

2024 Q3

GROUNDWATER

Pace Lab Reports



ANALYTICAL REPORT

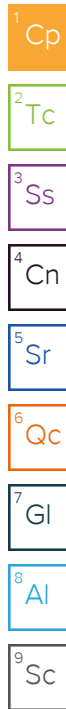
October 09, 2024

Revised Report

PES Environmental, Inc.- WA

Sample Delivery Group: L1774604
Samples Received: 09/05/2024
Project Number: 443022-1413001.10.60
Description: American Linen

Report To: Daniel Balbiani
2101 Fourth Ave., Suite 1310
Seattle, WA 98121



Entire Report Reviewed By:

Jordan Dozier
Project Manager

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Pace Analytical National

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SAMPLE SUMMARY

MW-349-090424 L1774604-01 GW

Collected by D. Del G Collected date/time 09/04/24 14:00 Received date/time 09/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2357299	1	09/06/24 19:30	09/06/24 19:30	AJC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2357467	1	09/08/24 20:00	09/08/24 20:00	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2359561	1	09/12/24 00:05	09/12/24 17:02	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2357310	1	09/08/24 13:15	09/08/24 13:15	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2360527	1	09/09/24 10:06	09/09/24 10:06	JAH	Mt. Juliet, TN



MW-347-090424 L1774604-02 GW

Collected by D. Del G Collected date/time 09/04/24 14:37 Received date/time 09/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2357299	1	09/06/24 19:47	09/06/24 19:47	AJC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2357467	1	09/08/24 20:20	09/08/24 20:20	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2359561	1	09/12/24 00:05	09/12/24 17:05	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2357382	1	09/07/24 11:33	09/07/24 11:33	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2360527	1	09/09/24 10:25	09/09/24 10:25	JAH	Mt. Juliet, TN



HMW-9IB-090424 L1774604-03 GW

Collected by D. Del G Collected date/time 09/04/24 15:27 Received date/time 09/05/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2357299	1	09/11/24 13:07	09/11/24 13:07	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2357467	1	09/08/24 20:41	09/08/24 20:41	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2359561	10	09/12/24 00:05	09/12/24 17:53	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2357382	1	09/07/24 11:38	09/07/24 11:38	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2358082	10	09/07/24 14:28	09/07/24 14:28	OK	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2360527	1	09/09/24 10:44	09/09/24 10:44	JAH	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

Report Revision History

Level II Report - Version 1: 09/17/24 15:48

Project Narrative

EDD



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfate	8790		637	5000	1	09/06/2024 19:30	WG2357299

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2160		102	1000	1	09/08/2024 20:00	WG2357467

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	1940		28.1	100	1	09/12/2024 17:02	WG2359561
Manganese	417		0.704	5.00	1	09/12/2024 17:02	WG2359561

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	09/08/2024 13:15	WG2357310
Ethane	U		0.296	1.29	1	09/08/2024 13:15	WG2357310
Ethene	U		0.422	1.27	1	09/08/2024 13:15	WG2357310

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	12.1	C5	0.548	1.00	1	09/09/2024 10:06	WG2360527
Acrylonitrile	U		0.0760	0.500	1	09/09/2024 10:06	WG2360527
Benzene	U		0.0160	0.0400	1	09/09/2024 10:06	WG2360527
Bromobenzene	U		0.0420	0.500	1	09/09/2024 10:06	WG2360527
Bromochloromethane	U		0.0452	0.200	1	09/09/2024 10:06	WG2360527
Bromodichloromethane	U		0.0315	0.100	1	09/09/2024 10:06	WG2360527
Bromoform	U		0.239	1.00	1	09/09/2024 10:06	WG2360527
Bromomethane	U		0.148	0.500	1	09/09/2024 10:06	WG2360527
n-Butylbenzene	U		0.153	0.500	1	09/09/2024 10:06	WG2360527
sec-Butylbenzene	U		0.101	0.500	1	09/09/2024 10:06	WG2360527
tert-Butylbenzene	U		0.0620	0.200	1	09/09/2024 10:06	WG2360527
Carbon disulfide	U		0.162	0.500	1	09/09/2024 10:06	WG2360527
Carbon tetrachloride	U		0.0432	0.200	1	09/09/2024 10:06	WG2360527
Chlorobenzene	U		0.0229	0.100	1	09/09/2024 10:06	WG2360527
Chlorodibromomethane	U		0.0180	0.100	1	09/09/2024 10:06	WG2360527
Chloroethane	U		0.0432	0.200	1	09/09/2024 10:06	WG2360527
Chloroform	U		0.0166	0.100	1	09/09/2024 10:06	WG2360527
Chloromethane	U		0.0556	0.500	1	09/09/2024 10:06	WG2360527
2-Chlorotoluene	U		0.0368	0.100	1	09/09/2024 10:06	WG2360527
4-Chlorotoluene	U		0.0452	0.200	1	09/09/2024 10:06	WG2360527
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/09/2024 10:06	WG2360527
1,2-Dibromoethane	U		0.0210	0.100	1	09/09/2024 10:06	WG2360527
Dibromomethane	U		0.0400	0.200	1	09/09/2024 10:06	WG2360527
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/09/2024 10:06	WG2360527
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/09/2024 10:06	WG2360527
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/09/2024 10:06	WG2360527
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/09/2024 10:06	WG2360527
Dichlorodifluoromethane	U		0.0327	0.200	1	09/09/2024 10:06	WG2360527
1,1-Dichloroethane	U		0.0230	0.100	1	09/09/2024 10:06	WG2360527
1,2-Dichloroethane	U		0.0190	0.100	1	09/09/2024 10:06	WG2360527
1,1-Dichloroethene	U		0.0200	0.100	1	09/09/2024 10:06	WG2360527

1 Cp

2 Tc

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
cis-1,2-Dichloroethene	0.430		0.0276	0.100	1	09/09/2024 10:06	WG2360527
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/09/2024 10:06	WG2360527
1,2-Dichloropropane	U		0.0508	0.200	1	09/09/2024 10:06	WG2360527
1,1-Dichloropropene	U		0.0280	0.100	1	09/09/2024 10:06	WG2360527
1,3-Dichloropropane	U		0.0700	0.200	1	09/09/2024 10:06	WG2360527
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/09/2024 10:06	WG2360527
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/09/2024 10:06	WG2360527
2,2-Dichloropropane	U		0.0317	0.100	1	09/09/2024 10:06	WG2360527
Di-isopropyl ether	U		0.0140	0.0400	1	09/09/2024 10:06	WG2360527
Ethylbenzene	0.0990	U	0.0212	0.100	1	09/09/2024 10:06	WG2360527
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/09/2024 10:06	WG2360527
2-Hexanone	U		0.400	1.00	1	09/09/2024 10:06	WG2360527
n-Hexane	U		0.0424	0.200	1	09/09/2024 10:06	WG2360527
Iodomethane	U		0.242	0.500	1	09/09/2024 10:06	WG2360527
Isopropylbenzene	U		0.0345	0.100	1	09/09/2024 10:06	WG2360527
p-Isopropyltoluene	U		0.0932	0.200	1	09/09/2024 10:06	WG2360527
2-Butanone (MEK)	U		0.500	1.00	1	09/09/2024 10:06	WG2360527
Methylene Chloride	U		0.265	1.00	1	09/09/2024 10:06	WG2360527
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/09/2024 10:06	WG2360527
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/09/2024 10:06	WG2360527
Naphthalene	U		0.124	0.500	1	09/09/2024 10:06	WG2360527
n-Propylbenzene	U		0.0472	0.200	1	09/09/2024 10:06	WG2360527
Styrene	U		0.109	0.500	1	09/09/2024 10:06	WG2360527
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/09/2024 10:06	WG2360527
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/09/2024 10:06	WG2360527
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/09/2024 10:06	WG2360527
Tetrachloroethene	U		0.0280	0.100	1	09/09/2024 10:06	WG2360527
Toluene	0.193	U	0.0500	0.200	1	09/09/2024 10:06	WG2360527
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/09/2024 10:06	WG2360527
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/09/2024 10:06	WG2360527
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/09/2024 10:06	WG2360527
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/09/2024 10:06	WG2360527
Trichloroethene	0.0480		0.0160	0.0400	1	09/09/2024 10:06	WG2360527
Trichlorofluoromethane	U		0.0200	0.100	1	09/09/2024 10:06	WG2360527
1,2,3-Trichloropropane	U		0.204	0.500	1	09/09/2024 10:06	WG2360527
1,2,4-Trimethylbenzene	0.0830	U	0.0464	0.200	1	09/09/2024 10:06	WG2360527
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/09/2024 10:06	WG2360527
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/09/2024 10:06	WG2360527
Vinyl acetate	U		0.141	0.500	1	09/09/2024 10:06	WG2360527
Vinyl chloride	1.27		0.0273	0.100	1	09/09/2024 10:06	WG2360527
Xylenes, Total	0.602		0.191	0.260	1	09/09/2024 10:06	WG2360527
(S) Toluene-d8	101			75.0-131		09/09/2024 10:06	WG2360527
(S) 4-Bromofluorobenzene	104			67.0-138		09/09/2024 10:06	WG2360527
(S) 1,2-Dichloroethane-d4	102			70.0-130		09/09/2024 10:06	WG2360527

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfate	39600		637	5000	1	09/06/2024 19:47	WG2357299

¹ Cp

² Tc

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1350		102	1000	1	09/08/2024 20:20	WG2357467

³ Ss

⁴ Cn

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	636		28.1	100	1	09/12/2024 17:05	WG2359561
Manganese	130		0.704	5.00	1	09/12/2024 17:05	WG2359561

⁵ Sr

⁶ Qc

⁷ Gl

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	811		0.287	0.678	1	09/07/2024 11:33	WG2357382
Ethane	5.91		0.296	1.29	1	09/07/2024 11:33	WG2357382
Ethene	11.4		0.422	1.27	1	09/07/2024 11:33	WG2357382

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	11.8	C5	0.548	1.00	1	09/09/2024 10:25	WG2360527
Acrylonitrile	U		0.0760	0.500	1	09/09/2024 10:25	WG2360527
Benzene	0.0240	J	0.0160	0.0400	1	09/09/2024 10:25	WG2360527
Bromobenzene	U		0.0420	0.500	1	09/09/2024 10:25	WG2360527
Bromochloromethane	U		0.0452	0.200	1	09/09/2024 10:25	WG2360527
Bromodichloromethane	U		0.0315	0.100	1	09/09/2024 10:25	WG2360527
Bromoform	U		0.239	1.00	1	09/09/2024 10:25	WG2360527
Bromomethane	U		0.148	0.500	1	09/09/2024 10:25	WG2360527
n-Butylbenzene	U		0.153	0.500	1	09/09/2024 10:25	WG2360527
sec-Butylbenzene	U		0.101	0.500	1	09/09/2024 10:25	WG2360527
tert-Butylbenzene	U		0.0620	0.200	1	09/09/2024 10:25	WG2360527
Carbon disulfide	U		0.162	0.500	1	09/09/2024 10:25	WG2360527
Carbon tetrachloride	U		0.0432	0.200	1	09/09/2024 10:25	WG2360527
Chlorobenzene	U		0.0229	0.100	1	09/09/2024 10:25	WG2360527
Chlorodibromomethane	U		0.0180	0.100	1	09/09/2024 10:25	WG2360527
Chloroethane	U		0.0432	0.200	1	09/09/2024 10:25	WG2360527
Chloroform	U		0.0166	0.100	1	09/09/2024 10:25	WG2360527
Chloromethane	U		0.0556	0.500	1	09/09/2024 10:25	WG2360527
2-Chlorotoluene	U		0.0368	0.100	1	09/09/2024 10:25	WG2360527
4-Chlorotoluene	U		0.0452	0.200	1	09/09/2024 10:25	WG2360527
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/09/2024 10:25	WG2360527
1,2-Dibromoethane	U		0.0210	0.100	1	09/09/2024 10:25	WG2360527
Dibromomethane	U		0.0400	0.200	1	09/09/2024 10:25	WG2360527
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/09/2024 10:25	WG2360527
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/09/2024 10:25	WG2360527
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/09/2024 10:25	WG2360527
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/09/2024 10:25	WG2360527
Dichlorodifluoromethane	U		0.0327	0.200	1	09/09/2024 10:25	WG2360527
1,1-Dichloroethane	U		0.0230	0.100	1	09/09/2024 10:25	WG2360527
1,2-Dichloroethane	U		0.0190	0.100	1	09/09/2024 10:25	WG2360527
1,1-Dichloroethene	U		0.0200	0.100	1	09/09/2024 10:25	WG2360527

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	0.502		0.0276	0.100	1	09/09/2024 10:25	WG2360527
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/09/2024 10:25	WG2360527
1,2-Dichloropropane	U		0.0508	0.200	1	09/09/2024 10:25	WG2360527
1,1-Dichloropropene	U		0.0280	0.100	1	09/09/2024 10:25	WG2360527
1,3-Dichloropropane	U		0.0700	0.200	1	09/09/2024 10:25	WG2360527
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/09/2024 10:25	WG2360527
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/09/2024 10:25	WG2360527
2,2-Dichloropropane	U		0.0317	0.100	1	09/09/2024 10:25	WG2360527
Di-isopropyl ether	U		0.0140	0.0400	1	09/09/2024 10:25	WG2360527
Ethylbenzene	0.237		0.0212	0.100	1	09/09/2024 10:25	WG2360527
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/09/2024 10:25	WG2360527
2-Hexanone	U		0.400	1.00	1	09/09/2024 10:25	WG2360527
n-Hexane	U		0.0424	0.200	1	09/09/2024 10:25	WG2360527
Iodomethane	U		0.242	0.500	1	09/09/2024 10:25	WG2360527
Isopropylbenzene	U		0.0345	0.100	1	09/09/2024 10:25	WG2360527
p-Isopropyltoluene	U		0.0932	0.200	1	09/09/2024 10:25	WG2360527
2-Butanone (MEK)	U		0.500	1.00	1	09/09/2024 10:25	WG2360527
Methylene Chloride	U		0.265	1.00	1	09/09/2024 10:25	WG2360527
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/09/2024 10:25	WG2360527
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/09/2024 10:25	WG2360527
Naphthalene	U		0.124	0.500	1	09/09/2024 10:25	WG2360527
n-Propylbenzene	U		0.0472	0.200	1	09/09/2024 10:25	WG2360527
Styrene	U		0.109	0.500	1	09/09/2024 10:25	WG2360527
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/09/2024 10:25	WG2360527
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/09/2024 10:25	WG2360527
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/09/2024 10:25	WG2360527
Tetrachloroethene	U		0.0280	0.100	1	09/09/2024 10:25	WG2360527
Toluene	0.608		0.0500	0.200	1	09/09/2024 10:25	WG2360527
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/09/2024 10:25	WG2360527
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/09/2024 10:25	WG2360527
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/09/2024 10:25	WG2360527
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/09/2024 10:25	WG2360527
Trichloroethene	0.0980		0.0160	0.0400	1	09/09/2024 10:25	WG2360527
Trichlorofluoromethane	U		0.0200	0.100	1	09/09/2024 10:25	WG2360527
1,2,3-Trichloropropane	U		0.204	0.500	1	09/09/2024 10:25	WG2360527
1,2,4-Trimethylbenzene	0.153	L	0.0464	0.200	1	09/09/2024 10:25	WG2360527
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/09/2024 10:25	WG2360527
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/09/2024 10:25	WG2360527
Vinyl acetate	U		0.141	0.500	1	09/09/2024 10:25	WG2360527
Vinyl chloride	5.79		0.0273	0.100	1	09/09/2024 10:25	WG2360527
Xylenes, Total	1.49		0.191	0.260	1	09/09/2024 10:25	WG2360527
(S) Toluene-d8	99.7			75.0-131		09/09/2024 10:25	WG2360527
(S) 4-Bromofluorobenzene	103			67.0-138		09/09/2024 10:25	WG2360527
(S) 1,2-Dichloroethane-d4	102			70.0-130		09/09/2024 10:25	WG2360527

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfate	1620	J	637	5000	1	09/11/2024 13:07	WG2357299

1
Cp

2
Tc

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6810		102	1000	1	09/08/2024 20:41	WG2357467

3
Ss

4
Cn

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	12600		281	1000	10	09/12/2024 17:53	WG2359561
Manganese	2460		7.04	50.0	10	09/12/2024 17:53	WG2359561

5
Sr

6
Qc

7
Gl

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	32100		2.87	6.78	10	09/07/2024 14:28	WG2358082
Ethane	485		0.296	1.29	1	09/07/2024 11:38	WG2357382
Ethene	U		0.422	1.27	1	09/07/2024 11:38	WG2357382

8
Al

9
Sc

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	09/09/2024 10:44	WG2360527
Acrylonitrile	U		0.0760	0.500	1	09/09/2024 10:44	WG2360527
Benzene	U		0.0160	0.0400	1	09/09/2024 10:44	WG2360527
Bromobenzene	U		0.0420	0.500	1	09/09/2024 10:44	WG2360527
Bromochloromethane	U		0.0452	0.200	1	09/09/2024 10:44	WG2360527
Bromodichloromethane	U		0.0315	0.100	1	09/09/2024 10:44	WG2360527
Bromoform	U		0.239	1.00	1	09/09/2024 10:44	WG2360527
Bromomethane	U		0.148	0.500	1	09/09/2024 10:44	WG2360527
n-Butylbenzene	U		0.153	0.500	1	09/09/2024 10:44	WG2360527
sec-Butylbenzene	U		0.101	0.500	1	09/09/2024 10:44	WG2360527
tert-Butylbenzene	U		0.0620	0.200	1	09/09/2024 10:44	WG2360527
Carbon disulfide	U		0.162	0.500	1	09/09/2024 10:44	WG2360527
Carbon tetrachloride	U		0.0432	0.200	1	09/09/2024 10:44	WG2360527
Chlorobenzene	U		0.0229	0.100	1	09/09/2024 10:44	WG2360527
Chlorodibromomethane	U		0.0180	0.100	1	09/09/2024 10:44	WG2360527
Chloroethane	U		0.0432	0.200	1	09/09/2024 10:44	WG2360527
Chloroform	U		0.0166	0.100	1	09/09/2024 10:44	WG2360527
Chloromethane	U		0.0556	0.500	1	09/09/2024 10:44	WG2360527
2-Chlorotoluene	U		0.0368	0.100	1	09/09/2024 10:44	WG2360527
4-Chlorotoluene	U		0.0452	0.200	1	09/09/2024 10:44	WG2360527
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/09/2024 10:44	WG2360527
1,2-Dibromoethane	U		0.0210	0.100	1	09/09/2024 10:44	WG2360527
Dibromomethane	U		0.0400	0.200	1	09/09/2024 10:44	WG2360527
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/09/2024 10:44	WG2360527
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/09/2024 10:44	WG2360527
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/09/2024 10:44	WG2360527
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/09/2024 10:44	WG2360527
Dichlorodifluoromethane	U		0.0327	0.200	1	09/09/2024 10:44	WG2360527
1,1-Dichloroethane	U		0.0230	0.100	1	09/09/2024 10:44	WG2360527
1,2-Dichloroethane	U		0.0190	0.100	1	09/09/2024 10:44	WG2360527
1,1-Dichloroethene	U		0.0200	0.100	1	09/09/2024 10:44	WG2360527

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/09/2024 10:44	WG2360527
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/09/2024 10:44	WG2360527
1,2-Dichloropropane	U		0.0508	0.200	1	09/09/2024 10:44	WG2360527
1,1-Dichloropropene	U		0.0280	0.100	1	09/09/2024 10:44	WG2360527
1,3-Dichloropropane	U		0.0700	0.200	1	09/09/2024 10:44	WG2360527
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/09/2024 10:44	WG2360527
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/09/2024 10:44	WG2360527
2,2-Dichloropropane	U		0.0317	0.100	1	09/09/2024 10:44	WG2360527
Di-isopropyl ether	U		0.0140	0.0400	1	09/09/2024 10:44	WG2360527
Ethylbenzene	U		0.0212	0.100	1	09/09/2024 10:44	WG2360527
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/09/2024 10:44	WG2360527
2-Hexanone	U		0.400	1.00	1	09/09/2024 10:44	WG2360527
n-Hexane	U		0.0424	0.200	1	09/09/2024 10:44	WG2360527
Iodomethane	U		0.242	0.500	1	09/09/2024 10:44	WG2360527
Isopropylbenzene	U		0.0345	0.100	1	09/09/2024 10:44	WG2360527
p-Isopropyltoluene	U		0.0932	0.200	1	09/09/2024 10:44	WG2360527
2-Butanone (MEK)	U		0.500	1.00	1	09/09/2024 10:44	WG2360527
Methylene Chloride	U		0.265	1.00	1	09/09/2024 10:44	WG2360527
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/09/2024 10:44	WG2360527
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/09/2024 10:44	WG2360527
Naphthalene	U		0.124	0.500	1	09/09/2024 10:44	WG2360527
n-Propylbenzene	U		0.0472	0.200	1	09/09/2024 10:44	WG2360527
Styrene	U		0.109	0.500	1	09/09/2024 10:44	WG2360527
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/09/2024 10:44	WG2360527
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/09/2024 10:44	WG2360527
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/09/2024 10:44	WG2360527
Tetrachloroethene	U		0.0280	0.100	1	09/09/2024 10:44	WG2360527
Toluene	U		0.0500	0.200	1	09/09/2024 10:44	WG2360527
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/09/2024 10:44	WG2360527
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/09/2024 10:44	WG2360527
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/09/2024 10:44	WG2360527
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/09/2024 10:44	WG2360527
Trichloroethene	U		0.0160	0.0400	1	09/09/2024 10:44	WG2360527
Trichlorofluoromethane	U		0.0200	0.100	1	09/09/2024 10:44	WG2360527
1,2,3-Trichloropropane	U		0.204	0.500	1	09/09/2024 10:44	WG2360527
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/09/2024 10:44	WG2360527
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/09/2024 10:44	WG2360527
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/09/2024 10:44	WG2360527
Vinyl acetate	U		0.141	0.500	1	09/09/2024 10:44	WG2360527
Vinyl chloride	U		0.0273	0.100	1	09/09/2024 10:44	WG2360527
Xylenes, Total	U		0.191	0.260	1	09/09/2024 10:44	WG2360527
(S) Toluene-d8	101			75.0-131		09/09/2024 10:44	WG2360527
(S) 4-Bromofluorobenzene	105			67.0-138		09/09/2024 10:44	WG2360527
(S) 1,2-Dichloroethane-d4	103			70.0-130		09/09/2024 10:44	WG2360527

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4117869-1 09/06/24 14:17

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Sulfate	U		637	5000

L1774557-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1774557-03 09/06/24 15:26 • (DUP) R4117869-3 09/06/24 15:44

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

Laboratory Control Sample (LCS)

(LCS) R4117869-2 09/06/24 14:34

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Sulfate	40000	38100	95.3	80.0-120	

L1774557-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774557-03 09/06/24 15:26 • (MS) R4117869-4 09/06/24 16:01 • (MSD) R4117869-5 09/06/24 16:19

	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	%	%		%			%	%
Sulfate	40000	U	38600	38300	96.5	95.8	1	80.0-120			0.668	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4117030-2 09/08/24 14:48

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

L1774411-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1774411-04 09/08/24 17:44 • (DUP) R4117030-5 09/08/24 18:04

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	3780	3760	1	0.505		20

L1774608-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1774608-02 09/08/24 22:52 • (DUP) R4117030-8 09/08/24 23:15

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	10500	10600	1	1.04		20

Laboratory Control Sample (LCS)

(LCS) R4117030-1 09/08/24 14:30

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	25000	23900	95.7	85.0-115	

L1774411-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774411-03 09/08/24 16:39 • (MS) R4117030-3 09/08/24 17:01 • (MSD) R4117030-4 09/08/24 17:24

	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	3800	27400	27300	94.4	94.0	1	85.0-115			0.293	20

L1774608-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774608-01 09/08/24 21:44 • (MS) R4117030-6 09/08/24 22:07 • (MSD) R4117030-7 09/08/24 22:30

	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	6930	33200	33100	105	105	1	85.0-115			0.392	20



Method Blank (MB)

(MB) R4119180-1 09/12/24 14:49

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

Laboratory Control Sample (LCS)

(LCS) R4119180-2 09/12/24 14:52

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	52.6	105	80.0-120	

L1773221-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1773221-08 09/12/24 14:55 • (MS) R4119180-3 09/12/24 15:02 • (MSD) R4119180-4 09/12/24 15:05

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	27900	28400	28900	55.5	96.3	1	75.0-125	V		1.43	20
Manganese	50.0	452	503	502	102	100	1	75.0-125			0.179	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4116940-2 09/08/24 10:52

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

L1774020-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1774020-01 09/08/24 11:04 • (DUP) R4116940-3 09/08/24 12:09

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

L1774370-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1774370-05 09/08/24 12:12 • (DUP) R4116940-4 09/08/24 13:18

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) R4116940-1 09/08/24 10:45 • (LCSD) R4116940-7 09/08/24 13:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methane	67.8	64.0	66.0	94.4	97.3	85.0-115			3.08	20
Ethane	129	128	125	99.2	96.9	85.0-115			2.37	20
Ethene	127	122	120	96.1	94.5	85.0-115			1.65	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

L1774370-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774370-01 09/08/24 11:22 • (MS) R4116940-5 09/08/24 13:33 • (MSD) R4116940-6 09/08/24 13:38

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Methane	67.8	U	65.0	66.8	95.9	98.5	1	85.0-115			2.73	20
Ethane	129	U	126	125	97.7	96.9	1	85.0-115			0.797	20
Ethene	127	U	121	120	95.3	94.5	1	85.0-115			0.830	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4116816-2 09/07/24 08:49

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

L1774013-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1774013-01 09/07/24 08:57 • (DUP) R4116816-3 09/07/24 10:43

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

L1774026-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1774026-03 09/07/24 10:57 • (DUP) R4116816-4 09/07/24 12:10

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) R4116816-1 09/07/24 08:23 • (LCSD) R4116816-7 09/07/24 12:26

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	72.2	70.8	106	104	85.0-115			1.96	20
Ethane	129	128	125	99.2	96.9	85.0-115			2.37	20
Ethene	127	121	121	95.3	95.3	85.0-115			0.000	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

L1768370-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1768370-01 09/07/24 08:53 • (MS) R4116816-5 09/07/24 12:14 • (MSD) R4116816-6 09/07/24 12:21

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Methane	67.8	U	81.8	83.6	121	123	1	85.0-115	<u>J5</u>	<u>J5</u>	2.18	20
Ethane	129	U	140	151	109	117	1	85.0-115	<u>J5</u>	<u>J5</u>	7.56	20
Ethene	127	U	132	144	104	113	1	85.0-115			8.70	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4116845-2 09/07/24 13:29

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

L1774374-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1774374-01 09/07/24 14:05 • (DUP) R4116845-3 09/07/24 14:51

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	12900	12800	10	0.778		20

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

(LCS) R4116845-1 09/07/24 13:22 • (LCSD) R4116845-4 09/07/24 15:07

	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	73.7	76.9	109	113	85.0-115			4.25	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4120172-3 09/09/24 08:00

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) R4120172-3 09/09/24 08:00

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	0.443	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	103			75.0-131
(S) 4-Bromofluorobenzene	98.6			67.0-138
(S) 1,2-Dichloroethane-d4	96.8			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4120172-1 09/09/24 06:25 • (LCSD) R4120172-2 09/09/24 06:44

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	30.6	30.7	122	123	10.0-160			0.326	31
Acrylonitrile	25.0	26.4	29.1	106	116	45.0-153			9.73	22
Benzene	5.00	5.17	4.93	103	98.6	70.0-123			4.75	20
Bromobenzene	5.00	4.94	4.99	98.8	99.8	73.0-121			1.01	20
Bromochloromethane	5.00	5.44	5.24	109	105	77.0-128			3.75	20
Bromodichloromethane	5.00	4.93	4.79	98.6	95.8	73.0-121			2.88	20
Bromoform	5.00	5.00	4.96	100	99.2	64.0-132			0.803	20
Bromomethane	5.00	5.40	4.83	108	96.6	56.0-147			11.1	20
n-Butylbenzene	5.00	5.43	5.27	109	105	68.0-135			2.99	20
sec-Butylbenzene	5.00	5.20	5.12	104	102	74.0-130			1.55	20
tert-Butylbenzene	5.00	5.21	5.15	104	103	75.0-127			1.16	20
Carbon disulfide	5.00	5.76	5.30	115	106	56.0-133			8.32	20
Carbon tetrachloride	5.00	6.00	5.72	120	114	66.0-128			4.78	20
Chlorobenzene	5.00	5.12	4.88	102	97.6	76.0-128			4.80	20
Chlorodibromomethane	5.00	5.01	4.77	100	95.4	74.0-127			4.91	20
Chloroethane	5.00	5.14	5.02	103	100	61.0-134			2.36	20
Chloroform	5.00	5.24	4.94	105	98.8	72.0-123			5.89	20
Chloromethane	5.00	4.77	4.70	95.4	94.0	51.0-138			1.48	20
2-Chlorotoluene	5.00	5.12	5.14	102	103	75.0-124			0.390	20
4-Chlorotoluene	5.00	4.86	4.88	97.2	97.6	75.0-124			0.411	20
1,2-Dibromo-3-Chloropropane	5.00	5.04	4.73	101	94.6	59.0-130			6.35	20
1,2-Dibromoethane	5.00	4.91	4.75	98.2	95.0	74.0-128			3.31	20
Dibromomethane	5.00	5.17	5.04	103	101	75.0-122			2.55	20
1,2-Dichlorobenzene	5.00	5.10	4.91	102	98.2	76.0-124			3.80	20
1,3-Dichlorobenzene	5.00	5.19	5.05	104	101	76.0-125			2.73	20
1,4-Dichlorobenzene	5.00	4.98	4.90	99.6	98.0	77.0-121			1.62	20
trans-1,4-Dichloro-2-butene	5.00	5.04	4.95	101	99.0	45.0-143			1.80	20
Dichlorodifluoromethane	5.00	6.83	6.39	137	128	43.0-156			6.66	20
1,1-Dichloroethane	5.00	5.24	4.94	105	98.8	70.0-127			5.89	20
1,2-Dichloroethane	5.00	5.19	5.00	104	100	65.0-131			3.73	20
1,1-Dichloroethene	5.00	5.53	5.18	111	104	65.0-131			6.54	20
cis-1,2-Dichloroethene	5.00	5.29	5.01	106	100	73.0-125			5.44	20
trans-1,2-Dichloroethene	5.00	5.37	5.08	107	102	71.0-125			5.55	20
1,2-Dichloropropane	5.00	5.03	4.84	101	96.8	74.0-125			3.85	20
1,1-Dichloropropene	5.00	5.64	5.40	113	108	73.0-125			4.35	20
1,3-Dichloropropane	5.00	4.84	4.78	96.8	95.6	80.0-125			1.25	20
cis-1,3-Dichloropropene	5.00	5.11	4.97	102	99.4	76.0-127			2.78	20
trans-1,3-Dichloropropene	5.00	5.01	4.90	100	98.0	73.0-127			2.22	20
2,2-Dichloropropane	5.00	6.39	5.52	128	110	59.0-135			14.6	20
Di-isopropyl ether	5.00	5.13	4.89	103	97.8	60.0-136			4.79	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4120172-1 09/09/24 06:25 • (LCSD) R4120172-2 09/09/24 06:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	5.00	5.53	5.24	111	105	74.0-126			5.39	20
Hexachloro-1,3-butadiene	5.00	5.51	5.41	110	108	57.0-150			1.83	20
2-Hexanone	25.0	25.6	24.6	102	98.4	54.0-147			3.98	20
n-Hexane	5.00	5.66	5.22	113	104	55.0-137			8.09	20
Iodomethane	25.0	26.5	25.6	106	102	74.0-134			3.45	20
Isopropylbenzene	5.00	5.43	5.07	109	101	72.0-127			6.86	20
p-Isopropyltoluene	5.00	5.33	5.31	107	106	72.0-133			0.376	20
2-Butanone (MEK)	25.0	26.7	25.7	107	103	30.0-160			3.82	24
Methylene Chloride	5.00	5.03	4.72	101	94.4	68.0-123			6.36	20
4-Methyl-2-pentanone (MIBK)	25.0	26.8	26.1	107	104	56.0-143			2.65	20
Methyl tert-butyl ether	5.00	5.14	4.82	103	96.4	66.0-132			6.43	20
Naphthalene	5.00	4.33	4.12	86.6	82.4	59.0-130			4.97	20
n-Propylbenzene	5.00	5.47	5.39	109	108	74.0-126			1.47	20
Styrene	5.00	5.34	5.02	107	100	72.0-127			6.18	20
1,1,1,2-Tetrachloroethane	5.00	5.60	5.18	112	104	74.0-129			7.79	20
1,1,2,2-Tetrachloroethane	5.00	4.73	4.67	94.6	93.4	68.0-128			1.28	20
1,1,2-Trichlorotrifluoroethane	5.00	5.68	5.28	114	106	61.0-139			7.30	20
Tetrachloroethene	5.00	5.56	5.28	111	106	70.0-136			5.17	20
Toluene	5.00	5.12	4.98	102	99.6	75.0-121			2.77	20
1,2,3-Trichlorobenzene	5.00	4.95	4.79	99.0	95.8	59.0-139			3.29	20
1,2,4-Trichlorobenzene	5.00	5.37	5.27	107	105	62.0-137			1.88	20
1,1,1-Trichloroethane	5.00	5.75	5.32	115	106	69.0-126			7.77	20
1,1,2-Trichloroethane	5.00	4.78	4.69	95.6	93.8	78.0-123			1.90	20
Trichloroethene	5.00	5.81	5.67	116	113	76.0-126			2.44	20
Trichlorofluoromethane	5.00	5.51	5.22	110	104	61.0-142	U	U	5.41	20
1,2,3-Trichloropropane	5.00	4.97	4.86	99.4	97.2	67.0-129			2.24	20
1,2,4-Trimethylbenzene	5.00	4.99	4.90	99.8	98.0	70.0-126			1.82	20
1,2,3-Trimethylbenzene	5.00	4.97	4.81	99.4	96.2	74.0-124			3.27	20
1,3,5-Trimethylbenzene	5.00	5.09	5.02	102	100	73.0-127			1.38	20
Vinyl acetate	25.0	20.9	19.0	83.6	76.0	43.0-159			9.52	20
Vinyl chloride	5.00	5.80	5.39	116	108	63.0-134			7.33	20
Xylenes, Total	15.0	16.2	15.3	108	102	72.0-127			5.71	20
(S) Toluene-d8				100	101	75.0-131				
(S) 4-Bromofluorobenzene				104	102	67.0-138				
(S) 1,2-Dichloroethane-d4				101	101	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

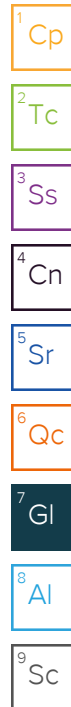
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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
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.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

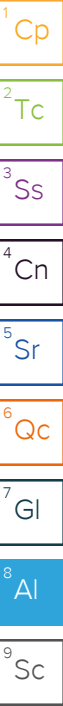
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



8/26/2024, 9:06 AM

PES Environmental, Inc.- WA

Sample Delivery Group: L1775129
Samples Received: 09/06/2024
Project Number: 443022-1413001.10.60
Description: American Linen

Report To: Daniel Balbiani
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

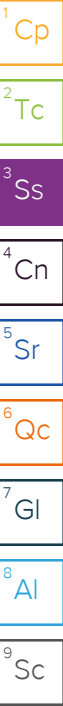
MW-348-090524 L1775129-01 GW

Collected by
D. Del G

Collected date/time
09/05/24 10:00

Received date/time
09/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2357775	1	09/09/24 22:41	09/09/24 22:41	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2361382	1	09/13/24 15:56	09/13/24 15:56	KAM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2361344	1	09/19/24 21:04	09/20/24 14:29	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2358367	1	09/10/24 12:05	09/10/24 12:05	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2359750	10	09/10/24 16:21	09/10/24 16:21	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2361379	1	09/12/24 16:20	09/12/24 16:20	JHH	Mt. Juliet, TN



MW-346-090524 L1775129-02 GW

Collected by
D. Del G

Collected date/time
09/05/24 12:36

Received date/time
09/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2357775	5	09/09/24 23:22	09/09/24 23:22	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2361382	1	09/13/24 17:19	09/13/24 17:19	KAM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2361344	1	09/19/24 21:04	09/20/24 14:32	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2358367	1	09/10/24 12:10	09/10/24 12:10	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2361379	1	09/12/24 16:39	09/12/24 16:39	JHH	Mt. Juliet, TN

MW-992-090524 L1775129-03 GW

Collected by
D. Del G

Collected date/time
09/05/24 11:11

Received date/time
09/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2357775	5	09/09/24 23:35	09/09/24 23:35	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2361382	1	09/13/24 17:58	09/13/24 17:58	KAM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2361344	1	09/19/24 21:04	09/20/24 14:35	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2358367	1	09/10/24 12:16	09/10/24 12:16	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2361379	1	09/12/24 16:58	09/12/24 16:58	JHH	Mt. Juliet, TN

MW-350-090524 L1775129-04 GW

Collected by
D. Del G

Collected date/time
09/05/24 12:55

Received date/time
09/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2357775	1	09/09/24 23:49	09/09/24 23:49	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2361382	1	09/13/24 18:17	09/13/24 18:17	KAM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2361347	1	09/19/24 19:40	09/20/24 16:54	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2361347	5	09/19/24 19:40	09/20/24 18:32	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2358367	1	09/10/24 12:25	09/10/24 12:25	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2361379	1	09/12/24 17:17	09/12/24 17:17	JHH	Mt. Juliet, TN

EQ-090524 L1775129-06 GW

Collected by
D. Del G

Collected date/time
09/05/24 14:45

Received date/time
09/06/24 09:00

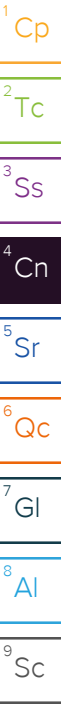
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2357775	1	09/10/24 00:02	09/10/24 00:02	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2361382	1	09/13/24 18:37	09/13/24 18:37	KAM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2361347	1	09/19/24 19:40	09/20/24 16:57	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2358367	1	09/10/24 12:30	09/10/24 12:30	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2361379	1	09/12/24 14:45	09/12/24 14:45	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



Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Sulfate	8940		637	5000	1	09/09/2024 22:41	WG2357775

¹ Cp

² Tc

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		102	1000	1	09/13/2024 15:56	WG2361382

³ Ss

⁴ Cn

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	983		28.1	100	1	09/20/2024 14:29	WG2361344
Manganese	164		0.704	5.00	1	09/20/2024 14:29	WG2361344

⁵ Sr

⁶ Qc

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	36000		2.87	6.78	10	09/10/2024 16:21	WG2359750
Ethane	22.3		0.296	1.29	1	09/10/2024 12:05	WG2358367
Ethene	327		0.422	1.27	1	09/10/2024 12:05	WG2358367

⁷ Gl

⁸ Al

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	33.8		0.548	1.00	1	09/12/2024 16:20	WG2361379
Acrylonitrile	U		0.0760	0.500	1	09/12/2024 16:20	WG2361379
Benzene	U		0.0160	0.0400	1	09/12/2024 16:20	WG2361379
Bromobenzene	U		0.0420	0.500	1	09/12/2024 16:20	WG2361379
Bromochloromethane	U		0.0452	0.200	1	09/12/2024 16:20	WG2361379
Bromodichloromethane	U		0.0315	0.100	1	09/12/2024 16:20	WG2361379
Bromoform	U		0.239	1.00	1	09/12/2024 16:20	WG2361379
Bromomethane	U		0.148	0.500	1	09/12/2024 16:20	WG2361379
n-Butylbenzene	U		0.153	0.500	1	09/12/2024 16:20	WG2361379
sec-Butylbenzene	U		0.101	0.500	1	09/12/2024 16:20	WG2361379
tert-Butylbenzene	U		0.0620	0.200	1	09/12/2024 16:20	WG2361379
Carbon disulfide	0.568		0.162	0.500	1	09/12/2024 16:20	WG2361379
Carbon tetrachloride	U		0.0432	0.200	1	09/12/2024 16:20	WG2361379
Chlorobenzene	U		0.0229	0.100	1	09/12/2024 16:20	WG2361379
Chlorodibromomethane	U		0.0180	0.100	1	09/12/2024 16:20	WG2361379
Chloroethane	U		0.0432	0.200	1	09/12/2024 16:20	WG2361379
Chloroform	U		0.0166	0.100	1	09/12/2024 16:20	WG2361379
Chloromethane	U		0.0556	0.500	1	09/12/2024 16:20	WG2361379
2-Chlorotoluene	U		0.0368	0.100	1	09/12/2024 16:20	WG2361379
4-Chlorotoluene	U		0.0452	0.200	1	09/12/2024 16:20	WG2361379
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/12/2024 16:20	WG2361379
1,2-Dibromoethane	U		0.0210	0.100	1	09/12/2024 16:20	WG2361379
Dibromomethane	U		0.0400	0.200	1	09/12/2024 16:20	WG2361379
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/12/2024 16:20	WG2361379
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/12/2024 16:20	WG2361379
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/12/2024 16:20	WG2361379
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/12/2024 16:20	WG2361379
Dichlorodifluoromethane	U		0.0327	0.200	1	09/12/2024 16:20	WG2361379
1,1-Dichloroethane	0.0360	J	0.0230	0.100	1	09/12/2024 16:20	WG2361379
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 16:20	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 16:20	WG2361379

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
cis-1,2-Dichloroethene	2.15		0.0276	0.100	1	09/12/2024 16:20	WG2361379
trans-1,2-Dichloroethene	0.0890	J	0.0572	0.200	1	09/12/2024 16:20	WG2361379
1,2-Dichloropropane	U		0.0508	0.200	1	09/12/2024 16:20	WG2361379
1,1-Dichloropropene	U		0.0280	0.100	1	09/12/2024 16:20	WG2361379
1,3-Dichloropropane	U		0.0700	0.200	1	09/12/2024 16:20	WG2361379
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/12/2024 16:20	WG2361379
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/12/2024 16:20	WG2361379
2,2-Dichloropropane	U		0.0317	0.100	1	09/12/2024 16:20	WG2361379
Di-isopropyl ether	U		0.0140	0.0400	1	09/12/2024 16:20	WG2361379
Ethylbenzene	U		0.0212	0.100	1	09/12/2024 16:20	WG2361379
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/12/2024 16:20	WG2361379
2-Hexanone	U		0.400	1.00	1	09/12/2024 16:20	WG2361379
n-Hexane	U		0.0424	0.200	1	09/12/2024 16:20	WG2361379
Iodomethane	U		0.242	0.500	1	09/12/2024 16:20	WG2361379
Isopropylbenzene	U		0.0345	0.100	1	09/12/2024 16:20	WG2361379
p-Isopropyltoluene	U		0.0932	0.200	1	09/12/2024 16:20	WG2361379
2-Butanone (MEK)	2.36		0.500	1.00	1	09/12/2024 16:20	WG2361379
Methylene Chloride	U		0.265	1.00	1	09/12/2024 16:20	WG2361379
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/12/2024 16:20	WG2361379
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/12/2024 16:20	WG2361379
Naphthalene	U		0.124	0.500	1	09/12/2024 16:20	WG2361379
n-Propylbenzene	U		0.0472	0.200	1	09/12/2024 16:20	WG2361379
Styrene	U		0.109	0.500	1	09/12/2024 16:20	WG2361379
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/12/2024 16:20	WG2361379
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/12/2024 16:20	WG2361379
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/12/2024 16:20	WG2361379
Tetrachloroethene	U		0.0280	0.100	1	09/12/2024 16:20	WG2361379
Toluene	0.0580	J	0.0500	0.200	1	09/12/2024 16:20	WG2361379
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/12/2024 16:20	WG2361379
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/12/2024 16:20	WG2361379
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/12/2024 16:20	WG2361379
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/12/2024 16:20	WG2361379
Trichloroethene	0.109		0.0160	0.0400	1	09/12/2024 16:20	WG2361379
Trichlorofluoromethane	U		0.0200	0.100	1	09/12/2024 16:20	WG2361379
1,2,3-Trichloropropane	U		0.204	0.500	1	09/12/2024 16:20	WG2361379
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/12/2024 16:20	WG2361379
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/12/2024 16:20	WG2361379
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/12/2024 16:20	WG2361379
Vinyl acetate	U		0.141	0.500	1	09/12/2024 16:20	WG2361379
Vinyl chloride	7.17		0.0273	0.100	1	09/12/2024 16:20	WG2361379
Xylenes, Total	U		0.191	0.260	1	09/12/2024 16:20	WG2361379
(S) Toluene-d8	98.5			75.0-131		09/12/2024 16:20	WG2361379
(S) 4-Bromofluorobenzene	98.8			67.0-138		09/12/2024 16:20	WG2361379
(S) 1,2-Dichloroethane-d4	105			70.0-130		09/12/2024 16:20	WG2361379

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfate	68400		3180	25000	5	09/09/2024 23:22	WG2357775

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1350		102	1000	1	09/13/2024 17:19	WG2361382

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	1970		28.1	100	1	09/20/2024 14:32	WG2361344
Manganese	184		0.704	5.00	1	09/20/2024 14:32	WG2361344

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	791		0.287	0.678	1	09/10/2024 12:10	WG2358367
Ethane	U		0.296	1.29	1	09/10/2024 12:10	WG2358367
Ethene	3.46		0.422	1.27	1	09/10/2024 12:10	WG2358367

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	0.967	B J	0.548	1.00	1	09/12/2024 16:39	WG2361379
Acrylonitrile	U		0.0760	0.500	1	09/12/2024 16:39	WG2361379
Benzene	U		0.0160	0.0400	1	09/12/2024 16:39	WG2361379
Bromobenzene	U		0.0420	0.500	1	09/12/2024 16:39	WG2361379
Bromochloromethane	U		0.0452	0.200	1	09/12/2024 16:39	WG2361379
Bromodichloromethane	U		0.0315	0.100	1	09/12/2024 16:39	WG2361379
Bromoform	U		0.239	1.00	1	09/12/2024 16:39	WG2361379
Bromomethane	U		0.148	0.500	1	09/12/2024 16:39	WG2361379
n-Butylbenzene	U		0.153	0.500	1	09/12/2024 16:39	WG2361379
sec-Butylbenzene	U		0.101	0.500	1	09/12/2024 16:39	WG2361379
tert-Butylbenzene	U		0.0620	0.200	1	09/12/2024 16:39	WG2361379
Carbon disulfide	U		0.162	0.500	1	09/12/2024 16:39	WG2361379
Carbon tetrachloride	U		0.0432	0.200	1	09/12/2024 16:39	WG2361379
Chlorobenzene	U		0.0229	0.100	1	09/12/2024 16:39	WG2361379
Chlorodibromomethane	U		0.0180	0.100	1	09/12/2024 16:39	WG2361379
Chloroethane	U		0.0432	0.200	1	09/12/2024 16:39	WG2361379
Chloroform	U		0.0166	0.100	1	09/12/2024 16:39	WG2361379
Chloromethane	U		0.0556	0.500	1	09/12/2024 16:39	WG2361379
2-Chlorotoluene	U		0.0368	0.100	1	09/12/2024 16:39	WG2361379
4-Chlorotoluene	U		0.0452	0.200	1	09/12/2024 16:39	WG2361379
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/12/2024 16:39	WG2361379
1,2-Dibromoethane	U		0.0210	0.100	1	09/12/2024 16:39	WG2361379
Dibromomethane	U		0.0400	0.200	1	09/12/2024 16:39	WG2361379
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/12/2024 16:39	WG2361379
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/12/2024 16:39	WG2361379
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/12/2024 16:39	WG2361379
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/12/2024 16:39	WG2361379
Dichlorodifluoromethane	U		0.0327	0.200	1	09/12/2024 16:39	WG2361379
1,1-Dichloroethane	U		0.0230	0.100	1	09/12/2024 16:39	WG2361379
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 16:39	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 16:39	WG2361379

1 Cp

2 Tc

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
cis-1,2-Dichloroethene	1.67		0.0276	0.100	1	09/12/2024 16:39	WG2361379
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/12/2024 16:39	WG2361379
1,2-Dichloropropane	U		0.0508	0.200	1	09/12/2024 16:39	WG2361379
1,1-Dichloropropene	U		0.0280	0.100	1	09/12/2024 16:39	WG2361379
1,3-Dichloropropane	U		0.0700	0.200	1	09/12/2024 16:39	WG2361379
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/12/2024 16:39	WG2361379
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/12/2024 16:39	WG2361379
2,2-Dichloropropane	U		0.0317	0.100	1	09/12/2024 16:39	WG2361379
Di-isopropyl ether	U		0.0140	0.0400	1	09/12/2024 16:39	WG2361379
Ethylbenzene	U		0.0212	0.100	1	09/12/2024 16:39	WG2361379
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/12/2024 16:39	WG2361379
2-Hexanone	U		0.400	1.00	1	09/12/2024 16:39	WG2361379
n-Hexane	U		0.0424	0.200	1	09/12/2024 16:39	WG2361379
Iodomethane	U		0.242	0.500	1	09/12/2024 16:39	WG2361379
Isopropylbenzene	U		0.0345	0.100	1	09/12/2024 16:39	WG2361379
p-Isopropyltoluene	U		0.0932	0.200	1	09/12/2024 16:39	WG2361379
2-Butanone (MEK)	U		0.500	1.00	1	09/12/2024 16:39	WG2361379
Methylene Chloride	U		0.265	1.00	1	09/12/2024 16:39	WG2361379
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/12/2024 16:39	WG2361379
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/12/2024 16:39	WG2361379
Naphthalene	U		0.124	0.500	1	09/12/2024 16:39	WG2361379
n-Propylbenzene	U		0.0472	0.200	1	09/12/2024 16:39	WG2361379
Styrene	U		0.109	0.500	1	09/12/2024 16:39	WG2361379
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/12/2024 16:39	WG2361379
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/12/2024 16:39	WG2361379
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/12/2024 16:39	WG2361379
Tetrachloroethene	U		0.0280	0.100	1	09/12/2024 16:39	WG2361379
Toluene	U		0.0500	0.200	1	09/12/2024 16:39	WG2361379
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/12/2024 16:39	WG2361379
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/12/2024 16:39	WG2361379
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/12/2024 16:39	WG2361379
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/12/2024 16:39	WG2361379
Trichloroethene	0.334		0.0160	0.0400	1	09/12/2024 16:39	WG2361379
Trichlorofluoromethane	U		0.0200	0.100	1	09/12/2024 16:39	WG2361379
1,2,3-Trichloropropane	U		0.204	0.500	1	09/12/2024 16:39	WG2361379
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/12/2024 16:39	WG2361379
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/12/2024 16:39	WG2361379
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/12/2024 16:39	WG2361379
Vinyl acetate	U		0.141	0.500	1	09/12/2024 16:39	WG2361379
Vinyl chloride	1.40		0.0273	0.100	1	09/12/2024 16:39	WG2361379
Xylenes, Total	U		0.191	0.260	1	09/12/2024 16:39	WG2361379
(S) Toluene-d8	95.0			75.0-131		09/12/2024 16:39	WG2361379
(S) 4-Bromofluorobenzene	104			67.0-138		09/12/2024 16:39	WG2361379
(S) 1,2-Dichloroethane-d4	106			70.0-130		09/12/2024 16:39	WG2361379

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfate	68500		3180	25000	5	09/09/2024 23:35	WG2357775

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1370		102	1000	1	09/13/2024 17:58	WG2361382

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	1150		28.1	100	1	09/20/2024 14:35	WG2361344
Manganese	183		0.704	5.00	1	09/20/2024 14:35	WG2361344

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	460		0.287	0.678	1	09/10/2024 12:16	WG2358367
Ethane	U		0.296	1.29	1	09/10/2024 12:16	WG2358367
Ethene	2.86		0.422	1.27	1	09/10/2024 12:16	WG2358367

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	3.24	B	0.548	1.00	1	09/12/2024 16:58	WG2361379
Acrylonitrile	U		0.0760	0.500	1	09/12/2024 16:58	WG2361379
Benzene	U		0.0160	0.0400	1	09/12/2024 16:58	WG2361379
Bromobenzene	U		0.0420	0.500	1	09/12/2024 16:58	WG2361379
Bromochloromethane	U		0.0452	0.200	1	09/12/2024 16:58	WG2361379
Bromodichloromethane	U		0.0315	0.100	1	09/12/2024 16:58	WG2361379
Bromoform	U		0.239	1.00	1	09/12/2024 16:58	WG2361379
Bromomethane	U		0.148	0.500	1	09/12/2024 16:58	WG2361379
n-Butylbenzene	U		0.153	0.500	1	09/12/2024 16:58	WG2361379
sec-Butylbenzene	U		0.101	0.500	1	09/12/2024 16:58	WG2361379
tert-Butylbenzene	U		0.0620	0.200	1	09/12/2024 16:58	WG2361379
Carbon disulfide	U		0.162	0.500	1	09/12/2024 16:58	WG2361379
Carbon tetrachloride	U		0.0432	0.200	1	09/12/2024 16:58	WG2361379
Chlorobenzene	U		0.0229	0.100	1	09/12/2024 16:58	WG2361379
Chlorodibromomethane	U		0.0180	0.100	1	09/12/2024 16:58	WG2361379
Chloroethane	U		0.0432	0.200	1	09/12/2024 16:58	WG2361379
Chloroform	U		0.0166	0.100	1	09/12/2024 16:58	WG2361379
Chloromethane	U		0.0556	0.500	1	09/12/2024 16:58	WG2361379
2-Chlorotoluene	U		0.0368	0.100	1	09/12/2024 16:58	WG2361379
4-Chlorotoluene	U		0.0452	0.200	1	09/12/2024 16:58	WG2361379
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/12/2024 16:58	WG2361379
1,2-Dibromoethane	U		0.0210	0.100	1	09/12/2024 16:58	WG2361379
Dibromomethane	U		0.0400	0.200	1	09/12/2024 16:58	WG2361379
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/12/2024 16:58	WG2361379
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/12/2024 16:58	WG2361379
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/12/2024 16:58	WG2361379
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/12/2024 16:58	WG2361379
Dichlorodifluoromethane	U		0.0327	0.200	1	09/12/2024 16:58	WG2361379
1,1-Dichloroethane	U		0.0230	0.100	1	09/12/2024 16:58	WG2361379
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 16:58	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 16:58	WG2361379

1 Cp

2 Tc

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
cis-1,2-Dichloroethene	1.43		0.0276	0.100	1	09/12/2024 16:58	WG2361379
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/12/2024 16:58	WG2361379
1,2-Dichloropropane	U		0.0508	0.200	1	09/12/2024 16:58	WG2361379
1,1-Dichloropropene	U		0.0280	0.100	1	09/12/2024 16:58	WG2361379
1,3-Dichloropropane	U		0.0700	0.200	1	09/12/2024 16:58	WG2361379
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/12/2024 16:58	WG2361379
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/12/2024 16:58	WG2361379
2,2-Dichloropropane	U		0.0317	0.100	1	09/12/2024 16:58	WG2361379
Di-isopropyl ether	U		0.0140	0.0400	1	09/12/2024 16:58	WG2361379
Ethylbenzene	U		0.0212	0.100	1	09/12/2024 16:58	WG2361379
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/12/2024 16:58	WG2361379
2-Hexanone	U		0.400	1.00	1	09/12/2024 16:58	WG2361379
n-Hexane	U		0.0424	0.200	1	09/12/2024 16:58	WG2361379
Iodomethane	U		0.242	0.500	1	09/12/2024 16:58	WG2361379
Isopropylbenzene	U		0.0345	0.100	1	09/12/2024 16:58	WG2361379
p-Isopropyltoluene	U		0.0932	0.200	1	09/12/2024 16:58	WG2361379
2-Butanone (MEK)	U		0.500	1.00	1	09/12/2024 16:58	WG2361379
Methylene Chloride	U		0.265	1.00	1	09/12/2024 16:58	WG2361379
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/12/2024 16:58	WG2361379
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/12/2024 16:58	WG2361379
Naphthalene	U		0.124	0.500	1	09/12/2024 16:58	WG2361379
n-Propylbenzene	U		0.0472	0.200	1	09/12/2024 16:58	WG2361379
Styrene	U		0.109	0.500	1	09/12/2024 16:58	WG2361379
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/12/2024 16:58	WG2361379
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/12/2024 16:58	WG2361379
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/12/2024 16:58	WG2361379
Tetrachloroethene	U		0.0280	0.100	1	09/12/2024 16:58	WG2361379
Toluene	U		0.0500	0.200	1	09/12/2024 16:58	WG2361379
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/12/2024 16:58	WG2361379
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/12/2024 16:58	WG2361379
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/12/2024 16:58	WG2361379
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/12/2024 16:58	WG2361379
Trichloroethene	0.333		0.0160	0.0400	1	09/12/2024 16:58	WG2361379
Trichlorofluoromethane	U		0.0200	0.100	1	09/12/2024 16:58	WG2361379
1,2,3-Trichloropropane	U		0.204	0.500	1	09/12/2024 16:58	WG2361379
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/12/2024 16:58	WG2361379
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/12/2024 16:58	WG2361379
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/12/2024 16:58	WG2361379
Vinyl acetate	U		0.141	0.500	1	09/12/2024 16:58	WG2361379
Vinyl chloride	0.939		0.0273	0.100	1	09/12/2024 16:58	WG2361379
Xylenes, Total	U		0.191	0.260	1	09/12/2024 16:58	WG2361379
(S) Toluene-d8	95.3			75.0-131		09/12/2024 16:58	WG2361379
(S) 4-Bromofluorobenzene	105			67.0-138		09/12/2024 16:58	WG2361379
(S) 1,2-Dichloroethane-d4	105			70.0-130		09/12/2024 16:58	WG2361379

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfate	28400		637	5000	1	09/09/2024 23:49	WG2357775

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1830		102	1000	1	09/13/2024 18:17	WG2361382

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	1210		28.1	100	1	09/20/2024 16:54	WG2361347
Manganese	694		3.52	25.0	5	09/20/2024 18:32	WG2361347

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	5450		0.287	0.678	1	09/10/2024 12:25	WG2358367
Ethane	63.6		0.296	1.29	1	09/10/2024 12:25	WG2358367
Ethene	63.3		0.422	1.27	1	09/10/2024 12:25	WG2358367

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.03	B	0.548	1.00	1	09/12/2024 17:17	WG2361379
Acrylonitrile	U		0.0760	0.500	1	09/12/2024 17:17	WG2361379
Benzene	U		0.0160	0.0400	1	09/12/2024 17:17	WG2361379
Bromobenzene	U		0.0420	0.500	1	09/12/2024 17:17	WG2361379
Bromochloromethane	U		0.0452	0.200	1	09/12/2024 17:17	WG2361379
Bromodichloromethane	U		0.0315	0.100	1	09/12/2024 17:17	WG2361379
Bromoform	U		0.239	1.00	1	09/12/2024 17:17	WG2361379
Bromomethane	U		0.148	0.500	1	09/12/2024 17:17	WG2361379
n-Butylbenzene	U		0.153	0.500	1	09/12/2024 17:17	WG2361379
sec-Butylbenzene	U		0.101	0.500	1	09/12/2024 17:17	WG2361379
tert-Butylbenzene	U		0.0620	0.200	1	09/12/2024 17:17	WG2361379
Carbon disulfide	0.324	J	0.162	0.500	1	09/12/2024 17:17	WG2361379
Carbon tetrachloride	U		0.0432	0.200	1	09/12/2024 17:17	WG2361379
Chlorobenzene	U		0.0229	0.100	1	09/12/2024 17:17	WG2361379
Chlorodibromomethane	U		0.0180	0.100	1	09/12/2024 17:17	WG2361379
Chloroethane	U		0.0432	0.200	1	09/12/2024 17:17	WG2361379
Chloroform	U		0.0166	0.100	1	09/12/2024 17:17	WG2361379
Chloromethane	U		0.0556	0.500	1	09/12/2024 17:17	WG2361379
2-Chlorotoluene	U		0.0368	0.100	1	09/12/2024 17:17	WG2361379
4-Chlorotoluene	U		0.0452	0.200	1	09/12/2024 17:17	WG2361379
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/12/2024 17:17	WG2361379
1,2-Dibromoethane	U		0.0210	0.100	1	09/12/2024 17:17	WG2361379
Dibromomethane	U		0.0400	0.200	1	09/12/2024 17:17	WG2361379
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/12/2024 17:17	WG2361379
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/12/2024 17:17	WG2361379
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/12/2024 17:17	WG2361379
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/12/2024 17:17	WG2361379
Dichlorodifluoromethane	U		0.0327	0.200	1	09/12/2024 17:17	WG2361379
1,1-Dichloroethane	U		0.0230	0.100	1	09/12/2024 17:17	WG2361379
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 17:17	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 17:17	WG2361379

1 Cp

2 Tc

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
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/12/2024 17:17	WG2361379
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/12/2024 17:17	WG2361379
1,2-Dichloropropane	U		0.0508	0.200	1	09/12/2024 17:17	WG2361379
1,1-Dichloropropene	U		0.0280	0.100	1	09/12/2024 17:17	WG2361379
1,3-Dichloropropane	U		0.0700	0.200	1	09/12/2024 17:17	WG2361379
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/12/2024 17:17	WG2361379
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/12/2024 17:17	WG2361379
2,2-Dichloropropane	U		0.0317	0.100	1	09/12/2024 17:17	WG2361379
Di-isopropyl ether	U		0.0140	0.0400	1	09/12/2024 17:17	WG2361379
Ethylbenzene	0.0940	U	0.0212	0.100	1	09/12/2024 17:17	WG2361379
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/12/2024 17:17	WG2361379
2-Hexanone	U		0.400	1.00	1	09/12/2024 17:17	WG2361379
n-Hexane	U		0.0424	0.200	1	09/12/2024 17:17	WG2361379
Iodomethane	U		0.242	0.500	1	09/12/2024 17:17	WG2361379
Isopropylbenzene	U		0.0345	0.100	1	09/12/2024 17:17	WG2361379
p-Isopropyltoluene	U		0.0932	0.200	1	09/12/2024 17:17	WG2361379
2-Butanone (MEK)	U		0.500	1.00	1	09/12/2024 17:17	WG2361379
Methylene Chloride	U		0.265	1.00	1	09/12/2024 17:17	WG2361379
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/12/2024 17:17	WG2361379
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/12/2024 17:17	WG2361379
Naphthalene	U		0.124	0.500	1	09/12/2024 17:17	WG2361379
n-Propylbenzene	U		0.0472	0.200	1	09/12/2024 17:17	WG2361379
Styrene	U		0.109	0.500	1	09/12/2024 17:17	WG2361379
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/12/2024 17:17	WG2361379
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/12/2024 17:17	WG2361379
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/12/2024 17:17	WG2361379
Tetrachloroethene	U		0.0280	0.100	1	09/12/2024 17:17	WG2361379
Toluene	0.255		0.0500	0.200	1	09/12/2024 17:17	WG2361379
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/12/2024 17:17	WG2361379
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/12/2024 17:17	WG2361379
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/12/2024 17:17	WG2361379
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/12/2024 17:17	WG2361379
Trichloroethene	U		0.0160	0.0400	1	09/12/2024 17:17	WG2361379
Trichlorofluoromethane	U		0.0200	0.100	1	09/12/2024 17:17	WG2361379
1,2,3-Trichloropropane	U		0.204	0.500	1	09/12/2024 17:17	WG2361379
1,2,4-Trimethylbenzene	0.103	U	0.0464	0.200	1	09/12/2024 17:17	WG2361379
1,2,3-Trimethylbenzene	0.0580	U	0.0460	0.200	1	09/12/2024 17:17	WG2361379
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/12/2024 17:17	WG2361379
Vinyl acetate	U		0.141	0.500	1	09/12/2024 17:17	WG2361379
Vinyl chloride	19.0		0.0273	0.100	1	09/12/2024 17:17	WG2361379
Xylenes, Total	0.495		0.191	0.260	1	09/12/2024 17:17	WG2361379
(S) Toluene-d8	95.9			75.0-131		09/12/2024 17:17	WG2361379
(S) 4-Bromofluorobenzene	103			67.0-138		09/12/2024 17:17	WG2361379
(S) 1,2-Dichloroethane-d4	103			70.0-130		09/12/2024 17:17	WG2361379

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfate	U		637	5000	1	09/10/2024 00:02	WG2357775

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	322	B J	102	1000	1	09/13/2024 18:37	WG2361382

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	U		28.1	100	1	09/20/2024 16:57	WG2361347
Manganese	U		0.704	5.00	1	09/20/2024 16:57	WG2361347

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	09/10/2024 12:30	WG2358367
Ethane	U		0.296	1.29	1	09/10/2024 12:30	WG2358367
Ethene	U		0.422	1.27	1	09/10/2024 12:30	WG2358367

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.16	B	0.548	1.00	1	09/12/2024 14:45	WG2361379
Acrylonitrile	U		0.0760	0.500	1	09/12/2024 14:45	WG2361379
Benzene	0.0300	J	0.0160	0.0400	1	09/12/2024 14:45	WG2361379
Bromobenzene	U		0.0420	0.500	1	09/12/2024 14:45	WG2361379
Bromochloromethane	U		0.0452	0.200	1	09/12/2024 14:45	WG2361379
Bromodichloromethane	U		0.0315	0.100	1	09/12/2024 14:45	WG2361379
Bromoform	U		0.239	1.00	1	09/12/2024 14:45	WG2361379
Bromomethane	U		0.148	0.500	1	09/12/2024 14:45	WG2361379
n-Butylbenzene	U		0.153	0.500	1	09/12/2024 14:45	WG2361379
sec-Butylbenzene	U		0.101	0.500	1	09/12/2024 14:45	WG2361379
tert-Butylbenzene	U		0.0620	0.200	1	09/12/2024 14:45	WG2361379
Carbon disulfide	U		0.162	0.500	1	09/12/2024 14:45	WG2361379
Carbon tetrachloride	U		0.0432	0.200	1	09/12/2024 14:45	WG2361379
Chlorobenzene	U		0.0229	0.100	1	09/12/2024 14:45	WG2361379
Chlorodibromomethane	U		0.0180	0.100	1	09/12/2024 14:45	WG2361379
Chloroethane	U		0.0432	0.200	1	09/12/2024 14:45	WG2361379
Chloroform	U		0.0166	0.100	1	09/12/2024 14:45	WG2361379
Chloromethane	U		0.0556	0.500	1	09/12/2024 14:45	WG2361379
2-Chlorotoluene	U		0.0368	0.100	1	09/12/2024 14:45	WG2361379
4-Chlorotoluene	U		0.0452	0.200	1	09/12/2024 14:45	WG2361379
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/12/2024 14:45	WG2361379
1,2-Dibromoethane	U		0.0210	0.100	1	09/12/2024 14:45	WG2361379
Dibromomethane	U		0.0400	0.200	1	09/12/2024 14:45	WG2361379
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/12/2024 14:45	WG2361379
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/12/2024 14:45	WG2361379
1,4-Dichlorobenzene	0.0840	J	0.0788	0.200	1	09/12/2024 14:45	WG2361379
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/12/2024 14:45	WG2361379
Dichlorodifluoromethane	U		0.0327	0.200	1	09/12/2024 14:45	WG2361379
1,1-Dichloroethane	U		0.0230	0.100	1	09/12/2024 14:45	WG2361379
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 14:45	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 14:45	WG2361379

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/12/2024 14:45	WG2361379
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/12/2024 14:45	WG2361379
1,2-Dichloropropane	U		0.0508	0.200	1	09/12/2024 14:45	WG2361379
1,1-Dichloropropene	U		0.0280	0.100	1	09/12/2024 14:45	WG2361379
1,3-Dichloropropane	U		0.0700	0.200	1	09/12/2024 14:45	WG2361379
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/12/2024 14:45	WG2361379
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/12/2024 14:45	WG2361379
2,2-Dichloropropane	U		0.0317	0.100	1	09/12/2024 14:45	WG2361379
Di-isopropyl ether	U		0.0140	0.0400	1	09/12/2024 14:45	WG2361379
Ethylbenzene	U		0.0212	0.100	1	09/12/2024 14:45	WG2361379
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/12/2024 14:45	WG2361379
2-Hexanone	U		0.400	1.00	1	09/12/2024 14:45	WG2361379
n-Hexane	U		0.0424	0.200	1	09/12/2024 14:45	WG2361379
Iodomethane	U		0.242	0.500	1	09/12/2024 14:45	WG2361379
Isopropylbenzene	U		0.0345	0.100	1	09/12/2024 14:45	WG2361379
p-Isopropyltoluene	U		0.0932	0.200	1	09/12/2024 14:45	WG2361379
2-Butanone (MEK)	U		0.500	1.00	1	09/12/2024 14:45	WG2361379
Methylene Chloride	U		0.265	1.00	1	09/12/2024 14:45	WG2361379
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/12/2024 14:45	WG2361379
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/12/2024 14:45	WG2361379
Naphthalene	U		0.124	0.500	1	09/12/2024 14:45	WG2361379
n-Propylbenzene	U		0.0472	0.200	1	09/12/2024 14:45	WG2361379
Styrene	U		0.109	0.500	1	09/12/2024 14:45	WG2361379
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/12/2024 14:45	WG2361379
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/12/2024 14:45	WG2361379
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/12/2024 14:45	WG2361379
Tetrachloroethene	0.237		0.0280	0.100	1	09/12/2024 14:45	WG2361379
Toluene	U		0.0500	0.200	1	09/12/2024 14:45	WG2361379
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/12/2024 14:45	WG2361379
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/12/2024 14:45	WG2361379
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/12/2024 14:45	WG2361379
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/12/2024 14:45	WG2361379
Trichloroethene	U		0.0160	0.0400	1	09/12/2024 14:45	WG2361379
Trichlorofluoromethane	U		0.0200	0.100	1	09/12/2024 14:45	WG2361379
1,2,3-Trichloropropane	U		0.204	0.500	1	09/12/2024 14:45	WG2361379
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/12/2024 14:45	WG2361379
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/12/2024 14:45	WG2361379
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/12/2024 14:45	WG2361379
Vinyl acetate	U		0.141	0.500	1	09/12/2024 14:45	WG2361379
Vinyl chloride	U		0.0273	0.100	1	09/12/2024 14:45	WG2361379
Xylenes, Total	U		0.191	0.260	1	09/12/2024 14:45	WG2361379
(S) Toluene-d8	101			75.0-131		09/12/2024 14:45	WG2361379
(S) 4-Bromofluorobenzene	97.9			67.0-138		09/12/2024 14:45	WG2361379
(S) 1,2-Dichloroethane-d4	102			70.0-130		09/12/2024 14:45	WG2361379

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4119476-1 09/09/24 20:26

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Sulfate	U		637	5000

L1775042-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1775042-09 09/09/24 21:47 • (DUP) R4119476-3 09/09/24 22:01

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfate	4200	U	1	200	P1	15

L1775129-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1775129-01 09/09/24 22:41 • (DUP) R4119476-6 09/09/24 22:55

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfate	8940	8610	1	3.76		15

Laboratory Control Sample (LCS)

(LCS) R4119476-2 09/09/24 20:40

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Sulfate	40000	37300	93.4	80.0-120	

L1775042-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775042-09 09/09/24 21:47 • (MS) R4119476-4 09/09/24 22:14 • (MSD) R4119476-5 09/09/24 22:28

	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	%	%		%			%	%
Sulfate	40000	4200	39400	43100	88.0	97.1	1	80.0-120			8.90	15

L1775129-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1775129-01 09/09/24 22:41 • (MS) R4119476-7 09/09/24 23:08

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	ug/l	ug/l	ug/l	%		%	
Sulfate	40000	8940	45900	92.4	1	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4119832-2 09/13/24 14:10

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	104	⬇	102	1000

L1775129-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1775129-02 09/13/24 17:19 • (DUP) R4119832-5 09/13/24 17:39

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	1350	1280	1	5.34		20

L1775158-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1775158-01 09/13/24 20:35 • (DUP) R4119832-6 09/13/24 20:55

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	2940	2850	1	3.14		20

Laboratory Control Sample (LCS)

(LCS) R4119832-1 09/13/24 13:48

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	25000	24600	98.2	85.0-115	

L1775129-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775129-01 09/13/24 15:56 • (MS) R4119832-3 09/13/24 16:16 • (MSD) R4119832-4 09/13/24 16:36

	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	%	%		%			%	%
TOC (Total Organic Carbon)	25000	14800	39100	39400	97.1	98.2	1	85.0-115			0.688	20

L1775411-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775411-01 09/13/24 21:14 • (MS) R4119832-7 09/13/24 21:34 • (MSD) R4119832-8 09/13/24 21:53

	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	1450	26100	26100	98.7	98.8	1	85.0-115			0.0765	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4122471-1 09/20/24 13:46

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

Laboratory Control Sample (LCS)

(LCS) R4122471-2 09/20/24 13:49

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	1000	961	96.1	80.0-120	
Manganese	50.0	49.9	99.8	80.0-120	

L1774969-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774969-05 09/20/24 13:52 • (MS) R4122471-4 09/20/24 13:58 • (MSD) R4122471-5 09/20/24 14:01

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	1000	10400	15100	15400	480	506	1	75.0-125	V	V	1.72	20
Manganese	50.0	189	271	270	165	161	1	75.0-125	J5	J5	0.611	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4122551-1 09/20/24 16:24

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

Laboratory Control Sample (LCS)

(LCS) R4122551-2 09/20/24 16:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	1000	979	97.9	80.0-120	
Manganese	50.0	48.4	96.8	80.0-120	

L1775619-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775619-07 09/20/24 16:40 • (MS) R4122551-4 09/20/24 16:47 • (MSD) R4122551-5 09/20/24 16:50

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	1000	8160	8790	9120	62.8	96.0	1	75.0-125	V		3.71	20
Manganese	50.0	1940	1960	1980	30.2	70.4	1	75.0-125	V	V	1.02	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4117722-2 09/10/24 08:59

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

L1774903-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1774903-07 09/10/24 09:56 • (DUP) R4117722-3 09/10/24 11:14

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	80.2	74.2	1	7.77		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1775042-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1775042-04 09/10/24 11:32 • (DUP) R4117722-4 09/10/24 12:33

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	1540	1520	1	1.31		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) R4117722-1 09/10/24 08:55 • (LCSD) R4117722-5 09/10/24 12:38

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	66.2	62.3	97.6	91.9	85.0-115			6.07	20
Ethane	129	123	116	95.3	89.9	85.0-115			5.86	20
Ethene	127	123	116	96.9	91.3	85.0-115			5.86	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4117929-2 09/10/24 15:57

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

L1774903-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1774903-05 09/10/24 16:05 • (DUP) R4117929-3 09/10/24 16:27

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	18600	18300	10	1.63		20

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

(LCS) R4117929-1 09/10/24 15:52 • (LCSD) R4117929-4 09/10/24 16:31

	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	59.6	61.7	87.9	91.0	85.0-115			3.46	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4120289-2 09/12/24 10:57

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	1.13		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) R4120289-2 09/12/24 10:57

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	101			75.0-131
(S) 4-Bromofluorobenzene	96.7			67.0-138
(S) 1,2-Dichloroethane-d4	105			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4120289-1 09/12/24 09:41 • (LCSD) R4120289-3 09/12/24 12:17

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	25.1	26.9	100	108	10.0-160			6.92	31
Acrylonitrile	25.0	29.1	25.0	116	100	45.0-153			15.2	22
Benzene	5.00	4.79	4.57	95.8	91.4	70.0-123			4.70	20
Bromobenzene	5.00	5.03	4.31	101	86.2	73.0-121			15.4	20
Bromochloromethane	5.00	5.54	5.00	111	100	77.0-128			10.2	20
Bromodichloromethane	5.00	5.32	4.89	106	97.8	73.0-121			8.42	20
Bromoform	5.00	5.61	5.28	112	106	64.0-132			6.06	20
Bromomethane	5.00	4.29	3.96	85.8	79.2	56.0-147			8.00	20
n-Butylbenzene	5.00	4.39	4.19	87.8	83.8	68.0-135			4.66	20
sec-Butylbenzene	5.00	4.44	4.27	88.8	85.4	74.0-130			3.90	20
tert-Butylbenzene	5.00	4.61	4.14	92.2	82.8	75.0-127			10.7	20
Carbon disulfide	5.00	5.01	4.64	100	92.8	56.0-133			7.67	20
Carbon tetrachloride	5.00	6.12	5.75	122	115	66.0-128			6.23	20
Chlorobenzene	5.00	4.66	4.49	93.2	89.8	76.0-128			3.72	20
Chlorodibromomethane	5.00	5.25	4.81	105	96.2	74.0-127			8.75	20
Chloroethane	5.00	4.97	4.63	99.4	92.6	61.0-134			7.08	20
Chloroform	5.00	5.15	4.72	103	94.4	72.0-123			8.71	20
Chloromethane	5.00	4.37	4.09	87.4	81.8	51.0-138			6.62	20
2-Chlorotoluene	5.00	4.68	3.99	93.6	79.8	75.0-124			15.9	20
4-Chlorotoluene	5.00	4.34	3.83	86.8	76.6	75.0-124			12.5	20
1,2-Dibromo-3-Chloropropane	5.00	5.35	4.38	107	87.6	59.0-130			19.9	20
1,2-Dibromoethane	5.00	4.96	4.51	99.2	90.2	74.0-128			9.50	20
Dibromomethane	5.00	5.40	5.14	108	103	75.0-122			4.93	20
1,2-Dichlorobenzene	5.00	4.95	4.66	99.0	93.2	76.0-124			6.04	20
1,3-Dichlorobenzene	5.00	4.62	4.28	92.4	85.6	76.0-125			7.64	20
1,4-Dichlorobenzene	5.00	4.40	4.24	88.0	84.8	77.0-121			3.70	20
trans-1,4-Dichloro-2-butene	5.00	5.91	4.85	118	97.0	45.0-143			19.7	20
Dichlorodifluoromethane	5.00	5.45	5.14	109	103	43.0-156			5.85	20
1,1-Dichloroethane	5.00	5.11	4.86	102	97.2	70.0-127			5.02	20
1,2-Dichloroethane	5.00	5.14	4.91	103	98.2	65.0-131			4.58	20
1,1-Dichloroethene	5.00	5.15	4.94	103	98.8	65.0-131			4.16	20
cis-1,2-Dichloroethene	5.00	4.62	4.29	92.4	85.8	73.0-125			7.41	20
trans-1,2-Dichloroethene	5.00	5.19	4.70	104	94.0	71.0-125			9.91	20
1,2-Dichloropropane	5.00	5.13	4.84	103	96.8	74.0-125			5.82	20
1,1-Dichloropropene	5.00	5.81	5.52	116	110	73.0-125			5.12	20
1,3-Dichloropropane	5.00	4.96	4.57	99.2	91.4	80.0-125			8.18	20
cis-1,3-Dichloropropene	5.00	5.45	5.30	109	106	76.0-127			2.79	20
trans-1,3-Dichloropropene	5.00	5.03	4.64	101	92.8	73.0-127			8.07	20
2,2-Dichloropropane	5.00	6.22	5.80	124	116	59.0-135			6.99	20
Di-isopropyl ether	5.00	5.15	4.82	103	96.4	60.0-136			6.62	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4120289-1 09/12/24 09:41 • (LCSD) R4120289-3 09/12/24 12:17

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	4.83	4.54	96.6	90.8	74.0-126			6.19	20
Hexachloro-1,3-butadiene	5.00	6.05	5.85	121	117	57.0-150			3.36	20
2-Hexanone	25.0	26.2	24.0	105	96.0	54.0-147			8.76	20
n-Hexane	5.00	5.60	4.87	112	97.4	55.0-137			13.9	20
Iodomethane	25.0	26.1	24.7	104	98.8	74.0-134			5.51	20
Isopropylbenzene	5.00	4.78	4.72	95.6	94.4	72.0-127			1.26	20
p-Isopropyltoluene	5.00	4.62	4.35	92.4	87.0	72.0-133			6.02	20
2-Butanone (MEK)	25.0	29.5	26.3	118	105	30.0-160			11.5	24
Methylene Chloride	5.00	4.89	4.46	97.8	89.2	68.0-123			9.20	20
4-Methyl-2-pentanone (MIBK)	25.0	26.9	24.4	108	97.6	56.0-143			9.75	20
Methyl tert-butyl ether	5.00	5.57	5.00	111	100	66.0-132			10.8	20
Naphthalene	5.00	4.61	4.75	92.2	95.0	59.0-130			2.99	20
n-Propylbenzene	5.00	4.94	4.41	98.8	88.2	74.0-126			11.3	20
Styrene	5.00	4.41	4.43	88.2	88.6	72.0-127			0.452	20
1,1,1,2-Tetrachloroethane	5.00	5.15	4.80	103	96.0	74.0-129			7.04	20
1,1,2,2-Tetrachloroethane	5.00	5.27	4.33	105	86.6	68.0-128			19.6	20
1,1,2-Trichlorotrifluoroethane	5.00	6.41	6.08	128	122	61.0-139			5.28	20
Tetrachloroethene	5.00	5.33	5.13	107	103	70.0-136			3.82	20
Toluene	5.00	4.68	4.32	93.6	86.4	75.0-121			8.00	20
1,2,3-Trichlorobenzene	5.00	5.10	5.74	102	115	59.0-139			11.8	20
1,2,4-Trichlorobenzene	5.00	5.21	5.39	104	108	62.0-137			3.40	20
1,1,1-Trichloroethane	5.00	6.07	5.79	121	116	69.0-126			4.72	20
1,1,2-Trichloroethane	5.00	4.83	4.57	96.6	91.4	78.0-123			5.53	20
Trichloroethene	5.00	5.20	4.92	104	98.4	76.0-126			5.53	20
Trichlorofluoromethane	5.00	5.23	4.90	105	98.0	61.0-142	U	U	6.52	20
1,2,3-Trichloropropane	5.00	5.56	4.63	111	92.6	67.0-129			18.3	20
1,2,4-Trimethylbenzene	5.00	4.48	4.13	89.6	82.6	70.0-126			8.13	20
1,2,3-Trimethylbenzene	5.00	4.47	4.24	89.4	84.8	74.0-124			5.28	20
1,3,5-Trimethylbenzene	5.00	4.50	4.21	90.0	84.2	73.0-127			6.66	20
Vinyl acetate	25.0	28.4	24.2	114	96.8	43.0-159			16.0	20
Vinyl chloride	5.00	4.36	3.95	87.2	79.0	63.0-134			9.87	20
Xylenes, Total	15.0	14.0	13.7	93.3	91.3	72.0-127			2.17	20
(S) Toluene-d8				96.1	94.8	75.0-131				
(S) 4-Bromofluorobenzene				98.5	102	67.0-138				
(S) 1,2-Dichloroethane-d4				108	106	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1775338-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775338-06 09/12/24 18:53 • (MS) R4120289-4 09/12/24 21:07 • (MSD) R4120289-5 09/12/24 21:26

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	0.933	35.2	31.5	137	122	1	10.0-160			11.1	40
Acrylonitrile	25.0	U	27.8	28.8	111	115	1	10.0-160			3.53	40
Benzene	5.00	U	4.33	4.52	86.6	90.4	1	10.0-149			4.29	37
Bromobenzene	5.00	U	4.83	4.97	96.6	99.4	1	10.0-156			2.86	38
Bromochloromethane	5.00	U	4.76	5.25	95.2	105	1	10.0-155			9.79	33
Bromodichloromethane	5.00	U	5.14	5.24	103	105	1	10.0-143			1.93	37
Bromoform	5.00	U	5.46	5.46	109	109	1	10.0-146			0.000	36
Bromomethane	5.00	U	2.34	2.47	46.8	49.4	1	10.0-149			5.41	38
n-Butylbenzene	5.00	U	4.56	4.79	91.2	95.8	1	10.0-160			4.92	40
sec-Butylbenzene	5.00	U	4.73	4.87	94.6	97.4	1	10.0-159			2.92	39
tert-Butylbenzene	5.00	U	4.62	4.86	92.4	97.2	1	10.0-156			5.06	39
Carbon disulfide	5.00	U	3.91	3.97	78.2	79.4	1	10.0-145			1.52	39
Carbon tetrachloride	5.00	U	5.49	6.04	110	121	1	10.0-145			9.54	37
Chlorobenzene	5.00	U	4.50	4.53	90.0	90.6	1	10.0-152			0.664	39
Chlorodibromomethane	5.00	U	5.03	5.18	101	104	1	10.0-146			2.94	37
Chloroethane	5.00	U	4.12	4.35	82.4	87.0	1	10.0-146			5.43	40
Chloroform	5.00	U	4.92	5.08	98.4	102	1	10.0-146			3.20	37
Chloromethane	5.00	U	3.00	3.11	60.0	62.2	1	10.0-159			3.60	37
2-Chlorotoluene	5.00	U	4.38	4.28	87.6	85.6	1	10.0-159			2.31	38
4-Chlorotoluene	5.00	U	4.37	4.48	87.4	89.6	1	10.0-155			2.49	39
1,2-Dibromo-3-Chloropropane	5.00	U	5.15	4.70	103	94.0	1	10.0-151			9.14	39
1,2-Dibromoethane	5.00	U	4.76	4.67	95.2	93.4	1	10.0-148			1.91	34
Dibromomethane	5.00	U	4.98	5.23	99.6	105	1	10.0-147			4.90	35
1,2-Dichlorobenzene	5.00	U	4.80	4.86	96.0	97.2	1	10.0-155			1.24	37
1,3-Dichlorobenzene	5.00	U	4.56	4.71	91.2	94.2	1	10.0-153			3.24	38
1,4-Dichlorobenzene	5.00	U	4.54	4.45	90.8	89.0	1	10.0-151			2.00	38
trans-1,4-Dichloro-2-butene	5.00	U	4.16	3.46	83.2	69.2	1	10.0-152			18.4	36
Dichlorodifluoromethane	5.00	U	4.75	5.36	95.0	107	1	10.0-160			12.1	35
1,1-Dichloroethane	5.00	U	4.76	4.96	95.2	99.2	1	10.0-147			4.12	37
1,2-Dichloroethane	5.00	U	4.71	4.89	94.2	97.8	1	10.0-148			3.75	35
1,1-Dichloroethene	5.00	U	4.77	4.99	95.4	99.8	1	10.0-155			4.51	37
cis-1,2-Dichloroethene	5.00	U	4.16	4.45	83.2	89.0	1	10.0-149			6.74	37
trans-1,2-Dichloroethene	5.00	U	4.20	4.35	84.0	87.0	1	10.0-150			3.51	37
1,2-Dichloropropane	5.00	U	4.86	5.04	97.2	101	1	10.0-148			3.64	37
1,1-Dichloropropene	5.00	U	5.13	5.30	103	106	1	10.0-153			3.26	35
1,3-Dichloropropane	5.00	U	4.80	4.89	96.0	97.8	1	10.0-154			1.86	35
cis-1,3-Dichloropropene	5.00	U	4.61	4.93	92.2	98.6	1	10.0-151			6.71	37
trans-1,3-Dichloropropene	5.00	U	4.71	4.80	94.2	96.0	1	10.0-148			1.89	37
2,2-Dichloropropane	5.00	U	5.32	5.58	106	112	1	10.0-138			4.77	36
Di-isopropyl ether	5.00	U	5.00	5.13	100	103	1	10.0-147			2.57	36

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

L1775338-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775338-06 09/12/24 18:53 • (MS) R4120289-4 09/12/24 21:07 • (MSD) R4120289-5 09/12/24 21:26

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 %
Ethylbenzene	5.00	U	4.62	4.75	92.4	95.0	1	10.0-160			2.77	38
Hexachloro-1,3-butadiene	5.00	U	6.36	6.84	127	137	1	10.0-160			7.27	40
2-Hexanone	25.0	U	28.8	28.3	115	113	1	10.0-160			1.75	36
n-Hexane	5.00	U	4.03	4.68	80.6	93.6	1	10.0-157			14.9	37
Iodomethane	25.0	U	21.2	23.1	84.8	92.4	1	10.0-160			8.58	38
Isopropylbenzene	5.00	U	4.62	4.79	92.4	95.8	1	10.0-155			3.61	38
p-Isopropyltoluene	5.00	U	4.47	4.83	89.4	96.6	1	10.0-160			7.74	40
2-Butanone (MEK)	25.0	U	27.6	27.3	110	109	1	10.0-160			1.09	40
Methylene Chloride	5.00	U	4.28	4.67	85.6	93.4	1	10.0-141			8.72	37
4-Methyl-2-pentanone (MIBK)	25.0	U	28.3	27.0	113	108	1	10.0-160			4.70	35
Methyl tert-butyl ether	5.00	U	5.35	5.48	107	110	1	11.0-147			2.40	35
Naphthalene	5.00	U	4.47	4.70	89.4	94.0	1	10.0-160			5.02	36
n-Propylbenzene	5.00	U	4.86	4.92	97.2	98.4	1	10.0-158			1.23	38
Styrene	5.00	U	4.28	4.35	85.6	87.0	1	10.0-160			1.62	40
1,1,1,2-Tetrachloroethane	5.00	U	4.94	4.96	98.8	99.2	1	10.0-149			0.404	39
1,1,2,2-Tetrachloroethane	5.00	U	5.45	5.24	109	105	1	10.0-160			3.93	35
1,1,2-Trichlorotrifluoroethane	5.00	U	5.80	6.53	116	131	1	10.0-160			11.8	36
Tetrachloroethene	5.00	U	4.77	4.84	95.4	96.8	1	10.0-156			1.46	39
Toluene	5.00	U	4.31	4.39	86.2	87.8	1	10.0-156			1.84	38
1,2,3-Trichlorobenzene	5.00	U	5.39	5.55	108	111	1	10.0-160			2.93	40
1,2,4-Trichlorobenzene	5.00	U	5.07	5.58	101	112	1	10.0-160			9.58	40
1,1,1-Trichloroethane	5.00	U	5.79	6.10	116	122	1	10.0-144			5.21	35
1,1,2-Trichloroethane	5.00	U	4.88	4.99	97.6	99.8	1	10.0-160			2.23	35
Trichloroethene	5.00	U	4.34	4.79	86.8	95.8	1	10.0-156			9.86	38
Trichlorofluoromethane	5.00	U	3.48	4.00	69.6	80.0	1	10.0-160			13.9	40
1,2,3-Trichloropropane	5.00	U	5.61	5.22	112	104	1	10.0-156			7.20	35
1,2,4-Trimethylbenzene	5.00	U	4.37	4.55	87.4	91.0	1	10.0-160			4.04	36
1,2,3-Trimethylbenzene	5.00	U	4.37	4.52	87.4	90.4	1	10.0-160			3.37	36
1,3,5-Trimethylbenzene	5.00	U	4.45	4.54	89.0	90.8	1	10.0-160			2.00	38
Vinyl acetate	25.0	U	29.9	30.5	120	122	1	10.0-128			1.99	40
Vinyl chloride	5.00	U	3.39	3.64	67.8	72.8	1	10.0-160			7.11	37
Xylenes, Total	15.0	0.218	13.5	13.9	88.5	91.2	1	10.0-160			2.92	38
(S) Toluene-d8					97.4	94.9		75.0-131				
(S) 4-Bromofluorobenzene					98.4	98.8		67.0-138				
(S) 1,2-Dichloroethane-d4					106	103		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.

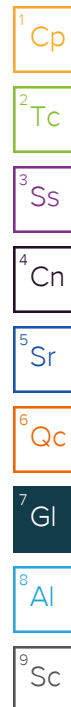
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

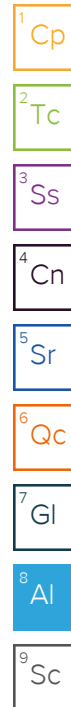
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

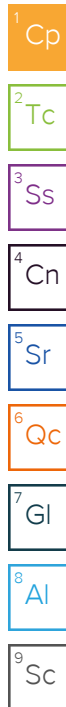


for lab by: (Signature)

PES Environmental, Inc.- WA

Sample Delivery Group: L1775133
Samples Received: 09/06/2024
Project Number: 443022-1413001.10.70
Description: American Linen

Report To: Daniel Balbiani
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

MW107-090524 L1775133-01 GW

Collected by
D. Del G

Collected date/time
09/05/24 00:00

Received date/time
09/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2361379	1	09/12/24 17:37	09/12/24 17:37	JHH	Mt. Juliet, TN

W-MW-01-090524 L1775133-02 GW

Collected by
D. Del G

Collected date/time
09/05/24 11:20

Received date/time
09/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2361379	1	09/12/24 17:56	09/12/24 17:56	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

Report Revision History

Level II Report - Version 1: 09/17/24 15:37
Level II Report - Version 2: 10/04/24 10:27

Project Narrative

id changes. EDD



MW107-090524

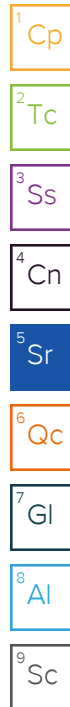
SAMPLE RESULTS - 01

Collected date/time: 09/05/24 00:00

L1775133

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	8.51	B	0.548	1.00	1	09/12/2024 17:37	WG2361379
Acrylonitrile	U		0.0760	0.500	1	09/12/2024 17:37	WG2361379
Benzene	0.0570		0.0160	0.0400	1	09/12/2024 17:37	WG2361379
Bromobenzene	U		0.0420	0.500	1	09/12/2024 17:37	WG2361379
Bromochloromethane	U		0.0452	0.200	1	09/12/2024 17:37	WG2361379
Bromodichloromethane	U		0.0315	0.100	1	09/12/2024 17:37	WG2361379
Bromoform	U		0.239	1.00	1	09/12/2024 17:37	WG2361379
Bromomethane	U		0.148	0.500	1	09/12/2024 17:37	WG2361379
n-Butylbenzene	U		0.153	0.500	1	09/12/2024 17:37	WG2361379
sec-Butylbenzene	U		0.101	0.500	1	09/12/2024 17:37	WG2361379
tert-Butylbenzene	U		0.0620	0.200	1	09/12/2024 17:37	WG2361379
Carbon disulfide	U		0.162	0.500	1	09/12/2024 17:37	WG2361379
Carbon tetrachloride	U		0.0432	0.200	1	09/12/2024 17:37	WG2361379
Chlorobenzene	U		0.0229	0.100	1	09/12/2024 17:37	WG2361379
Chlorodibromomethane	U		0.0180	0.100	1	09/12/2024 17:37	WG2361379
Chloroethane	U		0.0432	0.200	1	09/12/2024 17:37	WG2361379
Chloroform	U		0.0166	0.100	1	09/12/2024 17:37	WG2361379
Chloromethane	U		0.0556	0.500	1	09/12/2024 17:37	WG2361379
2-Chlorotoluene	U		0.0368	0.100	1	09/12/2024 17:37	WG2361379
4-Chlorotoluene	U		0.0452	0.200	1	09/12/2024 17:37	WG2361379
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/12/2024 17:37	WG2361379
1,2-Dibromoethane	U		0.0210	0.100	1	09/12/2024 17:37	WG2361379
Dibromomethane	U		0.0400	0.200	1	09/12/2024 17:37	WG2361379
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/12/2024 17:37	WG2361379
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/12/2024 17:37	WG2361379
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/12/2024 17:37	WG2361379
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/12/2024 17:37	WG2361379
Dichlorodifluoromethane	U		0.0327	0.200	1	09/12/2024 17:37	WG2361379
1,1-Dichloroethane	U		0.0230	0.100	1	09/12/2024 17:37	WG2361379
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 17:37	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 17:37	WG2361379
cis-1,2-Dichloroethene	3.36		0.0276	0.100	1	09/12/2024 17:37	WG2361379
trans-1,2-Dichloroethene	2.11		0.0572	0.200	1	09/12/2024 17:37	WG2361379
1,2-Dichloropropane	U		0.0508	0.200	1	09/12/2024 17:37	WG2361379
1,1-Dichloropropene	U		0.0280	0.100	1	09/12/2024 17:37	WG2361379
1,3-Dichloropropane	U		0.0700	0.200	1	09/12/2024 17:37	WG2361379
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/12/2024 17:37	WG2361379
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/12/2024 17:37	WG2361379
2,2-Dichloropropane	U		0.0317	0.100	1	09/12/2024 17:37	WG2361379
Di-isopropyl ether	U		0.0140	0.0400	1	09/12/2024 17:37	WG2361379
Ethylbenzene	0.101		0.0212	0.100	1	09/12/2024 17:37	WG2361379
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/12/2024 17:37	WG2361379
2-Hexanone	U		0.400	1.00	1	09/12/2024 17:37	WG2361379
n-Hexane	U		0.0424	0.200	1	09/12/2024 17:37	WG2361379
Iodomethane	U		0.242	0.500	1	09/12/2024 17:37	WG2361379
Isopropylbenzene	U		0.0345	0.100	1	09/12/2024 17:37	WG2361379
p-Isopropyltoluene	U		0.0932	0.200	1	09/12/2024 17:37	WG2361379
2-Butanone (MEK)	U		0.500	1.00	1	09/12/2024 17:37	WG2361379
Methylene Chloride	U		0.265	1.00	1	09/12/2024 17:37	WG2361379
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/12/2024 17:37	WG2361379
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/12/2024 17:37	WG2361379
Naphthalene	U		0.124	0.500	1	09/12/2024 17:37	WG2361379
n-Propylbenzene	U		0.0472	0.200	1	09/12/2024 17:37	WG2361379
Styrene	U		0.109	0.500	1	09/12/2024 17:37	WG2361379
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/12/2024 17:37	WG2361379
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/12/2024 17:37	WG2361379



ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

443022-1413001.10.70

SDG:

L1775133

DATE/TIME:

10/09/24 14:22

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	09/12/2024 17:37	WG2361379
Tetrachloroethene	0.440		0.0280	0.100	1	09/12/2024 17:37	WG2361379
Toluene	0.287		0.0500	0.200	1	09/12/2024 17:37	WG2361379
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/12/2024 17:37	WG2361379
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/12/2024 17:37	WG2361379
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/12/2024 17:37	WG2361379
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/12/2024 17:37	WG2361379
Trichloroethene	2.22		0.0160	0.0400	1	09/12/2024 17:37	WG2361379
Trichlorofluoromethane	U		0.0200	0.100	1	09/12/2024 17:37	WG2361379
1,2,3-Trichloropropane	U		0.204	0.500	1	09/12/2024 17:37	WG2361379
1,2,4-Trimethylbenzene	0.0990	J	0.0464	0.200	1	09/12/2024 17:37	WG2361379
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/12/2024 17:37	WG2361379
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/12/2024 17:37	WG2361379
Vinyl acetate	U		0.141	0.500	1	09/12/2024 17:37	WG2361379
Vinyl chloride	0.402		0.0273	0.100	1	09/12/2024 17:37	WG2361379
Xylenes, Total	0.801		0.191	0.260	1	09/12/2024 17:37	WG2361379
(S) Toluene-d8	97.7			75.0-131		09/12/2024 17:37	WG2361379
(S) 4-Bromofluorobenzene	95.9			67.0-138		09/12/2024 17:37	WG2361379
(S) 1,2-Dichloroethane-d4	103			70.0-130		09/12/2024 17:37	WG2361379

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

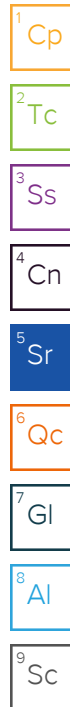
7Gl

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	126		0.548	1.00	1	09/12/2024 17:56	WG2361379
Acrylonitrile	U		0.0760	0.500	1	09/12/2024 17:56	WG2361379
Benzene	U		0.0160	0.0400	1	09/12/2024 17:56	WG2361379
Bromobenzene	U		0.0420	0.500	1	09/12/2024 17:56	WG2361379
Bromochloromethane	U		0.0452	0.200	1	09/12/2024 17:56	WG2361379
Bromodichloromethane	U		0.0315	0.100	1	09/12/2024 17:56	WG2361379
Bromoform	U		0.239	1.00	1	09/12/2024 17:56	WG2361379
Bromomethane	U		0.148	0.500	1	09/12/2024 17:56	WG2361379
n-Butylbenzene	U		0.153	0.500	1	09/12/2024 17:56	WG2361379
sec-Butylbenzene	U		0.101	0.500	1	09/12/2024 17:56	WG2361379
tert-Butylbenzene	U		0.0620	0.200	1	09/12/2024 17:56	WG2361379
Carbon disulfide	U		0.162	0.500	1	09/12/2024 17:56	WG2361379
Carbon tetrachloride	U		0.0432	0.200	1	09/12/2024 17:56	WG2361379
Chlorobenzene	U		0.0229	0.100	1	09/12/2024 17:56	WG2361379
Chlorodibromomethane	U		0.0180	0.100	1	09/12/2024 17:56	WG2361379
Chloroethane	U		0.0432	0.200	1	09/12/2024 17:56	WG2361379
Chloroform	U		0.0166	0.100	1	09/12/2024 17:56	WG2361379
Chloromethane	U		0.0556	0.500	1	09/12/2024 17:56	WG2361379
2-Chlorotoluene	U		0.0368	0.100	1	09/12/2024 17:56	WG2361379
4-Chlorotoluene	U		0.0452	0.200	1	09/12/2024 17:56	WG2361379
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/12/2024 17:56	WG2361379
1,2-Dibromoethane	U		0.0210	0.100	1	09/12/2024 17:56	WG2361379
Dibromomethane	U		0.0400	0.200	1	09/12/2024 17:56	WG2361379
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/12/2024 17:56	WG2361379
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/12/2024 17:56	WG2361379
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/12/2024 17:56	WG2361379
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/12/2024 17:56	WG2361379
Dichlorodifluoromethane	U		0.0327	0.200	1	09/12/2024 17:56	WG2361379
1,1-Dichloroethane	U		0.0230	0.100	1	09/12/2024 17:56	WG2361379
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 17:56	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 17:56	WG2361379
cis-1,2-Dichloroethene	0.147		0.0276	0.100	1	09/12/2024 17:56	WG2361379
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/12/2024 17:56	WG2361379
1,2-Dichloropropane	U		0.0508	0.200	1	09/12/2024 17:56	WG2361379
1,1-Dichloropropene	U		0.0280	0.100	1	09/12/2024 17:56	WG2361379
1,3-Dichloropropane	U		0.0700	0.200	1	09/12/2024 17:56	WG2361379
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/12/2024 17:56	WG2361379
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/12/2024 17:56	WG2361379
2,2-Dichloropropane	U		0.0317	0.100	1	09/12/2024 17:56	WG2361379
Di-isopropyl ether	U		0.0140	0.0400	1	09/12/2024 17:56	WG2361379
Ethylbenzene	U		0.0212	0.100	1	09/12/2024 17:56	WG2361379
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/12/2024 17:56	WG2361379
2-Hexanone	U		0.400	1.00	1	09/12/2024 17:56	WG2361379
n-Hexane	U		0.0424	0.200	1	09/12/2024 17:56	WG2361379
Iodomethane	U		0.242	0.500	1	09/12/2024 17:56	WG2361379
Isopropylbenzene	U		0.0345	0.100	1	09/12/2024 17:56	WG2361379
p-Isopropyltoluene	U		0.0932	0.200	1	09/12/2024 17:56	WG2361379
2-Butanone (MEK)	U		0.500	1.00	1	09/12/2024 17:56	WG2361379
Methylene Chloride	U		0.265	1.00	1	09/12/2024 17:56	WG2361379
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/12/2024 17:56	WG2361379
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/12/2024 17:56	WG2361379
Naphthalene	U		0.124	0.500	1	09/12/2024 17:56	WG2361379
n-Propylbenzene	U		0.0472	0.200	1	09/12/2024 17:56	WG2361379
Styrene	U		0.109	0.500	1	09/12/2024 17:56	WG2361379
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/12/2024 17:56	WG2361379
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/12/2024 17:56	WG2361379



Volatile 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	09/12/2024 17:56	WG2361379
Tetrachloroethene	U		0.0280	0.100	1	09/12/2024 17:56	WG2361379
Toluene	U		0.0500	0.200	1	09/12/2024 17:56	WG2361379
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/12/2024 17:56	WG2361379
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/12/2024 17:56	WG2361379
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/12/2024 17:56	WG2361379
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/12/2024 17:56	WG2361379
Trichloroethene	U		0.0160	0.0400	1	09/12/2024 17:56	WG2361379
Trichlorofluoromethane	U		0.0200	0.100	1	09/12/2024 17:56	WG2361379
1,2,3-Trichloropropane	U		0.204	0.500	1	09/12/2024 17:56	WG2361379
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/12/2024 17:56	WG2361379
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/12/2024 17:56	WG2361379
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/12/2024 17:56	WG2361379
Vinyl acetate	U		0.141	0.500	1	09/12/2024 17:56	WG2361379
Vinyl chloride	0.285		0.0273	0.100	1	09/12/2024 17:56	WG2361379
Xylenes, Total	U		0.191	0.260	1	09/12/2024 17:56	WG2361379
(S) Toluene-d8	102			75.0-131		09/12/2024 17:56	WG2361379
(S) 4-Bromofluorobenzene	96.6			67.0-138		09/12/2024 17:56	WG2361379
(S) 1,2-Dichloroethane-d4	105			70.0-130		09/12/2024 17:56	WG2361379

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4120289-2 09/12/24 10:57

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	1.13		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

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4120289-2 09/12/24 10:57

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	101			75.0-131
(S) 4-Bromofluorobenzene	96.7			67.0-138
(S) 1,2-Dichloroethane-d4	105			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4120289-1 09/12/24 09:41 • (LCSD) R4120289-3 09/12/24 12:17

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	25.1	26.9	100	108	10.0-160			6.92	31
Acrylonitrile	25.0	29.1	25.0	116	100	45.0-153			15.2	22
Benzene	5.00	4.79	4.57	95.8	91.4	70.0-123			4.70	20
Bromobenzene	5.00	5.03	4.31	101	86.2	73.0-121			15.4	20
Bromochloromethane	5.00	5.54	5.00	111	100	77.0-128			10.2	20
Bromodichloromethane	5.00	5.32	4.89	106	97.8	73.0-121			8.42	20
Bromoform	5.00	5.61	5.28	112	106	64.0-132			6.06	20
Bromomethane	5.00	4.29	3.96	85.8	79.2	56.0-147			8.00	20
n-Butylbenzene	5.00	4.39	4.19	87.8	83.8	68.0-135			4.66	20
sec-Butylbenzene	5.00	4.44	4.27	88.8	85.4	74.0-130			3.90	20
tert-Butylbenzene	5.00	4.61	4.14	92.2	82.8	75.0-127			10.7	20
Carbon disulfide	5.00	5.01	4.64	100	92.8	56.0-133			7.67	20
Carbon tetrachloride	5.00	6.12	5.75	122	115	66.0-128			6.23	20
Chlorobenzene	5.00	4.66	4.49	93.2	89.8	76.0-128			3.72	20
Chlorodibromomethane	5.00	5.25	4.81	105	96.2	74.0-127			8.75	20
Chloroethane	5.00	4.97	4.63	99.4	92.6	61.0-134			7.08	20
Chloroform	5.00	5.15	4.72	103	94.4	72.0-123			8.71	20
Chloromethane	5.00	4.37	4.09	87.4	81.8	51.0-138			6.62	20
2-Chlorotoluene	5.00	4.68	3.99	93.6	79.8	75.0-124			15.9	20
4-Chlorotoluene	5.00	4.34	3.83	86.8	76.6	75.0-124			12.5	20
1,2-Dibromo-3-Chloropropane	5.00	5.35	4.38	107	87.6	59.0-130			19.9	20
1,2-Dibromoethane	5.00	4.96	4.51	99.2	90.2	74.0-128			9.50	20
Dibromomethane	5.00	5.40	5.14	108	103	75.0-122			4.93	20
1,2-Dichlorobenzene	5.00	4.95	4.66	99.0	93.2	76.0-124			6.04	20
1,3-Dichlorobenzene	5.00	4.62	4.28	92.4	85.6	76.0-125			7.64	20
1,4-Dichlorobenzene	5.00	4.40	4.24	88.0	84.8	77.0-121			3.70	20
trans-1,4-Dichloro-2-butene	5.00	5.91	4.85	118	97.0	45.0-143			19.7	20
Dichlorodifluoromethane	5.00	5.45	5.14	109	103	43.0-156			5.85	20
1,1-Dichloroethane	5.00	5.11	4.86	102	97.2	70.0-127			5.02	20
1,2-Dichloroethane	5.00	5.14	4.91	103	98.2	65.0-131			4.58	20
1,1-Dichloroethene	5.00	5.15	4.94	103	98.8	65.0-131			4.16	20
cis-1,2-Dichloroethene	5.00	4.62	4.29	92.4	85.8	73.0-125			7.41	20
trans-1,2-Dichloroethene	5.00	5.19	4.70	104	94.0	71.0-125			9.91	20
1,2-Dichloropropane	5.00	5.13	4.84	103	96.8	74.0-125			5.82	20
1,1-Dichloropropene	5.00	5.81	5.52	116	110	73.0-125			5.12	20
1,3-Dichloropropane	5.00	4.96	4.57	99.2	91.4	80.0-125			8.18	20
cis-1,3-Dichloropropene	5.00	5.45	5.30	109	106	76.0-127			2.79	20
trans-1,3-Dichloropropene	5.00	5.03	4.64	101	92.8	73.0-127			8.07	20
2,2-Dichloropropane	5.00	6.22	5.80	124	116	59.0-135			6.99	20
Di-isopropyl ether	5.00	5.15	4.82	103	96.4	60.0-136			6.62	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4120289-1 09/12/24 09:41 • (LCSD) R4120289-3 09/12/24 12:17

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	4.83	4.54	96.6	90.8	74.0-126			6.19	20
Hexachloro-1,3-butadiene	5.00	6.05	5.85	121	117	57.0-150			3.36	20
2-Hexanone	25.0	26.2	24.0	105	96.0	54.0-147			8.76	20
n-Hexane	5.00	5.60	4.87	112	97.4	55.0-137			13.9	20
Iodomethane	25.0	26.1	24.7	104	98.8	74.0-134			5.51	20
Isopropylbenzene	5.00	4.78	4.72	95.6	94.4	72.0-127			1.26	20
p-Isopropyltoluene	5.00	4.62	4.35	92.4	87.0	72.0-133			6.02	20
2-Butanone (MEK)	25.0	29.5	26.3	118	105	30.0-160			11.5	24
Methylene Chloride	5.00	4.89	4.46	97.8	89.2	68.0-123			9.20	20
4-Methyl-2-pentanone (MIBK)	25.0	26.9	24.4	108	97.6	56.0-143			9.75	20
Methyl tert-butyl ether	5.00	5.57	5.00	111	100	66.0-132			10.8	20
Naphthalene	5.00	4.61	4.75	92.2	95.0	59.0-130			2.99	20
n-Propylbenzene	5.00	4.94	4.41	98.8	88.2	74.0-126			11.3	20
Styrene	5.00	4.41	4.43	88.2	88.6	72.0-127			0.452	20
1,1,1,2-Tetrachloroethane	5.00	5.15	4.80	103	96.0	74.0-129			7.04	20
1,1,2,2-Tetrachloroethane	5.00	5.27	4.33	105	86.6	68.0-128			19.6	20
1,1,2-Trichlorotrifluoroethane	5.00	6.41	6.08	128	122	61.0-139			5.28	20
Tetrachloroethene	5.00	5.33	5.13	107	103	70.0-136			3.82	20
Toluene	5.00	4.68	4.32	93.6	86.4	75.0-121			8.00	20
1,2,3-Trichlorobenzene	5.00	5.10	5.74	102	115	59.0-139			11.8	20
1,2,4-Trichlorobenzene	5.00	5.21	5.39	104	108	62.0-137			3.40	20
1,1,1-Trichloroethane	5.00	6.07	5.79	121	116	69.0-126			4.72	20
1,1,2-Trichloroethane	5.00	4.83	4.57	96.6	91.4	78.0-123			5.53	20
Trichloroethene	5.00	5.20	4.92	104	98.4	76.0-126			5.53	20
Trichlorofluoromethane	5.00	5.23	4.90	105	98.0	61.0-142	U	U	6.52	20
1,2,3-Trichloropropane	5.00	5.56	4.63	111	92.6	67.0-129			18.3	20
1,2,4-Trimethylbenzene	5.00	4.48	4.13	89.6	82.6	70.0-126			8.13	20
1,2,3-Trimethylbenzene	5.00	4.47	4.24	89.4	84.8	74.0-124			5.28	20
1,3,5-Trimethylbenzene	5.00	4.50	4.21	90.0	84.2	73.0-127			6.66	20
Vinyl acetate	25.0	28.4	24.2	114	96.8	43.0-159			16.0	20
Vinyl chloride	5.00	4.36	3.95	87.2	79.0	63.0-134			9.87	20
Xylenes, Total	15.0	14.0	13.7	93.3	91.3	72.0-127			2.17	20
(S) Toluene-d8				96.1	94.8	75.0-131				
(S) 4-Bromofluorobenzene				98.5	102	67.0-138				
(S) 1,2-Dichloroethane-d4				108	106	70.0-130				

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

L1775338-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775338-06 09/12/24 18:53 • (MS) R4120289-4 09/12/24 21:07 • (MSD) R4120289-5 09/12/24 21:26

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	0.933	35.2	31.5	137	122	1	10.0-160			11.1	40
Acrylonitrile	25.0	U	27.8	28.8	111	115	1	10.0-160			3.53	40
Benzene	5.00	U	4.33	4.52	86.6	90.4	1	10.0-149			4.29	37
Bromobenzene	5.00	U	4.83	4.97	96.6	99.4	1	10.0-156			2.86	38
Bromochloromethane	5.00	U	4.76	5.25	95.2	105	1	10.0-155			9.79	33
Bromodichloromethane	5.00	U	5.14	5.24	103	105	1	10.0-143			1.93	37
Bromoform	5.00	U	5.46	5.46	109	109	1	10.0-146			0.000	36
Bromomethane	5.00	U	2.34	2.47	46.8	49.4	1	10.0-149			5.41	38
n-Butylbenzene	5.00	U	4.56	4.79	91.2	95.8	1	10.0-160			4.92	40
sec-Butylbenzene	5.00	U	4.73	4.87	94.6	97.4	1	10.0-159			2.92	39
tert-Butylbenzene	5.00	U	4.62	4.86	92.4	97.2	1	10.0-156			5.06	39
Carbon disulfide	5.00	U	3.91	3.97	78.2	79.4	1	10.0-145			1.52	39
Carbon tetrachloride	5.00	U	5.49	6.04	110	121	1	10.0-145			9.54	37
Chlorobenzene	5.00	U	4.50	4.53	90.0	90.6	1	10.0-152			0.664	39
Chlorodibromomethane	5.00	U	5.03	5.18	101	104	1	10.0-146			2.94	37
Chloroethane	5.00	U	4.12	4.35	82.4	87.0	1	10.0-146			5.43	40
Chloroform	5.00	U	4.92	5.08	98.4	102	1	10.0-146			3.20	37
Chloromethane	5.00	U	3.00	3.11	60.0	62.2	1	10.0-159			3.60	37
2-Chlorotoluene	5.00	U	4.38	4.28	87.6	85.6	1	10.0-159			2.31	38
4-Chlorotoluene	5.00	U	4.37	4.48	87.4	89.6	1	10.0-155			2.49	39
1,2-Dibromo-3-Chloropropane	5.00	U	5.15	4.70	103	94.0	1	10.0-151			9.14	39
1,2-Dibromoethane	5.00	U	4.76	4.67	95.2	93.4	1	10.0-148			1.91	34
Dibromomethane	5.00	U	4.98	5.23	99.6	105	1	10.0-147			4.90	35
1,2-Dichlorobenzene	5.00	U	4.80	4.86	96.0	97.2	1	10.0-155			1.24	37
1,3-Dichlorobenzene	5.00	U	4.56	4.71	91.2	94.2	1	10.0-153			3.24	38
1,4-Dichlorobenzene	5.00	U	4.54	4.45	90.8	89.0	1	10.0-151			2.00	38
trans-1,4-Dichloro-2-butene	5.00	U	4.16	3.46	83.2	69.2	1	10.0-152			18.4	36
Dichlorodifluoromethane	5.00	U	4.75	5.36	95.0	107	1	10.0-160			12.1	35
1,1-Dichloroethane	5.00	U	4.76	4.96	95.2	99.2	1	10.0-147			4.12	37
1,2-Dichloroethane	5.00	U	4.71	4.89	94.2	97.8	1	10.0-148			3.75	35
1,1-Dichloroethene	5.00	U	4.77	4.99	95.4	99.8	1	10.0-155			4.51	37
cis-1,2-Dichloroethene	5.00	U	4.16	4.45	83.2	89.0	1	10.0-149			6.74	37
trans-1,2-Dichloroethene	5.00	U	4.20	4.35	84.0	87.0	1	10.0-150			3.51	37
1,2-Dichloropropane	5.00	U	4.86	5.04	97.2	101	1	10.0-148			3.64	37
1,1-Dichloropropene	5.00	U	5.13	5.30	103	106	1	10.0-153			3.26	35
1,3-Dichloropropane	5.00	U	4.80	4.89	96.0	97.8	1	10.0-154			1.86	35
cis-1,3-Dichloropropene	5.00	U	4.61	4.93	92.2	98.6	1	10.0-151			6.71	37
trans-1,3-Dichloropropene	5.00	U	4.71	4.80	94.2	96.0	1	10.0-148			1.89	37
2,2-Dichloropropane	5.00	U	5.32	5.58	106	112	1	10.0-138			4.77	36
Di-isopropyl ether	5.00	U	5.00	5.13	100	103	1	10.0-147			2.57	36

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

L1775338-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775338-06 09/12/24 18:53 • (MS) R4120289-4 09/12/24 21:07 • (MSD) R4120289-5 09/12/24 21:26

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 %
Ethylbenzene	5.00	U	4.62	4.75	92.4	95.0	1	10.0-160			2.77	38
Hexachloro-1,3-butadiene	5.00	U	6.36	6.84	127	137	1	10.0-160			7.27	40
2-Hexanone	25.0	U	28.8	28.3	115	113	1	10.0-160			1.75	36
n-Hexane	5.00	U	4.03	4.68	80.6	93.6	1	10.0-157			14.9	37
Iodomethane	25.0	U	21.2	23.1	84.8	92.4	1	10.0-160			8.58	38
Isopropylbenzene	5.00	U	4.62	4.79	92.4	95.8	1	10.0-155			3.61	38
p-Isopropyltoluene	5.00	U	4.47	4.83	89.4	96.6	1	10.0-160			7.74	40
2-Butanone (MEK)	25.0	U	27.6	27.3	110	109	1	10.0-160			1.09	40
Methylene Chloride	5.00	U	4.28	4.67	85.6	93.4	1	10.0-141			8.72	37
4-Methyl-2-pentanone (MIBK)	25.0	U	28.3	27.0	113	108	1	10.0-160			4.70	35
Methyl tert-butyl ether	5.00	U	5.35	5.48	107	110	1	11.0-147			2.40	35
Naphthalene	5.00	U	4.47	4.70	89.4	94.0	1	10.0-160			5.02	36
n-Propylbenzene	5.00	U	4.86	4.92	97.2	98.4	1	10.0-158			1.23	38
Styrene	5.00	U	4.28	4.35	85.6	87.0	1	10.0-160			1.62	40
1,1,1,2-Tetrachloroethane	5.00	U	4.94	4.96	98.8	99.2	1	10.0-149			0.404	39
1,1,2,2-Tetrachloroethane	5.00	U	5.45	5.24	109	105	1	10.0-160			3.93	35
1,1,2-Trichlorotrifluoroethane	5.00	U	5.80	6.53	116	131	1	10.0-160			11.8	36
Tetrachloroethene	5.00	U	4.77	4.84	95.4	96.8	1	10.0-156			1.46	39
Toluene	5.00	U	4.31	4.39	86.2	87.8	1	10.0-156			1.84	38
1,2,3-Trichlorobenzene	5.00	U	5.39	5.55	108	111	1	10.0-160			2.93	40
1,2,4-Trichlorobenzene	5.00	U	5.07	5.58	101	112	1	10.0-160			9.58	40
1,1,1-Trichloroethane	5.00	U	5.79	6.10	116	122	1	10.0-144			5.21	35
1,1,2-Trichloroethane	5.00	U	4.88	4.99	97.6	99.8	1	10.0-160			2.23	35
Trichloroethene	5.00	U	4.34	4.79	86.8	95.8	1	10.0-156			9.86	38
Trichlorofluoromethane	5.00	U	3.48	4.00	69.6	80.0	1	10.0-160			13.9	40
1,2,3-Trichloropropane	5.00	U	5.61	5.22	112	104	1	10.0-156			7.20	35
1,2,4-Trimethylbenzene	5.00	U	4.37	4.55	87.4	91.0	1	10.0-160			4.04	36
1,2,3-Trimethylbenzene	5.00	U	4.37	4.52	87.4	90.4	1	10.0-160			3.37	36
1,3,5-Trimethylbenzene	5.00	U	4.45	4.54	89.0	90.8	1	10.0-160			2.00	38
Vinyl acetate	25.0	U	29.9	30.5	120	122	1	10.0-128			1.99	40
Vinyl chloride	5.00	U	3.39	3.64	67.8	72.8	1	10.0-160			7.11	37
Xylenes, Total	15.0	0.218	13.5	13.9	88.5	91.2	1	10.0-160			2.92	38
(S) Toluene-d8					97.4	94.9	75.0-131					
(S) 4-Bromofluorobenzene					98.4	98.8	67.0-138					
(S) 1,2-Dichloroethane-d4					106	103	70.0-130					

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Tc

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GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCREDITATIONS & LOCATIONS

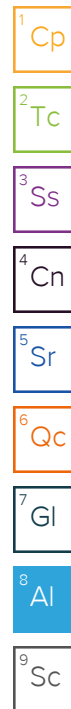
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



Company Name/Address:

PES Environmental, Inc.- WA**2101 Fourth Ave., Suite 1310
Seattle, WA 98121**

Billing Information:

**Attn: Accounts Payable
2101 4th Avenue, Suite 1310
Seattle, WA 98121**Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

**MT JULIET, TN**

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

SDG #

E041Acctnum: **PESENVSWA**Template: **T259030**Prelogin: **P1097122**PM: **3768 - Jordan Dozier**PB: **8-26-24 BK**Shipped Via: **FedEX Priority**

Remarks

Sample # (lab only)

Report to:

Daniel Balbiani

Email To:

Daniel.balbani@nv5.com; sam.graber@nv5.com

Project Description:

American LinenCity/State
Collected:**Seattle, WA**Please Circle:
PT MT CT ETPhone: **206-529-3980**

Client Project #

443022-1413001.10.70

Lab Project #

PESENVSWA-ALP

Collected by (print):

D. Del Giudice

Site/Facility ID #

P.O. #

443022-1413001.10.701

Collected by (signature):

Rush? (Lab MUST Be Notified)

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

Date Results Needed

Quote #

Immediately

Packed on Ice N ___ Y ☒No.
of
Cntrs

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

No.
of
Cntrs

FE, MN 6020 250mlHDPE-HNO3

RSK175 LL 40mlAmb-HCl

SULFATE 9056A 125mlHDPE-NoPres

TOC 9056A 250mlAmb-HCl

VOCs 8260UILL 40mlAmb-HCl

MW-107-090524**Grab****GW****9/5/24****0931****3****W-MW-01-090524****Grab****GW****9/5/24****1120****3****TB-090524****---****GW****9/5/24****---****1****GW****GW****GW****GW****GW****GW****GW****GW**

* Matrix:

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

___ UPS ___ FedEx ___ Courier

Tracking #

4041 0472 9247

Relinquished by: (Signature)

Date:

9/5/24

Time:

1452

Received by: (Signature)

Trip Blank Received: Yes ___ No ___

HCL / MeOH

TBR

Temp: **7.45** °C

Bottles Received:

23 10.8 = 2.66

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

9/6/24

Time:

0900

Hold:

Condition:

NCF / ☒ OK

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☒ Y ☒ NCOC Signed/Accurate: ☒ Y ☒ NBottles arrive intact: ☒ Y ☒ NCorrect bottles used: ☒ Y ☒ NSufficient volume sent: ☒ Y ☒ N

If Applicable

VOA Zero Headspace: ☒ Y ☒ NPreservation Correct/Checked: ☒ Y ☒ NRAD Screen <0.5 mR/hr: ☒ Y ☒ N

DVR Memos

MEMORANDUM

TO: Project File **DATE:** October 21, 2024

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 443022-1413001.10.603.04 (SDOT) and 443022-1413001.10.701.02 (American Linen)

TASK: EIM Data Validation Level EPA2A for Mercer – Q3 2024 SDOT Parcel and American Linen Monitoring Wells

LAB: Pace Sample Delivery Group (SDGs): L1774604 and L1775129 (SDOT Monitoring Wells) and SDG L1775133 (American Linen Monitoring Wells)

Nine groundwater samples (including a field duplicate) were collected September 4-5, 2024, from monitoring wells associated with Q3 monitoring on the SDOT Mercer Parcel (seven monitoring wells) and American Linen (two 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
- Anion (sulfate) by USEPA Method 9056A
- Total Organic Carbon (TOC) by USEPA Method 9060A

The quality assurance review of the laboratory data associated with SDGs L1774604, L1775129, and L1775133 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 discussions:

-  SDG L1774604: Case narrative indicates that Level II Report (EDD) was revised (Version 1) on September 17, 2024.
-  SDG L1775133: Case narrative indicates that Level II Report (EDD) was revised (Version 1) on September 17 and (Version 2) October 4, 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 waters 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 waters 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 (Sulfate and TOC)

The samples were analyzed within the USEPA recommended holding time for sulfate 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:

- SDG L1774604: *USEPA Method 8260D* - Continuing calibration verification (CCV) issue was noted by Pace for acetone associated with samples MW-349-090424 and MW-347-090424 (analytical batch WG2360527). Acetone is laboratory qualified (C5) to indicate that the CCV recovery is above laboratory acceptance criteria and showing high bias. **Associated sample acetone results (detects) with laboratory qualified (C5) results are estimated with 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 L1774604 – Analytical batch WG2360527: Methylene chloride is detected in the method blank at 0.443 µg/L and below the RDL (1.00 µg/L). No action is needed since methylene chloride is not detected in the associated samples.
- SDG L1775129 – Analytical batch WG2361379: Acetone is detected in the method blank at 1.13 µg/L and above the RDL (1.00 µg/L). Acetone is also detected in the equipment blank. **Sample MW-350-090524 acetone result is qualified as not detected (U) due to method blank contamination.** Refer to the section on the Field, Rinsate, or Equipment Blank Results for action taken due to equipment blank contamination.
- SDG L1775133 – Analytical batch WG2361379: Acetone is detected in the equipment blank at 1.13 µg/L and above the RDL (1.00 µg/L). No action is taken on this basis since acetone detections in the associated samples are greater than 2X the blank detection.

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 (Sulfate and TOC) and Metals (Iron and Manganese):

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were detected in the method blanks below the RDLs. Per Guidance, no action is taken for blank detections less than the RDL when associated sample detections are greater than the RDL. No metals were detected in the method blank. General chemistry blank detection is shown below:

SDG	Batch	Method	Analyte	Method Blank Result	Qualifier	RDL	Units	Associated Result(s) Qualified
L1775129	WG2361382	9060A	TOC	104	J	1000	µg/L	NO

The target analytes were detected in the method blanks at low levels and below the RDLs. Associated sample TOC results are greater than the RDL. No action is taken on this basis.

Trip Blank Results

USEPA Method 8260D:

Three trip blanks (TB-090424, TB-090524 and TB-090524) and were collected but were not submitted for analysis.

Field, Rinsate, or Equipment Blank Results

All Analytical Methods:

One equipment blank (EQ-090524 is associated with SDG L1775129) was collected and is associated with samples collected from the bladder pump on September 5, 2024. Three samples are associated with the equipment blank (MW-348-090524, MW-346-090524, and MW-992-090524).

Low levels of TOC and four VOC compounds (acetone, benzene, 1,4-dichlorobenzene, and tetrachloroethene) are detected in the equipment blank. Per Guidance, for common laboratory contaminants such as acetone, if the blank concentration is greater than the RDL and less than twice the blank result the common lab contaminant is qualified as non-detect (U). Actions are as follows:

- TOC is detected in the equipment blank at 322 µg/L and below the RDL (1000 µg/L). TOC was also detected in the method blank (104 µg/L). No action is taken on this basis since TOC results in the associated samples are above the RDL.
- Acetone is detected in the equipment blank at 2.16 µg/L and above the RDL (1.00 µg/L). Acetone is also detected in the associated method blank at 1.13 µg/L and above the RDL. The highest acetone detection was used to evaluate the equipment blank. Actions are as follows:
 - **Acetone was detected below the established action level of 4.32 µg/L (2.16 µg/L x 2) in samples MW-346-090524, and MW-992-090524. These samples are qualified as not detected (U) due to equipment blank contamination.** No action is needed for the remaining sample since acetone is detected above the action level in sample MW-348-090524.
 - Benzene, 1,4-dichlorobenzene, and tetrachloroethene are detected in the equipment blank at low levels (above and below the RDLs). No action is needed since benzene 1,4-dichlorobenzene, and tetrachloroethene are not detected in the associated samples.

Field Duplicate Analyses

A field duplicate pair was submitted and analyzed as follows:

- SDG L1775129: Sample MW-346-090524 and field duplicate MW-992-090524

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 iron, methane, and vinyl chloride. **Field duplicate pair (MW-346-090524 and MW-992-090524) results for iron, methane, 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%.

USEPA Method 6020B

Laboratory duplicate samples were not analyzed. Matrix spike samples were performed on non-client samples within the analytical batch. Refer to field duplicate results for precision data.

General Chemistry (Sulfate 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:

- SDGs L1774604 and L1775129 – Analytical batch WG2360527: LCS/LCSD recoveries for trichlorofluoromethane are within laboratory QC criteria and laboratory qualified (J). Pace was contacted on July 19, 2024 about this reporting issue during Q2 review. Pace indicated that the wrong RDL was entered into EPA Method 8260 ultra-low level (ULL) quality control parameters. No action was taken on this basis other than to notify Pace that the incorrect RDL was entered in the associated laboratory QC for trichlorofluoromethane.

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 (Sulfate 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 performed on a non-client sample within the analytical batch associated with SDGs L1775129 and L1775133. VOC MS/MSD analyses results were not reported in SDG L1774604. 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 batch associated with SDG L1775129. Refer to laboratory control sample and/or laboratory duplicate results for precision and accuracy results.

USEPA Method 6020B

MS/MSD analyses were performed on non-client samples within the analytical batches. Refer to laboratory control sample results for accuracy results. Refer to field duplicate results for precision data.

General Chemistry (Sulfate and TOC)

MS or MS/MSD analyses were performed on client and/or on non-client samples within the analytical batches. Client sample MS % Rs, MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples. Refer to laboratory control sample and/or laboratory duplicate results for precision and accuracy results.

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. 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

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 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Sulfate	8790		637	5000	1	09/06/2024 19:30	WG2357299

¹ Cp

² Tc

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)	2160		102	1000	1	09/08/2024 20:00	WG2357467

³ Ss

⁴ Cn

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	1940		28.1	100	1	09/12/2024 17:02	WG2359561
Manganese	417		0.704	5.00	1	09/12/2024 17:02	WG2359561

⁵ Sr

⁶ Qc

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	09/08/2024 13:15	WG2357310
Ethane	U		0.296	1.29	1	09/08/2024 13:15	WG2357310
Ethene	U		0.422	1.27	1	09/08/2024 13:15	WG2357310

⁷ Gl

⁸ Al

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

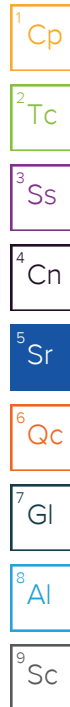
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	12.1	J+ C5	0.548	1.00	1	09/09/2024 10:06	WG2360527
Acrylonitrile	U		0.0760	0.500	1	09/09/2024 10:06	WG2360527
Benzene	U		0.0160	0.0400	1	09/09/2024 10:06	WG2360527
Bromobenzene	U		0.0420	0.500	1	09/09/2024 10:06	WG2360527
Bromochloromethane	U		0.0452	0.200	1	09/09/2024 10:06	WG2360527
Bromodichloromethane	U		0.0315	0.100	1	09/09/2024 10:06	WG2360527
Bromoform	U		0.239	1.00	1	09/09/2024 10:06	WG2360527
Bromomethane	U		0.148	0.500	1	09/09/2024 10:06	WG2360527
n-Butylbenzene	U		0.153	0.500	1	09/09/2024 10:06	WG2360527
sec-Butylbenzene	U		0.101	0.500	1	09/09/2024 10:06	WG2360527
tert-Butylbenzene	U		0.0620	0.200	1	09/09/2024 10:06	WG2360527
Carbon disulfide	U		0.162	0.500	1	09/09/2024 10:06	WG2360527
Carbon tetrachloride	U		0.0432	0.200	1	09/09/2024 10:06	WG2360527
Chlorobenzene	U		0.0229	0.100	1	09/09/2024 10:06	WG2360527
Chlorodibromomethane	U		0.0180	0.100	1	09/09/2024 10:06	WG2360527
Chloroethane	U		0.0432	0.200	1	09/09/2024 10:06	WG2360527
Chloroform	U		0.0166	0.100	1	09/09/2024 10:06	WG2360527
Chloromethane	U		0.0556	0.500	1	09/09/2024 10:06	WG2360527
2-Chlorotoluene	U		0.0368	0.100	1	09/09/2024 10:06	WG2360527
4-Chlorotoluene	U		0.0452	0.200	1	09/09/2024 10:06	WG2360527
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/09/2024 10:06	WG2360527
1,2-Dibromoethane	U		0.0210	0.100	1	09/09/2024 10:06	WG2360527
Dibromomethane	U		0.0400	0.200	1	09/09/2024 10:06	WG2360527
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/09/2024 10:06	WG2360527
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/09/2024 10:06	WG2360527
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/09/2024 10:06	WG2360527
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/09/2024 10:06	WG2360527
Dichlorodifluoromethane	U		0.0327	0.200	1	09/09/2024 10:06	WG2360527
1,1-Dichloroethane	U		0.0230	0.100	1	09/09/2024 10:06	WG2360527
1,2-Dichloroethane	U		0.0190	0.100	1	09/09/2024 10:06	WG2360527
1,1-Dichloroethene	U		0.0200	0.100	1	09/09/2024 10:06	WG2360527

⁹ Sc

JC 10/21/24

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	0.430		0.0276	0.100	1	09/09/2024 10:06	WG2360527
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/09/2024 10:06	WG2360527
1,2-Dichloropropane	U		0.0508	0.200	1	09/09/2024 10:06	WG2360527
1,1-Dichloropropene	U		0.0280	0.100	1	09/09/2024 10:06	WG2360527
1,3-Dichloropropane	U		0.0700	0.200	1	09/09/2024 10:06	WG2360527
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/09/2024 10:06	WG2360527
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/09/2024 10:06	WG2360527
2,2-Dichloropropane	U		0.0317	0.100	1	09/09/2024 10:06	WG2360527
Di-isopropyl ether	U		0.0140	0.0400	1	09/09/2024 10:06	WG2360527
Ethylbenzene	0.0990	U	0.0212	0.100	1	09/09/2024 10:06	WG2360527
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/09/2024 10:06	WG2360527
2-Hexanone	U		0.400	1.00	1	09/09/2024 10:06	WG2360527
n-Hexane	U		0.0424	0.200	1	09/09/2024 10:06	WG2360527
Iodomethane	U		0.242	0.500	1	09/09/2024 10:06	WG2360527
Isopropylbenzene	U		0.0345	0.100	1	09/09/2024 10:06	WG2360527
p-Isopropyltoluene	U		0.0932	0.200	1	09/09/2024 10:06	WG2360527
2-Butanone (MEK)	U		0.500	1.00	1	09/09/2024 10:06	WG2360527
Methylene Chloride	U		0.265	1.00	1	09/09/2024 10:06	WG2360527
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/09/2024 10:06	WG2360527
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/09/2024 10:06	WG2360527
Naphthalene	U		0.124	0.500	1	09/09/2024 10:06	WG2360527
n-Propylbenzene	U		0.0472	0.200	1	09/09/2024 10:06	WG2360527
Styrene	U		0.109	0.500	1	09/09/2024 10:06	WG2360527
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/09/2024 10:06	WG2360527
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/09/2024 10:06	WG2360527
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/09/2024 10:06	WG2360527
Tetrachloroethene	U		0.0280	0.100	1	09/09/2024 10:06	WG2360527
Toluene	0.193	U	0.0500	0.200	1	09/09/2024 10:06	WG2360527
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/09/2024 10:06	WG2360527
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/09/2024 10:06	WG2360527
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/09/2024 10:06	WG2360527
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/09/2024 10:06	WG2360527
Trichloroethene	0.0480		0.0160	0.0400	1	09/09/2024 10:06	WG2360527
Trichlorofluoromethane	U		0.0200	0.100	1	09/09/2024 10:06	WG2360527
1,2,3-Trichloropropane	U		0.204	0.500	1	09/09/2024 10:06	WG2360527
1,2,4-Trimethylbenzene	0.0830	U	0.0464	0.200	1	09/09/2024 10:06	WG2360527
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/09/2024 10:06	WG2360527
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/09/2024 10:06	WG2360527
Vinyl acetate	U		0.141	0.500	1	09/09/2024 10:06	WG2360527
Vinyl chloride	1.27		0.0273	0.100	1	09/09/2024 10:06	WG2360527
Xylenes, Total	0.602		0.191	0.260	1	09/09/2024 10:06	WG2360527
(S) Toluene-d8	101			75.0-131		09/09/2024 10:06	WG2360527
(S) 4-Bromofluorobenzene	104			67.0-138		09/09/2024 10:06	WG2360527
(S) 1,2-Dichloroethane-d4	102			70.0-130		09/09/2024 10:06	WG2360527



JC 10/21/24

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Sulfate	39600		637	5000	1	09/06/2024 19:47	WG2357299

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)	1350		102	1000	1	09/08/2024 20:20	WG2357467

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	636		28.1	100	1	09/12/2024 17:05	WG2359561
Manganese	130		0.704	5.00	1	09/12/2024 17:05	WG2359561

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	811		0.287	0.678	1	09/07/2024 11:33	WG2357382
Ethane	5.91		0.296	1.29	1	09/07/2024 11:33	WG2357382
Ethene	11.4		0.422	1.27	1	09/07/2024 11:33	WG2357382

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	11.8	J+ C5	0.548	1.00	1	09/09/2024 10:25	WG2360527
Acrylonitrile	U		0.0760	0.500	1	09/09/2024 10:25	WG2360527
Benzene	0.0240	J	0.0160	0.0400	1	09/09/2024 10:25	WG2360527
Bromobenzene	U		0.0420	0.500	1	09/09/2024 10:25	WG2360527
Bromochloromethane	U		0.0452	0.200	1	09/09/2024 10:25	WG2360527
Bromodichloromethane	U		0.0315	0.100	1	09/09/2024 10:25	WG2360527
Bromoform	U		0.239	1.00	1	09/09/2024 10:25	WG2360527
Bromomethane	U		0.148	0.500	1	09/09/2024 10:25	WG2360527
n-Butylbenzene	U		0.153	0.500	1	09/09/2024 10:25	WG2360527
sec-Butylbenzene	U		0.101	0.500	1	09/09/2024 10:25	WG2360527
tert-Butylbenzene	U		0.0620	0.200	1	09/09/2024 10:25	WG2360527
Carbon disulfide	U		0.162	0.500	1	09/09/2024 10:25	WG2360527
Carbon tetrachloride	U		0.0432	0.200	1	09/09/2024 10:25	WG2360527
Chlorobenzene	U		0.0229	0.100	1	09/09/2024 10:25	WG2360527
Chlorodibromomethane	U		0.0180	0.100	1	09/09/2024 10:25	WG2360527
Chloroethane	U		0.0432	0.200	1	09/09/2024 10:25	WG2360527
Chloroform	U		0.0166	0.100	1	09/09/2024 10:25	WG2360527
Chloromethane	U		0.0556	0.500	1	09/09/2024 10:25	WG2360527
2-Chlorotoluene	U		0.0368	0.100	1	09/09/2024 10:25	WG2360527
4-Chlorotoluene	U		0.0452	0.200	1	09/09/2024 10:25	WG2360527
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/09/2024 10:25	WG2360527
1,2-Dibromoethane	U		0.0210	0.100	1	09/09/2024 10:25	WG2360527
Dibromomethane	U		0.0400	0.200	1	09/09/2024 10:25	WG2360527
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/09/2024 10:25	WG2360527
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/09/2024 10:25	WG2360527
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/09/2024 10:25	WG2360527
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/09/2024 10:25	WG2360527
Dichlorodifluoromethane	U		0.0327	0.200	1	09/09/2024 10:25	WG2360527
1,1-Dichloroethane	U		0.0230	0.100	1	09/09/2024 10:25	WG2360527
1,2-Dichloroethane	U		0.0190	0.100	1	09/09/2024 10:25	WG2360527
1,1-Dichloroethene	U		0.0200	0.100	1	09/09/2024 10:25	WG2360527

JC 10/21/24

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
cis-1,2-Dichloroethene	0.502		0.0276	0.100	1	09/09/2024 10:25	WG2360527
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/09/2024 10:25	WG2360527
1,2-Dichloropropane	U		0.0508	0.200	1	09/09/2024 10:25	WG2360527
1,1-Dichloropropene	U		0.0280	0.100	1	09/09/2024 10:25	WG2360527
1,3-Dichloropropane	U		0.0700	0.200	1	09/09/2024 10:25	WG2360527
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/09/2024 10:25	WG2360527
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/09/2024 10:25	WG2360527
2,2-Dichloropropane	U		0.0317	0.100	1	09/09/2024 10:25	WG2360527
Di-isopropyl ether	U		0.0140	0.0400	1	09/09/2024 10:25	WG2360527
Ethylbenzene	0.237		0.0212	0.100	1	09/09/2024 10:25	WG2360527
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/09/2024 10:25	WG2360527
2-Hexanone	U		0.400	1.00	1	09/09/2024 10:25	WG2360527
n-Hexane	U		0.0424	0.200	1	09/09/2024 10:25	WG2360527
Iodomethane	U		0.242	0.500	1	09/09/2024 10:25	WG2360527
Isopropylbenzene	U		0.0345	0.100	1	09/09/2024 10:25	WG2360527
p-Isopropyltoluene	U		0.0932	0.200	1	09/09/2024 10:25	WG2360527
2-Butanone (MEK)	U		0.500	1.00	1	09/09/2024 10:25	WG2360527
Methylene Chloride	U		0.265	1.00	1	09/09/2024 10:25	WG2360527
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/09/2024 10:25	WG2360527
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/09/2024 10:25	WG2360527
Naphthalene	U		0.124	0.500	1	09/09/2024 10:25	WG2360527
n-Propylbenzene	U		0.0472	0.200	1	09/09/2024 10:25	WG2360527
Styrene	U		0.109	0.500	1	09/09/2024 10:25	WG2360527
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/09/2024 10:25	WG2360527
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/09/2024 10:25	WG2360527
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/09/2024 10:25	WG2360527
Tetrachloroethene	U		0.0280	0.100	1	09/09/2024 10:25	WG2360527
Toluene	0.608		0.0500	0.200	1	09/09/2024 10:25	WG2360527
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/09/2024 10:25	WG2360527
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/09/2024 10:25	WG2360527
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/09/2024 10:25	WG2360527
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/09/2024 10:25	WG2360527
Trichloroethene	0.0980		0.0160	0.0400	1	09/09/2024 10:25	WG2360527
Trichlorofluoromethane	U		0.0200	0.100	1	09/09/2024 10:25	WG2360527
1,2,3-Trichloropropane	U		0.204	0.500	1	09/09/2024 10:25	WG2360527
1,2,4-Trimethylbenzene	0.153	U	0.0464	0.200	1	09/09/2024 10:25	WG2360527
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/09/2024 10:25	WG2360527
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/09/2024 10:25	WG2360527
Vinyl acetate	U		0.141	0.500	1	09/09/2024 10:25	WG2360527
Vinyl chloride	5.79		0.0273	0.100	1	09/09/2024 10:25	WG2360527
Xylenes, Total	1.49		0.191	0.260	1	09/09/2024 10:25	WG2360527
(S) Toluene-d8	99.7			75.0-131		09/09/2024 10:25	WG2360527
(S) 4-Bromofluorobenzene	103			67.0-138		09/09/2024 10:25	WG2360527
(S) 1,2-Dichloroethane-d4	102			70.0-130		09/09/2024 10:25	WG2360527

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Sulfate	8940		637	5000	1	09/09/2024 22:41	WG2357775

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

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		102	1000	1	09/13/2024 15:56	WG2361382

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	983		28.1	100	1	09/20/2024 14:29	WG2361344
Manganese	164		0.704	5.00	1	09/20/2024 14:29	WG2361344

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	36000		2.87	6.78	10	09/10/2024 16:21	WG2359750
Ethane	22.3		0.296	1.29	1	09/10/2024 12:05	WG2358367
Ethene	327		0.422	1.27	1	09/10/2024 12:05	WG2358367

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	33.8		0.548	1.00	1	09/12/2024 16:20	WG2361379
Acrylonitrile	U		0.0760	0.500	1	09/12/2024 16:20	WG2361379
Benzene	U		0.0160	0.0400	1	09/12/2024 16:20	WG2361379
Bromobenzene	U		0.0420	0.500	1	09/12/2024 16:20	WG2361379
Bromochloromethane	U		0.0452	0.200	1	09/12/2024 16:20	WG2361379
Bromodichloromethane	U		0.0315	0.100	1	09/12/2024 16:20	WG2361379
Bromoform	U		0.239	1.00	1	09/12/2024 16:20	WG2361379
Bromomethane	U		0.148	0.500	1	09/12/2024 16:20	WG2361379
n-Butylbenzene	U		0.153	0.500	1	09/12/2024 16:20	WG2361379
sec-Butylbenzene	U		0.101	0.500	1	09/12/2024 16:20	WG2361379
tert-Butylbenzene	U		0.0620	0.200	1	09/12/2024 16:20	WG2361379
Carbon disulfide	0.568		0.162	0.500	1	09/12/2024 16:20	WG2361379
Carbon tetrachloride	U		0.0432	0.200	1	09/12/2024 16:20	WG2361379
Chlorobenzene	U		0.0229	0.100	1	09/12/2024 16:20	WG2361379
Chlorodibromomethane	U		0.0180	0.100	1	09/12/2024 16:20	WG2361379
Chloroethane	U		0.0432	0.200	1	09/12/2024 16:20	WG2361379
Chloroform	U		0.0166	0.100	1	09/12/2024 16:20	WG2361379
Chloromethane	U		0.0556	0.500	1	09/12/2024 16:20	WG2361379
2-Chlorotoluene	U		0.0368	0.100	1	09/12/2024 16:20	WG2361379
4-Chlorotoluene	U		0.0452	0.200	1	09/12/2024 16:20	WG2361379
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/12/2024 16:20	WG2361379
1,2-Dibromoethane	U		0.0210	0.100	1	09/12/2024 16:20	WG2361379
Dibromomethane	U		0.0400	0.200	1	09/12/2024 16:20	WG2361379
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/12/2024 16:20	WG2361379
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/12/2024 16:20	WG2361379
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/12/2024 16:20	WG2361379
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/12/2024 16:20	WG2361379
Dichlorodifluoromethane	U		0.0327	0.200	1	09/12/2024 16:20	WG2361379
1,1-Dichloroethane	0.0360	J	0.0230	0.100	1	09/12/2024 16:20	WG2361379
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 16:20	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 16:20	WG2361379

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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
cis-1,2-Dichloroethene	2.15		0.0276	0.100	1	09/12/2024 16:20	WG2361379
trans-1,2-Dichloroethene	0.0890	J	0.0572	0.200	1	09/12/2024 16:20	WG2361379
1,2-Dichloropropane	U		0.0508	0.200	1	09/12/2024 16:20	WG2361379
1,1-Dichloropropene	U		0.0280	0.100	1	09/12/2024 16:20	WG2361379
1,3-Dichloropropane	U		0.0700	0.200	1	09/12/2024 16:20	WG2361379
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/12/2024 16:20	WG2361379
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/12/2024 16:20	WG2361379
2,2-Dichloropropane	U		0.0317	0.100	1	09/12/2024 16:20	WG2361379
Di-isopropyl ether	U		0.0140	0.0400	1	09/12/2024 16:20	WG2361379
Ethylbenzene	U		0.0212	0.100	1	09/12/2024 16:20	WG2361379
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/12/2024 16:20	WG2361379
2-Hexanone	U		0.400	1.00	1	09/12/2024 16:20	WG2361379
n-Hexane	U		0.0424	0.200	1	09/12/2024 16:20	WG2361379
Iodomethane	U		0.242	0.500	1	09/12/2024 16:20	WG2361379
Isopropylbenzene	U		0.0345	0.100	1	09/12/2024 16:20	WG2361379
p-Isopropyltoluene	U		0.0932	0.200	1	09/12/2024 16:20	WG2361379
2-Butanone (MEK)	2.36		0.500	1.00	1	09/12/2024 16:20	WG2361379
Methylene Chloride	U		0.265	1.00	1	09/12/2024 16:20	WG2361379
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/12/2024 16:20	WG2361379
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/12/2024 16:20	WG2361379
Naphthalene	U		0.124	0.500	1	09/12/2024 16:20	WG2361379
n-Propylbenzene	U		0.0472	0.200	1	09/12/2024 16:20	WG2361379
Styrene	U		0.109	0.500	1	09/12/2024 16:20	WG2361379
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/12/2024 16:20	WG2361379
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/12/2024 16:20	WG2361379
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/12/2024 16:20	WG2361379
Tetrachloroethene	U		0.0280	0.100	1	09/12/2024 16:20	WG2361379
Toluene	0.0580	J	0.0500	0.200	1	09/12/2024 16:20	WG2361379
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/12/2024 16:20	WG2361379
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/12/2024 16:20	WG2361379
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/12/2024 16:20	WG2361379
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/12/2024 16:20	WG2361379
Trichloroethene	0.109		0.0160	0.0400	1	09/12/2024 16:20	WG2361379
Trichlorofluoromethane	U		0.0200	0.100	1	09/12/2024 16:20	WG2361379
1,2,3-Trichloropropane	U		0.204	0.500	1	09/12/2024 16:20	WG2361379
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/12/2024 16:20	WG2361379
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/12/2024 16:20	WG2361379
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/12/2024 16:20	WG2361379
Vinyl acetate	U		0.141	0.500	1	09/12/2024 16:20	WG2361379
Vinyl chloride	7.17	J	0.0273	0.100	1	09/12/2024 16:20	WG2361379
Xylenes, Total	U		0.191	0.260	1	09/12/2024 16:20	WG2361379
(S) Toluene-d8	98.5			75.0-131		09/12/2024 16:20	WG2361379
(S) 4-Bromofluorobenzene	98.8			67.0-138		09/12/2024 16:20	WG2361379
(S) 1,2-Dichloroethane-d4	105			70.0-130		09/12/2024 16:20	WG2361379

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfate	68400		3180	25000	5	09/09/2024 23:22	WG2357775

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1350		102	1000	1	09/13/2024 17:19	WG2361382

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	1970	J	28.1	100	1	09/20/2024 14:32	WG2361344
Manganese	184		0.704	5.00	1	09/20/2024 14:32	WG2361344

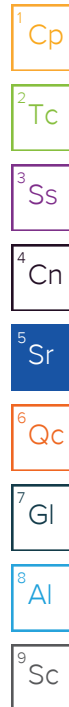
Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	791	J	0.287	0.678	1	09/10/2024 12:10	WG2358367
Ethane	U		0.296	1.29	1	09/10/2024 12:10	WG2358367
Ethene	3.46		0.422	1.27	1	09/10/2024 12:10	WG2358367

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

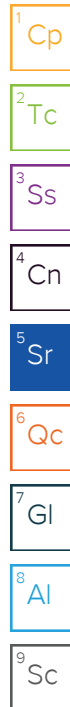
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	0.967	U	0.548	1.00	1	09/12/2024 16:39	WG2361379
Acrylonitrile	U		0.0760	0.500	1	09/12/2024 16:39	WG2361379
Benzene	U		0.0160	0.0400	1	09/12/2024 16:39	WG2361379
Bromobenzene	U		0.0420	0.500	1	09/12/2024 16:39	WG2361379
Bromochloromethane	U		0.0452	0.200	1	09/12/2024 16:39	WG2361379
Bromodichloromethane	U		0.0315	0.100	1	09/12/2024 16:39	WG2361379
Bromoform	U		0.239	1.00	1	09/12/2024 16:39	WG2361379
Bromomethane	U		0.148	0.500	1	09/12/2024 16:39	WG2361379
n-Butylbenzene	U		0.153	0.500	1	09/12/2024 16:39	WG2361379
sec-Butylbenzene	U		0.101	0.500	1	09/12/2024 16:39	WG2361379
tert-Butylbenzene	U		0.0620	0.200	1	09/12/2024 16:39	WG2361379
Carbon disulfide	U		0.162	0.500	1	09/12/2024 16:39	WG2361379
Carbon tetrachloride	U		0.0432	0.200	1	09/12/2024 16:39	WG2361379
Chlorobenzene	U		0.0229	0.100	1	09/12/2024 16:39	WG2361379
Chlorodibromomethane	U		0.0180	0.100	1	09/12/2024 16:39	WG2361379
Chloroethane	U		0.0432	0.200	1	09/12/2024 16:39	WG2361379
Chloroform	U		0.0166	0.100	1	09/12/2024 16:39	WG2361379
Chloromethane	U		0.0556	0.500	1	09/12/2024 16:39	WG2361379
2-Chlorotoluene	U		0.0368	0.100	1	09/12/2024 16:39	WG2361379
4-Chlorotoluene	U		0.0452	0.200	1	09/12/2024 16:39	WG2361379
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/12/2024 16:39	WG2361379
1,2-Dibromoethane	U		0.0210	0.100	1	09/12/2024 16:39	WG2361379
Dibromomethane	U		0.0400	0.200	1	09/12/2024 16:39	WG2361379
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/12/2024 16:39	WG2361379
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/12/2024 16:39	WG2361379
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/12/2024 16:39	WG2361379
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/12/2024 16:39	WG2361379
Dichlorodifluoromethane	U		0.0327	0.200	1	09/12/2024 16:39	WG2361379
1,1-Dichloroethane	U		0.0230	0.100	1	09/12/2024 16:39	WG2361379
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 16:39	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 16:39	WG2361379

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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
cis-1,2-Dichloroethene	1.67		0.0276	0.100	1	09/12/2024 16:39	WG2361379
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/12/2024 16:39	WG2361379
1,2-Dichloropropane	U		0.0508	0.200	1	09/12/2024 16:39	WG2361379
1,1-Dichloropropene	U		0.0280	0.100	1	09/12/2024 16:39	WG2361379
1,3-Dichloropropane	U		0.0700	0.200	1	09/12/2024 16:39	WG2361379
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/12/2024 16:39	WG2361379
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/12/2024 16:39	WG2361379
2,2-Dichloropropane	U		0.0317	0.100	1	09/12/2024 16:39	WG2361379
Di-isopropyl ether	U		0.0140	0.0400	1	09/12/2024 16:39	WG2361379
Ethylbenzene	U		0.0212	0.100	1	09/12/2024 16:39	WG2361379
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/12/2024 16:39	WG2361379
2-Hexanone	U		0.400	1.00	1	09/12/2024 16:39	WG2361379
n-Hexane	U		0.0424	0.200	1	09/12/2024 16:39	WG2361379
Iodomethane	U		0.242	0.500	1	09/12/2024 16:39	WG2361379
Isopropylbenzene	U		0.0345	0.100	1	09/12/2024 16:39	WG2361379
p-Isopropyltoluene	U		0.0932	0.200	1	09/12/2024 16:39	WG2361379
2-Butanone (MEK)	U		0.500	1.00	1	09/12/2024 16:39	WG2361379
Methylene Chloride	U		0.265	1.00	1	09/12/2024 16:39	WG2361379
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/12/2024 16:39	WG2361379
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/12/2024 16:39	WG2361379
Naphthalene	U		0.124	0.500	1	09/12/2024 16:39	WG2361379
n-Propylbenzene	U		0.0472	0.200	1	09/12/2024 16:39	WG2361379
Styrene	U		0.109	0.500	1	09/12/2024 16:39	WG2361379
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/12/2024 16:39	WG2361379
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/12/2024 16:39	WG2361379
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/12/2024 16:39	WG2361379
Tetrachloroethene	U		0.0280	0.100	1	09/12/2024 16:39	WG2361379
Toluene	U		0.0500	0.200	1	09/12/2024 16:39	WG2361379
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/12/2024 16:39	WG2361379
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/12/2024 16:39	WG2361379
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/12/2024 16:39	WG2361379
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/12/2024 16:39	WG2361379
Trichloroethene	0.334		0.0160	0.0400	1	09/12/2024 16:39	WG2361379
Trichlorofluoromethane	U		0.0200	0.100	1	09/12/2024 16:39	WG2361379
1,2,3-Trichloropropane	U		0.204	0.500	1	09/12/2024 16:39	WG2361379
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/12/2024 16:39	WG2361379
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/12/2024 16:39	WG2361379
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/12/2024 16:39	WG2361379
Vinyl acetate	U		0.141	0.500	1	09/12/2024 16:39	WG2361379
Vinyl chloride	1.40	J	0.0273	0.100	1	09/12/2024 16:39	WG2361379
Xylenes, Total	U		0.191	0.260	1	09/12/2024 16:39	WG2361379
(S) Toluene-d8	95.0			75.0-131		09/12/2024 16:39	WG2361379
(S) 4-Bromofluorobenzene	104			67.0-138		09/12/2024 16:39	WG2361379
(S) 1,2-Dichloroethane-d4	106			70.0-130		09/12/2024 16:39	WG2361379



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Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Sulfate	68500		3180	25000	5	09/09/2024 23:35	WG2357775

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)	1370		102	1000	1	09/13/2024 17:58	WG2361382

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	1150	J	28.1	100	1	09/20/2024 14:35	WG2361344
Manganese	183		0.704	5.00	1	09/20/2024 14:35	WG2361344

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	460	J	0.287	0.678	1	09/10/2024 12:16	WG2358367
Ethane	U		0.296	1.29	1	09/10/2024 12:16	WG2358367
Ethene	2.86		0.422	1.27	1	09/10/2024 12:16	WG2358367

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	3.24	U B	0.548	1.00	1	09/12/2024 16:58	WG2361379
Acrylonitrile	U		0.0760	0.500	1	09/12/2024 16:58	WG2361379
Benzene	U		0.0160	0.0400	1	09/12/2024 16:58	WG2361379
Bromobenzene	U		0.0420	0.500	1	09/12/2024 16:58	WG2361379
Bromochloromethane	U		0.0452	0.200	1	09/12/2024 16:58	WG2361379
Bromodichloromethane	U		0.0315	0.100	1	09/12/2024 16:58	WG2361379
Bromoform	U		0.239	1.00	1	09/12/2024 16:58	WG2361379
Bromomethane	U		0.148	0.500	1	09/12/2024 16:58	WG2361379
n-Butylbenzene	U		0.153	0.500	1	09/12/2024 16:58	WG2361379
sec-Butylbenzene	U		0.101	0.500	1	09/12/2024 16:58	WG2361379
tert-Butylbenzene	U		0.0620	0.200	1	09/12/2024 16:58	WG2361379
Carbon disulfide	U		0.162	0.500	1	09/12/2024 16:58	WG2361379
Carbon tetrachloride	U		0.0432	0.200	1	09/12/2024 16:58	WG2361379
Chlorobenzene	U		0.0229	0.100	1	09/12/2024 16:58	WG2361379
Chlorodibromomethane	U		0.0180	0.100	1	09/12/2024 16:58	WG2361379
Chloroethane	U		0.0432	0.200	1	09/12/2024 16:58	WG2361379
Chloroform	U		0.0166	0.100	1	09/12/2024 16:58	WG2361379
Chloromethane	U		0.0556	0.500	1	09/12/2024 16:58	WG2361379
2-Chlorotoluene	U		0.0368	0.100	1	09/12/2024 16:58	WG2361379
4-Chlorotoluene	U		0.0452	0.200	1	09/12/2024 16:58	WG2361379
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/12/2024 16:58	WG2361379
1,2-Dibromoethane	U		0.0210	0.100	1	09/12/2024 16:58	WG2361379
Dibromomethane	U		0.0400	0.200	1	09/12/2024 16:58	WG2361379
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/12/2024 16:58	WG2361379
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/12/2024 16:58	WG2361379
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/12/2024 16:58	WG2361379
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/12/2024 16:58	WG2361379
Dichlorodifluoromethane	U		0.0327	0.200	1	09/12/2024 16:58	WG2361379
1,1-Dichloroethane	U		0.0230	0.100	1	09/12/2024 16:58	WG2361379
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 16:58	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 16:58	WG2361379

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

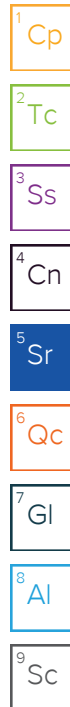
7Gl

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
cis-1,2-Dichloroethene	1.43		0.0276	0.100	1	09/12/2024 16:58	WG2361379
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/12/2024 16:58	WG2361379
1,2-Dichloropropane	U		0.0508	0.200	1	09/12/2024 16:58	WG2361379
1,1-Dichloropropene	U		0.0280	0.100	1	09/12/2024 16:58	WG2361379
1,3-Dichloropropane	U		0.0700	0.200	1	09/12/2024 16:58	WG2361379
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/12/2024 16:58	WG2361379
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/12/2024 16:58	WG2361379
2,2-Dichloropropane	U		0.0317	0.100	1	09/12/2024 16:58	WG2361379
Di-isopropyl ether	U		0.0140	0.0400	1	09/12/2024 16:58	WG2361379
Ethylbenzene	U		0.0212	0.100	1	09/12/2024 16:58	WG2361379
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/12/2024 16:58	WG2361379
2-Hexanone	U		0.400	1.00	1	09/12/2024 16:58	WG2361379
n-Hexane	U		0.0424	0.200	1	09/12/2024 16:58	WG2361379
Iodomethane	U		0.242	0.500	1	09/12/2024 16:58	WG2361379
Isopropylbenzene	U		0.0345	0.100	1	09/12/2024 16:58	WG2361379
p-Isopropyltoluene	U		0.0932	0.200	1	09/12/2024 16:58	WG2361379
2-Butanone (MEK)	U		0.500	1.00	1	09/12/2024 16:58	WG2361379
Methylene Chloride	U		0.265	1.00	1	09/12/2024 16:58	WG2361379
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/12/2024 16:58	WG2361379
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/12/2024 16:58	WG2361379
Naphthalene	U		0.124	0.500	1	09/12/2024 16:58	WG2361379
n-Propylbenzene	U		0.0472	0.200	1	09/12/2024 16:58	WG2361379
Styrene	U		0.109	0.500	1	09/12/2024 16:58	WG2361379
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/12/2024 16:58	WG2361379
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/12/2024 16:58	WG2361379
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/12/2024 16:58	WG2361379
Tetrachloroethene	U		0.0280	0.100	1	09/12/2024 16:58	WG2361379
Toluene	U		0.0500	0.200	1	09/12/2024 16:58	WG2361379
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/12/2024 16:58	WG2361379
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/12/2024 16:58	WG2361379
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/12/2024 16:58	WG2361379
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/12/2024 16:58	WG2361379
Trichloroethene	0.333		0.0160	0.0400	1	09/12/2024 16:58	WG2361379
Trichlorofluoromethane	U		0.0200	0.100	1	09/12/2024 16:58	WG2361379
1,2,3-Trichloropropane	U		0.204	0.500	1	09/12/2024 16:58	WG2361379
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	09/12/2024 16:58	WG2361379
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	09/12/2024 16:58	WG2361379
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/12/2024 16:58	WG2361379
Vinyl acetate	U		0.141	0.500	1	09/12/2024 16:58	WG2361379
Vinyl chloride	0.939	J	0.0273	0.100	1	09/12/2024 16:58	WG2361379
Xylenes, Total	U		0.191	0.260	1	09/12/2024 16:58	WG2361379
(S) Toluene-d8	95.3			75.0-131		09/12/2024 16:58	WG2361379
(S) 4-Bromofluorobenzene	105			67.0-138		09/12/2024 16:58	WG2361379
(S) 1,2-Dichloroethane-d4	105			70.0-130		09/12/2024 16:58	WG2361379



JC 10/21/24

Wet Chemistry by Method 9056A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Sulfate	28400		637	5000	1	09/09/2024 23:49	WG2357775

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

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)	1830		102	1000	1	09/13/2024 18:17	WG2361382

Metals (ICPMS) by Method 6020B

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Iron	1210		28.1	100	1	09/20/2024 16:54	WG2361347
Manganese	694		3.52	25.0	5	09/20/2024 18:32	WG2361347

Volatile Organic Compounds (GC) by Method RSK175

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Methane	5450		0.287	0.678	1	09/10/2024 12:25	WG2358367
Ethane	63.6		0.296	1.29	1	09/10/2024 12:25	WG2358367
Ethene	63.3		0.422	1.27	1	09/10/2024 12:25	WG2358367

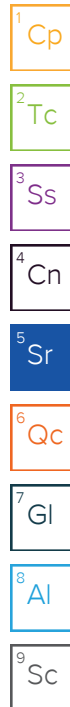
Volatile Organic Compounds (GC/MS) by Method 8260D

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	2.03	U	0.548	1.00	1	09/12/2024 17:17	WG2361379
Acrylonitrile	U		0.0760	0.500	1	09/12/2024 17:17	WG2361379
Benzene	U		0.0160	0.0400	1	09/12/2024 17:17	WG2361379
Bromobenzene	U		0.0420	0.500	1	09/12/2024 17:17	WG2361379
Bromochloromethane	U		0.0452	0.200	1	09/12/2024 17:17	WG2361379
Bromodichloromethane	U		0.0315	0.100	1	09/12/2024 17:17	WG2361379
Bromoform	U		0.239	1.00	1	09/12/2024 17:17	WG2361379
Bromomethane	U		0.148	0.500	1	09/12/2024 17:17	WG2361379
n-Butylbenzene	U		0.153	0.500	1	09/12/2024 17:17	WG2361379
sec-Butylbenzene	U		0.101	0.500	1	09/12/2024 17:17	WG2361379
tert-Butylbenzene	U		0.0620	0.200	1	09/12/2024 17:17	WG2361379
Carbon disulfide	0.324	J	0.162	0.500	1	09/12/2024 17:17	WG2361379
Carbon tetrachloride	U		0.0432	0.200	1	09/12/2024 17:17	WG2361379
Chlorobenzene	U		0.0229	0.100	1	09/12/2024 17:17	WG2361379
Chlorodibromomethane	U		0.0180	0.100	1	09/12/2024 17:17	WG2361379
Chloroethane	U		0.0432	0.200	1	09/12/2024 17:17	WG2361379
Chloroform	U		0.0166	0.100	1	09/12/2024 17:17	WG2361379
Chloromethane	U		0.0556	0.500	1	09/12/2024 17:17	WG2361379
2-Chlorotoluene	U		0.0368	0.100	1	09/12/2024 17:17	WG2361379
4-Chlorotoluene	U		0.0452	0.200	1	09/12/2024 17:17	WG2361379
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	09/12/2024 17:17	WG2361379
1,2-Dibromoethane	U		0.0210	0.100	1	09/12/2024 17:17	WG2361379
Dibromomethane	U		0.0400	0.200	1	09/12/2024 17:17	WG2361379
1,2-Dichlorobenzene	U		0.0580	0.200	1	09/12/2024 17:17	WG2361379
1,3-Dichlorobenzene	U		0.0680	0.200	1	09/12/2024 17:17	WG2361379
1,4-Dichlorobenzene	U		0.0788	0.200	1	09/12/2024 17:17	WG2361379
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	09/12/2024 17:17	WG2361379
Dichlorodifluoromethane	U		0.0327	0.200	1	09/12/2024 17:17	WG2361379
1,1-Dichloroethane	U		0.0230	0.100	1	09/12/2024 17:17	WG2361379
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 17:17	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 17:17	WG2361379

JC 10/21/24

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/12/2024 17:17	WG2361379
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/12/2024 17:17	WG2361379
1,2-Dichloropropane	U		0.0508	0.200	1	09/12/2024 17:17	WG2361379
1,1-Dichloropropene	U		0.0280	0.100	1	09/12/2024 17:17	WG2361379
1,3-Dichloropropane	U		0.0700	0.200	1	09/12/2024 17:17	WG2361379
cis-1,3-Dichloropropene	U		0.0271	0.100	1	09/12/2024 17:17	WG2361379
trans-1,3-Dichloropropene	U		0.0612	0.200	1	09/12/2024 17:17	WG2361379
2,2-Dichloropropane	U		0.0317	0.100	1	09/12/2024 17:17	WG2361379
Di-isopropyl ether	U		0.0140	0.0400	1	09/12/2024 17:17	WG2361379
Ethylbenzene	0.0940	U	0.0212	0.100	1	09/12/2024 17:17	WG2361379
Hexachloro-1,3-butadiene	U		0.508	1.00	1	09/12/2024 17:17	WG2361379
2-Hexanone	U		0.400	1.00	1	09/12/2024 17:17	WG2361379
n-Hexane	U		0.0424	0.200	1	09/12/2024 17:17	WG2361379
Iodomethane	U		0.242	0.500	1	09/12/2024 17:17	WG2361379
Isopropylbenzene	U		0.0345	0.100	1	09/12/2024 17:17	WG2361379
p-Isopropyltoluene	U		0.0932	0.200	1	09/12/2024 17:17	WG2361379
2-Butanone (MEK)	U		0.500	1.00	1	09/12/2024 17:17	WG2361379
Methylene Chloride	U		0.265	1.00	1	09/12/2024 17:17	WG2361379
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	09/12/2024 17:17	WG2361379
Methyl tert-butyl ether	U		0.0118	0.0400	1	09/12/2024 17:17	WG2361379
Naphthalene	U		0.124	0.500	1	09/12/2024 17:17	WG2361379
n-Propylbenzene	U		0.0472	0.200	1	09/12/2024 17:17	WG2361379
Styrene	U		0.109	0.500	1	09/12/2024 17:17	WG2361379
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	09/12/2024 17:17	WG2361379
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	09/12/2024 17:17	WG2361379
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	09/12/2024 17:17	WG2361379
Tetrachloroethene	U		0.0280	0.100	1	09/12/2024 17:17	WG2361379
Toluene	0.255		0.0500	0.200	1	09/12/2024 17:17	WG2361379
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	09/12/2024 17:17	WG2361379
1,2,4-Trichlorobenzene	U		0.193	0.500	1	09/12/2024 17:17	WG2361379
1,1,1-Trichloroethane	U		0.0110	0.100	1	09/12/2024 17:17	WG2361379
1,1,2-Trichloroethane	U		0.0353	0.100	1	09/12/2024 17:17	WG2361379
Trichloroethene	U		0.0160	0.0400	1	09/12/2024 17:17	WG2361379
Trichlorofluoromethane	U		0.0200	0.100	1	09/12/2024 17:17	WG2361379
1,2,3-Trichloropropane	U		0.204	0.500	1	09/12/2024 17:17	WG2361379
1,2,4-Trimethylbenzene	0.103	U	0.0464	0.200	1	09/12/2024 17:17	WG2361379
1,2,3-Trimethylbenzene	0.0580	U	0.0460	0.200	1	09/12/2024 17:17	WG2361379
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	09/12/2024 17:17	WG2361379
Vinyl acetate	U		0.141	0.500	1	09/12/2024 17:17	WG2361379
Vinyl chloride	19.0		0.0273	0.100	1	09/12/2024 17:17	WG2361379
Xylenes, Total	0.495		0.191	0.260	1	09/12/2024 17:17	WG2361379
(S) Toluene-d8	95.9			75.0-131		09/12/2024 17:17	WG2361379
(S) 4-Bromofluorobenzene	103			67.0-138		09/12/2024 17:17	WG2361379
(S) 1,2-Dichloroethane-d4	103			70.0-130		09/12/2024 17:17	WG2361379



SOIL VAPOR

Pace Lab Reports

PES Environmental, Inc.- WA

Sample Delivery Group: L1775305

Samples Received: 09/07/2024

Project Number: 1413001.10.701.03

Description: American Linen

Report To: Daniel Balbiani
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

SV01-090624 L1775305-01 Air

Collected by
Devlin Del Giudice

Collected date/time
09/06/24 11:10

Received date/time
09/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2358341	1	09/09/24 03:35	09/09/24 03:35	DAH	Mt. Juliet, TN

SV-18-090624 L1775305-02 Air

Collected by
Devlin Del Giudice

Collected date/time
09/06/24 13:10

Received date/time
09/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2358341	1	09/09/24 04:19	09/09/24 04:19	DAH	Mt. Juliet, TN

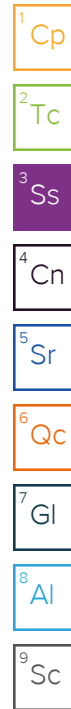
SV-911-090624 L1775305-03 Air

Collected by
Devlin Del Giudice

Collected date/time
09/06/24 14:45

Received date/time
09/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2358341	1	09/09/24 05:03	09/09/24 05:03	DAH	Mt. Juliet, TN

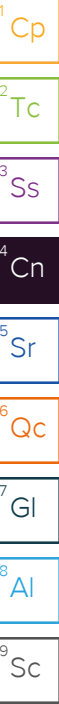


CASE NARRATIVE

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	32.9	78.2		1	WG2358341
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2358341
Benzene	71-43-2	78.10	0.200	0.639	0.546	1.74		1	WG2358341
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2358341
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2358341
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2358341
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2358341
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2358341
Carbon disulfide	75-15-0	76.10	0.400	1.24	1.10	3.42		1	WG2358341
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2358341
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2358341
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2358341
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2358341
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2358341
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2358341
Cyclohexane	110-82-7	84.20	0.200	0.689	1.02	3.51		1	WG2358341
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2358341
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2358341
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2358341
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2358341
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2358341
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2358341
1,1-Dichloroethane	75-34-3	98	0.200	0.802	1.04	4.17		1	WG2358341
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2358341
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2358341
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2358341
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2358341
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2358341
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2358341
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2358341
Ethanol	64-17-5	46.10	2.50	4.71	18.2	34.3		1	WG2358341
Ethylbenzene	100-41-4	106	0.200	0.867	11.2	48.6		1	WG2358341
4-Ethyltoluene	622-96-8	120	0.200	0.982	7.38	36.2		1	WG2358341
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2358341
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.249	1.23		1	WG2358341
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2358341
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2358341
Heptane	142-82-5	100	0.200	0.818	6.27	25.6		1	WG2358341
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2358341
n-Hexane	110-54-3	86.20	0.630	2.22	1.05	3.70		1	WG2358341
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2358341
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2358341
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2358341
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	17.7	52.2		1	WG2358341
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	4.04	16.5		1	WG2358341
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2358341
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2358341
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2358341
2-Propanol	67-63-0	60.10	1.25	3.07	22.2	54.6		1	WG2358341
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2358341
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2358341
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2358341
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.971	6.59		1	WG2358341
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	17.5	51.6		1	WG2358341
Toluene	108-88-3	92.10	0.500	1.88	28.9	109		1	WG2358341
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2358341

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	4.56	24.8		1	WG2358341
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2358341
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2358341
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	10.0	49.1		1	WG2358341
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	2.63	12.9		1	WG2358341
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.710	3.32		1	WG2358341
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2358341
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2358341
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2358341
Xylenes, Total	1330-20-7	106.16	0.600	2.61	67.8	294		1	WG2358341
m&p-Xylene	179601-23-1	106	0.400	1.73	48.0	208		1	WG2358341
o-Xylene	95-47-6	106	0.200	0.867	19.8	85.8		1	WG2358341
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG2358341

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	29.6	70.3		1	WG2358341
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2358341
Benzene	71-43-2	78.10	0.200	0.639	0.609	1.95		1	WG2358341
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2358341
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2358341
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2358341
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2358341
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2358341
Carbon disulfide	75-15-0	76.10	0.400	1.24	0.796	2.48		1	WG2358341
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2358341
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2358341
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2358341
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2358341
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2358341
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2358341
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2358341
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2358341
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2358341
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2358341
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	0.266	1.60		1	WG2358341
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2358341
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2358341
1,1-Dichloroethane	75-34-3	98	0.200	0.802	14.3	57.3		1	WG2358341
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2358341
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2358341
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2358341
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2358341
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2358341
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2358341
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2358341
Ethanol	64-17-5	46.10	2.50	4.71	11.6	21.9		1	WG2358341
Ethylbenzene	100-41-4	106	0.200	0.867	2.79	12.1		1	WG2358341
4-Ethyltoluene	622-96-8	120	0.200	0.982	3.14	15.4		1	WG2358341
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2358341
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG2358341
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2358341
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2358341
Heptane	142-82-5	100	0.200	0.818	1.37	5.60		1	WG2358341
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2358341
n-Hexane	110-54-3	86.20	0.630	2.22	1.46	5.15		1	WG2358341
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2358341
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2358341
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2358341
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	7.27	21.4		1	WG2358341
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	1.86	7.61		1	WG2358341
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2358341
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2358341
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2358341
2-Propanol	67-63-0	60.10	1.25	3.07	6.74	16.6		1	WG2358341
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2358341
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2358341
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2358341
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2358341
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2358341
Toluene	108-88-3	92.10	0.500	1.88	5.27	19.9		1	WG2358341
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2358341



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	6.78	36.9		1	WG2358341
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2358341
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2358341
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	5.00	24.5		1	WG2358341
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	1.29	6.33		1	WG2358341
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	4.64	21.7		1	WG2358341
Vinyl chloride	75-01-4	62.50	0.200	0.511	14.1	36.0		1	WG2358341
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2358341
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2358341
Xylenes, Total	1330-20-7	106.16	0.600	2.61	18.0	78.2		1	WG2358341
m&p-Xylene	179601-23-1	106	0.400	1.73	12.1	52.5		1	WG2358341
o-Xylene	95-47-6	106	0.200	0.867	5.88	25.5		1	WG2358341
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2358341

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	38.3	91.0		1	WG2358341
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2358341
Benzene	71-43-2	78.10	0.200	0.639	0.848	2.71		1	WG2358341
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2358341
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2358341
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2358341
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2358341
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2358341
Carbon disulfide	75-15-0	76.10	0.400	1.24	1.69	5.26		1	WG2358341
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2358341
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2358341
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2358341
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2358341
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2358341
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2358341
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2358341
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2358341
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2358341
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2358341
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2358341
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2358341
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2358341
1,1-Dichloroethane	75-34-3	98	0.200	0.802	13.5	54.1		1	WG2358341
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2358341
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2358341
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2358341
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2358341
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2358341
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2358341
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2358341
Ethanol	64-17-5	46.10	2.50	4.71	12.6	23.8		1	WG2358341
Ethylbenzene	100-41-4	106	0.200	0.867	3.23	14.0		1	WG2358341
4-Ethyltoluene	622-96-8	120	0.200	0.982	3.58	17.6		1	WG2358341
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2358341
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG2358341
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2358341
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2358341
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2358341
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2358341
n-Hexane	110-54-3	86.20	0.630	2.22	1.65	5.82		1	WG2358341
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2358341
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2358341
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2358341
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	8.76	25.8		1	WG2358341
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	2.22	9.09		1	WG2358341
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2358341
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2358341
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2358341
2-Propanol	67-63-0	60.10	1.25	3.07	9.48	23.3		1	WG2358341
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2358341
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2358341
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2358341
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2358341
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2358341
Toluene	108-88-3	92.10	0.500	1.88	5.89	22.2		1	WG2358341
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2358341

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	6.33	34.4		1	WG2358341
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2358341
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2358341
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	5.53	27.1		1	WG2358341
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	1.41	6.92		1	WG2358341
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	4.54	21.2		1	WG2358341
Vinyl chloride	75-01-4	62.50	0.200	0.511	13.1	33.5		1	WG2358341
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2358341
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2358341
Xylenes, Total	1330-20-7	106.16	0.600	2.61	20.6	89.4		1	WG2358341
m&p-Xylene	179601-23-1	106	0.400	1.73	14.3	62.0		1	WG2358341
o-Xylene	95-47-6	106	0.200	0.867	6.29	27.3		1	WG2358341
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		103				WG2358341

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4118238-3 09/08/24 10:31

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.400
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.630
Ethanol	U		0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4118238-3 09/08/24 10:31

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.400
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	0.179	U	0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.630
Xylenes, Total	U		0.135	0.600
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	93.7			60.0-140

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4118238-1 09/08/24 09:05 • (LCSD) R4118238-2 09/08/24 09:49

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	4.16	4.28	111	114	70.0-130			2.84	25
Allyl chloride	3.75	4.36	4.61	116	123	70.0-130			5.57	25
Benzene	3.75	3.70	3.88	98.7	103	70.0-130			4.75	25
Benzyl Chloride	3.75	4.06	4.17	108	111	70.0-152			2.67	25

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

(LCS) R4118238-1 09/08/24 09:05 • (LCSD) R4118238-2 09/08/24 09:49

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	3.52	3.68	93.9	98.1	70.0-130			4.44	25
Bromoform	3.75	3.63	3.68	96.8	98.1	70.0-130			1.37	25
Bromomethane	3.75	3.52	3.64	93.9	97.1	70.0-130			3.35	25
1,3-Butadiene	3.75	3.27	3.56	87.2	94.9	70.0-130			8.49	25
Carbon disulfide	7.50	7.14	7.45	95.2	99.3	70.0-130			4.25	25
Carbon tetrachloride	3.75	3.58	3.67	95.5	97.9	70.0-130			2.48	25
Chlorobenzene	3.75	3.58	3.83	95.5	102	70.0-130			6.75	25
Chloroethane	3.75	3.65	3.75	97.3	100	70.0-130			2.70	25
Chloroform	3.75	3.52	3.73	93.9	99.5	70.0-130			5.79	25
Chloromethane	3.75	3.42	3.51	91.2	93.6	70.0-130			2.60	25
2-Chlorotoluene	3.75	3.70	3.84	98.7	102	70.0-130			3.71	25
Cyclohexane	3.75	4.32	4.36	115	116	70.0-130			0.922	25
Dibromochloromethane	3.75	3.63	3.68	96.8	98.1	70.0-130			1.37	25
1,2-Dibromoethane	3.75	3.84	3.78	102	101	70.0-130			1.57	25
1,2-Dichlorobenzene	3.75	3.89	3.99	104	106	70.0-130			2.54	25
1,3-Dichlorobenzene	3.75	3.97	3.98	106	106	70.0-130			0.252	25
1,4-Dichlorobenzene	3.75	3.88	3.96	103	106	70.0-130			2.04	25
1,2-Dichloroethane	3.75	3.42	3.59	91.2	95.7	70.0-130			4.85	25
1,1-Dichloroethane	3.75	3.51	3.78	93.6	101	70.0-130			7.41	25
1,1-Dichloroethene	3.75	4.04	4.18	108	111	70.0-130			3.41	25
cis-1,2-Dichloroethene	3.75	3.79	3.83	101	102	70.0-130			1.05	25
trans-1,2-Dichloroethene	3.75	3.69	3.74	98.4	99.7	70.0-130			1.35	25
1,2-Dichloropropane	3.75	3.74	3.87	99.7	103	70.0-130			3.42	25
cis-1,3-Dichloropropene	3.75	4.08	4.26	109	114	70.0-130			4.32	25
trans-1,3-Dichloropropene	3.75	4.01	4.04	107	108	70.0-130			0.745	25
1,4-Dioxane	3.75	4.14	4.42	110	118	70.0-140			6.54	25
Ethanol	3.75	3.32	3.55	88.5	94.7	55.0-148			6.70	25
Ethylbenzene	3.75	3.91	3.89	104	104	70.0-130			0.513	25
4-Ethyltoluene	3.75	4.11	4.16	110	111	70.0-130			1.21	25
Trichlorofluoromethane	3.75	3.32	3.47	88.5	92.5	70.0-130			4.42	25
Dichlorodifluoromethane	3.75	3.13	3.23	83.5	86.1	64.0-139			3.14	25
1,1,2-Trichlorotrifluoroethane	3.75	3.56	4.08	94.9	109	70.0-130			13.6	25
1,2-Dichlorotetrafluoroethane	3.75	3.44	3.64	91.7	97.1	70.0-130			5.65	25
Heptane	3.75	4.16	4.27	111	114	70.0-130			2.61	25
Hexachloro-1,3-butadiene	3.75	4.05	4.16	108	111	70.0-151			2.68	25
n-Hexane	3.75	4.09	4.20	109	112	70.0-130			2.65	25
Isopropylbenzene	3.75	4.18	4.21	111	112	70.0-130			0.715	25
Methylene Chloride	3.75	3.34	3.56	89.1	94.9	70.0-130			6.38	25
Methyl Butyl Ketone	3.75	3.93	4.18	105	111	70.0-149			6.17	25
2-Butanone (MEK)	3.75	4.05	4.17	108	111	70.0-130			2.92	25

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4118238-1 09/08/24 09:05 • (LCSD) R4118238-2 09/08/24 09:49

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	3.87	4.02	103	107	70.0-139			3.80	25
Methyl methacrylate	3.75	4.14	4.26	110	114	70.0-130			2.86	25
MTBE	3.75	3.98	4.00	106	107	70.0-130			0.501	25
Naphthalene	3.75	4.39	4.50	117	120	70.0-159			2.47	25
2-Propanol	3.75	3.65	3.90	97.3	104	70.0-139			6.62	25
Propene	3.75	3.51	3.56	93.6	94.9	64.0-144			1.41	25
Styrene	7.50	8.34	8.47	111	113	70.0-130			1.55	25
1,1,2,2-Tetrachloroethane	3.75	3.72	3.69	99.2	98.4	70.0-130			0.810	25
Tetrachloroethylene	3.75	3.85	3.94	103	105	70.0-130			2.31	25
Tetrahydrofuran	3.75	3.83	3.96	102	106	70.0-137			3.34	25
Toluene	3.75	3.94	3.99	105	106	70.0-130			1.26	25
1,2,4-Trichlorobenzene	3.75	4.26	4.47	114	119	70.0-160			4.81	25
1,1,1-Trichloroethane	3.75	3.69	3.80	98.4	101	70.0-130			2.94	25
1,1,2-Trichloroethane	3.75	3.78	3.93	101	105	70.0-130			3.89	25
Trichloroethylene	3.75	3.76	3.87	100	103	70.0-130			2.88	25
1,2,4-Trimethylbenzene	3.75	4.23	4.29	113	114	70.0-130			1.41	25
1,3,5-Trimethylbenzene	3.75	3.91	4.07	104	109	70.0-130			4.01	25
2,2,4-Trimethylpentane	3.75	4.03	4.13	107	110	70.0-130			2.45	25
Vinyl chloride	3.75	3.49	3.60	93.1	96.0	70.0-130			3.10	25
Vinyl Bromide	3.75	3.55	3.65	94.7	97.3	70.0-130			2.78	25
Vinyl acetate	3.75	3.97	4.26	106	114	70.0-130			7.05	25
Xylenes, Total	11.3	12.1	12.2	107	108	70.0-130			0.823	25
m&p-Xylene	7.50	8.09	8.08	108	108	70.0-130			0.124	25
o-Xylene	3.75	3.97	4.13	106	110	70.0-130			3.95	25
(S) 1,4-Bromofluorobenzene				96.9	94.6	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

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCREDITATIONS & LOCATIONS

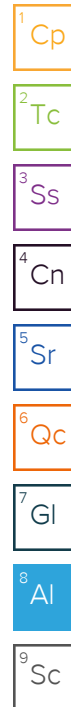
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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 Pace* Location Requested (City/State):		Air CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields		LAB USE ONLY- Affix Workorder/Login Label Here																																																																																																																																																																																																																																																																																													
Company Name: PES Environmental, Inc.- WA		Contact/Report To: Daniel Balbiani		Sample Receipt Checklist COC Seal Present/Intact: ☒ Y ☐ N Airs _____ COC Signed/Accurate: ☒ Y ☐ N Size: _____ 1L _____ 6L _____ 3 _____ 1.4L Bottles arrive intact: ☒ Y ☐ N Tag Color: G _____ W _____ Z _____ B _____ Correct bottles used: ☒ Y ☐ N Tubing _____ Shunt _____ Unused: <u>1</u> T/F #: _____																																																																																																																																																																																																																																																																																													
Street Address: 2101 Fourth Ave., Suite 1310 Seattle, WA 98121		Phone #: 206-529-3980 E-Mail: Daniel.balbani@nv5.com; sam.graber@nv5.com																																																																																																																																																																																																																																																																																															
City, State Zip: Customer Project #: 1413001.10.701.03		Cc E-Mail: sam.graber@nv5.com Invoice to:																																																																																																																																																																																																																																																																																															
Project Name: American Linen		Invoice E-Mail:																																																																																																																																																																																																																																																																																															
Site Collection Info/Facility ID (as applicable): PESENVSWA-ALP		Purchase Order # (if applicable): 443022-1413001.10.701 Quote #:		Field Information																																																																																																																																																																																																																																																																																													
Time Zone Collected: [] AK [X] PT [] MT [] CT [] ET		State origin of sample(s): WA																																																																																																																																																																																																																																																																																															
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: <u>ug/m³</u> <u>PPBV</u> <u>mg/m³</u> <u>PPMV</u>		Analyses Requested Proj. Manager: 3768 - Jordan Dozier AcctNum / Client ID: PESFNVSWA Table #: M068 Profile / Template: T259027 Prelog / Bottle Ord. ID: P1097037 U7F5305 Sample Comment																																																																																																																																																																																																																																																																																											
* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)		Canister Pressure / Vacuum		PUF / FILTER																																																																																																																																																																																																																																																																																													
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Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace* Terms and Conditions found at <https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/>

DVR Memos

MEMORANDUM

TO: Project File **DATE:** September 23, 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 Q3 2024 – Soil Vapor Samples
LAB: Pace Sample Delivery Group (SDG): L1775305

Three soil vapor samples (including one field duplicate) were collected as part of the 2024 quarterly (Q3) monitoring event at the Former American Linen Supply Site, in Seattle, Washington on September 6, 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 second quarter of RI groundwater and soil vapor sampling were conducted September of 2024. Results for groundwater are reported by Pace. The quality assurance review of the soil vapor extraction sample data associated with SDG L1775305 is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria 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) with the following exceptions:

- Analytical Batch WG2358341: A low level of toluene (0.179 ppbv) is detected below the RDL (0.500 ppbv) in the method blank. No action is needed since all associated sample toluene detections are above the RDL.

Trip Blank Results

A trip blank is not required for the VOCs by TO-15 analyses.

Field Duplicate Analyses

Field duplicates (SV-18-090624 and SV-911-090624) 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) with the following exceptions:

- Field duplicate results for VOCs (acetone, carbon disulfide, and ethyl acetate) are not comparable and exceed absolute difference criteria. **The above-mentioned target analyte results for samples SV-18-090624 and SV-911-090624 are estimated and qualified (UJ/J).**

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 ($\mu\text{g}/\text{m}^3$). 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.