	1	11/25/2024 12:17	WG2405410

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	57100		990	2000	2	11/26/2024 20:27	WG2407687

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	41600		226	1000	10	11/27/2024 19:04	WG2405975
Manganese	1210		7.00	50.0	10	11/27/2024 19:04	WG2405975

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	27300		2.87	6.78	10	11/21/2024 22:50	WG2406229
Ethane	630		0.296	1.29	1	11/21/2024 14:25	WG2405441
Ethene	1170		0.422	1.27	1	11/21/2024 14:25	WG2405441

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	UJ	1.10	2.00	2	11/26/2024 01:33	WG2408490
Acrylonitrile	U		0.152	1.00	2	11/26/2024 01:33	WG2408490
Benzene	0.878		0.0320	0.0800	2	11/26/2024 01:33	WG2408490
Bromobenzene	U		0.0840	1.00	2	11/26/2024 01:33	WG2408490
Bromochloromethane	U		0.0904	0.400	2	11/26/2024 01:33	WG2408490
Bromodichloromethane	U		0.0630	0.200	2	11/26/2024 01:33	WG2408490
Bromoform	U		0.478	2.00	2	11/26/2024 01:33	WG2408490
Bromomethane	U		0.296	1.00	2	11/26/2024 01:33	WG2408490
n-Butylbenzene	U		0.306	1.00	2	11/26/2024 01:33	WG2408490
sec-Butylbenzene	U		0.202	1.00	2	11/26/2024 01:33	WG2408490
tert-Butylbenzene	U		0.124	0.400	2	11/26/2024 01:33	WG2408490
Carbon disulfide	U		0.324	1.00	2	11/26/2024 01:33	WG2408490
Carbon tetrachloride	U		0.0864	0.400	2	11/26/2024 01:33	WG2408490
Chlorobenzene	U		0.0458	0.200	2	11/26/2024 01:33	WG2408490
Chlorodibromomethane	U		0.0360	0.200	2	11/26/2024 01:33	WG2408490
Chloroethane	U		0.0864	0.400	2	11/26/2024 01:33	WG2408490
Chloroform	U		0.0332	0.200	2	11/26/2024 01:33	WG2408490
Chloromethane	U		0.111	1.00	2	11/26/2024 01:33	WG2408490
2-Chlorotoluene	U		0.0736	0.200	2	11/26/2024 01:33	WG2408490
4-Chlorotoluene	U		0.0904	0.400	2	11/26/2024 01:33	WG2408490

JC 1/6/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.408	2.00	2	11/26/2024 01:33	WG2408490
1,2-Dibromoethane	U		0.0420	0.200	2	11/26/2024 01:33	WG2408490
Dibromomethane	U		0.0800	0.400	2	11/26/2024 01:33	WG2408490
1,2-Dichlorobenzene	U		0.116	0.400	2	11/26/2024 01:33	WG2408490
1,3-Dichlorobenzene	U		0.136	0.400	2	11/26/2024 01:33	WG2408490
1,4-Dichlorobenzene	U		0.158	0.400	2	11/26/2024 01:33	WG2408490
trans-1,4-Dichloro-2-butene	U		0.112	0.400	2	11/26/2024 01:33	WG2408490
Dichlorodifluoromethane	U		0.0654	0.400	2	11/26/2024 01:33	WG2408490
1,1-Dichloroethane	U		0.0460	0.200	2	11/26/2024 01:33	WG2408490
1,2-Dichloroethane	U		0.0380	0.200	2	11/26/2024 01:33	WG2408490
1,1-Dichloroethene	12.8		0.0400	0.200	2	11/26/2024 01:33	WG2408490
cis-1,2-Dichloroethene	7900		2.76	10.0	100	12/02/2024 19:45	WG2410807
trans-1,2-Dichloroethene	51.9		0.114	0.400	2	11/26/2024 01:33	WG2408490
1,2-Dichloropropane	U		0.102	0.400	2	11/26/2024 01:33	WG2408490
1,1-Dichloropropene	U		0.0560	0.200	2	11/26/2024 01:33	WG2408490
1,3-Dichloropropane	U		0.140	0.400	2	11/26/2024 01:33	WG2408490
cis-1,3-Dichloropropene	U		0.0542	0.200	2	11/26/2024 01:33	WG2408490
trans-1,3-Dichloropropene	U		0.122	0.400	2	11/26/2024 01:33	WG2408490
2,2-Dichloropropane	U		0.0634	0.200	2	11/26/2024 01:33	WG2408490
Di-isopropyl ether	U		0.0280	0.0800	2	11/26/2024 01:33	WG2408490
Ethylbenzene	0.130	U	0.0424	0.200	2	11/26/2024 01:33	WG2408490
Hexachloro-1,3-butadiene	U		1.02	2.00	2	11/26/2024 01:33	WG2408490
2-Hexanone	U		0.800	2.00	2	11/26/2024 01:33	WG2408490
n-Hexane	U		0.0848	0.400	2	11/26/2024 01:33	WG2408490
Iodomethane	U		0.484	1.00	2	11/26/2024 01:33	WG2408490
Isopropylbenzene	U		0.0690	0.200	2	11/26/2024 01:33	WG2408490
p-Isopropyltoluene	U		0.186	0.400	2	11/26/2024 01:33	WG2408490
2-Butanone (MEK)	U		1.00	2.00	2	11/26/2024 01:33	WG2408490
Methylene Chloride	U	U3	0.530	2.00	2	11/26/2024 01:33	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.800	2.00	2	11/26/2024 01:33	WG2408490
Methyl tert-butyl ether	0.270		0.0236	0.0800	2	11/26/2024 01:33	WG2408490
Naphthalene	U		0.248	1.00	2	11/26/2024 01:33	WG2408490
n-Propylbenzene	U		0.0944	0.400	2	11/26/2024 01:33	WG2408490
Styrene	U		0.218	1.00	2	11/26/2024 01:33	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0400	0.200	2	11/26/2024 01:33	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0312	0.200	2	11/26/2024 01:33	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0540	0.200	2	11/26/2024 01:33	WG2408490
Tetrachloroethene	U		0.0560	0.200	2	11/26/2024 01:33	WG2408490
Toluene	0.944		0.100	0.400	2	11/26/2024 01:33	WG2408490
1,2,3-Trichlorobenzene	U		0.0500	1.00	2	11/26/2024 01:33	WG2408490
1,2,4-Trichlorobenzene	U		0.386	1.00	2	11/26/2024 01:33	WG2408490
1,1,1-Trichloroethane	U		0.0220	0.200	2	11/26/2024 01:33	WG2408490
1,1,2-Trichloroethane	U		0.0706	0.200	2	11/26/2024 01:33	WG2408490
Trichloroethene	0.778		0.0320	0.0800	2	11/26/2024 01:33	WG2408490
Trichlorofluoromethane	U		0.0400	0.200	2	11/26/2024 01:33	WG2408490
1,2,3-Trichloropropane	U		0.408	1.00	2	11/26/2024 01:33	WG2408490
1,2,4-Trimethylbenzene	0.290	U	0.0928	0.400	2	11/26/2024 01:33	WG2408490
1,2,3-Trimethylbenzene	U		0.0920	0.400	2	11/26/2024 01:33	WG2408490
1,3,5-Trimethylbenzene	U		0.0864	0.400	2	11/26/2024 01:33	WG2408490
Vinyl acetate	U		0.282	1.00	2	11/26/2024 01:33	WG2408490
Vinyl chloride	3060		2.73	10.0	100	12/02/2024 19:45	WG2410807
Xylenes, Total	0.502	U	0.382	0.520	2	11/26/2024 01:33	WG2408490
(S) Toluene-d8	98.1			75.0-131		11/26/2024 01:33	WG2408490
(S) Toluene-d8	105			75.0-131		12/02/2024 19:45	WG2410807
(S) 4-Bromofluorobenzene	88.4			67.0-138		11/26/2024 01:33	WG2408490
(S) 4-Bromofluorobenzene	99.7			67.0-138		12/02/2024 19:45	WG2410807

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/6/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/26/2024 01:33	WG2408490
(S) 1,2-Dichloroethane-d4	98.6			70.0-130		12/02/2024 19:45	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	510000		4750	20000	1	11/27/2024 12:00	WG2409611

Sample Narrative:
L1802011-01 WG2409611: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	42900		547	1000	1	11/25/2024 16:08	WG2405410
Nitrate as (N)	U	R	88.4	100	1	11/25/2024 16:08	WG2405410
Sulfate	1290	J	637	5000	1	11/25/2024 16:08	WG2405410

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	13600		495	1000	1	11/28/2024 15:10	WG2409237

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	13400	J	22.6	100	1	12/03/2024 23:52	WG2407799
Manganese	1520		0.700	5.00	1	12/03/2024 23:52	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	16800		2.87	6.78	10	11/23/2024 10:48	WG2406886
Ethane	325		0.296	1.29	1	11/22/2024 11:25	WG2406175
Ethene	2.27	J	0.422	1.27	1	11/22/2024 11:25	WG2406175

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	UJ	0.548	1.00	1	11/26/2024 02:31	WG2408490
Acrylonitrile	U	J	0.0760	0.500	1	11/26/2024 02:31	WG2408490
Benzene	U		0.0160	0.0400	1	11/26/2024 02:31	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 02:31	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 02:31	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 02:31	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 02:31	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 02:31	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 02:31	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 02:31	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 02:31	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 02:31	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 02:31	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 02:31	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 02:31	WG2408490
Chloroethane	0.855		0.0432	0.200	1	11/26/2024 02:31	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 02:31	WG2408490
Chloromethane	U	J	0.0556	0.500	1	11/26/2024 02:31	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 02:31	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 02:31	WG2408490

JC 1/6/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 02:31	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 02:31	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 02:31	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 02:31	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 02:31	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 02:31	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 02:31	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 02:31	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 02:31	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 02:31	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 02:31	WG2408490
cis-1,2-Dichloroethene	0.234		0.0276	0.100	1	12/02/2024 15:38	WG2410807
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/26/2024 02:31	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 02:31	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 02:31	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 02:31	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 02:31	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 02:31	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 02:31	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 02:31	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 02:31	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 02:31	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 02:31	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 02:31	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 02:31	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 02:31	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 02:31	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 02:31	WG2408490
Methylene Chloride	U	13	0.265	1.00	1	11/26/2024 02:31	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 02:31	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 02:31	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 02:31	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 02:31	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 02:31	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 02:31	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 02:31	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 02:31	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 02:31	WG2408490
Toluene	0.0910	1	0.0500	0.200	1	11/26/2024 02:31	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 02:31	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 02:31	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 02:31	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 02:31	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 02:31	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 02:31	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 02:31	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 02:31	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 02:31	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 02:31	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 02:31	WG2408490
Vinyl chloride	1.58		0.0273	0.100	1	11/26/2024 02:31	WG2408490
Xylenes, Total	0.263		0.191	0.260	1	11/26/2024 02:31	WG2408490
(S) Toluene-d8	96.9			75.0-131		11/26/2024 02:31	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 15:38	WG2410807
(S) 4-Bromofluorobenzene	88.8			67.0-138		11/26/2024 02:31	WG2408490
(S) 4-Bromofluorobenzene	94.9			67.0-138		12/02/2024 15:38	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/26/2024 02:31	WG2408490
(S) 1,2-Dichloroethane-d4	98.1			70.0-130		12/02/2024 15:38	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	903000		4750	20000	1	11/27/2024 12:07	WG2409611

Sample Narrative:
L1802011-02 WG2409611: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	71900		547	1000	1	11/25/2024 16:20	WG2405410
Nitrate as (N)	U	R	88.4	100	1	11/25/2024 16:20	WG2405410
Sulfate	U		637	5000	1	11/25/2024 16:20	WG2405410

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	23100		495	1000	1	11/28/2024 15:28	WG2409237

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	25200		22.6	100	1	12/03/2024 23:55	WG2407799
Manganese	5680		0.700	5.00	1	12/03/2024 23:55	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	24500		2.87	6.78	10	11/23/2024 10:53	WG2406886
Ethane	188		0.296	1.29	1	11/22/2024 11:28	WG2406175
Ethene	5.63		0.422	1.27	1	11/22/2024 11:28	WG2406175

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	UJ	0.548	1.00	1	11/26/2024 02:50	WG2408490
Acrylonitrile	U		0.0760	0.500	1	11/26/2024 02:50	WG2408490
Benzene	0.0990		0.0160	0.0400	1	11/26/2024 02:50	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 02:50	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 02:50	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 02:50	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 02:50	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 02:50	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 02:50	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 02:50	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 02:50	WG2408490
Carbon disulfide	0.232	J	0.162	0.500	1	11/26/2024 02:50	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 02:50	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 02:50	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 02:50	WG2408490
Chloroethane	U		0.0432	0.200	1	11/26/2024 02:50	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 02:50	WG2408490
Chloromethane	U		0.0556	0.500	1	11/26/2024 02:50	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 02:50	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 02:50	WG2408490

JC 1/6/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 02:50	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 02:50	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 02:50	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 02:50	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 02:50	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 02:50	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 02:50	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 02:50	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 02:50	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 02:50	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 02:50	WG2408490
cis-1,2-Dichloroethene	3.12		0.0276	0.100	1	12/02/2024 15:57	WG2410807
trans-1,2-Dichloroethene	0.372		0.0572	0.200	1	11/26/2024 02:50	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 02:50	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 02:50	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 02:50	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 02:50	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 02:50	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 02:50	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 02:50	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 02:50	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 02:50	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 02:50	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 02:50	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 02:50	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 02:50	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 02:50	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 02:50	WG2408490
Methylene Chloride	U	J3	0.265	1.00	1	11/26/2024 02:50	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 02:50	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 02:50	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 02:50	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 02:50	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 02:50	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 02:50	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 02:50	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 02:50	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 02:50	WG2408490
Toluene	0.115	U	0.0500	0.200	1	11/26/2024 02:50	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 02:50	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 02:50	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 02:50	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 02:50	WG2408490
Trichloroethene	0.0510		0.0160	0.0400	1	11/26/2024 02:50	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 02:50	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 02:50	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 02:50	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 02:50	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 02:50	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 02:50	WG2408490
Vinyl chloride	3.84		0.0273	0.100	1	11/26/2024 02:50	WG2408490
Xylenes, Total	U		0.191	0.260	1	11/26/2024 02:50	WG2408490
(S) Toluene-d8	99.0			75.0-131		11/26/2024 02:50	WG2408490
(S) Toluene-d8	102			75.0-131		12/02/2024 15:57	WG2410807
(S) 4-Bromofluorobenzene	88.9			67.0-138		11/26/2024 02:50	WG2408490
(S) 4-Bromofluorobenzene	93.5			67.0-138		12/02/2024 15:57	WG2410807

JC 1/6/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/26/2024 02:50	WG2408490
(S) 1,2-Dichloroethane-d4	98.2			70.0-130		12/02/2024 15:57	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	456000		4750	20000	1	11/27/2024 12:11	WG2409611

Sample Narrative:
L1802011-03 WG2409611: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	36600		547	1000	1	11/25/2024 16:33	WG2405410
Nitrate as (N)	U	R	88.4	100	1	11/25/2024 16:33	WG2405410
Sulfate	4070	J	637	5000	1	11/25/2024 16:33	WG2405410

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	11900		495	1000	1	11/28/2024 15:44	WG2409237

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3250		22.6	100	1	12/03/2024 23:58	WG2407799
Manganese	890		0.700	5.00	1	12/03/2024 23:58	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	9820		2.87	6.78	10	11/23/2024 10:56	WG2406886
Ethane	212		0.296	1.29	1	11/22/2024 11:33	WG2406175
Ethene	15.5		0.422	1.27	1	11/22/2024 11:33	WG2406175

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	29.0	J-	0.548	1.00	1	11/26/2024 03:09	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 03:09	WG2408490
Benzene	U		0.0160	0.0400	1	11/26/2024 03:09	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 03:09	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 03:09	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 03:09	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 03:09	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 03:09	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 03:09	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 03:09	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 03:09	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 03:09	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 03:09	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 03:09	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 03:09	WG2408490
Chloroethane	U		0.0432	0.200	1	11/26/2024 03:09	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 03:09	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 03:09	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 03:09	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 03:09	WG2408490

JC 1/6/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 03:09	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 03:09	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 03:09	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 03:09	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 03:09	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 03:09	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 03:09	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 03:09	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 03:09	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 03:09	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 03:09	WG2408490
cis-1,2-Dichloroethene	0.191		0.0276	0.100	1	12/02/2024 16:16	WG2410807
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/26/2024 03:09	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 03:09	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 03:09	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 03:09	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 03:09	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 03:09	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 03:09	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 03:09	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 03:09	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 03:09	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 03:09	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 03:09	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 03:09	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 03:09	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 03:09	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 03:09	WG2408490
Methylene Chloride	U	33	0.265	1.00	1	11/26/2024 03:09	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 03:09	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 03:09	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 03:09	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 03:09	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 03:09	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 03:09	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 03:09	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 03:09	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 03:09	WG2408490
Toluene	U		0.0500	0.200	1	11/26/2024 03:09	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 03:09	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 03:09	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 03:09	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 03:09	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 03:09	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 03:09	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 03:09	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 03:09	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 03:09	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 03:09	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 03:09	WG2408490
Vinyl chloride	1.14		0.0273	0.100	1	11/26/2024 03:09	WG2408490
Xylenes, Total	U		0.191	0.260	1	11/26/2024 03:09	WG2408490
(S) Toluene-d8	96.8			75.0-131		11/26/2024 03:09	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 16:16	WG2410807
(S) 4-Bromofluorobenzene	88.3			67.0-138		11/26/2024 03:09	WG2408490
(S) 4-Bromofluorobenzene	93.8			67.0-138		12/02/2024 16:16	WG2410807

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/26/2024 03:09	WG2408490
(S) 1,2-Dichloroethane-d4	96.5			70.0-130		12/02/2024 16:16	WG2410807

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	517000		4750	20000	1	11/27/2024 12:17	WG2409611

Sample Narrative:
L1802011-04 WG2409611: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	42500		547	1000	1	11/25/2024 16:46	WG2405410
Nitrate as (N)	U	R TS	88.4	100	1	11/25/2024 16:46	WG2405410
Sulfate	1370	J	637	5000	1	11/25/2024 16:46	WG2405410

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	13700		495	1000	1	11/28/2024 16:01	WG2409237

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	7400	J	22.6	100	1	12/04/2024 00:02	WG2407799
Manganese	1480		0.700	5.00	1	12/04/2024 00:02	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	13400		2.87	6.78	10	11/23/2024 11:00	WG2406886
Ethane	260		0.296	1.29	1	11/22/2024 12:06	WG2406175
Ethene	4.83	J	0.422	1.27	1	11/22/2024 12:06	WG2406175

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	UJ CS JS	0.548	1.00	1	11/26/2024 03:29	WG2408490
Acrylonitrile	U	JS	0.0760	0.500	1	11/26/2024 03:29	WG2408490
Benzene	U		0.0160	0.0400	1	11/26/2024 03:29	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 03:29	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 03:29	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 03:29	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 03:29	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 03:29	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 03:29	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 03:29	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 03:29	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 03:29	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 03:29	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 03:29	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 03:29	WG2408490
Chloroethane	0.913		0.0432	0.200	1	11/26/2024 03:29	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 03:29	WG2408490
Chloromethane	U	JS	0.0556	0.500	1	11/26/2024 03:29	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 03:29	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 03:29	WG2408490

JC 1/6/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 03:29	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 03:29	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 03:29	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 03:29	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 03:29	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 03:29	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 03:29	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 03:29	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 03:29	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 03:29	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 03:29	WG2408490
cis-1,2-Dichloroethene	0.231		0.0276	0.100	1	12/02/2024 16:35	WG2410807
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/26/2024 03:29	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 03:29	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 03:29	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 03:29	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 03:29	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 03:29	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 03:29	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 03:29	WG2408490
Ethylbenzene	0.0320	U	0.0212	0.100	1	11/26/2024 03:29	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 03:29	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 03:29	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 03:29	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 03:29	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 03:29	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 03:29	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 03:29	WG2408490
Methylene Chloride	U	U	0.265	1.00	1	11/26/2024 03:29	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 03:29	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 03:29	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 03:29	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 03:29	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 03:29	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 03:29	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 03:29	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 03:29	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 03:29	WG2408490
Toluene	0.0980	U	0.0500	0.200	1	11/26/2024 03:29	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 03:29	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 03:29	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 03:29	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 03:29	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 03:29	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 03:29	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 03:29	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 03:29	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 03:29	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 03:29	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 03:29	WG2408490
Vinyl chloride	1.49		0.0273	0.100	1	11/26/2024 03:29	WG2408490
Xylenes, Total	0.269		0.191	0.260	1	11/26/2024 03:29	WG2408490
(S) Toluene-d8	99.6			75.0-131		11/26/2024 03:29	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 16:35	WG2410807
(S) 4-Bromofluorobenzene	87.7			67.0-138		11/26/2024 03:29	WG2408490
(S) 4-Bromofluorobenzene	94.2			67.0-138		12/02/2024 16:35	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/26/2024 03:29	WG2408490
(S) 1,2-Dichloroethane-d4	97.8			70.0-130		12/02/2024 16:35	WG2410807

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Alkalinity	1400000		4750	20000	1	11/27/2024 12:23	WG2409611

Sample Narrative:
L1802011-05 WG2409611: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Chloride	157000		547	1000	1	11/25/2024 16:59	WG2405410
Nitrate as (N)	U	R	78 88.4	100	1	11/25/2024 16:59	WG2405410
Sulfate	U		637	5000	1	11/25/2024 16:59	WG2405410

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	22700		495	1000	1	11/28/2024 16:19	WG2409237

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	18800		22.6	100	1	12/04/2024 00:05	WG2407799
Manganese	2510		0.700	5.00	1	12/04/2024 00:05	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	19700		2.87	6.78	10	11/23/2024 11:06	WG2406886
Ethane	81.1		0.296	1.29	1	11/22/2024 12:18	WG2406175
Ethene	15.3		0.422	1.27	1	11/22/2024 12:18	WG2406175

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U	UJ	C3 J3 0.548	1.00	1	11/26/2024 03:48	WG2408490
Acrylonitrile	U		J3 0.0760	0.500	1	11/26/2024 03:48	WG2408490
Benzene	0.0840		0.0160	0.0400	1	11/26/2024 03:48	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 03:48	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 03:48	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 03:48	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 03:48	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 03:48	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 03:48	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 03:48	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 03:48	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 03:48	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 03:48	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 03:48	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 03:48	WG2408490
Chloroethane	U		0.0432	0.200	1	11/26/2024 03:48	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 03:48	WG2408490
Chloromethane	U		J4 0.0556	0.500	1	11/26/2024 03:48	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 03:48	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 03:48	WG2408490

JC 1/6/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 03:48	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 03:48	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 03:48	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 03:48	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 03:48	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 03:48	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 03:48	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 03:48	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 03:48	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 03:48	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 03:48	WG2408490
cis-1,2-Dichloroethene	0.604		0.0276	0.100	1	12/02/2024 16:54	WG2410807
trans-1,2-Dichloroethene	0.0610	U	0.0572	0.200	1	11/26/2024 03:48	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 03:48	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 03:48	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 03:48	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 03:48	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 03:48	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 03:48	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 03:48	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 03:48	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 03:48	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 03:48	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 03:48	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 03:48	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 03:48	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 03:48	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 03:48	WG2408490
Methylene Chloride	U	U	0.265	1.00	1	11/26/2024 03:48	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 03:48	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 03:48	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 03:48	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 03:48	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 03:48	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 03:48	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 03:48	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 03:48	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 03:48	WG2408490
Toluene	U		0.0500	0.200	1	11/26/2024 03:48	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 03:48	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 03:48	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 03:48	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 03:48	WG2408490
Trichloroethene	0.0300	U	0.0160	0.0400	1	11/26/2024 03:48	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 03:48	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 03:48	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 03:48	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 03:48	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 03:48	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 03:48	WG2408490
Vinyl chloride	1.24		0.0273	0.100	1	11/26/2024 03:48	WG2408490
Xylenes, Total	U		0.191	0.260	1	11/26/2024 03:48	WG2408490
(S) Toluene-d8	98.1			75.0-131		11/26/2024 03:48	WG2408490
(S) Toluene-d8	105			75.0-131		12/02/2024 16:54	WG2410807
(S) 4-Bromofluorobenzene	88.3			67.0-138		11/26/2024 03:48	WG2408490
(S) 4-Bromofluorobenzene	95.3			67.0-138		12/02/2024 16:54	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/6/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/26/2024 03:48	WG2408490
(S) 1,2-Dichloroethane-d4	95.9			70.0-130		12/02/2024 16:54	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	857000		4750	20000	1	11/24/2024 10:33	WG2407607

Sample Narrative:
L1802018-01 WG2407607: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	94100		547	1000	1	11/22/2024 21:22	WG2405411
Nitrate as (N)	U	TS	88.4	100	1	11/22/2024 21:22	WG2405411
Sulfate	1280	J	637	5000	1	11/22/2024 21:22	WG2405411

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	8380		495	1000	1	11/28/2024 16:35	WG2409237

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	4100		22.6	100	1	12/04/2024 00:08	WG2407799
Manganese	1120		0.700	5.00	1	12/04/2024 00:08	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	22300		2.87	6.78	10	11/23/2024 11:34	WG2406886
Ethane	442		0.296	1.29	1	11/22/2024 12:28	WG2406175
Ethene	U		0.422	1.27	1	11/22/2024 12:28	WG2406175

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
	ug/l		ug/l	ug/l		date / time		
Acetone	U	UJ	C3 JS	0.548	1.00	1	11/26/2024 04:07	WG2408490
Acrylonitrile	U		JS	0.0760	0.500	1	11/26/2024 04:07	WG2408490
Benzene	U			0.0160	0.0400	1	11/26/2024 04:07	WG2408490
Bromobenzene	U			0.0420	0.500	1	11/26/2024 04:07	WG2408490
Bromochloromethane	U			0.0452	0.200	1	11/26/2024 04:07	WG2408490
Bromodichloromethane	U			0.0315	0.100	1	11/26/2024 04:07	WG2408490
Bromoform	U			0.239	1.00	1	11/26/2024 04:07	WG2408490
Bromomethane	U			0.148	0.500	1	11/26/2024 04:07	WG2408490
n-Butylbenzene	U			0.153	0.500	1	11/26/2024 04:07	WG2408490
sec-Butylbenzene	U			0.101	0.500	1	11/26/2024 04:07	WG2408490
tert-Butylbenzene	U			0.0620	0.200	1	11/26/2024 04:07	WG2408490
Carbon disulfide	U			0.162	0.500	1	11/26/2024 04:07	WG2408490
Carbon tetrachloride	U			0.0432	0.200	1	11/26/2024 04:07	WG2408490
Chlorobenzene	U			0.0229	0.100	1	11/26/2024 04:07	WG2408490
Chlorodibromomethane	U			0.0180	0.100	1	11/26/2024 04:07	WG2408490
Chloroethane	U			0.0432	0.200	1	11/26/2024 04:07	WG2408490
Chloroform	U			0.0166	0.100	1	11/26/2024 04:07	WG2408490
Chloromethane	U		J4	0.0556	0.500	1	11/26/2024 04:07	WG2408490
2-Chlorotoluene	U			0.0368	0.100	1	11/26/2024 04:07	WG2408490
4-Chlorotoluene	U			0.0452	0.200	1	11/26/2024 04:07	WG2408490

IC: 1/6/2025

JC 1/6/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 04:07	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 04:07	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 04:07	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 04:07	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 04:07	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 04:07	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 04:07	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 04:07	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 04:07	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 04:07	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 04:07	WG2408490
cis-1,2-Dichloroethene	0.0530	U	0.0276	0.100	1	12/02/2024 17:13	WG2410807
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/26/2024 04:07	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 04:07	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 04:07	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 04:07	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 04:07	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 04:07	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 04:07	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 04:07	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 04:07	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 04:07	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 04:07	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 04:07	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 04:07	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 04:07	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 04:07	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 04:07	WG2408490
Methylene Chloride	U	JS	0.265	1.00	1	11/26/2024 04:07	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 04:07	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 04:07	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 04:07	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 04:07	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 04:07	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 04:07	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 04:07	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 04:07	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 04:07	WG2408490
Toluene	U		0.0500	0.200	1	11/26/2024 04:07	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 04:07	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 04:07	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 04:07	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 04:07	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 04:07	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 04:07	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 04:07	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 04:07	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 04:07	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 04:07	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 04:07	WG2408490
Vinyl chloride	U		0.0273	0.100	1	12/02/2024 17:13	WG2410807
Xylenes, Total	U		0.191	0.260	1	11/26/2024 04:07	WG2408490
(S) Toluene-d8	98.6			75.0-131		11/26/2024 04:07	WG2408490
(S) Toluene-d8	103			75.0-131		12/02/2024 17:13	WG2410807
(S) 4-Bromofluorobenzene	88.6			67.0-138		11/26/2024 04:07	WG2408490
(S) 4-Bromofluorobenzene	94.8			67.0-138		12/02/2024 17:13	WG2410807

JC 1/6/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/26/2024 04:07	WG2408490
(S) 1,2-Dichloroethane-d4	99.7			70.0-130		12/02/2024 17:13	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	1030000		4750	20000	1	11/24/2024 10:37	WG2407607

Sample Narrative:
L1802018-02 WG2407607: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	99700		2740	5000	5	11/26/2024 19:01	WG2405411
Nitrate as (N)	U	T8	88.4	100	1	11/22/2024 21:35	WG2405411
Sulfate	U		637	5000	1	11/22/2024 21:35	WG2405411

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	13300		495	1000	1	11/28/2024 16:52	WG2409237

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	7720		22.6	100	1	12/04/2024 00:21	WG2407799
Manganese	1910		0.700	5.00	1	12/04/2024 00:21	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	21900		2.87	6.78	10	11/23/2024 11:42	WG2406886
Ethane	228		0.296	1.29	1	11/22/2024 12:35	WG2406175
Ethene	11.0		0.422	1.27	1	11/22/2024 12:35	WG2406175

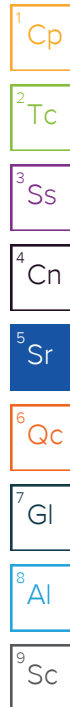
Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	UJ	0.548	1.00	1	11/26/2024 04:26	WG2408490
Acrylonitrile	U	J3	0.0760	0.500	1	11/26/2024 04:26	WG2408490
Benzene	0.0450		0.0160	0.0400	1	11/26/2024 04:26	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 04:26	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 04:26	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 04:26	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 04:26	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 04:26	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 04:26	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 04:26	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 04:26	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 04:26	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 04:26	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 04:26	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 04:26	WG2408490
Chloroethane	U		0.0432	0.200	1	11/26/2024 04:26	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 04:26	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 04:26	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 04:26	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 04:26	WG2408490

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 04:26	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 04:26	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 04:26	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 04:26	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 04:26	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 04:26	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 04:26	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 04:26	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 04:26	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 04:26	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 04:26	WG2408490
cis-1,2-Dichloroethene	0.153		0.0276	0.100	1	12/02/2024 17:32	WG2410807
trans-1,2-Dichloroethene	0.651		0.0572	0.200	1	11/26/2024 04:26	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 04:26	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 04:26	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 04:26	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 04:26	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 04:26	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 04:26	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 04:26	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 04:26	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 04:26	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 04:26	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 04:26	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 04:26	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 04:26	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 04:26	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 04:26	WG2408490
Methylene Chloride	U	3	0.265	1.00	1	11/26/2024 04:26	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 04:26	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 04:26	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 04:26	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 04:26	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 04:26	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 04:26	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 04:26	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 04:26	WG2408490
Tetrachloroethene	U		0.0280	0.100	1	11/26/2024 04:26	WG2408490
Toluene	0.0750	U	0.0500	0.200	1	11/26/2024 04:26	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 04:26	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 04:26	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 04:26	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 04:26	WG2408490
Trichloroethene	0.0350	U	0.0160	0.0400	1	11/26/2024 04:26	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 04:26	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 04:26	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 04:26	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 04:26	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 04:26	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 04:26	WG2408490
Vinyl chloride	0.350		0.0273	0.100	1	12/02/2024 17:32	WG2410807
Xylenes, Total	U		0.191	0.260	1	11/26/2024 04:26	WG2408490
(S) Toluene-d8	97.9			75.0-131		11/26/2024 04:26	WG2408490
(S) Toluene-d8	104			75.0-131		12/02/2024 17:32	WG2410807
(S) 4-Bromofluorobenzene	89.7			67.0-138		11/26/2024 04:26	WG2408490
(S) 4-Bromofluorobenzene	94.1			67.0-138		12/02/2024 17:32	WG2410807



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/26/2024 04:26	WG2408490
(S) 1,2-Dichloroethane-d4	98.9			70.0-130		12/02/2024 17:32	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	270000		4750	20000	1	11/24/2024 10:42	WG2407607

Sample Narrative:
L1802018-03 WG2407607: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	42900		547	1000	1	11/22/2024 22:16	WG2405411
Nitrate as (N)	U	T6	88.4	100	1	11/22/2024 22:16	WG2405411
Sulfate	23300		637	5000	1	11/22/2024 22:16	WG2405411

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1910		495	1000	1	11/28/2024 17:38	WG2409237

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	1750		22.6	100	1	12/04/2024 00:24	WG2407799
Manganese	598		0.700	5.00	1	12/04/2024 00:24	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	366		0.287	0.678	1	11/22/2024 12:49	WG2406175
Ethane	11.1		0.296	1.29	1	11/22/2024 12:49	WG2406175
Ethene	U		0.422	1.27	1	11/22/2024 12:49	WG2406175

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	C3 JS	0.548	1.00	1	11/26/2024 04:45	WG2408490
Acrylonitrile	U	JS	0.0760	0.500	1	11/26/2024 04:45	WG2408490
Benzene	U		0.0160	0.0400	1	11/26/2024 04:45	WG2408490
Bromobenzene	U		0.0420	0.500	1	11/26/2024 04:45	WG2408490
Bromochloromethane	U		0.0452	0.200	1	11/26/2024 04:45	WG2408490
Bromodichloromethane	U		0.0315	0.100	1	11/26/2024 04:45	WG2408490
Bromoform	U		0.239	1.00	1	11/26/2024 04:45	WG2408490
Bromomethane	U		0.148	0.500	1	11/26/2024 04:45	WG2408490
n-Butylbenzene	U		0.153	0.500	1	11/26/2024 04:45	WG2408490
sec-Butylbenzene	U		0.101	0.500	1	11/26/2024 04:45	WG2408490
tert-Butylbenzene	U		0.0620	0.200	1	11/26/2024 04:45	WG2408490
Carbon disulfide	U		0.162	0.500	1	11/26/2024 04:45	WG2408490
Carbon tetrachloride	U		0.0432	0.200	1	11/26/2024 04:45	WG2408490
Chlorobenzene	U		0.0229	0.100	1	11/26/2024 04:45	WG2408490
Chlorodibromomethane	U		0.0180	0.100	1	11/26/2024 04:45	WG2408490
Chloroethane	U		0.0432	0.200	1	11/26/2024 04:45	WG2408490
Chloroform	U		0.0166	0.100	1	11/26/2024 04:45	WG2408490
Chloromethane	U	J4	0.0556	0.500	1	11/26/2024 04:45	WG2408490
2-Chlorotoluene	U		0.0368	0.100	1	11/26/2024 04:45	WG2408490
4-Chlorotoluene	U		0.0452	0.200	1	11/26/2024 04:45	WG2408490

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/6/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 04:45	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 04:45	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 04:45	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 04:45	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 04:45	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 04:45	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 04:45	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 04:45	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 04:45	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 04:45	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 04:45	WG2408490
cis-1,2-Dichloroethene	0.0990	J	0.0276	0.100	1	12/02/2024 17:51	WG2410807
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/26/2024 04:45	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 04:45	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 04:45	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 04:45	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 04:45	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 04:45	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 04:45	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 04:45	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 04:45	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 04:45	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 04:45	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 04:45	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 04:45	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 04:45	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 04:45	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 04:45	WG2408490
Methylene Chloride	U	J	0.265	1.00	1	11/26/2024 04:45	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 04:45	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 04:45	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 04:45	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 04:45	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 04:45	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 04:45	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 04:45	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 04:45	WG2408490
Tetrachloroethene	0.0430	J	0.0280	0.100	1	11/26/2024 04:45	WG2408490
Toluene	U		0.0500	0.200	1	11/26/2024 04:45	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 04:45	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 04:45	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 04:45	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 04:45	WG2408490
Trichloroethene	U		0.0160	0.0400	1	11/26/2024 04:45	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 04:45	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 04:45	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 04:45	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 04:45	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 04:45	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 04:45	WG2408490
Vinyl chloride	0.172		0.0273	0.100	1	12/02/2024 17:51	WG2410807
Xylenes, Total	U		0.191	0.260	1	11/26/2024 04:45	WG2408490
(S) Toluene-d8	98.7			75.0-131		11/26/2024 04:45	WG2408490
(S) Toluene-d8	103			75.0-131		12/02/2024 17:51	WG2410807
(S) 4-Bromofluorobenzene	89.6			67.0-138		11/26/2024 04:45	WG2408490
(S) 4-Bromofluorobenzene	94.6			67.0-138		12/02/2024 17:51	WG2410807

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/26/2024 04:45	WG2408490
(S) 1,2-Dichloroethane-d4	101			70.0-130		12/02/2024 17:51	WG2410807

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Alkalinity	269000		4750	20000	1	11/24/2024 10:47	WG2407607

Sample Narrative:
L1802018-04 WG2407607: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Chloride	41900		547	1000	1	11/22/2024 22:29	WG2405411
Nitrate as (N)	U	T8	88.4	100	1	11/22/2024 22:29	WG2405411
Sulfate	22700		637	5000	1	11/22/2024 22:29	WG2405411

Wet Chemistry by Method 9060A

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
TOC (Total Organic Carbon)	2010		495	1000	1	11/28/2024 18:26	WG2409237

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Iron	1720		22.6	100	1	12/04/2024 00:27	WG2407799
Manganese	599		0.700	5.00	1	12/04/2024 00:27	WG2407799

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	ug/l		ug/l	ug/l			
Methane	319		0.287	0.678	1	11/22/2024 12:52	WG2406175
Ethane	9.37		0.296	1.29	1	11/22/2024 12:52	WG2406175
Ethene	U		0.422	1.27	1	11/22/2024 12:52	WG2406175

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	ug/l		date / time		
Acetone	U	UJ	C3 J3	0.548	1.00	1	11/26/2024 05:05	WG2408490
Acrylonitrile	U		J3	0.0760	0.500	1	11/26/2024 05:05	WG2408490
Benzene	U			0.0160	0.0400	1	11/26/2024 05:05	WG2408490
Bromobenzene	U			0.0420	0.500	1	11/26/2024 05:05	WG2408490
Bromochloromethane	U			0.0452	0.200	1	11/26/2024 05:05	WG2408490
Bromodichloromethane	U			0.0315	0.100	1	11/26/2024 05:05	WG2408490
Bromoform	U			0.239	1.00	1	11/26/2024 05:05	WG2408490
Bromomethane	U			0.148	0.500	1	11/26/2024 05:05	WG2408490
n-Butylbenzene	U			0.153	0.500	1	11/26/2024 05:05	WG2408490
sec-Butylbenzene	U			0.101	0.500	1	11/26/2024 05:05	WG2408490
tert-Butylbenzene	U			0.0620	0.200	1	11/26/2024 05:05	WG2408490
Carbon disulfide	U			0.162	0.500	1	11/26/2024 05:05	WG2408490
Carbon tetrachloride	U			0.0432	0.200	1	11/26/2024 05:05	WG2408490
Chlorobenzene	U			0.0229	0.100	1	11/26/2024 05:05	WG2408490
Chlorodibromomethane	U			0.0180	0.100	1	11/26/2024 05:05	WG2408490
Chloroethane	U			0.0432	0.200	1	11/26/2024 05:05	WG2408490
Chloroform	U			0.0166	0.100	1	11/26/2024 05:05	WG2408490
Chloromethane	U		J4	0.0556	0.500	1	11/26/2024 05:05	WG2408490
2-Chlorotoluene	U			0.0368	0.100	1	11/26/2024 05:05	WG2408490
4-Chlorotoluene	U			0.0452	0.200	1	11/26/2024 05:05	WG2408490

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/6/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/26/2024 05:05	WG2408490
1,2-Dibromoethane	U		0.0210	0.100	1	11/26/2024 05:05	WG2408490
Dibromomethane	U		0.0400	0.200	1	11/26/2024 05:05	WG2408490
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/26/2024 05:05	WG2408490
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/26/2024 05:05	WG2408490
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/26/2024 05:05	WG2408490
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/26/2024 05:05	WG2408490
Dichlorodifluoromethane	U		0.0327	0.200	1	11/26/2024 05:05	WG2408490
1,1-Dichloroethane	U		0.0230	0.100	1	11/26/2024 05:05	WG2408490
1,2-Dichloroethane	U		0.0190	0.100	1	11/26/2024 05:05	WG2408490
1,1-Dichloroethene	U		0.0200	0.100	1	11/26/2024 05:05	WG2408490
cis-1,2-Dichloroethene	0.0830	<u>U</u>	0.0276	0.100	1	12/02/2024 18:10	WG2410807
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/26/2024 05:05	WG2408490
1,2-Dichloropropane	U		0.0508	0.200	1	11/26/2024 05:05	WG2408490
1,1-Dichloropropene	U		0.0280	0.100	1	11/26/2024 05:05	WG2408490
1,3-Dichloropropane	U		0.0700	0.200	1	11/26/2024 05:05	WG2408490
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/26/2024 05:05	WG2408490
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/26/2024 05:05	WG2408490
2,2-Dichloropropane	U		0.0317	0.100	1	11/26/2024 05:05	WG2408490
Di-isopropyl ether	U		0.0140	0.0400	1	11/26/2024 05:05	WG2408490
Ethylbenzene	U		0.0212	0.100	1	11/26/2024 05:05	WG2408490
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/26/2024 05:05	WG2408490
2-Hexanone	U		0.400	1.00	1	11/26/2024 05:05	WG2408490
n-Hexane	U		0.0424	0.200	1	11/26/2024 05:05	WG2408490
Iodomethane	U		0.242	0.500	1	11/26/2024 05:05	WG2408490
Isopropylbenzene	U		0.0345	0.100	1	11/26/2024 05:05	WG2408490
p-Isopropyltoluene	U		0.0932	0.200	1	11/26/2024 05:05	WG2408490
2-Butanone (MEK)	U		0.500	1.00	1	11/26/2024 05:05	WG2408490
Methylene Chloride	U	<u>U3</u>	0.265	1.00	1	11/26/2024 05:05	WG2408490
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/26/2024 05:05	WG2408490
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/26/2024 05:05	WG2408490
Naphthalene	U		0.124	0.500	1	11/26/2024 05:05	WG2408490
n-Propylbenzene	U		0.0472	0.200	1	11/26/2024 05:05	WG2408490
Styrene	U		0.109	0.500	1	11/26/2024 05:05	WG2408490
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/26/2024 05:05	WG2408490
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/26/2024 05:05	WG2408490
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/26/2024 05:05	WG2408490
Tetrachloroethene	0.183	<u>J</u>	0.0280	0.100	1	11/26/2024 05:05	WG2408490
Toluene	U		0.0500	0.200	1	11/26/2024 05:05	WG2408490
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/26/2024 05:05	WG2408490
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/26/2024 05:05	WG2408490
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/26/2024 05:05	WG2408490
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/26/2024 05:05	WG2408490
Trichloroethene	0.0740		0.0160	0.0400	1	11/26/2024 05:05	WG2408490
Trichlorofluoromethane	U		0.0200	0.100	1	11/26/2024 05:05	WG2408490
1,2,3-Trichloropropane	U		0.204	0.500	1	11/26/2024 05:05	WG2408490
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/26/2024 05:05	WG2408490
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/26/2024 05:05	WG2408490
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/26/2024 05:05	WG2408490
Vinyl acetate	U		0.141	0.500	1	11/26/2024 05:05	WG2408490
Vinyl chloride	U		0.0273	0.100	1	12/02/2024 18:10	WG2410807
Xylenes, Total	U		0.191	0.260	1	11/26/2024 05:05	WG2408490
(S) Toluene-d8	98.0			75.0-131		11/26/2024 05:05	WG2408490
(S) Toluene-d8	103			75.0-131		12/02/2024 18:10	WG2410807
(S) 4-Bromofluorobenzene	87.4			67.0-138		11/26/2024 05:05	WG2408490
(S) 4-Bromofluorobenzene	94.8			67.0-138		12/02/2024 18:10	WG2410807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/6/2025

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

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/26/2024 05:05	WG2408490
(S) 1,2-Dichloroethane-d4	98.7			70.0-130		12/02/2024 18:10	WG2410807

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
	ug/l		ug/l	ug/l		date / time		
Acetone	1.55	U	C5 J4	0.548	1.00	1	12/01/2024 14:51	WG2410861
Acrylonitrile	U		J4	0.0760	0.500	1	12/01/2024 14:51	WG2410861
Benzene	U			0.0160	0.0400	1	12/01/2024 14:51	WG2410861
Bromobenzene	U			0.0420	0.500	1	12/01/2024 14:51	WG2410861
Bromochloromethane	U			0.0452	0.200	1	12/01/2024 14:51	WG2410861
Bromodichloromethane	U			0.0315	0.100	1	12/01/2024 14:51	WG2410861
Bromoform	U			0.239	1.00	1	12/01/2024 14:51	WG2410861
Bromomethane	U			0.148	0.500	1	12/01/2024 14:51	WG2410861
n-Butylbenzene	U			0.153	0.500	1	12/01/2024 14:51	WG2410861
sec-Butylbenzene	U			0.101	0.500	1	12/01/2024 14:51	WG2410861
tert-Butylbenzene	U			0.0620	0.200	1	12/01/2024 14:51	WG2410861
Carbon disulfide	0.530			0.162	0.500	1	12/01/2024 14:51	WG2410861
Carbon tetrachloride	U			0.0432	0.200	1	12/01/2024 14:51	WG2410861
Chlorobenzene	U			0.0229	0.100	1	12/01/2024 14:51	WG2410861
Chlorodibromomethane	U			0.0180	0.100	1	12/01/2024 14:51	WG2410861
Chloroethane	0.297			0.0432	0.200	1	12/01/2024 14:51	WG2410861
Chloroform	U			0.0166	0.100	1	12/01/2024 14:51	WG2410861
Chloromethane	U			0.0556	0.500	1	12/01/2024 14:51	WG2410861
2-Chlorotoluene	U			0.0368	0.100	1	12/01/2024 14:51	WG2410861
4-Chlorotoluene	U			0.0452	0.200	1	12/01/2024 14:51	WG2410861
1,2-Dibromo-3-Chloropropane	U			0.204	1.00	1	12/01/2024 14:51	WG2410861
1,2-Dibromoethane	U			0.0210	0.100	1	12/01/2024 14:51	WG2410861
Dibromomethane	U			0.0400	0.200	1	12/01/2024 14:51	WG2410861
1,2-Dichlorobenzene	U			0.0580	0.200	1	12/01/2024 14:51	WG2410861
1,3-Dichlorobenzene	U			0.0680	0.200	1	12/01/2024 14:51	WG2410861
1,4-Dichlorobenzene	U			0.0788	0.200	1	12/01/2024 14:51	WG2410861
trans-1,4-Dichloro-2-butene	U	UJ	C3	0.0560	0.200	1	12/01/2024 14:51	WG2410861
Dichlorodifluoromethane	U			0.0327	0.200	1	12/01/2024 14:51	WG2410861
1,1-Dichloroethane	U			0.0230	0.100	1	12/01/2024 14:51	WG2410861
1,2-Dichloroethane	U			0.0190	0.100	1	12/01/2024 14:51	WG2410861
1,1-Dichloroethene	U			0.0200	0.100	1	12/01/2024 14:51	WG2410861
cis-1,2-Dichloroethene	5.99			0.0276	0.100	1	12/01/2024 14:51	WG2410861
trans-1,2-Dichloroethene	0.118		J	0.0572	0.200	1	12/01/2024 14:51	WG2410861
1,2-Dichloropropane	U			0.0508	0.200	1	12/01/2024 14:51	WG2410861
1,1-Dichloropropene	U			0.0280	0.100	1	12/01/2024 14:51	WG2410861
1,3-Dichloropropane	U			0.0700	0.200	1	12/01/2024 14:51	WG2410861
cis-1,3-Dichloropropene	U			0.0271	0.100	1	12/01/2024 14:51	WG2410861
trans-1,3-Dichloropropene	U			0.0612	0.200	1	12/01/2024 14:51	WG2410861
2,2-Dichloropropane	U		J4	0.0317	0.100	1	12/01/2024 14:51	WG2410861
Di-isopropyl ether	U			0.0140	0.0400	1	12/01/2024 14:51	WG2410861
Ethylbenzene	0.0440		J	0.0212	0.100	1	12/01/2024 14:51	WG2410861
Hexachloro-1,3-butadiene	U			0.508	1.00	1	12/01/2024 14:51	WG2410861
2-Hexanone	U			0.400	1.00	1	12/01/2024 14:51	WG2410861
n-Hexane	U			0.0424	0.200	1	12/01/2024 14:51	WG2410861
Iodomethane	U			0.242	0.500	1	12/01/2024 14:51	WG2410861
Isopropylbenzene	U			0.0345	0.100	1	12/01/2024 14:51	WG2410861
p-Isopropyltoluene	U			0.0932	0.200	1	12/01/2024 14:51	WG2410861
2-Butanone (MEK)	U			0.500	1.00	1	12/01/2024 14:51	WG2410861
Methylene Chloride	U			0.265	1.00	1	12/01/2024 14:51	WG2410861
4-Methyl-2-pentanone (MIBK)	U			0.400	1.00	1	12/01/2024 14:51	WG2410861
Methyl tert-butyl ether	U			0.0118	0.0400	1	12/01/2024 14:51	WG2410861
Naphthalene	U	UJ	C3	0.124	0.500	1	12/01/2024 14:51	WG2410861
n-Propylbenzene	U			0.0472	0.200	1	12/01/2024 14:51	WG2410861
Styrene	U			0.109	0.500	1	12/01/2024 14:51	WG2410861
1,1,1,2-Tetrachloroethane	U			0.0200	0.100	1	12/01/2024 14:51	WG2410861
1,1,2,2-Tetrachloroethane	U			0.0156	0.100	1	12/01/2024 14:51	WG2410861

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	UJ C3	0.0270	0.100	1	12/01/2024 14:51	WG2410861
Tetrachloroethene	U		0.0280	0.100	1	12/01/2024 14:51	WG2410861
Toluene	U		0.0500	0.200	1	12/01/2024 14:51	WG2410861
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	12/01/2024 14:51	WG2410861
1,2,4-Trichlorobenzene	U		0.193	0.500	1	12/01/2024 14:51	WG2410861
1,1,1-Trichloroethane	U		0.0110	0.100	1	12/01/2024 14:51	WG2410861
1,1,2-Trichloroethane	U		0.0353	0.100	1	12/01/2024 14:51	WG2410861
Trichloroethene	0.0420		0.0160	0.0400	1	12/01/2024 14:51	WG2410861
Trichlorofluoromethane	U		0.0200	0.100	1	12/01/2024 14:51	WG2410861
1,2,3-Trichloropropane	U		0.204	0.500	1	12/01/2024 14:51	WG2410861
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	12/01/2024 14:51	WG2410861
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	12/01/2024 14:51	WG2410861
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	12/01/2024 14:51	WG2410861
Vinyl acetate	U		0.141	0.500	1	12/01/2024 14:51	WG2410861
Vinyl chloride	95.2	J+ C5	0.0273	0.100	1	12/01/2024 14:51	WG2410861
Xylenes, Total	U		0.191	0.260	1	12/01/2024 14:51	WG2410861
(S) Toluene-d8	103			75.0-131		12/01/2024 14:51	WG2410861
(S) 4-Bromofluorobenzene	94.1			67.0-138		12/01/2024 14:51	WG2410861
(S) 1,2-Dichloroethane-d4	98.8			70.0-130		12/01/2024 14:51	WG2410861

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

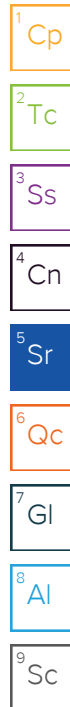
7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	34	0.548	1.00	1	12/01/2024 15:10	WG2410861
Acrylonitrile	U	34	0.0760	0.500	1	12/01/2024 15:10	WG2410861
Benzene	1.80		0.0160	0.0400	1	12/01/2024 15:10	WG2410861
Bromobenzene	U		0.0420	0.500	1	12/01/2024 15:10	WG2410861
Bromochloromethane	U		0.0452	0.200	1	12/01/2024 15:10	WG2410861
Bromodichloromethane	U		0.0315	0.100	1	12/01/2024 15:10	WG2410861
Bromoform	U		0.239	1.00	1	12/01/2024 15:10	WG2410861
Bromomethane	U		0.148	0.500	1	12/01/2024 15:10	WG2410861
n-Butylbenzene	U		0.153	0.500	1	12/01/2024 15:10	WG2410861
sec-Butylbenzene	U		0.101	0.500	1	12/01/2024 15:10	WG2410861
tert-Butylbenzene	U		0.0620	0.200	1	12/01/2024 15:10	WG2410861
Carbon disulfide	U		0.162	0.500	1	12/01/2024 15:10	WG2410861
Carbon tetrachloride	U		0.0432	0.200	1	12/01/2024 15:10	WG2410861
Chlorobenzene	U		0.0229	0.100	1	12/01/2024 15:10	WG2410861
Chlorodibromomethane	U		0.0180	0.100	1	12/01/2024 15:10	WG2410861
Chloroethane	U		0.0432	0.200	1	12/01/2024 15:10	WG2410861
Chloroform	U		0.0166	0.100	1	12/01/2024 15:10	WG2410861
Chloromethane	U		0.0556	0.500	1	12/01/2024 15:10	WG2410861
2-Chlorotoluene	U		0.0368	0.100	1	12/01/2024 15:10	WG2410861
4-Chlorotoluene	U		0.0452	0.200	1	12/01/2024 15:10	WG2410861
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	12/01/2024 15:10	WG2410861
1,2-Dibromoethane	U		0.0210	0.100	1	12/01/2024 15:10	WG2410861
Dibromomethane	U		0.0400	0.200	1	12/01/2024 15:10	WG2410861
1,2-Dichlorobenzene	U		0.0580	0.200	1	12/01/2024 15:10	WG2410861
1,3-Dichlorobenzene	U		0.0680	0.200	1	12/01/2024 15:10	WG2410861
1,4-Dichlorobenzene	U		0.0788	0.200	1	12/01/2024 15:10	WG2410861
trans-1,4-Dichloro-2-butene	U	UJ C3	0.0560	0.200	1	12/01/2024 15:10	WG2410861
Dichlorodifluoromethane	U		0.0327	0.200	1	12/01/2024 15:10	WG2410861
1,1-Dichloroethane	U		0.0230	0.100	1	12/01/2024 15:10	WG2410861
1,2-Dichloroethane	U		0.0190	0.100	1	12/01/2024 15:10	WG2410861
1,1-Dichloroethene	U		0.0200	0.100	1	12/01/2024 15:10	WG2410861
cis-1,2-Dichloroethene	11.0		0.0276	0.100	1	12/01/2024 15:10	WG2410861
trans-1,2-Dichloroethene	0.0790	J	0.0572	0.200	1	12/01/2024 15:10	WG2410861
1,2-Dichloropropane	U		0.0508	0.200	1	12/01/2024 15:10	WG2410861
1,1-Dichloropropene	U		0.0280	0.100	1	12/01/2024 15:10	WG2410861
1,3-Dichloropropane	U		0.0700	0.200	1	12/01/2024 15:10	WG2410861
cis-1,3-Dichloropropene	U		0.0271	0.100	1	12/01/2024 15:10	WG2410861
trans-1,3-Dichloropropene	U		0.0612	0.200	1	12/01/2024 15:10	WG2410861
2,2-Dichloropropane	U	34	0.0317	0.100	1	12/01/2024 15:10	WG2410861
Di-isopropyl ether	0.0920		0.0140	0.0400	1	12/01/2024 15:10	WG2410861
Ethylbenzene	U		0.0212	0.100	1	12/01/2024 15:10	WG2410861
Hexachloro-1,3-butadiene	U		0.508	1.00	1	12/01/2024 15:10	WG2410861
2-Hexanone	U		0.400	1.00	1	12/01/2024 15:10	WG2410861
n-Hexane	U		0.0424	0.200	1	12/01/2024 15:10	WG2410861
Iodomethane	U		0.242	0.500	1	12/01/2024 15:10	WG2410861
Isopropylbenzene	U		0.0345	0.100	1	12/01/2024 15:10	WG2410861
p-Isopropyltoluene	U		0.0932	0.200	1	12/01/2024 15:10	WG2410861
2-Butanone (MEK)	U		0.500	1.00	1	12/01/2024 15:10	WG2410861
Methylene Chloride	U		0.265	1.00	1	12/01/2024 15:10	WG2410861
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	12/01/2024 15:10	WG2410861
Methyl tert-butyl ether	U		0.0118	0.0400	1	12/01/2024 15:10	WG2410861
Naphthalene	U	UJ C3	0.124	0.500	1	12/01/2024 15:10	WG2410861
n-Propylbenzene	U		0.0472	0.200	1	12/01/2024 15:10	WG2410861
Styrene	U		0.109	0.500	1	12/01/2024 15:10	WG2410861
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	12/01/2024 15:10	WG2410861
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	12/01/2024 15:10	WG2410861



JC 1/6/2025

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

Analyte	Result ug/l		Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	UJ	CS	0.0270	0.100	1	12/01/2024 15:10	WG2410861
Tetrachloroethene	U			0.0280	0.100	1	12/01/2024 15:10	WG2410861
Toluene	U			0.0500	0.200	1	12/01/2024 15:10	WG2410861
1,2,3-Trichlorobenzene	U			0.0250	0.500	1	12/01/2024 15:10	WG2410861
1,2,4-Trichlorobenzene	U			0.193	0.500	1	12/01/2024 15:10	WG2410861
1,1,1-Trichloroethane	U			0.0110	0.100	1	12/01/2024 15:10	WG2410861
1,1,2-Trichloroethane	U			0.0353	0.100	1	12/01/2024 15:10	WG2410861
Trichloroethene	U			0.0160	0.0400	1	12/01/2024 15:10	WG2410861
Trichlorofluoromethane	U			0.0200	0.100	1	12/01/2024 15:10	WG2410861
1,2,3-Trichloropropane	U			0.204	0.500	1	12/01/2024 15:10	WG2410861
1,2,4-Trimethylbenzene	U			0.0464	0.200	1	12/01/2024 15:10	WG2410861
1,2,3-Trimethylbenzene	U			0.0460	0.200	1	12/01/2024 15:10	WG2410861
1,3,5-Trimethylbenzene	U			0.0432	0.200	1	12/01/2024 15:10	WG2410861
Vinyl acetate	U			0.141	0.500	1	12/01/2024 15:10	WG2410861
Vinyl chloride	6.21	J+	CS	0.0273	0.100	1	12/01/2024 15:10	WG2410861
Xylenes, Total	U			0.191	0.260	1	12/01/2024 15:10	WG2410861
(S) Toluene-d8	105				75.0-131		12/01/2024 15:10	WG2410861
(S) 4-Bromofluorobenzene	94.5				67.0-138		12/01/2024 15:10	WG2410861
(S) 1,2-Dichloroethane-d4	97.8				70.0-130		12/01/2024 15:10	WG2410861

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/6/2025

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
	ug/l		ug/l	ug/l		date / time		
Acetone	1.13	J+	C5 J4	0.548	1.00	1	12/01/2024 15:29	WG2410861
Acrylonitrile	U		J4	0.0760	0.500	1	12/01/2024 15:29	WG2410861
Benzene	0.0810			0.0160	0.0400	1	12/01/2024 15:29	WG2410861
Bromobenzene	U			0.0420	0.500	1	12/01/2024 15:29	WG2410861
Bromochloromethane	U			0.0452	0.200	1	12/01/2024 15:29	WG2410861
Bromodichloromethane	U			0.0315	0.100	1	12/01/2024 15:29	WG2410861
Bromoform	U			0.239	1.00	1	12/01/2024 15:29	WG2410861
Bromomethane	U			0.148	0.500	1	12/01/2024 15:29	WG2410861
n-Butylbenzene	U			0.153	0.500	1	12/01/2024 15:29	WG2410861
sec-Butylbenzene	U			0.101	0.500	1	12/01/2024 15:29	WG2410861
tert-Butylbenzene	U			0.0620	0.200	1	12/01/2024 15:29	WG2410861
Carbon disulfide	U			0.162	0.500	1	12/01/2024 15:29	WG2410861
Carbon tetrachloride	U			0.0432	0.200	1	12/01/2024 15:29	WG2410861
Chlorobenzene	U			0.0229	0.100	1	12/01/2024 15:29	WG2410861
Chlorodibromomethane	U			0.0180	0.100	1	12/01/2024 15:29	WG2410861
Chloroethane	U			0.0432	0.200	1	12/01/2024 15:29	WG2410861
Chloroform	U			0.0166	0.100	1	12/01/2024 15:29	WG2410861
Chloromethane	U			0.0556	0.500	1	12/01/2024 15:29	WG2410861
2-Chlorotoluene	U			0.0368	0.100	1	12/01/2024 15:29	WG2410861
4-Chlorotoluene	U			0.0452	0.200	1	12/01/2024 15:29	WG2410861
1,2-Dibromo-3-Chloropropane	U			0.204	1.00	1	12/01/2024 15:29	WG2410861
1,2-Dibromoethane	U			0.0210	0.100	1	12/01/2024 15:29	WG2410861
Dibromomethane	U			0.0400	0.200	1	12/01/2024 15:29	WG2410861
1,2-Dichlorobenzene	U			0.0580	0.200	1	12/01/2024 15:29	WG2410861
1,3-Dichlorobenzene	U			0.0680	0.200	1	12/01/2024 15:29	WG2410861
1,4-Dichlorobenzene	U			0.0788	0.200	1	12/01/2024 15:29	WG2410861
trans-1,4-Dichloro-2-butene	U	UJ	C3	0.0560	0.200	1	12/01/2024 15:29	WG2410861
Dichlorodifluoromethane	U			0.0327	0.200	1	12/01/2024 15:29	WG2410861
1,1-Dichloroethane	U			0.0230	0.100	1	12/01/2024 15:29	WG2410861
1,2-Dichloroethane	U			0.0190	0.100	1	12/01/2024 15:29	WG2410861
1,1-Dichloroethene	U			0.0200	0.100	1	12/01/2024 15:29	WG2410861
cis-1,2-Dichloroethene	2.52			0.0276	0.100	1	12/01/2024 15:29	WG2410861
trans-1,2-Dichloroethene	U			0.0572	0.200	1	12/01/2024 15:29	WG2410861
1,2-Dichloropropane	U			0.0508	0.200	1	12/01/2024 15:29	WG2410861
1,1-Dichloropropene	U			0.0280	0.100	1	12/01/2024 15:29	WG2410861
1,3-Dichloropropane	U			0.0700	0.200	1	12/01/2024 15:29	WG2410861
cis-1,3-Dichloropropene	U			0.0271	0.100	1	12/01/2024 15:29	WG2410861
trans-1,3-Dichloropropene	U			0.0612	0.200	1	12/01/2024 15:29	WG2410861
2,2-Dichloropropane	U		J4	0.0317	0.100	1	12/01/2024 15:29	WG2410861
Di-isopropyl ether	0.0530			0.0140	0.0400	1	12/01/2024 15:29	WG2410861
Ethylbenzene	U			0.0212	0.100	1	12/01/2024 15:29	WG2410861
Hexachloro-1,3-butadiene	U			0.508	1.00	1	12/01/2024 15:29	WG2410861
2-Hexanone	U			0.400	1.00	1	12/01/2024 15:29	WG2410861
n-Hexane	U			0.0424	0.200	1	12/01/2024 15:29	WG2410861
Iodomethane	U			0.242	0.500	1	12/01/2024 15:29	WG2410861
Isopropylbenzene	U			0.0345	0.100	1	12/01/2024 15:29	WG2410861
p-Isopropyltoluene	U			0.0932	0.200	1	12/01/2024 15:29	WG2410861
2-Butanone (MEK)	U			0.500	1.00	1	12/01/2024 15:29	WG2410861
Methylene Chloride	U			0.265	1.00	1	12/01/2024 15:29	WG2410861
4-Methyl-2-pentanone (MIBK)	U			0.400	1.00	1	12/01/2024 15:29	WG2410861
Methyl tert-butyl ether	U			0.0118	0.0400	1	12/01/2024 15:29	WG2410861
Naphthalene	U	UJ	C3	0.124	0.500	1	12/01/2024 15:29	WG2410861
n-Propylbenzene	U			0.0472	0.200	1	12/01/2024 15:29	WG2410861
Styrene	U			0.109	0.500	1	12/01/2024 15:29	WG2410861
1,1,1,2-Tetrachloroethane	U			0.0200	0.100	1	12/01/2024 15:29	WG2410861
1,1,2,2-Tetrachloroethane	U			0.0156	0.100	1	12/01/2024 15:29	WG2410861

JC 1/6/2025

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

JC 1/6/2025

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	UJ	0.0270	0.100	1	12/01/2024 15:29	WG2410861
Tetrachloroethene	U		0.0280	0.100	1	12/01/2024 15:29	WG2410861
Toluene	U		0.0500	0.200	1	12/01/2024 15:29	WG2410861
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	12/01/2024 15:29	WG2410861
1,2,4-Trichlorobenzene	U		0.193	0.500	1	12/01/2024 15:29	WG2410861
1,1,1-Trichloroethane	U		0.0110	0.100	1	12/01/2024 15:29	WG2410861
1,1,2-Trichloroethane	U		0.0353	0.100	1	12/01/2024 15:29	WG2410861
Trichloroethene	U		0.0160	0.0400	1	12/01/2024 15:29	WG2410861
Trichlorofluoromethane	U		0.0200	0.100	1	12/01/2024 15:29	WG2410861
1,2,3-Trichloropropane	U		0.204	0.500	1	12/01/2024 15:29	WG2410861
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	12/01/2024 15:29	WG2410861
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	12/01/2024 15:29	WG2410861
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	12/01/2024 15:29	WG2410861
Vinyl acetate	U		0.141	0.500	1	12/01/2024 15:29	WG2410861
Vinyl chloride	6.48	J+	0.0273	0.100	1	12/01/2024 15:29	WG2410861
Xylenes, Total	U		0.191	0.260	1	12/01/2024 15:29	WG2410861
(S) Toluene-d8	105			75.0-131		12/01/2024 15:29	WG2410861
(S) 4-Bromofluorobenzene	94.1			67.0-138		12/01/2024 15:29	WG2410861
(S) 1,2-Dichloroethane-d4	99.6			70.0-130		12/01/2024 15:29	WG2410861

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	123	J+ C5 J4	0.548	1.00	1	12/01/2024 18:39	WG2410861
Acrylonitrile	U	J4	0.0760	0.500	1	12/01/2024 18:39	WG2410861
Benzene	0.0560		0.0160	0.0400	1	12/01/2024 18:39	WG2410861
Bromobenzene	U		0.0420	0.500	1	12/01/2024 18:39	WG2410861
Bromochloromethane	U		0.0452	0.200	1	12/01/2024 18:39	WG2410861
Bromodichloromethane	U		0.0315	0.100	1	12/01/2024 18:39	WG2410861
Bromoform	U		0.239	1.00	1	12/01/2024 18:39	WG2410861
Bromomethane	U		0.148	0.500	1	12/01/2024 18:39	WG2410861
n-Butylbenzene	U		0.153	0.500	1	12/01/2024 18:39	WG2410861
sec-Butylbenzene	U		0.101	0.500	1	12/01/2024 18:39	WG2410861
tert-Butylbenzene	U		0.0620	0.200	1	12/01/2024 18:39	WG2410861
Carbon disulfide	U		0.162	0.500	1	12/01/2024 18:39	WG2410861
Carbon tetrachloride	U		0.0432	0.200	1	12/01/2024 18:39	WG2410861
Chlorobenzene	U		0.0229	0.100	1	12/01/2024 18:39	WG2410861
Chlorodibromomethane	U		0.0180	0.100	1	12/01/2024 18:39	WG2410861
Chloroethane	U		0.0432	0.200	1	12/01/2024 18:39	WG2410861
Chloroform	0.0600	J	0.0166	0.100	1	12/01/2024 18:39	WG2410861
Chloromethane	U		0.0556	0.500	1	12/01/2024 18:39	WG2410861
2-Chlorotoluene	U		0.0368	0.100	1	12/01/2024 18:39	WG2410861
4-Chlorotoluene	U		0.0452	0.200	1	12/01/2024 18:39	WG2410861
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	12/01/2024 18:39	WG2410861
1,2-Dibromoethane	U		0.0210	0.100	1	12/01/2024 18:39	WG2410861
Dibromomethane	U		0.0400	0.200	1	12/01/2024 18:39	WG2410861
1,2-Dichlorobenzene	U		0.0580	0.200	1	12/01/2024 18:39	WG2410861
1,3-Dichlorobenzene	U		0.0680	0.200	1	12/01/2024 18:39	WG2410861
1,4-Dichlorobenzene	U		0.0788	0.200	1	12/01/2024 18:39	WG2410861
trans-1,4-Dichloro-2-butene	U	UJ C3	0.0560	0.200	1	12/01/2024 18:39	WG2410861
Dichlorodifluoromethane	U		0.0327	0.200	1	12/01/2024 18:39	WG2410861
1,1-Dichloroethane	U		0.0230	0.100	1	12/01/2024 18:39	WG2410861
1,2-Dichloroethane	U		0.0190	0.100	1	12/01/2024 18:39	WG2410861
1,1-Dichloroethene	1.22		0.0200	0.100	1	12/01/2024 18:39	WG2410861
cis-1,2-Dichloroethene	646	J C3	0.552	2.00	20	12/10/2024 20:37	WG2416004
trans-1,2-Dichloroethene	5.27		0.0572	0.200	1	12/01/2024 18:39	WG2410861
1,2-Dichloropropane	U		0.0508	0.200	1	12/01/2024 18:39	WG2410861
1,1-Dichloropropene	U		0.0280	0.100	1	12/01/2024 18:39	WG2410861
1,3-Dichloropropane	U		0.0700	0.200	1	12/01/2024 18:39	WG2410861
cis-1,3-Dichloropropene	U		0.0271	0.100	1	12/01/2024 18:39	WG2410861
trans-1,3-Dichloropropene	U		0.0612	0.200	1	12/01/2024 18:39	WG2410861
2,2-Dichloropropane	U	J4	0.0317	0.100	1	12/01/2024 18:39	WG2410861
Di-isopropyl ether	U		0.0140	0.0400	1	12/01/2024 18:39	WG2410861
Ethylbenzene	U		0.0212	0.100	1	12/01/2024 18:39	WG2410861
Hexachloro-1,3-butadiene	U		0.508	1.00	1	12/01/2024 18:39	WG2410861
2-Hexanone	U		0.400	1.00	1	12/01/2024 18:39	WG2410861
n-Hexane	U		0.0424	0.200	1	12/01/2024 18:39	WG2410861
Iodomethane	U		0.242	0.500	1	12/01/2024 18:39	WG2410861
Isopropylbenzene	U		0.0345	0.100	1	12/01/2024 18:39	WG2410861
p-Isopropyltoluene	U		0.0932	0.200	1	12/01/2024 18:39	WG2410861
2-Butanone (MEK)	U		0.500	1.00	1	12/01/2024 18:39	WG2410861
Methylene Chloride	U		0.265	1.00	1	12/01/2024 18:39	WG2410861
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	12/01/2024 18:39	WG2410861
Methyl tert-butyl ether	U		0.0118	0.0400	1	12/01/2024 18:39	WG2410861
Naphthalene	U	UJ C3	0.124	0.500	1	12/01/2024 18:39	WG2410861
n-Propylbenzene	U		0.0472	0.200	1	12/01/2024 18:39	WG2410861
Styrene	U		0.109	0.500	1	12/01/2024 18:39	WG2410861
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	12/01/2024 18:39	WG2410861
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	12/01/2024 18:39	WG2410861

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	UJ CS	0.0270	0.100	1	12/01/2024 18:39	WG2410861
Tetrachloroethene	0.153		0.0280	0.100	1	12/01/2024 18:39	WG2410861
Toluene	0.0870	J	0.0500	0.200	1	12/01/2024 18:39	WG2410861
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	12/01/2024 18:39	WG2410861
1,2,4-Trichlorobenzene	U		0.193	0.500	1	12/01/2024 18:39	WG2410861
1,1,1-Trichloroethane	U		0.0110	0.100	1	12/01/2024 18:39	WG2410861
1,1,2-Trichloroethane	U		0.0353	0.100	1	12/01/2024 18:39	WG2410861
Trichloroethene	0.662		0.0160	0.0400	1	12/01/2024 18:39	WG2410861
Trichlorofluoromethane	U		0.0200	0.100	1	12/01/2024 18:39	WG2410861
1,2,3-Trichloropropane	U		0.204	0.500	1	12/01/2024 18:39	WG2410861
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	12/01/2024 18:39	WG2410861
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	12/01/2024 18:39	WG2410861
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	12/01/2024 18:39	WG2410861
Vinyl acetate	U		0.141	0.500	1	12/01/2024 18:39	WG2410861
Vinyl chloride	148	J CS	0.546	2.00	20	12/10/2024 20:37	WG2416004
Xylenes, Total	U		0.191	0.260	1	12/01/2024 18:39	WG2410861
(S) Toluene-d8	104			75.0-131		12/01/2024 18:39	WG2410861
(S) Toluene-d8	98.0			75.0-131		12/10/2024 20:37	WG2416004
(S) 4-Bromofluorobenzene	99.0			67.0-138		12/01/2024 18:39	WG2410861
(S) 4-Bromofluorobenzene	96.1			67.0-138		12/10/2024 20:37	WG2416004
(S) 1,2-Dichloroethane-d4	100			70.0-130		12/01/2024 18:39	WG2410861
(S) 1,2-Dichloroethane-d4	109			70.0-130		12/10/2024 20:37	WG2416004

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

SOIL VAPOR

Pace Lab Reports

PES Environmental, Inc.- WA

Sample Delivery Group: L1804318
Samples Received: 11/27/2024
Project Number: 1413001.10.701.03
Description: American Linen- Q4 2024

Report To: Craig Peterson
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:



Jordan Dozier
Project Manager

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

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
SV01-112524 L1804318-01	5	
SV-18-112524 L1804318-02	7	⁴ Cn
SV-910-112524 L1804318-03	9	⁵ Sr
TB-112524 L1804318-04	11	
Qc: Quality Control Summary	13	⁶ Qc
Volatile Organic Compounds (MS) by Method TO-15	13	
Gl: Glossary of Terms	17	⁷ Gl
Al: Accreditations & Locations	18	⁸ Al
Sc: Sample Chain of Custody	19	⁹ Sc

SAMPLE SUMMARY

SV01-112524 L1804318-01 Air

Collected by
Natalie Widsom

Collected date/time
11/25/24 12:35

Received date/time
11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2410619	1	11/30/24 12:51	11/30/24 12:51	JAP	Mt. Juliet, TN

SV-18-112524 L1804318-02 Air

Collected by
Natalie Widsom

Collected date/time
11/25/24 15:05

Received date/time
11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2410619	1	11/30/24 13:30	11/30/24 13:30	JAP	Mt. Juliet, TN

SV-910-112524 L1804318-03 Air

Collected by
Natalie Widsom

Collected date/time
11/25/24 11:15

Received date/time
11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2410619	1	11/30/24 14:09	11/30/24 14:09	JAP	Mt. Juliet, TN

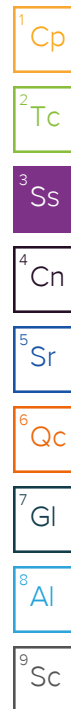
TB-112524 L1804318-04 Air

Collected by
Natalie Widsom

Collected date/time
11/25/24 00:00

Received date/time
11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2410619	1	11/30/24 11:41	11/30/24 11:41	JAP	Mt. Juliet, TN

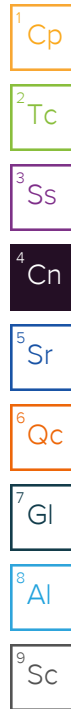


CASE NARRATIVE

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

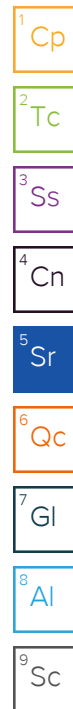


Jordan Dozier
Project Manager



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	3.03	7.20		1	WG2410619
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2410619
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2410619
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2410619
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2410619
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2410619
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2410619
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2410619
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2410619
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2410619
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2410619
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2410619
Chloroform	67-66-3	119	0.200	0.973	0.542	2.64		1	WG2410619
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2410619
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2410619
Cyclohexane	110-82-7	84.20	0.200	0.689	0.329	1.13		1	WG2410619
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2410619
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2410619
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2410619
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2410619
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2410619
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2410619
1,1-Dichloroethane	75-34-3	98	0.200	0.802	0.879	3.52		1	WG2410619
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2410619
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2410619
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2410619
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2410619
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2410619
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2410619
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2410619
Ethanol	64-17-5	46.10	2.50	4.71	3.39	6.39		1	WG2410619
Ethylbenzene	100-41-4	106	0.200	0.867	2.83	12.3		1	WG2410619
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.534	2.62		1	WG2410619
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2410619
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.390	1.93		1	WG2410619
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2410619
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2410619
Heptane	142-82-5	100	0.200	0.818	0.715	2.92		1	WG2410619
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2410619
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2410619
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2410619
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.809	2.81		1	WG2410619
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2410619
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2410619
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2410619
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2410619
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2410619
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2410619
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2410619
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2410619
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2410619
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2410619
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.634	4.30		1	WG2410619
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.816	2.41		1	WG2410619
Toluene	108-88-3	92.10	0.500	1.88	4.86	18.3		1	WG2410619
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2410619



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	4.97	27.0		1	WG2410619
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2410619
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2410619
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	2.41	11.8		1	WG2410619
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.678	3.33		1	WG2410619
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2410619
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2410619
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2410619
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2410619
Xylenes, Total	1330-20-7	106.16	0.600	2.61	18.4	79.9		1	WG2410619
m&p-Xylene	179601-23-1	106	0.400	1.73	13.5	58.5		1	WG2410619
o-Xylene	95-47-6	106	0.200	0.867	4.93	21.4		1	WG2410619
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.6				WG2410619

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

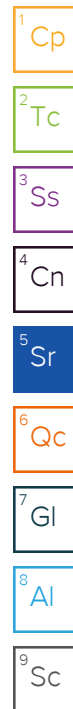
7Gl

8Al

9Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	3.56	8.46		1	WG2410619
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2410619
Benzene	71-43-2	78.10	0.200	0.639	0.345	1.10		1	WG2410619
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2410619
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2410619
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2410619
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2410619
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2410619
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2410619
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2410619
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2410619
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2410619
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2410619
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2410619
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2410619
Cyclohexane	110-82-7	84.20	0.200	0.689	0.668	2.30		1	WG2410619
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2410619
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2410619
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2410619
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2410619
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2410619
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2410619
1,1-Dichloroethane	75-34-3	98	0.200	0.802	7.57	30.3		1	WG2410619
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2410619
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2410619
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2410619
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2410619
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2410619
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2410619
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2410619
Ethanol	64-17-5	46.10	2.50	4.71	4.25	8.01		1	WG2410619
Ethylbenzene	100-41-4	106	0.200	0.867	2.45	10.6		1	WG2410619
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.358	1.76		1	WG2410619
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2410619
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.255	1.26		1	WG2410619
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2410619
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2410619
Heptane	142-82-5	100	0.200	0.818	0.743	3.04		1	WG2410619
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2410619
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2410619
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2410619
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.288	1.00		1	WG2410619
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2410619
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.94	5.72		1	WG2410619
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2410619
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2410619
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2410619
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2410619
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2410619
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2410619
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2410619
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2410619
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2410619
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	2.90	8.55		1	WG2410619
Toluene	108-88-3	92.10	0.500	1.88	4.17	15.7		1	WG2410619
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2410619



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	7.49	40.7		1	WG2410619
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2410619
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2410619
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	2.23	10.9		1	WG2410619
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.649	3.19		1	WG2410619
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	1.26	5.89		1	WG2410619
Vinyl chloride	75-01-4	62.50	0.200	0.511	6.03	15.4		1	WG2410619
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2410619
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2410619
Xylenes, Total	1330-20-7	106.16	0.600	2.61	15.4	66.9		1	WG2410619
m&p-Xylene	179601-23-1	106	0.400	1.73	11.0	47.7		1	WG2410619
o-Xylene	95-47-6	106	0.200	0.867	4.42	19.2		1	WG2410619
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.0				WG2410619

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	3.35	7.96		1	WG2410619
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2410619
Benzene	71-43-2	78.10	0.200	0.639	0.334	1.07		1	WG2410619
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2410619
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2410619
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2410619
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2410619
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2410619
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2410619
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2410619
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2410619
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2410619
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2410619
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2410619
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2410619
Cyclohexane	110-82-7	84.20	0.200	0.689	0.671	2.31		1	WG2410619
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2410619
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2410619
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2410619
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2410619
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2410619
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2410619
1,1-Dichloroethane	75-34-3	98	0.200	0.802	7.53	30.2		1	WG2410619
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2410619
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2410619
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2410619
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2410619
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2410619
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2410619
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2410619
Ethanol	64-17-5	46.10	2.50	4.71	4.63	8.73		1	WG2410619
Ethylbenzene	100-41-4	106	0.200	0.867	2.36	10.2		1	WG2410619
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.337	1.65		1	WG2410619
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2410619
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.285	1.41		1	WG2410619
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2410619
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2410619
Heptane	142-82-5	100	0.200	0.818	0.735	3.01		1	WG2410619
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2410619
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2410619
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2410619
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.351	1.22		1	WG2410619
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2410619
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.90	5.60		1	WG2410619
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2410619
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2410619
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2410619
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2410619
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2410619
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2410619
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2410619
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2410619
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2410619
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	2.83	8.35		1	WG2410619
Toluene	108-88-3	92.10	0.500	1.88	4.49	16.9		1	WG2410619
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2410619

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	7.43	40.4		1	WG2410619
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2410619
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2410619
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	2.11	10.4		1	WG2410619
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.624	3.06		1	WG2410619
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	1.26	5.89		1	WG2410619
Vinyl chloride	75-01-4	62.50	0.200	0.511	6.11	15.6		1	WG2410619
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2410619
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2410619
Xylenes, Total	1330-20-7	106.16	0.600	2.61	14.7	63.8		1	WG2410619
m&p-Xylene	179601-23-1	106	0.400	1.73	10.5	45.5		1	WG2410619
o-Xylene	95-47-6	106	0.200	0.867	4.23	18.3		1	WG2410619
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.8				WG2410619

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	ND	ND		1	WG2410619
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2410619
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2410619
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2410619
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2410619
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2410619
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2410619
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2410619
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2410619
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2410619
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2410619
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2410619
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2410619
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2410619
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2410619
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2410619
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2410619
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2410619
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2410619
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2410619
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2410619
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2410619
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2410619
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2410619
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2410619
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2410619
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2410619
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2410619
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2410619
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2410619
Ethanol	64-17-5	46.10	2.50	4.71	ND	ND		1	WG2410619
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2410619
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2410619
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2410619
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG2410619
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2410619
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2410619
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2410619
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2410619
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2410619
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2410619
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2410619
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2410619
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2410619
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2410619
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2410619
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2410619
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2410619
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2410619
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2410619
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2410619
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2410619
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.471	3.20		1	WG2410619
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2410619
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2410619
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2410619

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2410619
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2410619
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2410619
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2410619
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2410619
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2410619
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2410619
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2410619
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2410619
Xylenes, Total	1330-20-7	106.16	0.600	2.61	ND	ND		1	WG2410619
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2410619
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2410619
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.8				WG2410619

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4152073-3 11/30/24 09:04

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.520	1.25
Allyl chloride	U		0.186	0.200
Benzene	U		0.110	0.200
Benzyl Chloride	U		0.0888	0.200
Bromodichloromethane	U		0.0695	0.200
Bromoform	U		0.0755	0.630
Bromomethane	U		0.0938	0.200
1,3-Butadiene	U		0.158	2.00
Carbon disulfide	U		0.160	0.400
Carbon tetrachloride	U		0.0746	0.200
Chlorobenzene	U		0.118	0.200
Chloroethane	U		0.110	0.200
Chloroform	U		0.104	0.200
Chloromethane	U		0.110	0.200
2-Chlorotoluene	U		0.0787	0.200
Cyclohexane	U		0.170	0.200
Dibromochloromethane	U		0.0696	0.200
1,2-Dibromoethane	U		0.0690	0.200
1,2-Dichlorobenzene	U		0.0734	0.200
1,3-Dichlorobenzene	U		0.0753	0.200
1,4-Dichlorobenzene	U		0.0768	0.200
1,2-Dichloroethane	U		0.0730	0.200
1,1-Dichloroethane	U		0.0710	0.200
1,1-Dichloroethene	U		0.0747	0.200
cis-1,2-Dichloroethene	U		0.0796	0.200
trans-1,2-Dichloroethene	U		0.0735	0.200
1,2-Dichloropropane	U		0.0752	0.200
cis-1,3-Dichloropropene	U		0.0743	0.200
trans-1,3-Dichloropropene	U		0.0795	0.200
1,4-Dioxane	U		0.164	0.630
Ethanol	U		2.37	2.50
Ethylbenzene	U		0.0778	0.200
4-Ethyltoluene	U		0.0887	0.200
Trichlorofluoromethane	U		0.0771	0.200
Dichlorodifluoromethane	U		0.0806	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0751	0.200
1,2-Dichlorotetrafluoroethane	U		0.0756	0.200
Heptane	U		0.114	0.200
Hexachloro-1,3-butadiene	U		0.0800	0.630
n-Hexane	U		0.143	0.630

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4152073-3 11/30/24 09:04

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0722	0.200
Methylene Chloride	U		0.169	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.116	1.25
4-Methyl-2-pentanone (MIBK)	U		0.106	1.25
Methyl methacrylate	U		0.169	0.200
MTBE	U		0.0813	0.200
Naphthalene	U		0.617	0.630
2-Propanol	U		0.680	1.25
Propene	U		0.214	1.25
Styrene	U		0.0802	0.400
1,1,2,2-Tetrachloroethane	U		0.0695	0.200
Tetrachloroethylene	U		0.111	0.200
Tetrahydrofuran	U		0.164	0.200
Toluene	U		0.130	0.500
1,2,4-Trichlorobenzene	U		0.462	0.630
1,1,1-Trichloroethane	U		0.0718	0.200
1,1,2-Trichloroethane	U		0.0683	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0927	0.200
1,3,5-Trimethylbenzene	U		0.0853	0.200
2,2,4-Trimethylpentane	U		0.0898	0.200
Vinyl chloride	U		0.0826	0.200
Vinyl Bromide	U		0.0749	0.200
Vinyl acetate	U		0.0968	0.630
Xylenes, Total	U		0.0887	0.600
m&p-Xylene	U		0.174	0.400
o-Xylene	U		0.0887	0.200
(S) 1,4-Bromofluorobenzene	92.6			60.0-140

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

(LCS) R4152073-1 11/30/24 07:46 • (LCSD) R4152073-2 11/30/24 08:26

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	4.05	4.09	108	109	70.0-130			0.983	25
Allyl chloride	3.75	4.62	4.76	123	127	70.0-130			2.99	25
Benzene	3.75	4.27	4.27	114	114	70.0-130			0.000	25
Benzyl Chloride	3.75	4.37	4.80	117	128	70.0-152			9.38	25

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4152073-1 11/30/24 07:46 • (LCSD) R4152073-2 11/30/24 08:26

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromodichloromethane	3.75	4.23	4.23	113	113	70.0-130			0.000	25
Bromoform	3.75	3.70	3.68	98.7	98.1	70.0-130			0.542	25
Bromomethane	3.75	4.17	4.17	111	111	70.0-130			0.000	25
1,3-Butadiene	3.75	4.16	4.12	111	110	70.0-130			0.966	25
Carbon disulfide	7.50	8.77	8.84	117	118	70.0-130			0.795	25
Carbon tetrachloride	3.75	4.15	4.16	111	111	70.0-130			0.241	25
Chlorobenzene	3.75	4.26	4.30	114	115	70.0-130			0.935	25
Chloroethane	3.75	4.30	4.31	115	115	70.0-130			0.232	25
Chloroform	3.75	4.20	4.23	112	113	70.0-130			0.712	25
Chloromethane	3.75	4.22	4.22	113	113	70.0-130			0.000	25
2-Chlorotoluene	3.75	4.46	4.47	119	119	70.0-130			0.224	25
Cyclohexane	3.75	4.24	4.25	113	113	70.0-130			0.236	25
Dibromochloromethane	3.75	4.10	4.12	109	110	70.0-130			0.487	25
1,2-Dibromoethane	3.75	4.34	4.36	116	116	70.0-130			0.460	25
1,2-Dichlorobenzene	3.75	4.19	4.40	112	117	70.0-130			4.89	25
1,3-Dichlorobenzene	3.75	4.28	4.49	114	120	70.0-130			4.79	25
1,4-Dichlorobenzene	3.75	4.42	4.71	118	126	70.0-130			6.35	25
1,2-Dichloroethane	3.75	4.26	4.27	114	114	70.0-130			0.234	25
1,1-Dichloroethane	3.75	4.28	4.25	114	113	70.0-130			0.703	25
1,1-Dichloroethene	3.75	4.28	4.28	114	114	70.0-130			0.000	25
cis-1,2-Dichloroethene	3.75	4.22	4.25	113	113	70.0-130			0.708	25
trans-1,2-Dichloroethene	3.75	4.22	4.26	113	114	70.0-130			0.943	25
1,2-Dichloropropane	3.75	4.28	4.27	114	114	70.0-130			0.234	25
cis-1,3-Dichloropropene	3.75	4.35	4.37	116	117	70.0-130			0.459	25
trans-1,3-Dichloropropene	3.75	4.32	4.37	115	117	70.0-130			1.15	25
1,4-Dioxane	3.75	4.12	4.17	110	111	70.0-140			1.21	25
Ethanol	3.75	4.08	4.17	109	111	55.0-148			2.18	25
Ethylbenzene	3.75	4.18	4.15	111	111	70.0-130			0.720	25
4-Ethyltoluene	3.75	4.28	4.33	114	115	70.0-130			1.16	25
Trichlorofluoromethane	3.75	4.27	4.26	114	114	70.0-130			0.234	25
Dichlorodifluoromethane	3.75	4.24	4.26	113	114	64.0-139			0.471	25
1,1,2-Trichlorotrifluoroethane	3.75	4.23	4.22	113	113	70.0-130			0.237	25
1,2-Dichlorotetrafluoroethane	3.75	4.27	4.28	114	114	70.0-130			0.234	25
Heptane	3.75	4.19	4.25	112	113	70.0-130			1.42	25
Hexachloro-1,3-butadiene	3.75	4.02	4.18	107	111	70.0-151			3.90	25
n-Hexane	3.75	4.29	4.32	114	115	70.0-130			0.697	25
Isopropylbenzene	3.75	4.20	4.21	112	112	70.0-130			0.238	25
Methylene Chloride	3.75	4.24	4.24	113	113	70.0-130			0.000	25
Methyl Butyl Ketone	3.75	4.34	4.39	116	117	70.0-149			1.15	25
2-Butanone (MEK)	3.75	4.18	4.22	111	113	70.0-130			0.952	25

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) R4152073-1 11/30/24 07:46 • (LCSD) R4152073-2 11/30/24 08:26

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.32	4.39	115	117	70.0-139			1.61	25
Methyl methacrylate	3.75	4.26	4.33	114	115	70.0-130			1.63	25
MTBE	3.75	4.17	4.24	111	113	70.0-130			1.66	25
Naphthalene	3.75	4.14	4.38	110	117	70.0-159			5.63	25
2-Propanol	3.75	4.23	4.26	113	114	70.0-139			0.707	25
Propene	3.75	4.18	4.19	111	112	64.0-144			0.239	25
Styrene	7.50	8.91	8.98	119	120	70.0-130			0.783	25
1,1,2,2-Tetrachloroethane	3.75	4.30	4.36	115	116	70.0-130			1.39	25
Tetrachloroethylene	3.75	4.14	4.17	110	111	70.0-130			0.722	25
Tetrahydrofuran	3.75	4.25	4.30	113	115	70.0-137			1.17	25
Toluene	3.75	4.28	4.29	114	114	70.0-130			0.233	25
1,2,4-Trichlorobenzene	3.75	3.73	3.94	99.5	105	70.0-160			5.48	25
1,1,1-Trichloroethane	3.75	4.22	4.23	113	113	70.0-130			0.237	25
1,1,2-Trichloroethane	3.75	4.23	4.25	113	113	70.0-130			0.472	25
Trichloroethylene	3.75	4.23	4.24	113	113	70.0-130			0.236	25
1,2,4-Trimethylbenzene	3.75	4.31	4.39	115	117	70.0-130			1.84	25
1,3,5-Trimethylbenzene	3.75	4.50	4.54	120	121	70.0-130			0.885	25
2,2,4-Trimethylpentane	3.75	4.32	4.31	115	115	70.0-130			0.232	25
Vinyl chloride	3.75	4.16	4.21	111	112	70.0-130			1.19	25
Vinyl Bromide	3.75	4.37	4.26	117	114	70.0-130			2.55	25
Vinyl acetate	3.75	4.34	4.49	116	120	70.0-130			3.40	25
Xylenes, Total	11.3	12.8	12.8	113	113	70.0-130			0.000	25
m&p-Xylene	7.50	8.50	8.54	113	114	70.0-130			0.469	25
o-Xylene	3.75	4.25	4.24	113	113	70.0-130			0.236	25
(S) 1,4-Bromofluorobenzene				97.6	97.5	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

MDL	Method Detection Limit.
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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCREDITATIONS & LOCATIONS

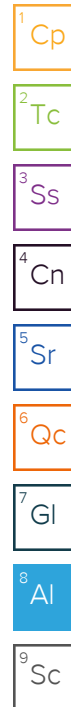
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



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

Company Name: **PES Environmental, Inc.- WA**
Street Address: **1215 Fourth Ave., Suite 1350**
Seattle, WA 98161
City, State Zip: **Seattle, WA 98109**
Customer Project #: **1413001.10.701.03**

Contact/Report To: **Craig Peterson**
Phone #: **206-529-3980**
E-Mail: **craig.peterson@nv5.com;natalie.wisdom@nv5.com**
Cc E-Mail:
Invoice to:
Invoice:
E-Mail:
Purchase Order # (if applicable):
Quote #:
State origin of sample(s):

Project Name: **American Linen- Q4 2024**
Site Collection Info/Facility ID (as applicable): **PESENVSWA-AL**
Time Zone Collected: [] AK [x] PT [] MT [] CT [] ET

Data Deliverables:
[] Level II [] Level III [] Level IV
[] EQUIS
[] Other

Regulatory Program (CAA, RCRA, etc.) as applicable:
Rush (Pre-approval required):
2 Day 3 day 5 day Other
Date Results Requested:
Permit # as applicable:
Units for Reporting: ug/m³ PPBV mg/m³ PPMV

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection		End Collection		Start Pressure / Vacuum (in Hg)	End Pressure / Vacuum (in Hg)	Duration (minutes)	Flow Rate (m ³ /min or L/min)	Total Volume Sampled (m ³ or L)	TO-15 Summa	Sample Comment
				Date	Time	Date	Time							
SV01-112524	SV	020641	020849	11/25/24	1230	11/25/24	1235	-28	-5	5	0.2	1L	X	-01
SV-18-112524	SV	020616	021020	11/25/24	1500	11/25/24	1505	-30	-5	5	0.2	1L	X	-01
SV-910-112524	SV	020210	020948	11/25/24	1111	11/25/24	1115	-27.5	-5	4	0.2	1L	X	-03
TB-112524	—	020568	—	11/25/24	—	11/25/24	—	—	—	—	—	—	X	-04

Customer Remarks / Special Conditions / Possible Hazards: **Tier 2 Lab QA/QC (batch QC OK)**

Collected By: **Natalie Wisdom**
Printed Name: **Natalie Wisdom**
Signature: **Natalie Wisdom**

Additional Instructions from Pace*: **AMTB**

Relinquished by/Company: (Signature) **Natalie Wisdom** Date/Time: **11/25/24 1630**
Relinquished by/Company: (Signature) Date/Time:
Relinquished by/Company: (Signature) Date/Time:
Relinquished by/Company: (Signature) Date/Time:
Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:
Received by/Company: (Signature) Date/Time:
Received by/Company: (Signature) Date/Time:
Received by/Company: (Signature) **Natalie Wisdom** Date/Time: **11/27 0930**

Tracking Number: **4072 9199 8190**
Delivered by: In- Person Courier
FedEX UPS Other
Page: **1** of: **1**

Sample Receipt Checklist
Seal Present/Intact: **Y** N
Signed/Accurate: **Y** N Size: **4** 1L 6L 1.4
Seals arrive intact: **Y** N Tape Color: **G** **W** **P** **B**
Seal bottles used: **Y** N Tubing Shunt

d: **1**

T/P#: **M212**

Scan QR code for instructions

M212

21804316

TH 11/21/24

Proj. Manager:
3768 - Jordan Dozier

AcctNum / Client ID:

PESENVSWA

Table #:

Profile / Template: **T264440**

Prelog / Bottle Ord. ID: **P1115836**

DVR Memos

MEMORANDUM

TO: Project File **DATE:** December 9, 2024
FROM: Jessie Compeau
SUBJECT: Laboratory Data Validation Review
PROJECT: American Linen Data Validation
PROJECT #: 443022-1413001.10.701.03
TASK: EIM Data Validation Level EPA2A for Q4 2024 – Soil Vapor Samples
LAB: Pace Sample Delivery Group (SDG): L1804318

Three soil vapor samples (including one field duplicate) and a trip blank were collected as part of the 2024 quarterly (Q4) monitoring event at the Former American Linen Supply Site, in Seattle, Washington on November 25, 2024. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method TO-15

Both the 4th quarter of RI groundwater and soil vapor sampling were conducted in November of 2024. Results for groundwater are reported by Pace. The quality assurance review of the soil vapor extraction sample data associated with SDG L1804318 is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria, and professional judgement were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested.

Sample Collection and Preservation

The laboratory supplied Summa Canister™ (1 Liter) for the air samples. Samples were shipped, delivered by FedEx, and received in good condition by the laboratory. The samples were

collected, managed, and delivered in an appropriate manner. No data qualifications were warranted based upon sampling techniques or preservation.

Holding Times

USEPA Method TO-15:

The analyses for VOCs by Method TO-15 were performed within the 30-day recommended holding time limit for the air samples collected in Summa canisters. All holding time criteria are met.

Initial and Continuing Calibration

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. Case narrative and laboratory notes do not indicate that there are any issues with calibration.

Method Blank Results

USEPA Method TO-15:

A laboratory method blank is included with each analytical batch per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs)

Trip Blank Results

A trip blank is not required for VOCs by TO-15 analyses however a trip blank (TB-112424) was collected and submitted for analyses. The target analytes were not detected in the trip blank at or above the RDLs with the following exception:

- Analytical Batch WG2410619: Tetrachloroethylene (0.471 ppbv) is detected above the RDL (0.200 ppbv) in the trip blank. No action is needed for samples SV-18-112524 and SV-910-112524 since tetrachloroethylene (PCE) was not detected. PCE was detected at 0.634 ppbv in sample SV01-112524. Based on review of 2023 and 2024 data PCE has been detected in soil vapor location SV01 at concentrations ranging from 0.383-1.99 ppbv. PCE was not detected in the method blank and the detection in the trip blank appears to be isolated. No action is taken due to the contamination in trip blank (TB-112424).

Field Duplicate Analyses

Field duplicates (SV-18-112524 and SV-910-112524) were submitted and analyzed for VOCs. VOC target analyte results are comparable and within 30 relative percent difference (RPD) or ($\pm 1 \times$ RDL for detections $< 5 \times$ RDL).

Laboratory Duplicate/Replicate Analyses

USEPA Method TO-15:

A laboratory replicate was not performed. Refer to the Laboratory Control Sample section for additional information.

Surrogate Recoveries

USEPA Method TO-15

The surrogate percent recovery (% R) results for the VOCs by TO-15 air samples, method blanks, and laboratory control sample are within the laboratory surrogate control limits of 60 - 140% R.

Laboratory Control Samples

USEPA Method TO-15:

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) samples were analyzed for the VOCs by TO-15 along with the analytical batch. The LCS/LCSD recoveries and RPDs for all control compounds met laboratory control limit criteria.

Matrix Spike/Matrix Spike Duplicates

A matrix spike/matrix spike duplicate (MS/MSD) is not required for the VOCs by TO-15.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- Electronic data deliverables (EDDs) for this SDG was provided by the laboratory. In some cases, different chemical synonyms are used between the EDD and the hardcopy. However, associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Quantitation Limits

Results of the VOCs by TO-15 analysis are reported based on laboratory RDLs (assuming standard temperature and pressure is equal to 24.45) and reported in units of parts per billion by volume (ppbv) and micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). The associated EDD report results in units of $\mu\text{g}/\text{m}^3$. Quality control results are reported in ppbv units only.

The RDLs indicate the minimum quantity of a target analyte that can be confidently determined by the reference method. The RDLs are acceptable for the project.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020).

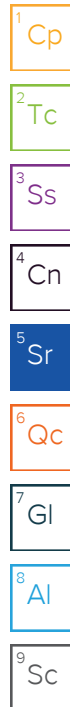
No data qualifiers are assigned. All data are judged to be acceptable for their intended use.

Annotated DVR Lab Reports

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	3.03	7.20		1	WG2410619
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2410619
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2410619
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2410619
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2410619
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2410619
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2410619
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2410619
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2410619
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2410619
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2410619
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2410619
Chloroform	67-66-3	119	0.200	0.973	0.542	2.64		1	WG2410619
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2410619
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2410619
Cyclohexane	110-82-7	84.20	0.200	0.689	0.329	1.13		1	WG2410619
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2410619
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2410619
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2410619
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2410619
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2410619
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2410619
1,1-Dichloroethane	75-34-3	98	0.200	0.802	0.879	3.52		1	WG2410619
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2410619
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2410619
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2410619
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2410619
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2410619
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2410619
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2410619
Ethanol	64-17-5	46.10	2.50	4.71	3.39	6.39		1	WG2410619
Ethylbenzene	100-41-4	106	0.200	0.867	2.83	12.3		1	WG2410619
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.534	2.62		1	WG2410619
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2410619
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.390	1.93		1	WG2410619
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2410619
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2410619
Heptane	142-82-5	100	0.200	0.818	0.715	2.92		1	WG2410619
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2410619
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2410619
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2410619
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.809	2.81		1	WG2410619
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2410619
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2410619
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2410619
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2410619
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2410619
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2410619
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2410619
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2410619
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2410619
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2410619
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.634	4.30		1	WG2410619
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.816	2.41		1	WG2410619
Toluene	108-88-3	92.10	0.500	1.88	4.86	18.3		1	WG2410619
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2410619

JC 12/9/24



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	4.97	27.0		1	WG2410619
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2410619
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2410619
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	2.41	11.8		1	WG2410619
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.678	3.33		1	WG2410619
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2410619
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2410619
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2410619
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2410619
Xylenes, Total	1330-20-7	106.16	0.600	2.61	18.4	79.9		1	WG2410619
m&p-Xylene	179601-23-1	106	0.400	1.73	13.5	58.5		1	WG2410619
o-Xylene	95-47-6	106	0.200	0.867	4.93	21.4		1	WG2410619
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.6				WG2410619

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	3.56	8.46		1	WG2410619
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2410619
Benzene	71-43-2	78.10	0.200	0.639	0.345	1.10		1	WG2410619
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2410619
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2410619
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2410619
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2410619
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2410619
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2410619
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2410619
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2410619
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2410619
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2410619
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2410619
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2410619
Cyclohexane	110-82-7	84.20	0.200	0.689	0.668	2.30		1	WG2410619
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2410619
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2410619
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2410619
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2410619
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2410619
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2410619
1,1-Dichloroethane	75-34-3	98	0.200	0.802	7.57	30.3		1	WG2410619
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2410619
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2410619
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2410619
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2410619
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2410619
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2410619
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2410619
Ethanol	64-17-5	46.10	2.50	4.71	4.25	8.01		1	WG2410619
Ethylbenzene	100-41-4	106	0.200	0.867	2.45	10.6		1	WG2410619
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.358	1.76		1	WG2410619
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2410619
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.255	1.26		1	WG2410619
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2410619
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2410619
Heptane	142-82-5	100	0.200	0.818	0.743	3.04		1	WG2410619
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2410619
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2410619
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2410619
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.288	1.00		1	WG2410619
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2410619
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.94	5.72		1	WG2410619
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2410619
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2410619
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2410619
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2410619
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2410619
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2410619
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2410619
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2410619
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2410619
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	2.90	8.55		1	WG2410619
Toluene	108-88-3	92.10	0.500	1.88	4.17	15.7		1	WG2410619
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2410619

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 12/9/24

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	7.49	40.7		1	WG2410619
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2410619
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2410619
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	2.23	10.9		1	WG2410619
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.649	3.19		1	WG2410619
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	1.26	5.89		1	WG2410619
Vinyl chloride	75-01-4	62.50	0.200	0.511	6.03	15.4		1	WG2410619
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2410619
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2410619
Xylenes, Total	1330-20-7	106.16	0.600	2.61	15.4	66.9		1	WG2410619
m&p-Xylene	179601-23-1	106	0.400	1.73	11.0	47.7		1	WG2410619
o-Xylene	95-47-6	106	0.200	0.867	4.42	19.2		1	WG2410619
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.0				WG2410619

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	3.35	7.96		1	WG2410619
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2410619
Benzene	71-43-2	78.10	0.200	0.639	0.334	1.07		1	WG2410619
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2410619
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2410619
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2410619
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2410619
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2410619
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2410619
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2410619
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2410619
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2410619
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2410619
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2410619
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2410619
Cyclohexane	110-82-7	84.20	0.200	0.689	0.671	2.31		1	WG2410619
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2410619
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2410619
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2410619
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2410619
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2410619
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2410619
1,1-Dichloroethane	75-34-3	98	0.200	0.802	7.53	30.2		1	WG2410619
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2410619
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2410619
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2410619
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2410619
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2410619
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2410619
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2410619
Ethanol	64-17-5	46.10	2.50	4.71	4.63	8.73		1	WG2410619
Ethylbenzene	100-41-4	106	0.200	0.867	2.36	10.2		1	WG2410619
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.337	1.65		1	WG2410619
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2410619
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.285	1.41		1	WG2410619
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2410619
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2410619
Heptane	142-82-5	100	0.200	0.818	0.735	3.01		1	WG2410619
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2410619
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2410619
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2410619
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.351	1.22		1	WG2410619
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2410619
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.90	5.60		1	WG2410619
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2410619
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2410619
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2410619
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2410619
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2410619
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2410619
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2410619
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2410619
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2410619
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	2.83	8.35		1	WG2410619
Toluene	108-88-3	92.10	0.500	1.88	4.49	16.9		1	WG2410619
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2410619

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 12/9/24

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	7.43	40.4		1	WG2410619
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2410619
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2410619
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	2.11	10.4		1	WG2410619
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.624	3.06		1	WG2410619
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	1.26	5.89		1	WG2410619
Vinyl chloride	75-01-4	62.50	0.200	0.511	6.11	15.6		1	WG2410619
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2410619
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2410619
Xylenes, Total	1330-20-7	106.16	0.600	2.61	14.7	63.8		1	WG2410619
m&p-Xylene	179601-23-1	106	0.400	1.73	10.5	45.5		1	WG2410619
o-Xylene	95-47-6	106	0.200	0.867	4.23	18.3		1	WG2410619
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.8				WG2410619

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc