2024 Q4

GROUNDWATER

Pace Lab Reports

ANALYTICAL REPORT

November 14, 2024

PES Environmental, Inc.- WA

Sample Delivery Group:	L1795998
Samples Received:	11/06/2024
Project Number:	1413001.10.603.04
Description:	American Linen

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

Entire Report Reviewed By:

J Dozier

Jordan Dozier
Project Manager

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MW-348-110524 L1795998-01 GW

Collected by	Collected date/time	Received date/time
	11/05/24 11:49	11/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2396403	1	11/06/24 14:08	11/06/24 14:08	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2396409	1	11/06/24 16:15	11/06/24 16:15	AJC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2396597	1	11/06/24 19:12	11/06/24 19:12	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2398247	1	11/12/24 10:18	11/13/24 21:56	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2398526	1	11/09/24 23:18	11/09/24 23:18	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2398934	10	11/10/24 01:32	11/10/24 01:32	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2399074	1	11/10/24 15:51	11/10/24 15:51	JAH	Mt. Juliet, TN

MW-346-110524 L1795998-02 GW

Collected by	Collected date/time	Received date/time
	11/05/24 14:17	11/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2396469	1	11/06/24 13:21	11/06/24 13:21	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2396409	1	11/06/24 17:05	11/06/24 17:05	AJC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2396597	1	11/06/24 20:01	11/06/24 20:01	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2398247	1	11/12/24 10:18	11/13/24 22:00	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2398526	1	11/09/24 23:27	11/09/24 23:27	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2399074	1	11/10/24 16:10	11/10/24 16:10	JAH	Mt. Juliet, TN

MW-993-110524 L1795998-03 GW

Collected by	Collected date/time	Received date/time
	11/05/24 11:11	11/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2396469	1	11/06/24 13:27	11/06/24 13:27	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2396409	1	11/06/24 17:56	11/06/24 17:56	AJC	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2396597	1	11/06/24 20:37	11/06/24 20:37	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2398247	1	11/12/24 10:18	11/13/24 22:22	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2398526	1	11/09/24 23:33	11/09/24 23:33	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2399074	1	11/10/24 16:29	11/10/24 16:29	JAH	Mt. Juliet, TN

TB-110524 L1795998-04 GW

Collected by	Collected date/time	Received date/time
	11/05/24 00:00	11/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2399074	1	11/10/24 11:32	11/10/24 11:32	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

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	228000		4750	20000	1	11/06/2024 14:08	WG2396403

Sample Narrative:

L1795998-01 WG2396403: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	16100		547	1000	1	11/06/2024 16:15	WG2396409
Nitrate as (N)	U		88.4	100	1	11/06/2024 16:15	WG2396409
Sulfate	66400	J6	637	5000	1	11/06/2024 16:15	WG2396409

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	22400		495	1000	1	11/06/2024 19:12	WG2396597

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2540		22.6	100	1	11/13/2024 21:56	WG2398247
Manganese	166		0.700	5.00	1	11/13/2024 21:56	WG2398247

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	26300		2.87	6.78	10	11/10/2024 01:32	WG2398934
Ethane	16.2		0.296	1.29	1	11/09/2024 23:18	WG2398526
Ethene	118		0.422	1.27	1	11/09/2024 23:18	WG2398526

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	115	C5	0.548	1.00	1	11/10/2024 15:51	WG2399074
Acrylonitrile	U	J4	0.0760	0.500	1	11/10/2024 15:51	WG2399074
Benzene	0.0200	J	0.0160	0.0400	1	11/10/2024 15:51	WG2399074
Bromobenzene	U		0.0420	0.500	1	11/10/2024 15:51	WG2399074
Bromochloromethane	U		0.0452	0.200	1	11/10/2024 15:51	WG2399074
Bromodichloromethane	U		0.0315	0.100	1	11/10/2024 15:51	WG2399074
Bromoform	U		0.239	1.00	1	11/10/2024 15:51	WG2399074
Bromomethane	U		0.148	0.500	1	11/10/2024 15:51	WG2399074
n-Butylbenzene	U		0.153	0.500	1	11/10/2024 15:51	WG2399074
sec-Butylbenzene	U		0.101	0.500	1	11/10/2024 15:51	WG2399074
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2024 15:51	WG2399074
Carbon disulfide	0.350	J	0.162	0.500	1	11/10/2024 15:51	WG2399074
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2024 15:51	WG2399074
Chlorobenzene	U		0.0229	0.100	1	11/10/2024 15:51	WG2399074
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2024 15:51	WG2399074
Chloroethane	U		0.0432	0.200	1	11/10/2024 15:51	WG2399074
Chloroform	U		0.0166	0.100	1	11/10/2024 15:51	WG2399074
Chloromethane	U		0.0556	0.500	1	11/10/2024 15:51	WG2399074
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2024 15:51	WG2399074
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2024 15:51	WG2399074

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2024 15:51	WG2399074
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2024 15:51	WG2399074
Dibromomethane	U		0.0400	0.200	1	11/10/2024 15:51	WG2399074
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2024 15:51	WG2399074
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2024 15:51	WG2399074
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2024 15:51	WG2399074
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/10/2024 15:51	WG2399074
Dichlorodifluoromethane	U		0.0327	0.200	1	11/10/2024 15:51	WG2399074
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2024 15:51	WG2399074
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2024 15:51	WG2399074
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2024 15:51	WG2399074
cis-1,2-Dichloroethene	0.869		0.0276	0.100	1	11/10/2024 15:51	WG2399074
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2024 15:51	WG2399074
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2024 15:51	WG2399074
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2024 15:51	WG2399074
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2024 15:51	WG2399074
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2024 15:51	WG2399074
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2024 15:51	WG2399074
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2024 15:51	WG2399074
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2024 15:51	WG2399074
Ethylbenzene	U		0.0212	0.100	1	11/10/2024 15:51	WG2399074
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2024 15:51	WG2399074
2-Hexanone	U		0.400	1.00	1	11/10/2024 15:51	WG2399074
n-Hexane	U		0.0424	0.200	1	11/10/2024 15:51	WG2399074
Iodomethane	U		0.242	0.500	1	11/10/2024 15:51	WG2399074
Isopropylbenzene	U		0.0345	0.100	1	11/10/2024 15:51	WG2399074
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2024 15:51	WG2399074
2-Butanone (MEK)	1.53		0.500	1.00	1	11/10/2024 15:51	WG2399074
Methylene Chloride	U		0.265	1.00	1	11/10/2024 15:51	WG2399074
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2024 15:51	WG2399074
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2024 15:51	WG2399074
Naphthalene	U	C3	0.124	0.500	1	11/10/2024 15:51	WG2399074
n-Propylbenzene	U		0.0472	0.200	1	11/10/2024 15:51	WG2399074
Styrene	U		0.109	0.500	1	11/10/2024 15:51	WG2399074
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2024 15:51	WG2399074
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2024 15:51	WG2399074
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 15:51	WG2399074
Tetrachloroethene	U		0.0280	0.100	1	11/10/2024 15:51	WG2399074
Toluene	U		0.0500	0.200	1	11/10/2024 15:51	WG2399074
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 15:51	WG2399074
1,2,4-Trichlorobenzene	U	C3 J3	0.193	0.500	1	11/10/2024 15:51	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 15:51	WG2399074
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 15:51	WG2399074
Trichloroethene	0.0470		0.0160	0.0400	1	11/10/2024 15:51	WG2399074
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 15:51	WG2399074
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 15:51	WG2399074
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2024 15:51	WG2399074
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 15:51	WG2399074
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 15:51	WG2399074
Vinyl acetate	U		0.141	0.500	1	11/10/2024 15:51	WG2399074
Vinyl chloride	2.32		0.0273	0.100	1	11/10/2024 15:51	WG2399074
Xylenes, Total	U		0.191	0.260	1	11/10/2024 15:51	WG2399074
(S) Toluene-d8	*103*			*75.0-131*		*11/10/2024 15:51*	WG2399074
(S) 4-Bromofluorobenzene	*98.1*			*67.0-138*		*11/10/2024 15:51*	WG2399074
(S) 1,2-Dichloroethane-d4	*92.3*			*70.0-130*		*11/10/2024 15:51*	WG2399074

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	192000		4750	20000	1	11/06/2024 13:21	WG2396469

Sample Narrative:

L1795998-02 WG2396469: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	28400		547	1000	1	11/06/2024 17:05	WG2396409
Nitrate as (N)	U		88.4	100	1	11/06/2024 17:05	WG2396409
Sulfate	84500		637	5000	1	11/06/2024 17:05	WG2396409

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1680		495	1000	1	11/06/2024 20:01	WG2396597

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	710		22.6	100	1	11/13/2024 22:00	WG2398247
Manganese	157		0.700	5.00	1	11/13/2024 22:00	WG2398247

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	634		0.287	0.678	1	11/09/2024 23:27	WG2398526
Ethane	U		0.296	1.29	1	11/09/2024 23:27	WG2398526
Ethene	2.87		0.422	1.27	1	11/09/2024 23:27	WG2398526

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.15	B C5	0.548	1.00	1	11/10/2024 16:10	WG2399074
Acrylonitrile	U	J4	0.0760	0.500	1	11/10/2024 16:10	WG2399074
Benzene	U		0.0160	0.0400	1	11/10/2024 16:10	WG2399074
Bromobenzene	U		0.0420	0.500	1	11/10/2024 16:10	WG2399074
Bromochloromethane	U		0.0452	0.200	1	11/10/2024 16:10	WG2399074
Bromodichloromethane	U		0.0315	0.100	1	11/10/2024 16:10	WG2399074
Bromoform	U		0.239	1.00	1	11/10/2024 16:10	WG2399074
Bromomethane	U		0.148	0.500	1	11/10/2024 16:10	WG2399074
n-Butylbenzene	U		0.153	0.500	1	11/10/2024 16:10	WG2399074
sec-Butylbenzene	U		0.101	0.500	1	11/10/2024 16:10	WG2399074
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2024 16:10	WG2399074
Carbon disulfide	U		0.162	0.500	1	11/10/2024 16:10	WG2399074
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2024 16:10	WG2399074
Chlorobenzene	U		0.0229	0.100	1	11/10/2024 16:10	WG2399074
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2024 16:10	WG2399074
Chloroethane	U		0.0432	0.200	1	11/10/2024 16:10	WG2399074
Chloroform	U		0.0166	0.100	1	11/10/2024 16:10	WG2399074
Chloromethane	U		0.0556	0.500	1	11/10/2024 16:10	WG2399074
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2024 16:10	WG2399074
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2024 16:10	WG2399074

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2024 16:10	WG2399074
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2024 16:10	WG2399074
Dibromomethane	U		0.0400	0.200	1	11/10/2024 16:10	WG2399074
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2024 16:10	WG2399074
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2024 16:10	WG2399074
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2024 16:10	WG2399074
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/10/2024 16:10	WG2399074
Dichlorodifluoromethane	U		0.0327	0.200	1	11/10/2024 16:10	WG2399074
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2024 16:10	WG2399074
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2024 16:10	WG2399074
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2024 16:10	WG2399074
cis-1,2-Dichloroethene	1.36		0.0276	0.100	1	11/10/2024 16:10	WG2399074
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2024 16:10	WG2399074
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2024 16:10	WG2399074
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2024 16:10	WG2399074
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2024 16:10	WG2399074
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2024 16:10	WG2399074
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2024 16:10	WG2399074
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2024 16:10	WG2399074
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2024 16:10	WG2399074
Ethylbenzene	U		0.0212	0.100	1	11/10/2024 16:10	WG2399074
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2024 16:10	WG2399074
2-Hexanone	U		0.400	1.00	1	11/10/2024 16:10	WG2399074
n-Hexane	U		0.0424	0.200	1	11/10/2024 16:10	WG2399074
Iodomethane	U		0.242	0.500	1	11/10/2024 16:10	WG2399074
Isopropylbenzene	U		0.0345	0.100	1	11/10/2024 16:10	WG2399074
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2024 16:10	WG2399074
2-Butanone (MEK)	U		0.500	1.00	1	11/10/2024 16:10	WG2399074
Methylene Chloride	U		0.265	1.00	1	11/10/2024 16:10	WG2399074
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2024 16:10	WG2399074
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2024 16:10	WG2399074
Naphthalene	U	C3	0.124	0.500	1	11/10/2024 16:10	WG2399074
n-Propylbenzene	U		0.0472	0.200	1	11/10/2024 16:10	WG2399074
Styrene	U		0.109	0.500	1	11/10/2024 16:10	WG2399074
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2024 16:10	WG2399074
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2024 16:10	WG2399074
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 16:10	WG2399074
Tetrachloroethene	U		0.0280	0.100	1	11/10/2024 16:10	WG2399074
Toluene	U		0.0500	0.200	1	11/10/2024 16:10	WG2399074
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 16:10	WG2399074
1,2,4-Trichlorobenzene	U	C3 J3	0.193	0.500	1	11/10/2024 16:10	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 16:10	WG2399074
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 16:10	WG2399074
Trichloroethene	0.284		0.0160	0.0400	1	11/10/2024 16:10	WG2399074
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 16:10	WG2399074
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 16:10	WG2399074
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2024 16:10	WG2399074
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 16:10	WG2399074
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 16:10	WG2399074
Vinyl acetate	U		0.141	0.500	1	11/10/2024 16:10	WG2399074
Vinyl chloride	1.20		0.0273	0.100	1	11/10/2024 16:10	WG2399074
Xylenes, Total	U		0.191	0.260	1	11/10/2024 16:10	WG2399074
(S) Toluene-d8	*98.8*			*75.0-131*		*11/10/2024 16:10*	WG2399074
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*		*11/10/2024 16:10*	WG2399074
(S) 1,2-Dichloroethane-d4	*92.7*			*70.0-130*		*11/10/2024 16:10*	WG2399074

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

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	191000		4750	20000	1	11/06/2024 13:27	WG2396469

Sample Narrative:
L1795998-03 WG2396469: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	28400		547	1000	1	11/06/2024 17:56	WG2396409
Nitrate as (N)	U		88.4	100	1	11/06/2024 17:56	WG2396409
Sulfate	84100		637	5000	1	11/06/2024 17:56	WG2396409

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1850		495	1000	1	11/06/2024 20:37	WG2396597

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	549		22.6	100	1	11/13/2024 22:22	WG2398247
Manganese	155		0.700	5.00	1	11/13/2024 22:22	WG2398247

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	529		0.287	0.678	1	11/09/2024 23:33	WG2398526
Ethane	1.73		0.296	1.29	1	11/09/2024 23:33	WG2398526
Ethene	4.25		0.422	1.27	1	11/09/2024 23:33	WG2398526

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.18	B C5	0.548	1.00	1	11/10/2024 16:29	WG2399074
Acrylonitrile	U	J4	0.0760	0.500	1	11/10/2024 16:29	WG2399074
Benzene	U		0.0160	0.0400	1	11/10/2024 16:29	WG2399074
Bromobenzene	U		0.0420	0.500	1	11/10/2024 16:29	WG2399074
Bromochloromethane	U		0.0452	0.200	1	11/10/2024 16:29	WG2399074
Bromodichloromethane	U		0.0315	0.100	1	11/10/2024 16:29	WG2399074
Bromoform	U		0.239	1.00	1	11/10/2024 16:29	WG2399074
Bromomethane	U		0.148	0.500	1	11/10/2024 16:29	WG2399074
n-Butylbenzene	U		0.153	0.500	1	11/10/2024 16:29	WG2399074
sec-Butylbenzene	U		0.101	0.500	1	11/10/2024 16:29	WG2399074
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2024 16:29	WG2399074
Carbon disulfide	U		0.162	0.500	1	11/10/2024 16:29	WG2399074
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2024 16:29	WG2399074
Chlorobenzene	U		0.0229	0.100	1	11/10/2024 16:29	WG2399074
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2024 16:29	WG2399074
Chloroethane	U		0.0432	0.200	1	11/10/2024 16:29	WG2399074
Chloroform	U		0.0166	0.100	1	11/10/2024 16:29	WG2399074
Chloromethane	U		0.0556	0.500	1	11/10/2024 16:29	WG2399074
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2024 16:29	WG2399074
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2024 16:29	WG2399074

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2024 16:29	WG2399074
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2024 16:29	WG2399074
Dibromomethane	U		0.0400	0.200	1	11/10/2024 16:29	WG2399074
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2024 16:29	WG2399074
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2024 16:29	WG2399074
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2024 16:29	WG2399074
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/10/2024 16:29	WG2399074
Dichlorodifluoromethane	U		0.0327	0.200	1	11/10/2024 16:29	WG2399074
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2024 16:29	WG2399074
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2024 16:29	WG2399074
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2024 16:29	WG2399074
cis-1,2-Dichloroethene	1.34		0.0276	0.100	1	11/10/2024 16:29	WG2399074
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2024 16:29	WG2399074
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2024 16:29	WG2399074
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2024 16:29	WG2399074
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2024 16:29	WG2399074
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2024 16:29	WG2399074
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2024 16:29	WG2399074
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2024 16:29	WG2399074
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2024 16:29	WG2399074
Ethylbenzene	U		0.0212	0.100	1	11/10/2024 16:29	WG2399074
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2024 16:29	WG2399074
2-Hexanone	U		0.400	1.00	1	11/10/2024 16:29	WG2399074
n-Hexane	U		0.0424	0.200	1	11/10/2024 16:29	WG2399074
Iodomethane	U		0.242	0.500	1	11/10/2024 16:29	WG2399074
Isopropylbenzene	U		0.0345	0.100	1	11/10/2024 16:29	WG2399074
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2024 16:29	WG2399074
2-Butanone (MEK)	U		0.500	1.00	1	11/10/2024 16:29	WG2399074
Methylene Chloride	U		0.265	1.00	1	11/10/2024 16:29	WG2399074
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2024 16:29	WG2399074
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2024 16:29	WG2399074
Naphthalene	U	C3	0.124	0.500	1	11/10/2024 16:29	WG2399074
n-Propylbenzene	U		0.0472	0.200	1	11/10/2024 16:29	WG2399074
Styrene	U		0.109	0.500	1	11/10/2024 16:29	WG2399074
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2024 16:29	WG2399074
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2024 16:29	WG2399074
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 16:29	WG2399074
Tetrachloroethene	U		0.0280	0.100	1	11/10/2024 16:29	WG2399074
Toluene	U		0.0500	0.200	1	11/10/2024 16:29	WG2399074
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 16:29	WG2399074
1,2,4-Trichlorobenzene	U	C3 J3	0.193	0.500	1	11/10/2024 16:29	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 16:29	WG2399074
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 16:29	WG2399074
Trichloroethene	0.323		0.0160	0.0400	1	11/10/2024 16:29	WG2399074
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 16:29	WG2399074
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 16:29	WG2399074
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2024 16:29	WG2399074
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 16:29	WG2399074
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 16:29	WG2399074
Vinyl acetate	U		0.141	0.500	1	11/10/2024 16:29	WG2399074
Vinyl chloride	1.16		0.0273	0.100	1	11/10/2024 16:29	WG2399074
Xylenes, Total	U		0.191	0.260	1	11/10/2024 16:29	WG2399074
(S) Toluene-d8	*101*			*75.0-131*		*11/10/2024 16:29*	WG2399074
(S) 4-Bromofluorobenzene	*97.4*			*67.0-138*		*11/10/2024 16:29*	WG2399074
(S) 1,2-Dichloroethane-d4	*91.6*			*70.0-130*		*11/10/2024 16:29*	WG2399074

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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	8.75	C5	0.548	1.00	1	11/10/2024 11:32	WG2399074
Acrylonitrile	U	J4	0.0760	0.500	1	11/10/2024 11:32	WG2399074
Benzene	U		0.0160	0.0400	1	11/10/2024 11:32	WG2399074
Bromobenzene	U		0.0420	0.500	1	11/10/2024 11:32	WG2399074
Bromochloromethane	U		0.0452	0.200	1	11/10/2024 11:32	WG2399074
Bromodichloromethane	U		0.0315	0.100	1	11/10/2024 11:32	WG2399074
Bromoform	U		0.239	1.00	1	11/10/2024 11:32	WG2399074
Bromomethane	U		0.148	0.500	1	11/10/2024 11:32	WG2399074
n-Butylbenzene	U		0.153	0.500	1	11/10/2024 11:32	WG2399074
sec-Butylbenzene	U		0.101	0.500	1	11/10/2024 11:32	WG2399074
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2024 11:32	WG2399074
Carbon disulfide	U		0.162	0.500	1	11/10/2024 11:32	WG2399074
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2024 11:32	WG2399074
Chlorobenzene	U		0.0229	0.100	1	11/10/2024 11:32	WG2399074
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2024 11:32	WG2399074
Chloroethane	U		0.0432	0.200	1	11/10/2024 11:32	WG2399074
Chloroform	U		0.0166	0.100	1	11/10/2024 11:32	WG2399074
Chloromethane	U		0.0556	0.500	1	11/10/2024 11:32	WG2399074
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2024 11:32	WG2399074
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2024 11:32	WG2399074
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2024 11:32	WG2399074
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2024 11:32	WG2399074
Dibromomethane	U		0.0400	0.200	1	11/10/2024 11:32	WG2399074
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2024 11:32	WG2399074
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2024 11:32	WG2399074
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2024 11:32	WG2399074
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/10/2024 11:32	WG2399074
Dichlorodifluoromethane	U		0.0327	0.200	1	11/10/2024 11:32	WG2399074
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2024 11:32	WG2399074
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2024 11:32	WG2399074
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2024 11:32	WG2399074
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/10/2024 11:32	WG2399074
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2024 11:32	WG2399074
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2024 11:32	WG2399074
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2024 11:32	WG2399074
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2024 11:32	WG2399074
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2024 11:32	WG2399074
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2024 11:32	WG2399074
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2024 11:32	WG2399074
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2024 11:32	WG2399074
Ethylbenzene	U		0.0212	0.100	1	11/10/2024 11:32	WG2399074
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2024 11:32	WG2399074
2-Hexanone	U		0.400	1.00	1	11/10/2024 11:32	WG2399074
n-Hexane	U		0.0424	0.200	1	11/10/2024 11:32	WG2399074
Iodomethane	U		0.242	0.500	1	11/10/2024 11:32	WG2399074
Isopropylbenzene	U		0.0345	0.100	1	11/10/2024 11:32	WG2399074
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2024 11:32	WG2399074
2-Butanone (MEK)	U		0.500	1.00	1	11/10/2024 11:32	WG2399074
Methylene Chloride	U		0.265	1.00	1	11/10/2024 11:32	WG2399074
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2024 11:32	WG2399074
Methyl tert-butyl ether	0.0240	J	0.0118	0.0400	1	11/10/2024 11:32	WG2399074
Naphthalene	U	C3	0.124	0.500	1	11/10/2024 11:32	WG2399074
n-Propylbenzene	U		0.0472	0.200	1	11/10/2024 11:32	WG2399074
Styrene	U		0.109	0.500	1	11/10/2024 11:32	WG2399074
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2024 11:32	WG2399074
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2024 11:32	WG2399074

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 11:32	WG2399074
Tetrachloroethene	U		0.0280	0.100	1	11/10/2024 11:32	WG2399074
Toluene	0.0790	J	0.0500	0.200	1	11/10/2024 11:32	WG2399074
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 11:32	WG2399074
1,2,4-Trichlorobenzene	U	C3 J3	0.193	0.500	1	11/10/2024 11:32	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 11:32	WG2399074
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 11:32	WG2399074
Trichloroethene	U		0.0160	0.0400	1	11/10/2024 11:32	WG2399074
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 11:32	WG2399074
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 11:32	WG2399074
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2024 11:32	WG2399074
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 11:32	WG2399074
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 11:32	WG2399074
Vinyl acetate	U		0.141	0.500	1	11/10/2024 11:32	WG2399074
Vinyl chloride	U		0.0273	0.100	1	11/10/2024 11:32	WG2399074
Xylenes, Total	U		0.191	0.260	1	11/10/2024 11:32	WG2399074
(S) Toluene-d8	*102*			*75.0-131*		*11/10/2024 11:32*	WG2399074
(S) 4-Bromofluorobenzene	*98.8*			*67.0-138*		*11/10/2024 11:32*	WG2399074
(S) 1,2-Dichloroethane-d4	*92.3*			*70.0-130*		*11/10/2024 11:32*	WG2399074

Method Blank (MB)

(MB) R4142764-2 11/06/24 11:21

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1795142-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1795142-12 11/06/24 11:32 • (DUP) R4142764-3 11/06/24 11:37

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	47600	46700	1	1.94		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1795922-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1795922-01 11/06/24 13:46 • (DUP) R4142764-4 11/06/24 13:52

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	219000	217000	1	1.03		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4142764-1 11/06/24 11:14

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

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4142885-2 11/06/24 12:37

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1796006-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1796006-01 11/06/24 12:46 • (DUP) R4142885-3 11/06/24 12:52

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	367000	364000	1	0.846		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1796041-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1796041-01 11/06/24 14:48 • (DUP) R4142885-4 11/06/24 14:54

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	18700	19300	1	3.18	J	20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4142885-1 11/06/24 12:29

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

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4143416-1 11/06/24 13:26

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

L1795998-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1795998-01 11/06/24 16:15 • (DUP) R4143416-3 11/06/24 16:32

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	16100	16100	1	0.0317		15
Nitrate as (N)	U	U	1	0.000		15
Sulfate	66400	66300	1	0.0556		15

L1796003-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1796003-03 11/06/24 20:12 • (DUP) R4143416-8 11/06/24 21:20

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate as (N)	361	365	1	1.05		15

L1796003-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1796003-03 11/06/24 21:03 • (DUP) R4143416-9 11/06/24 21:37

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	214000	214000	10	0.253		15
Sulfate	811000	814000	10	0.293		15

Laboratory Control Sample (LCS)

(LCS) R4143416-2 11/06/24 13:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	37000	92.5	80.0-120	
Nitrate as (N)	8000	7710	96.4	80.0-120	
Sulfate	40000	37800	94.4	80.0-120	

L1795998-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1795998-01 11/06/24 16:15 • (MS) R4143416-4 11/06/24 16:49

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	16100	49800	84.3	1	80.0-120	
Nitrate as (N)	8000	U	7580	94.7	1	80.0-120	
Sulfate	40000	66400	90700	60.9	1	80.0-120	J6

L1796003-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1796003-03 11/06/24 20:12 • (MS) R4143416-10 11/06/24 21:54 • (MSD) R4143416-11 11/06/24 22:11

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	213000	208000	208000	0.000	0.000	1	80.0-120	E V	E V	0.192	15
Nitrate as (N)	8000	361	7680	7930	91.5	94.6	1	80.0-120			3.15	15

QUALITY CONTROL SUMMARY

L1795998-01,02,03

Method Blank (MB)

(MB) R4143169-2 11/06/24 14:41

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

L1795911-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1795911-01 11/06/24 16:41 • (DUP) R4143169-5 11/06/24 16:56

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	24800	25300	1	1.92		20

L1795998-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1795998-02 11/06/24 20:01 • (DUP) R4143169-8 11/06/24 20:15

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	1680	1660	1	0.779		20

Laboratory Control Sample (LCS)

(LCS) R4143169-1 11/06/24 14:29

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25000	23800	95.2	85.0-115	

L1795879-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1795879-11 11/06/24 15:33 • (MS) R4143169-3 11/06/24 15:50 • (MSD) R4143169-4 11/06/24 16:11

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	U	24100	24200	96.4	96.8	1	85.0-115			0.331	20

L1795998-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1795998-01 11/06/24 19:12 • (MS) R4143169-6 11/06/24 19:30 • (MSD) R4143169-7 11/06/24 19:47

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	22400	47600	47400	101	100	1	85.0-115			0.421	20

Method Blank (MB)

(MB) R4145748-1 11/13/24 20:40

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

Laboratory Control Sample (LCS)

(LCS) R4145748-2 11/13/24 20:44

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	1000	975	97.5	80.0-120	
Manganese	50.0	48.0	96.1	80.0-120	

L1795860-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1795860-07 11/13/24 20:47 • (MS) R4145748-4 11/13/24 20:54 • (MSD) R4145748-5 11/13/24 20:57

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	1000	U	1000	998	100	99.8	1	75.0-125			0.494	20
Manganese	50.0	U	48.5	49.1	96.9	98.2	1	75.0-125			1.27	20

Method Blank (MB)

(MB) R4144132-2 11/09/24 20:19

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

L1795879-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1795879-10 11/09/24 22:37 • (DUP) R4144132-3 11/09/24 23:10

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

L1795999-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1795999-04 11/09/24 23:51 • (DUP) R4144132-4 11/10/24 01:06

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

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

(LCS) R4144132-1 11/09/24 20:01 • (LCSD) R4144132-5 11/10/24 01:29

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	67.4	77.4	99.4	114	85.0-115			13.8	20
Ethane	129	123	122	95.3	94.6	85.0-115			0.816	20
Ethene	127	123	121	96.9	95.3	85.0-115			1.64	20

Method Blank (MB)

(MB) R4144134-2 11/10/24 00:47

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

L1796040-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1796040-04 11/10/24 00:51 • (DUP) R4144134-3 11/10/24 02:09

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	25000	25600	10	2.37		20

L1795879-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1795879-02 11/10/24 02:13 • (DUP) R4144134-4 11/10/24 02:42

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	21700	21800	10	0.460		20

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

(LCS) R4144134-1 11/10/24 00:42 • (LCSD) R4144134-5 11/10/24 03:21

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	76.7	77.3	113	114	85.0-115			0.779	20

Method Blank (MB)

(MB) R4145457-3 11/10/24 10:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	0.792	J	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

Method Blank (MB)

(MB) R4145457-3 11/10/24 10:40

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	*102*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.8*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*92.2*			*70.0-130*

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

(LCS) R4145457-1 11/10/24 09:11 • (LCSD) R4145457-2 11/10/24 09:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	33.1	39.8	132	159	10.0-160			18.4	31
Acrylonitrile	25.0	35.4	40.9	142	164	45.0-153		J4	14.4	22
Benzene	5.00	5.29	5.48	106	110	70.0-123			3.53	20
Bromobenzene	5.00	4.65	4.65	93.0	93.0	73.0-121			0.000	20
Bromochloromethane	5.00	5.08	5.73	102	115	77.0-128			12.0	20
Bromodichloromethane	5.00	4.69	4.99	93.8	99.8	73.0-121			6.20	20
Bromoform	5.00	4.47	4.99	89.4	99.8	64.0-132			11.0	20
Bromomethane	5.00	4.15	4.28	83.0	85.6	56.0-147			3.08	20
n-Butylbenzene	5.00	4.24	4.73	84.8	94.6	68.0-135			10.9	20
sec-Butylbenzene	5.00	4.43	4.73	88.6	94.6	74.0-130			6.55	20
tert-Butylbenzene	5.00	4.42	4.63	88.4	92.6	75.0-127			4.64	20
Carbon disulfide	5.00	5.85	6.40	117	128	56.0-133			8.98	20
Carbon tetrachloride	5.00	5.70	6.32	114	126	66.0-128			10.3	20
Chlorobenzene	5.00	4.72	4.94	94.4	98.8	76.0-128			4.55	20
Chlorodibromomethane	5.00	4.49	4.80	89.8	96.0	74.0-127			6.67	20
Chloroethane	5.00	4.69	5.11	93.8	102	61.0-134			8.57	20
Chloroform	5.00	4.85	5.14	97.0	103	72.0-123			5.81	20
Chloromethane	5.00	4.06	4.15	81.2	83.0	51.0-138			2.19	20
2-Chlorotoluene	5.00	4.46	4.71	89.2	94.2	75.0-124			5.45	20
4-Chlorotoluene	5.00	4.34	4.38	86.8	87.6	75.0-124			0.917	20
1,2-Dibromo-3-Chloropropane	5.00	4.56	4.98	91.2	99.6	59.0-130			8.81	20
1,2-Dibromoethane	5.00	4.65	4.91	93.0	98.2	74.0-128			5.44	20
Dibromomethane	5.00	4.83	5.41	96.6	108	75.0-122			11.3	20
1,2-Dichlorobenzene	5.00	4.31	4.56	86.2	91.2	76.0-124			5.64	20
1,3-Dichlorobenzene	5.00	4.29	4.48	85.8	89.6	76.0-125			4.33	20
1,4-Dichlorobenzene	5.00	4.33	4.47	86.6	89.4	77.0-121			3.18	20
trans-1,4-Dichloro-2-butene	5.00	3.99	4.65	79.8	93.0	45.0-143			15.3	20
Dichlorodifluoromethane	5.00	7.05	6.97	141	139	43.0-156			1.14	20
1,1-Dichloroethane	5.00	5.26	5.60	105	112	70.0-127			6.26	20
1,2-Dichloroethane	5.00	4.87	5.36	97.4	107	65.0-131			9.58	20
1,1-Dichloroethene	5.00	5.68	5.94	114	119	65.0-131			4.48	20
cis-1,2-Dichloroethene	5.00	5.28	5.40	106	108	73.0-125			2.25	20
trans-1,2-Dichloroethene	5.00	5.04	5.62	101	112	71.0-125			10.9	20
1,2-Dichloropropane	5.00	5.29	5.43	106	109	74.0-125			2.61	20
1,1-Dichloropropene	5.00	5.70	5.78	114	116	73.0-125			1.39	20
1,3-Dichloropropane	5.00	4.71	4.81	94.2	96.2	80.0-125			2.10	20
cis-1,3-Dichloropropene	5.00	4.81	5.14	96.2	103	76.0-127			6.63	20
trans-1,3-Dichloropropene	5.00	4.53	4.74	90.6	94.8	73.0-127			4.53	20
2,2-Dichloropropane	5.00	5.14	5.93	103	119	59.0-135			14.3	20
Di-isopropyl ether	5.00	5.40	5.64	108	113	60.0-136			4.35	20

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

(LCS) R4145457-1 11/10/24 09:11 • (LCSD) R4145457-2 11/10/24 09:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	4.90	5.11	98.0	102	74.0-126			4.20	20
Hexachloro-1,3-butadiene	5.00	4.19	4.80	83.8	96.0	57.0-150			13.6	20
2-Hexanone	25.0	27.3	27.4	109	110	54.0-147			0.366	20
n-Hexane	5.00	6.13	6.20	123	124	55.0-137			1.14	20
Iodomethane	25.0	26.5	28.4	106	114	74.0-134			6.92	20
Isopropylbenzene	5.00	4.55	4.81	91.0	96.2	72.0-127			5.56	20
p-Isopropyltoluene	5.00	4.30	4.70	86.0	94.0	72.0-133			8.89	20
2-Butanone (MEK)	25.0	25.5	28.6	102	114	30.0-160			11.5	24
Methylene Chloride	5.00	5.46	5.52	109	110	68.0-123			1.09	20
4-Methyl-2-pentanone (MIBK)	25.0	27.2	28.6	109	114	56.0-143			5.02	20
Methyl tert-butyl ether	5.00	5.23	5.73	105	115	66.0-132			9.12	20
Naphthalene	5.00	3.46	4.00	69.2	80.0	59.0-130			14.5	20
n-Propylbenzene	5.00	4.77	4.92	95.4	98.4	74.0-126			3.10	20
Styrene	5.00	4.49	4.68	89.8	93.6	72.0-127			4.14	20
1,1,1,2-Tetrachloroethane	5.00	4.97	5.20	99.4	104	74.0-129			4.52	20
1,1,2,2-Tetrachloroethane	5.00	4.70	4.90	94.0	98.0	68.0-128			4.17	20
1,1,2-Trichlorotrifluoroethane	5.00	5.66	5.70	113	114	61.0-139			0.704	20
Tetrachloroethene	5.00	5.36	5.24	107	105	70.0-136			2.26	20
Toluene	5.00	5.06	5.14	101	103	75.0-121			1.57	20
1,2,3-Trichlorobenzene	5.00	4.01	4.52	80.2	90.4	59.0-139			12.0	20
1,2,4-Trichlorobenzene	5.00	3.74	4.61	74.8	92.2	62.0-137		J3	20.8	20
1,1,1-Trichloroethane	5.00	5.66	5.96	113	119	69.0-126			5.16	20
1,1,2-Trichloroethane	5.00	4.89	4.78	97.8	95.6	78.0-123			2.28	20
Trichloroethene	5.00	5.45	5.86	109	117	76.0-126			7.25	20
Trichlorofluoromethane	5.00	4.91	4.80	98.2	96.0	61.0-142	J	J	2.27	20
1,2,3-Trichloropropane	5.00	4.96	4.89	99.2	97.8	67.0-129			1.42	20
1,2,4-Trimethylbenzene	5.00	4.21	4.41	84.2	88.2	70.0-126			4.64	20
1,2,3-Trimethylbenzene	5.00	4.29	4.45	85.8	89.0	74.0-124			3.66	20
1,3,5-Trimethylbenzene	5.00	4.33	4.54	86.6	90.8	73.0-127			4.74	20
Vinyl acetate	25.0	31.7	31.7	127	127	43.0-159			0.000	20
Vinyl chloride	5.00	5.51	5.61	110	112	63.0-134			1.80	20
Xylenes, Total	15.0	14.1	14.8	94.0	98.7	72.0-127			4.84	20
(S) Toluene-d8				*101*	*99.2*	*75.0-131*				
(S) 4-Bromofluorobenzene				*95.9*	*99.0*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*93.2*	*94.8*	*70.0-130*				

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.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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	LAO000356
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

Report to: **Daniel Balbiani**

Email To: **Daniel.balbiani@nv5.com;sam.graber@nv5.com**

Project Description: **American Linen**

City/State Collected: **Seattle, WA**

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project # **1413001.10.603.04**

Lab Project # **PESENVSWA-ALP**

Collected by (print): **D.Del Grdice**

Site/Facility ID #

P.O. # **1413001.10.603.04**

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Date Results Needed

Quote #

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**Nitr,chl,sulf 9056 250mlHDPE NoPres	ALK 2320B 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	FE,MN total 6020 250mlHDPE-HNO3	TOC 9060 250mlAmb-HCl	VOCS 8260ULL 40mlAmb-HCl					Remarks	Sample # (lab only)
MW-348-110524	G	GW	—	11/5/24	1149	9	X	X	X	X	X	X						01
MW-346-110524	↓	GW			1417	9	X	X	X	X	X	X						02
MW-993-110524		GW			1111	9	X	X	X	X	X	X						03
TB-110524	↓	GW		↓	—	1						X						04
		GW																
		GW																
		GW																
		GW																
		GW																
		GW																

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace PEOPLE ADVANCING SCIENCE

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

P706998

SDG # L1794[illegible]

G102 11.8.24

Tab

Acctnum: **PESENVSWA**
Template: **T262759**
Prelogin: **P1112668**
PM: **3768 - Jordan Dozier**
PB:

Shipped Via: **FedEX Ground**

* 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 # 4212 6472 7446

Sample Receipt Checklist

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	11/5/24	1552			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preserva
				M/A 95.3+0.3=6 27	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
				11/6/24 901	

PH – 10BDH0941
TRC – 2352362

ANALYTICAL REPORT

December 13, 2024

Revised Report

PES Environmental, Inc.- WA

Sample Delivery Group:	L1796048
Samples Received:	11/06/2024
Project Number:	1413001.10.701.02
Description:	American Linen

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

Entire Report Reviewed By:

J Dozier

Jordan Dozier
Project Manager

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

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-330-110524 L1796048-01 GW

Collected by: D. Del G | Collected date/time: 11/05/24 10:11 | Received date/time: 11/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2399074	1	11/10/24 16:48	11/10/24 16:48	JAH	Mt. Juliet, TN

MW-301-110524 L1796048-02 GW

Collected by: D. Del G | Collected date/time: 11/05/24 11:22 | Received date/time: 11/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2399074	1	11/10/24 17:07	11/10/24 17:07	JAH	Mt. Juliet, TN

MW124-110524 L1796048-03 GW

Collected by: D. Del G | Collected date/time: 11/05/24 12:29 | Received date/time: 11/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2399074	1	11/10/24 17:26	11/10/24 17:26	JAH	Mt. Juliet, TN

MW125-110524 L1796048-04 GW

Collected by: D. Del G | Collected date/time: 11/05/24 13:20 | Received date/time: 11/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2399074	1	11/10/24 17:45	11/10/24 17:45	JAH	Mt. Juliet, TN

MW-189-110524 L1796048-05 GW

Collected by: D. Del G | Collected date/time: 11/05/24 14:32 | Received date/time: 11/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2396469	1	11/06/24 15:05	11/06/24 15:05	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2396422	1	11/06/24 21:33	11/06/24 21:33	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2396422	1	11/12/24 13:53	11/12/24 13:53	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2396689	1	11/07/24 18:12	11/07/24 18:12	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2398247	1	11/12/24 10:18	11/13/24 22:32	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2398527	1	11/09/24 20:59	11/09/24 20:59	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2399074	1	11/10/24 18:05	11/10/24 18:05	JAH	Mt. Juliet, TN

TB-110524 L1796048-06 GW

Collected by: D. Del G | Collected date/time: 11/05/24 00:00 | Received date/time: 11/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2399074	1	11/10/24 11:51	11/10/24 11:51	JAH	Mt. Juliet, TN

MW-156-110524 L1796048-07 GW

Collected by: D. Del G | Collected date/time: 11/05/24 12:25 | Received date/time: 11/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2396469	1	11/06/24 15:11	11/06/24 15:11	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2396422	1	11/06/24 21:46	11/06/24 21:46	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2396422	1	11/12/24 14:06	11/12/24 14:06	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2396689	1	11/07/24 18:32	11/07/24 18:32	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2398247	1	11/12/24 10:18	11/13/24 22:35	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2398527	1	11/09/24 22:24	11/09/24 22:24	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400357	20	11/13/24 08:46	11/13/24 08:46	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400944	20	11/17/24 16:29	11/17/24 16:29	JHH	Mt. Juliet, TN

SAMPLE SUMMARY

MW-158A-110524 L1796048-08 GW

Collected by: D. Del G
Collected date/time: 11/05/24 14:50
Received date/time: 11/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 04:27	11/13/24 04:27	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

Report Revision History

Level II Report - Version 1: 11/20/24 10:26

Project Narrative

ID

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.24	B C5	0.548	1.00	1	11/10/2024 16:48	WG2399074
Acrylonitrile	U	J4	0.0760	0.500	1	11/10/2024 16:48	WG2399074
Benzene	U		0.0160	0.0400	1	11/10/2024 16:48	WG2399074
Bromobenzene	U		0.0420	0.500	1	11/10/2024 16:48	WG2399074
Bromochloromethane	U		0.0452	0.200	1	11/10/2024 16:48	WG2399074
Bromodichloromethane	U		0.0315	0.100	1	11/10/2024 16:48	WG2399074
Bromoform	U		0.239	1.00	1	11/10/2024 16:48	WG2399074
Bromomethane	U		0.148	0.500	1	11/10/2024 16:48	WG2399074
n-Butylbenzene	U		0.153	0.500	1	11/10/2024 16:48	WG2399074
sec-Butylbenzene	U		0.101	0.500	1	11/10/2024 16:48	WG2399074
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2024 16:48	WG2399074
Carbon disulfide	U		0.162	0.500	1	11/10/2024 16:48	WG2399074
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2024 16:48	WG2399074
Chlorobenzene	U		0.0229	0.100	1	11/10/2024 16:48	WG2399074
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2024 16:48	WG2399074
Chloroethane	U		0.0432	0.200	1	11/10/2024 16:48	WG2399074
Chloroform	U		0.0166	0.100	1	11/10/2024 16:48	WG2399074
Chloromethane	U		0.0556	0.500	1	11/10/2024 16:48	WG2399074
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2024 16:48	WG2399074
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2024 16:48	WG2399074
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2024 16:48	WG2399074
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2024 16:48	WG2399074
Dibromomethane	U		0.0400	0.200	1	11/10/2024 16:48	WG2399074
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2024 16:48	WG2399074
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2024 16:48	WG2399074
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2024 16:48	WG2399074
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/10/2024 16:48	WG2399074
Dichlorodifluoromethane	U		0.0327	0.200	1	11/10/2024 16:48	WG2399074
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2024 16:48	WG2399074
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2024 16:48	WG2399074
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2024 16:48	WG2399074
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/10/2024 16:48	WG2399074
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2024 16:48	WG2399074
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2024 16:48	WG2399074
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2024 16:48	WG2399074
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2024 16:48	WG2399074
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2024 16:48	WG2399074
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2024 16:48	WG2399074
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2024 16:48	WG2399074
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2024 16:48	WG2399074
Ethylbenzene	U		0.0212	0.100	1	11/10/2024 16:48	WG2399074
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2024 16:48	WG2399074
2-Hexanone	U		0.400	1.00	1	11/10/2024 16:48	WG2399074
n-Hexane	U		0.0424	0.200	1	11/10/2024 16:48	WG2399074
Iodomethane	U		0.242	0.500	1	11/10/2024 16:48	WG2399074
Isopropylbenzene	U		0.0345	0.100	1	11/10/2024 16:48	WG2399074
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2024 16:48	WG2399074
2-Butanone (MEK)	U		0.500	1.00	1	11/10/2024 16:48	WG2399074
Methylene Chloride	U		0.265	1.00	1	11/10/2024 16:48	WG2399074
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2024 16:48	WG2399074
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2024 16:48	WG2399074
Naphthalene	U	C3	0.124	0.500	1	11/10/2024 16:48	WG2399074
n-Propylbenzene	U		0.0472	0.200	1	11/10/2024 16:48	WG2399074
Styrene	U		0.109	0.500	1	11/10/2024 16:48	WG2399074
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2024 16:48	WG2399074
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2024 16:48	WG2399074

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 16:48	WG2399074
Tetrachloroethene	U		0.0280	0.100	1	11/10/2024 16:48	WG2399074
Toluene	U		0.0500	0.200	1	11/10/2024 16:48	WG2399074
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 16:48	WG2399074
1,2,4-Trichlorobenzene	U	C3 J3	0.193	0.500	1	11/10/2024 16:48	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 16:48	WG2399074
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 16:48	WG2399074
Trichloroethene	0.0450		0.0160	0.0400	1	11/10/2024 16:48	WG2399074
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 16:48	WG2399074
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 16:48	WG2399074
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2024 16:48	WG2399074
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 16:48	WG2399074
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 16:48	WG2399074
Vinyl acetate	U		0.141	0.500	1	11/10/2024 16:48	WG2399074
Vinyl chloride	U		0.0273	0.100	1	11/10/2024 16:48	WG2399074
Xylenes, Total	U		0.191	0.260	1	11/10/2024 16:48	WG2399074
(S) Toluene-d8	*100*			*75.0-131*		*11/10/2024 16:48*	WG2399074
(S) 4-Bromofluorobenzene	*99.4*			*67.0-138*		*11/10/2024 16:48*	WG2399074
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*11/10/2024 16:48*	WG2399074

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	0.864	B J	0.548	1.00	1	11/10/2024 17:07	WG2399074
Acrylonitrile	U	J4	0.0760	0.500	1	11/10/2024 17:07	WG2399074
Benzene	U		0.0160	0.0400	1	11/10/2024 17:07	WG2399074
Bromobenzene	U		0.0420	0.500	1	11/10/2024 17:07	WG2399074
Bromochloromethane	U		0.0452	0.200	1	11/10/2024 17:07	WG2399074
Bromodichloromethane	U		0.0315	0.100	1	11/10/2024 17:07	WG2399074
Bromoform	U		0.239	1.00	1	11/10/2024 17:07	WG2399074
Bromomethane	U		0.148	0.500	1	11/10/2024 17:07	WG2399074
n-Butylbenzene	U		0.153	0.500	1	11/10/2024 17:07	WG2399074
sec-Butylbenzene	U		0.101	0.500	1	11/10/2024 17:07	WG2399074
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2024 17:07	WG2399074
Carbon disulfide	U		0.162	0.500	1	11/10/2024 17:07	WG2399074
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2024 17:07	WG2399074
Chlorobenzene	U		0.0229	0.100	1	11/10/2024 17:07	WG2399074
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2024 17:07	WG2399074
Chloroethane	U		0.0432	0.200	1	11/10/2024 17:07	WG2399074
Chloroform	U		0.0166	0.100	1	11/10/2024 17:07	WG2399074
Chloromethane	U		0.0556	0.500	1	11/10/2024 17:07	WG2399074
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2024 17:07	WG2399074
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2024 17:07	WG2399074
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2024 17:07	WG2399074
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2024 17:07	WG2399074
Dibromomethane	U		0.0400	0.200	1	11/10/2024 17:07	WG2399074
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2024 17:07	WG2399074
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2024 17:07	WG2399074
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2024 17:07	WG2399074
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/10/2024 17:07	WG2399074
Dichlorodifluoromethane	U		0.0327	0.200	1	11/10/2024 17:07	WG2399074
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2024 17:07	WG2399074
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2024 17:07	WG2399074
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2024 17:07	WG2399074
cis-1,2-Dichloroethene	0.463		0.0276	0.100	1	11/10/2024 17:07	WG2399074
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2024 17:07	WG2399074
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2024 17:07	WG2399074
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2024 17:07	WG2399074
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2024 17:07	WG2399074
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2024 17:07	WG2399074
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2024 17:07	WG2399074
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2024 17:07	WG2399074
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2024 17:07	WG2399074
Ethylbenzene	0.211		0.0212	0.100	1	11/10/2024 17:07	WG2399074
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2024 17:07	WG2399074
2-Hexanone	U		0.400	1.00	1	11/10/2024 17:07	WG2399074
n-Hexane	U		0.0424	0.200	1	11/10/2024 17:07	WG2399074
Iodomethane	U		0.242	0.500	1	11/10/2024 17:07	WG2399074
Isopropylbenzene	U		0.0345	0.100	1	11/10/2024 17:07	WG2399074
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2024 17:07	WG2399074
2-Butanone (MEK)	U		0.500	1.00	1	11/10/2024 17:07	WG2399074
Methylene Chloride	U		0.265	1.00	1	11/10/2024 17:07	WG2399074
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2024 17:07	WG2399074
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2024 17:07	WG2399074
Naphthalene	U	C3	0.124	0.500	1	11/10/2024 17:07	WG2399074
n-Propylbenzene	U		0.0472	0.200	1	11/10/2024 17:07	WG2399074
Styrene	U		0.109	0.500	1	11/10/2024 17:07	WG2399074
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2024 17:07	WG2399074
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2024 17:07	WG2399074

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 17:07	WG2399074
Tetrachloroethene	1.54		0.0280	0.100	1	11/10/2024 17:07	WG2399074
Toluene	0.254		0.0500	0.200	1	11/10/2024 17:07	WG2399074
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 17:07	WG2399074
1,2,4-Trichlorobenzene	U	C3 J3	0.193	0.500	1	11/10/2024 17:07	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 17:07	WG2399074
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 17:07	WG2399074
Trichloroethene	0.232		0.0160	0.0400	1	11/10/2024 17:07	WG2399074
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 17:07	WG2399074
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 17:07	WG2399074
1,2,4-Trimethylbenzene	0.0950	J	0.0464	0.200	1	11/10/2024 17:07	WG2399074
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 17:07	WG2399074
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 17:07	WG2399074
Vinyl acetate	U		0.141	0.500	1	11/10/2024 17:07	WG2399074
Vinyl chloride	U		0.0273	0.100	1	11/10/2024 17:07	WG2399074
Xylenes, Total	0.986		0.191	0.260	1	11/10/2024 17:07	WG2399074
(S) Toluene-d8	*101*			*75.0-131*		*11/10/2024 17:07*	WG2399074
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*		*11/10/2024 17:07*	WG2399074
(S) 1,2-Dichloroethane-d4	*94.2*			*70.0-130*		*11/10/2024 17:07*	WG2399074

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.01	B C5	0.548	1.00	1	11/10/2024 17:26	WG2399074
Acrylonitrile	U	J4	0.0760	0.500	1	11/10/2024 17:26	WG2399074
Benzene	U		0.0160	0.0400	1	11/10/2024 17:26	WG2399074
Bromobenzene	U		0.0420	0.500	1	11/10/2024 17:26	WG2399074
Bromochloromethane	U		0.0452	0.200	1	11/10/2024 17:26	WG2399074
Bromodichloromethane	U		0.0315	0.100	1	11/10/2024 17:26	WG2399074
Bromoform	U		0.239	1.00	1	11/10/2024 17:26	WG2399074
Bromomethane	U		0.148	0.500	1	11/10/2024 17:26	WG2399074
n-Butylbenzene	U		0.153	0.500	1	11/10/2024 17:26	WG2399074
sec-Butylbenzene	U		0.101	0.500	1	11/10/2024 17:26	WG2399074
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2024 17:26	WG2399074
Carbon disulfide	U		0.162	0.500	1	11/10/2024 17:26	WG2399074
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2024 17:26	WG2399074
Chlorobenzene	U		0.0229	0.100	1	11/10/2024 17:26	WG2399074
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2024 17:26	WG2399074
Chloroethane	U		0.0432	0.200	1	11/10/2024 17:26	WG2399074
Chloroform	U		0.0166	0.100	1	11/10/2024 17:26	WG2399074
Chloromethane	U		0.0556	0.500	1	11/10/2024 17:26	WG2399074
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2024 17:26	WG2399074
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2024 17:26	WG2399074
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2024 17:26	WG2399074
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2024 17:26	WG2399074
Dibromomethane	U		0.0400	0.200	1	11/10/2024 17:26	WG2399074
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2024 17:26	WG2399074
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2024 17:26	WG2399074
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2024 17:26	WG2399074
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/10/2024 17:26	WG2399074
Dichlorodifluoromethane	U		0.0327	0.200	1	11/10/2024 17:26	WG2399074
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2024 17:26	WG2399074
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2024 17:26	WG2399074
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2024 17:26	WG2399074
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/10/2024 17:26	WG2399074
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2024 17:26	WG2399074
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2024 17:26	WG2399074
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2024 17:26	WG2399074
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2024 17:26	WG2399074
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2024 17:26	WG2399074
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2024 17:26	WG2399074
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2024 17:26	WG2399074
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2024 17:26	WG2399074
Ethylbenzene	U		0.0212	0.100	1	11/10/2024 17:26	WG2399074
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2024 17:26	WG2399074
2-Hexanone	U		0.400	1.00	1	11/10/2024 17:26	WG2399074
n-Hexane	U		0.0424	0.200	1	11/10/2024 17:26	WG2399074
Iodomethane	U		0.242	0.500	1	11/10/2024 17:26	WG2399074
Isopropylbenzene	U		0.0345	0.100	1	11/10/2024 17:26	WG2399074
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2024 17:26	WG2399074
2-Butanone (MEK)	U		0.500	1.00	1	11/10/2024 17:26	WG2399074
Methylene Chloride	U		0.265	1.00	1	11/10/2024 17:26	WG2399074
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2024 17:26	WG2399074
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2024 17:26	WG2399074
Naphthalene	U	C3	0.124	0.500	1	11/10/2024 17:26	WG2399074
n-Propylbenzene	U		0.0472	0.200	1	11/10/2024 17:26	WG2399074
Styrene	U		0.109	0.500	1	11/10/2024 17:26	WG2399074
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2024 17:26	WG2399074
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2024 17:26	WG2399074

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 17:26	WG2399074
Tetrachloroethene	U		0.0280	0.100	1	11/10/2024 17:26	WG2399074
Toluene	U		0.0500	0.200	1	11/10/2024 17:26	WG2399074
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 17:26	WG2399074
1,2,4-Trichlorobenzene	U	C3 J3	0.193	0.500	1	11/10/2024 17:26	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 17:26	WG2399074
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 17:26	WG2399074
Trichloroethene	U		0.0160	0.0400	1	11/10/2024 17:26	WG2399074
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 17:26	WG2399074
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 17:26	WG2399074
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2024 17:26	WG2399074
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 17:26	WG2399074
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 17:26	WG2399074
Vinyl acetate	U		0.141	0.500	1	11/10/2024 17:26	WG2399074
Vinyl chloride	U		0.0273	0.100	1	11/10/2024 17:26	WG2399074
Xylenes, Total	U		0.191	0.260	1	11/10/2024 17:26	WG2399074
(S) Toluene-d8	*100*			*75.0-131*		*11/10/2024 17:26*	WG2399074
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*		*11/10/2024 17:26*	WG2399074
(S) 1,2-Dichloroethane-d4	*95.5*			*70.0-130*		*11/10/2024 17:26*	WG2399074

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.68	B C5	0.548	1.00	1	11/10/2024 17:45	WG2399074
Acrylonitrile	U	J4	0.0760	0.500	1	11/10/2024 17:45	WG2399074
Benzene	U		0.0160	0.0400	1	11/10/2024 17:45	WG2399074
Bromobenzene	U		0.0420	0.500	1	11/10/2024 17:45	WG2399074
Bromochloromethane	U		0.0452	0.200	1	11/10/2024 17:45	WG2399074
Bromodichloromethane	U		0.0315	0.100	1	11/10/2024 17:45	WG2399074
Bromoform	U		0.239	1.00	1	11/10/2024 17:45	WG2399074
Bromomethane	U		0.148	0.500	1	11/10/2024 17:45	WG2399074
n-Butylbenzene	U		0.153	0.500	1	11/10/2024 17:45	WG2399074
sec-Butylbenzene	U		0.101	0.500	1	11/10/2024 17:45	WG2399074
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2024 17:45	WG2399074
Carbon disulfide	U		0.162	0.500	1	11/10/2024 17:45	WG2399074
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2024 17:45	WG2399074
Chlorobenzene	U		0.0229	0.100	1	11/10/2024 17:45	WG2399074
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2024 17:45	WG2399074
Chloroethane	U		0.0432	0.200	1	11/10/2024 17:45	WG2399074
Chloroform	U		0.0166	0.100	1	11/10/2024 17:45	WG2399074
Chloromethane	U		0.0556	0.500	1	11/10/2024 17:45	WG2399074
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2024 17:45	WG2399074
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2024 17:45	WG2399074
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2024 17:45	WG2399074
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2024 17:45	WG2399074
Dibromomethane	U		0.0400	0.200	1	11/10/2024 17:45	WG2399074
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2024 17:45	WG2399074
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2024 17:45	WG2399074
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2024 17:45	WG2399074
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/10/2024 17:45	WG2399074
Dichlorodifluoromethane	U		0.0327	0.200	1	11/10/2024 17:45	WG2399074
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2024 17:45	WG2399074
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2024 17:45	WG2399074
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2024 17:45	WG2399074
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/10/2024 17:45	WG2399074
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2024 17:45	WG2399074
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2024 17:45	WG2399074
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2024 17:45	WG2399074
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2024 17:45	WG2399074
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2024 17:45	WG2399074
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2024 17:45	WG2399074
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2024 17:45	WG2399074
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2024 17:45	WG2399074
Ethylbenzene	U		0.0212	0.100	1	11/10/2024 17:45	WG2399074
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2024 17:45	WG2399074
2-Hexanone	U		0.400	1.00	1	11/10/2024 17:45	WG2399074
n-Hexane	U		0.0424	0.200	1	11/10/2024 17:45	WG2399074
Iodomethane	U		0.242	0.500	1	11/10/2024 17:45	WG2399074
Isopropylbenzene	U		0.0345	0.100	1	11/10/2024 17:45	WG2399074
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2024 17:45	WG2399074
2-Butanone (MEK)	U		0.500	1.00	1	11/10/2024 17:45	WG2399074
Methylene Chloride	U		0.265	1.00	1	11/10/2024 17:45	WG2399074
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2024 17:45	WG2399074
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2024 17:45	WG2399074
Naphthalene	U	C3	0.124	0.500	1	11/10/2024 17:45	WG2399074
n-Propylbenzene	U		0.0472	0.200	1	11/10/2024 17:45	WG2399074
Styrene	U		0.109	0.500	1	11/10/2024 17:45	WG2399074
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2024 17:45	WG2399074
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2024 17:45	WG2399074

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 17:45	WG2399074
Tetrachloroethene	U		0.0280	0.100	1	11/10/2024 17:45	WG2399074
Toluene	U		0.0500	0.200	1	11/10/2024 17:45	WG2399074
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 17:45	WG2399074
1,2,4-Trichlorobenzene	U	C3 J3	0.193	0.500	1	11/10/2024 17:45	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 17:45	WG2399074
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 17:45	WG2399074
Trichloroethene	U		0.0160	0.0400	1	11/10/2024 17:45	WG2399074
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 17:45	WG2399074
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 17:45	WG2399074
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2024 17:45	WG2399074
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 17:45	WG2399074
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 17:45	WG2399074
Vinyl acetate	U		0.141	0.500	1	11/10/2024 17:45	WG2399074
Vinyl chloride	U		0.0273	0.100	1	11/10/2024 17:45	WG2399074
Xylenes, Total	U		0.191	0.260	1	11/10/2024 17:45	WG2399074
(S) Toluene-d8	*98.4*			*75.0-131*		*11/10/2024 17:45*	WG2399074
(S) 4-Bromofluorobenzene	*97.3*			*67.0-138*		*11/10/2024 17:45*	WG2399074
(S) 1,2-Dichloroethane-d4	*97.2*			*70.0-130*		*11/10/2024 17:45*	WG2399074

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	224000		4750	20000	1	11/06/2024 15:05	WG2396469

Sample Narrative:
L1796048-05 WG2396469: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	19700		547	1000	1	11/06/2024 21:33	WG2396422
Nitrate as (N)	U		88.4	100	1	11/06/2024 21:33	WG2396422
Sulfate	38800		637	5000	1	11/12/2024 13:53	WG2396422

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2840		495	1000	1	11/07/2024 18:12	WG2396689

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1100		22.6	100	1	11/13/2024 22:32	WG2398247
Manganese	607		0.700	5.00	1	11/13/2024 22:32	WG2398247

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	998		0.287	0.678	1	11/09/2024 20:59	WG2398527
Ethane	1.48		0.296	1.29	1	11/09/2024 20:59	WG2398527
Ethene	U		0.422	1.27	1	11/09/2024 20:59	WG2398527

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.23	B C5	0.548	1.00	1	11/10/2024 18:05	WG2399074
Acrylonitrile	U	J4	0.0760	0.500	1	11/10/2024 18:05	WG2399074
Benzene	U		0.0160	0.0400	1	11/10/2024 18:05	WG2399074
Bromobenzene	U		0.0420	0.500	1	11/10/2024 18:05	WG2399074
Bromochloromethane	U		0.0452	0.200	1	11/10/2024 18:05	WG2399074
Bromodichloromethane	U		0.0315	0.100	1	11/10/2024 18:05	WG2399074
Bromoform	U		0.239	1.00	1	11/10/2024 18:05	WG2399074
Bromomethane	U		0.148	0.500	1	11/10/2024 18:05	WG2399074
n-Butylbenzene	U		0.153	0.500	1	11/10/2024 18:05	WG2399074
sec-Butylbenzene	U		0.101	0.500	1	11/10/2024 18:05	WG2399074
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2024 18:05	WG2399074
Carbon disulfide	U		0.162	0.500	1	11/10/2024 18:05	WG2399074
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2024 18:05	WG2399074
Chlorobenzene	U		0.0229	0.100	1	11/10/2024 18:05	WG2399074
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2024 18:05	WG2399074
Chloroethane	U		0.0432	0.200	1	11/10/2024 18:05	WG2399074
Chloroform	U		0.0166	0.100	1	11/10/2024 18:05	WG2399074
Chloromethane	U		0.0556	0.500	1	11/10/2024 18:05	WG2399074
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2024 18:05	WG2399074
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2024 18:05	WG2399074

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2024 18:05	WG2399074
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2024 18:05	WG2399074
Dibromomethane	U		0.0400	0.200	1	11/10/2024 18:05	WG2399074
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2024 18:05	WG2399074
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2024 18:05	WG2399074
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2024 18:05	WG2399074
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/10/2024 18:05	WG2399074
Dichlorodifluoromethane	U		0.0327	0.200	1	11/10/2024 18:05	WG2399074
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2024 18:05	WG2399074
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2024 18:05	WG2399074
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2024 18:05	WG2399074
cis-1,2-Dichloroethene	0.373		0.0276	0.100	1	11/10/2024 18:05	WG2399074
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2024 18:05	WG2399074
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2024 18:05	WG2399074
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2024 18:05	WG2399074
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2024 18:05	WG2399074
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2024 18:05	WG2399074
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2024 18:05	WG2399074
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2024 18:05	WG2399074
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2024 18:05	WG2399074
Ethylbenzene	U		0.0212	0.100	1	11/10/2024 18:05	WG2399074
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2024 18:05	WG2399074
2-Hexanone	U		0.400	1.00	1	11/10/2024 18:05	WG2399074
n-Hexane	U		0.0424	0.200	1	11/10/2024 18:05	WG2399074
Iodomethane	U		0.242	0.500	1	11/10/2024 18:05	WG2399074
Isopropylbenzene	U		0.0345	0.100	1	11/10/2024 18:05	WG2399074
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2024 18:05	WG2399074
2-Butanone (MEK)	U		0.500	1.00	1	11/10/2024 18:05	WG2399074
Methylene Chloride	U		0.265	1.00	1	11/10/2024 18:05	WG2399074
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2024 18:05	WG2399074
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2024 18:05	WG2399074
Naphthalene	U	C3	0.124	0.500	1	11/10/2024 18:05	WG2399074
n-Propylbenzene	U		0.0472	0.200	1	11/10/2024 18:05	WG2399074
Styrene	U		0.109	0.500	1	11/10/2024 18:05	WG2399074
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2024 18:05	WG2399074
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2024 18:05	WG2399074
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 18:05	WG2399074
Tetrachloroethene	U		0.0280	0.100	1	11/10/2024 18:05	WG2399074
Toluene	U		0.0500	0.200	1	11/10/2024 18:05	WG2399074
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 18:05	WG2399074
1,2,4-Trichlorobenzene	U	C3 J3	0.193	0.500	1	11/10/2024 18:05	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 18:05	WG2399074
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 18:05	WG2399074
Trichloroethene	U		0.0160	0.0400	1	11/10/2024 18:05	WG2399074
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 18:05	WG2399074
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 18:05	WG2399074
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2024 18:05	WG2399074
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 18:05	WG2399074
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 18:05	WG2399074
Vinyl acetate	U		0.141	0.500	1	11/10/2024 18:05	WG2399074
Vinyl chloride	0.122		0.0273	0.100	1	11/10/2024 18:05	WG2399074
Xylenes, Total	U		0.191	0.260	1	11/10/2024 18:05	WG2399074
(S) Toluene-d8	*98.3*			*75.0-131*		*11/10/2024 18:05*	WG2399074
(S) 4-Bromofluorobenzene	*98.8*			*67.0-138*		*11/10/2024 18:05*	WG2399074
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*11/10/2024 18:05*	WG2399074

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	13.0	C5	0.548	1.00	1	11/10/2024 11:51	WG2399074
Acrylonitrile	U	J4	0.0760	0.500	1	11/10/2024 11:51	WG2399074
Benzene	U		0.0160	0.0400	1	11/10/2024 11:51	WG2399074
Bromobenzene	U		0.0420	0.500	1	11/10/2024 11:51	WG2399074
Bromochloromethane	U		0.0452	0.200	1	11/10/2024 11:51	WG2399074
Bromodichloromethane	U		0.0315	0.100	1	11/10/2024 11:51	WG2399074
Bromoform	U		0.239	1.00	1	11/10/2024 11:51	WG2399074
Bromomethane	U		0.148	0.500	1	11/10/2024 11:51	WG2399074
n-Butylbenzene	U		0.153	0.500	1	11/10/2024 11:51	WG2399074
sec-Butylbenzene	U		0.101	0.500	1	11/10/2024 11:51	WG2399074
tert-Butylbenzene	U		0.0620	0.200	1	11/10/2024 11:51	WG2399074
Carbon disulfide	U		0.162	0.500	1	11/10/2024 11:51	WG2399074
Carbon tetrachloride	U		0.0432	0.200	1	11/10/2024 11:51	WG2399074
Chlorobenzene	U		0.0229	0.100	1	11/10/2024 11:51	WG2399074
Chlorodibromomethane	U		0.0180	0.100	1	11/10/2024 11:51	WG2399074
Chloroethane	U		0.0432	0.200	1	11/10/2024 11:51	WG2399074
Chloroform	U		0.0166	0.100	1	11/10/2024 11:51	WG2399074
Chloromethane	U		0.0556	0.500	1	11/10/2024 11:51	WG2399074
2-Chlorotoluene	U		0.0368	0.100	1	11/10/2024 11:51	WG2399074
4-Chlorotoluene	U		0.0452	0.200	1	11/10/2024 11:51	WG2399074
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/10/2024 11:51	WG2399074
1,2-Dibromoethane	U		0.0210	0.100	1	11/10/2024 11:51	WG2399074
Dibromomethane	U		0.0400	0.200	1	11/10/2024 11:51	WG2399074
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/10/2024 11:51	WG2399074
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/10/2024 11:51	WG2399074
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/10/2024 11:51	WG2399074
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/10/2024 11:51	WG2399074
Dichlorodifluoromethane	U		0.0327	0.200	1	11/10/2024 11:51	WG2399074
1,1-Dichloroethane	U		0.0230	0.100	1	11/10/2024 11:51	WG2399074
1,2-Dichloroethane	U		0.0190	0.100	1	11/10/2024 11:51	WG2399074
1,1-Dichloroethene	U		0.0200	0.100	1	11/10/2024 11:51	WG2399074
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/10/2024 11:51	WG2399074
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/10/2024 11:51	WG2399074
1,2-Dichloropropane	U		0.0508	0.200	1	11/10/2024 11:51	WG2399074
1,1-Dichloropropene	U		0.0280	0.100	1	11/10/2024 11:51	WG2399074
1,3-Dichloropropane	U		0.0700	0.200	1	11/10/2024 11:51	WG2399074
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/10/2024 11:51	WG2399074
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/10/2024 11:51	WG2399074
2,2-Dichloropropane	U		0.0317	0.100	1	11/10/2024 11:51	WG2399074
Di-isopropyl ether	U		0.0140	0.0400	1	11/10/2024 11:51	WG2399074
Ethylbenzene	U		0.0212	0.100	1	11/10/2024 11:51	WG2399074
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/10/2024 11:51	WG2399074
2-Hexanone	U		0.400	1.00	1	11/10/2024 11:51	WG2399074
n-Hexane	U		0.0424	0.200	1	11/10/2024 11:51	WG2399074
Iodomethane	U		0.242	0.500	1	11/10/2024 11:51	WG2399074
Isopropylbenzene	U		0.0345	0.100	1	11/10/2024 11:51	WG2399074
p-Isopropyltoluene	U		0.0932	0.200	1	11/10/2024 11:51	WG2399074
2-Butanone (MEK)	U		0.500	1.00	1	11/10/2024 11:51	WG2399074
Methylene Chloride	U		0.265	1.00	1	11/10/2024 11:51	WG2399074
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/10/2024 11:51	WG2399074
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/10/2024 11:51	WG2399074
Naphthalene	U	C3	0.124	0.500	1	11/10/2024 11:51	WG2399074
n-Propylbenzene	U		0.0472	0.200	1	11/10/2024 11:51	WG2399074
Styrene	U		0.109	0.500	1	11/10/2024 11:51	WG2399074
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/10/2024 11:51	WG2399074
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/10/2024 11:51	WG2399074

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/10/2024 11:51	WG2399074
Tetrachloroethene	U		0.0280	0.100	1	11/10/2024 11:51	WG2399074
Toluene	0.0660	J	0.0500	0.200	1	11/10/2024 11:51	WG2399074
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/10/2024 11:51	WG2399074
1,2,4-Trichlorobenzene	U	C3 J3	0.193	0.500	1	11/10/2024 11:51	WG2399074
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/10/2024 11:51	WG2399074
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/10/2024 11:51	WG2399074
Trichloroethene	U		0.0160	0.0400	1	11/10/2024 11:51	WG2399074
Trichlorofluoromethane	U		0.0200	0.100	1	11/10/2024 11:51	WG2399074
1,2,3-Trichloropropane	U		0.204	0.500	1	11/10/2024 11:51	WG2399074
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/10/2024 11:51	WG2399074
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/10/2024 11:51	WG2399074
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/10/2024 11:51	WG2399074
Vinyl acetate	U		0.141	0.500	1	11/10/2024 11:51	WG2399074
Vinyl chloride	U		0.0273	0.100	1	11/10/2024 11:51	WG2399074
Xylenes, Total	U		0.191	0.260	1	11/10/2024 11:51	WG2399074
(S) Toluene-d8	*101*			*75.0-131*		*11/10/2024 11:51*	WG2399074
(S) 4-Bromofluorobenzene	*99.4*			*67.0-138*		*11/10/2024 11:51*	WG2399074
(S) 1,2-Dichloroethane-d4	*92.8*			*70.0-130*		*11/10/2024 11:51*	WG2399074

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	333000		4750	20000	1	11/06/2024 15:11	WG2396469

Sample Narrative:
L1796048-07 WG2396469: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	61900		547	1000	1	11/06/2024 21:46	WG2396422
Nitrate as (N)	U		88.4	100	1	11/06/2024 21:46	WG2396422
Sulfate	19900		637	5000	1	11/12/2024 14:06	WG2396422

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5130		495	1000	1	11/07/2024 18:32	WG2396689

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2820		22.6	100	1	11/13/2024 22:35	WG2398247
Manganese	3430		0.700	5.00	1	11/13/2024 22:35	WG2398247

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	2160		0.287	0.678	1	11/09/2024 22:24	WG2398527
Ethane	27.3		0.296	1.29	1	11/09/2024 22:24	WG2398527
Ethene	1.84		0.422	1.27	1	11/09/2024 22:24	WG2398527

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	11.0	20.0	20	11/13/2024 08:46	WG2400357
Acrylonitrile	U		1.52	10.0	20	11/13/2024 08:46	WG2400357
Benzene	U		0.320	0.800	20	11/13/2024 08:46	WG2400357
Bromobenzene	U		0.840	10.0	20	11/13/2024 08:46	WG2400357
Bromochloromethane	U		0.904	4.00	20	11/13/2024 08:46	WG2400357
Bromodichloromethane	U		0.630	2.00	20	11/13/2024 08:46	WG2400357
Bromoform	U		4.78	20.0	20	11/13/2024 08:46	WG2400357
Bromomethane	U		2.96	10.0	20	11/13/2024 08:46	WG2400357
n-Butylbenzene	U		3.06	10.0	20	11/13/2024 08:46	WG2400357
sec-Butylbenzene	U		2.02	10.0	20	11/13/2024 08:46	WG2400357
tert-Butylbenzene	U		1.24	4.00	20	11/13/2024 08:46	WG2400357
Carbon disulfide	U		3.24	10.0	20	11/13/2024 08:46	WG2400357
Carbon tetrachloride	U		0.864	4.00	20	11/13/2024 08:46	WG2400357
Chlorobenzene	U		0.458	2.00	20	11/13/2024 08:46	WG2400357
Chlorodibromomethane	U		0.360	2.00	20	11/13/2024 08:46	WG2400357
Chloroethane	U		0.864	4.00	20	11/13/2024 08:46	WG2400357
Chloroform	U		0.332	2.00	20	11/13/2024 08:46	WG2400357
Chloromethane	U		1.11	10.0	20	11/13/2024 08:46	WG2400357
2-Chlorotoluene	U		0.736	2.00	20	11/13/2024 08:46	WG2400357
4-Chlorotoluene	U		0.904	4.00	20	11/13/2024 08:46	WG2400357

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		4.08	20.0	20	11/13/2024 08:46	WG2400357
1,2-Dibromoethane	U		0.420	2.00	20	11/13/2024 08:46	WG2400357
Dibromomethane	U		0.800	4.00	20	11/13/2024 08:46	WG2400357
1,2-Dichlorobenzene	U		1.16	4.00	20	11/13/2024 08:46	WG2400357
1,3-Dichlorobenzene	U		1.36	4.00	20	11/13/2024 08:46	WG2400357
1,4-Dichlorobenzene	U		1.58	4.00	20	11/13/2024 08:46	WG2400357
trans-1,4-Dichloro-2-butene	U		1.12	4.00	20	11/13/2024 08:46	WG2400357
Dichlorodifluoromethane	U		0.654	4.00	20	11/13/2024 08:46	WG2400357
1,1-Dichloroethane	U		0.460	2.00	20	11/13/2024 08:46	WG2400357
1,2-Dichloroethane	U		0.380	2.00	20	11/13/2024 08:46	WG2400357
1,1-Dichloroethene	U		0.400	2.00	20	11/13/2024 08:46	WG2400357
cis-1,2-Dichloroethene	200		0.552	2.00	20	11/13/2024 08:46	WG2400357
trans-1,2-Dichloroethene	U		1.14	4.00	20	11/13/2024 08:46	WG2400357
1,2-Dichloropropane	U		1.02	4.00	20	11/13/2024 08:46	WG2400357
1,1-Dichloropropene	U		0.560	2.00	20	11/13/2024 08:46	WG2400357
1,3-Dichloropropane	U		1.40	4.00	20	11/13/2024 08:46	WG2400357
cis-1,3-Dichloropropene	U		0.542	2.00	20	11/13/2024 08:46	WG2400357
trans-1,3-Dichloropropene	U		1.22	4.00	20	11/13/2024 08:46	WG2400357
2,2-Dichloropropane	U		0.634	2.00	20	11/13/2024 08:46	WG2400357
Di-isopropyl ether	U		0.280	0.800	20	11/13/2024 08:46	WG2400357
Ethylbenzene	U		0.424	2.00	20	11/17/2024 16:29	WG2400944
Hexachloro-1,3-butadiene	U		10.2	20.0	20	11/13/2024 08:46	WG2400357
2-Hexanone	U		8.00	20.0	20	11/17/2024 16:29	WG2400944
n-Hexane	U		0.848	4.00	20	11/13/2024 08:46	WG2400357
Iodomethane	U		4.84	10.0	20	11/13/2024 08:46	WG2400357
Isopropylbenzene	3.02		0.690	2.00	20	11/13/2024 08:46	WG2400357
p-Isopropyltoluene	U		1.86	4.00	20	11/13/2024 08:46	WG2400357
2-Butanone (MEK)	U	C3 J3	10.0	20.0	20	11/13/2024 08:46	WG2400357
Methylene Chloride	U		5.30	20.0	20	11/13/2024 08:46	WG2400357
4-Methyl-2-pentanone (MIBK)	U		8.00	20.0	20	11/13/2024 08:46	WG2400357
Methyl tert-butyl ether	U		0.236	0.800	20	11/13/2024 08:46	WG2400357
Naphthalene	U		2.48	10.0	20	11/17/2024 16:29	WG2400944
n-Propylbenzene	U		0.944	4.00	20	11/17/2024 16:29	WG2400944
Styrene	U		2.18	10.0	20	11/13/2024 08:46	WG2400357
1,1,1,2-Tetrachloroethane	U		0.400	2.00	20	11/13/2024 08:46	WG2400357
1,1,2,2-Tetrachloroethane	U		0.312	2.00	20	11/13/2024 08:46	WG2400357
1,1,2-Trichlorotrifluoroethane	U		0.540	2.00	20	11/13/2024 08:46	WG2400357
Tetrachloroethene	186		0.560	2.00	20	11/13/2024 08:46	WG2400357
Toluene	2.06	J	1.00	4.00	20	11/13/2024 08:46	WG2400357
1,2,3-Trichlorobenzene	U	J3	0.500	10.0	20	11/13/2024 08:46	WG2400357
1,2,4-Trichlorobenzene	U		3.86	10.0	20	11/13/2024 08:46	WG2400357
1,1,1-Trichloroethane	U		0.220	2.00	20	11/13/2024 08:46	WG2400357
1,1,2-Trichloroethane	U		0.706	2.00	20	11/13/2024 08:46	WG2400357
Trichloroethene	106		0.320	0.800	20	11/13/2024 08:46	WG2400357
Trichlorofluoromethane	U		0.400	2.00	20	11/13/2024 08:46	WG2400357
1,2,3-Trichloropropane	U		4.08	10.0	20	11/13/2024 08:46	WG2400357
1,2,4-Trimethylbenzene	U		0.928	4.00	20	11/17/2024 16:29	WG2400944
1,2,3-Trimethylbenzene	U		0.920	4.00	20	11/17/2024 16:29	WG2400944
1,3,5-Trimethylbenzene	U		0.864	4.00	20	11/17/2024 16:29	WG2400944
Vinyl acetate	U		2.82	10.0	20	11/13/2024 08:46	WG2400357
Vinyl chloride	3.46		0.546	2.00	20	11/13/2024 08:46	WG2400357
Xylenes, Total	U		3.82	5.20	20	11/17/2024 16:29	WG2400944
(S) Toluene-d8	*99.5*			*75.0-131*		*11/13/2024 08:46*	WG2400357
(S) Toluene-d8	*107*			*75.0-131*		*11/17/2024 16:29*	WG2400944
(S) 4-Bromofluorobenzene	*96.2*			*67.0-138*		*11/13/2024 08:46*	WG2400357
(S) 4-Bromofluorobenzene	*97.7*			*67.0-138*		*11/17/2024 16:29*	WG2400944

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/13/2024 08:46*	WG2400357
(S) 1,2-Dichloroethane-d4	*93.3*			*70.0-130*		*11/17/2024 16:29*	WG2400944

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/13/2024 04:27	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 04:27	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 04:27	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 04:27	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 04:27	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 04:27	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 04:27	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 04:27	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 04:27	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 04:27	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 04:27	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 04:27	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 04:27	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 04:27	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 04:27	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 04:27	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 04:27	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 04:27	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 04:27	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 04:27	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 04:27	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 04:27	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 04:27	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 04:27	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 04:27	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 04:27	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 04:27	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 04:27	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 04:27	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 04:27	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 04:27	WG2400372
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/13/2024 04:27	WG2400372
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 04:27	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 04:27	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 04:27	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 04:27	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 04:27	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 04:27	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 04:27	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 04:27	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 04:27	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 04:27	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 04:27	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 04:27	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 04:27	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 04:27	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 04:27	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 04:27	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 04:27	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 04:27	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 04:27	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 04:27	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 04:27	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 04:27	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 04:27	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 04:27	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 04:27	WG2400372
Tetrachloroethene	0.670		0.0280	0.100	1	11/13/2024 04:27	WG2400372
Toluene	0.0530	J	0.0500	0.200	1	11/13/2024 04:27	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 04:27	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 04:27	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 04:27	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 04:27	WG2400372
Trichloroethene	0.204		0.0160	0.0400	1	11/13/2024 04:27	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 04:27	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 04:27	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 04:27	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 04:27	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 04:27	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 04:27	WG2400372
Vinyl chloride	U		0.0273	0.100	1	11/13/2024 04:27	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 04:27	WG2400372
(S) Toluene-d8	*100*			*75.0-131*		*11/13/2024 04:27*	WG2400372
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*11/13/2024 04:27*	WG2400372
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/13/2024 04:27*	WG2400372

Method Blank (MB)

(MB) R4142885-2 11/06/24 12:37

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1796006-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1796006-01 11/06/24 12:46 • (DUP) R4142885-3 11/06/24 12:52

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	367000	364000	1	0.846		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1796041-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1796041-01 11/06/24 14:48 • (DUP) R4142885-4 11/06/24 14:54

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	18700	19300	1	3.18	J	20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4142885-1 11/06/24 12:29

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

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4143236-1 11/06/24 13:13

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

L1795640-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1795640-16 11/06/24 16:28 • (DUP) R4143236-3 11/06/24 22:50

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	55000	56700	1	3.18		15
Nitrate as (N)	U	U	1	0.000		15
Sulfate	2130	25000	1	168	P1	15

L1795640-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1795640-17 11/06/24 16:40 • (DUP) R4143236-6 11/06/24 23:28

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate as (N)	U	U	1	0.000		15
Sulfate	87000	98700	1	12.7		15

L1795640-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1795640-17 11/06/24 16:53 • (DUP) R4143236-7 11/06/24 23:41

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	935000	935000	10	0.0331		15

Laboratory Control Sample (LCS)

(LCS) R4143236-2 11/06/24 13:26

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	37700	94.4	80.0-120	
Nitrate as (N)	8000	7570	94.6	80.0-120	
Sulfate	40000	38400	96.1	80.0-120	

L1795640-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1795640-16 11/06/24 16:28 • (MS) R4143236-4 11/06/24 23:03 • (MSD) R4143236-5 11/06/24 23:15

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	55000	86400	85700	78.6	76.9	1	80.0-120	J6	J6	0.797	15
Nitrate as (N)	8000	U	8080	8010	101	100	1	80.0-120			0.922	15
Sulfate	40000	2130	59800	55500	144	133	1	80.0-120	J5	J5	7.55	15

L1795640-17 Original Sample (OS) • Matrix Spike (MS)

(OS) L1795640-17 11/06/24 16:40 • (MS) R4143236-8 11/06/24 23:53

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate as (N)	8000	U	8030	100	1	80.0-120	
Sulfate	40000	87000	U	0.000	1	80.0-120	J6

Method Blank (MB)

(MB) R4143533-2 11/07/24 10:20

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

L1796040-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1796040-16 11/07/24 12:14 • (DUP) R4143533-5 11/07/24 12:33

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	2540	2410	1	4.97		20

L1796041-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1796041-01 11/07/24 17:09 • (DUP) R4143533-8 11/07/24 17:29

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

Laboratory Control Sample (LCS)

(LCS) R4143533-1 11/07/24 10:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	25000	24500	98.1	85.0-115	

L1796040-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1796040-15 11/07/24 11:04 • (MS) R4143533-3 11/07/24 11:25 • (MSD) R4143533-4 11/07/24 11:52

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	702	25400	25200	98.7	98.0	1	85.0-115			0.712	20

L1796040-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1796040-25 11/07/24 16:06 • (MS) R4143533-6 11/07/24 16:28 • (MSD) R4143533-7 11/07/24 16:49

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	2250	26800	26800	98.2	98.2	1	85.0-115			0.000	20

Method Blank (MB)

(MB) R4145748-1 11/13/24 20:40

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

Laboratory Control Sample (LCS)

(LCS) R4145748-2 11/13/24 20:44

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	1000	975	97.5	80.0-120	
Manganese	50.0	48.0	96.1	80.0-120	

L1795860-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1795860-07 11/13/24 20:47 • (MS) R4145748-4 11/13/24 20:54 • (MSD) R4145748-5 11/13/24 20:57

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	1000	U	1000	998	100	99.8	1	75.0-125			0.494	20
Manganese	50.0	U	48.5	49.1	96.9	98.2	1	75.0-125			1.27	20

Method Blank (MB)

(MB) R4144122-2 11/09/24 19:44

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

L1796040-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1796040-09 11/09/24 20:25 • (DUP) R4144122-3 11/09/24 22:18

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	768	756	1	1.57		20
Ethane	55.2	54.0	1	2.20		20
Ethene	9.60	9.31	1	3.07		20

L1796217-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1796217-19 11/09/24 22:40 • (DUP) R4144122-4 11/09/24 23:28

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

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

(LCS) R4144122-1 11/09/24 19:37 • (LCSD) R4144122-7 11/09/24 23:56

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	67.1	77.7	99.0	115	85.0-115			14.6	20
Ethane	129	131	130	102	101	85.0-115			0.766	20
Ethene	127	128	127	101	100	85.0-115			0.784	20

L1796217-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1796217-18 11/09/24 22:33 • (MS) R4144122-5 11/09/24 23:38 • (MSD) R4144122-6 11/09/24 23:50

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 %
Methane	67.8	U	78.0	78.6	115	116	1	85.0-115		J5	0.766	20
Ethane	129	U	146	145	113	112	1	85.0-115			0.687	20
Ethene	127	U	142	141	112	111	1	85.0-115			0.707	20

Method Blank (MB)

(MB) R4145457-3 11/10/24 10:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	0.792	J	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

Method Blank (MB)

(MB) R4145457-3 11/10/24 10:40

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	*102*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.8*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*92.2*			*70.0-130*

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

(LCS) R4145457-1 11/10/24 09:11 • (LCSD) R4145457-2 11/10/24 09:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	33.1	39.8	132	159	10.0-160			18.4	31
Acrylonitrile	25.0	35.4	40.9	142	164	45.0-153		J4	14.4	22
Benzene	5.00	5.29	5.48	106	110	70.0-123			3.53	20
Bromobenzene	5.00	4.65	4.65	93.0	93.0	73.0-121			0.000	20
Bromochloromethane	5.00	5.08	5.73	102	115	77.0-128			12.0	20
Bromodichloromethane	5.00	4.69	4.99	93.8	99.8	73.0-121			6.20	20
Bromoform	5.00	4.47	4.99	89.4	99.8	64.0-132			11.0	20
Bromomethane	5.00	4.15	4.28	83.0	85.6	56.0-147			3.08	20
n-Butylbenzene	5.00	4.24	4.73	84.8	94.6	68.0-135			10.9	20
sec-Butylbenzene	5.00	4.43	4.73	88.6	94.6	74.0-130			6.55	20
tert-Butylbenzene	5.00	4.42	4.63	88.4	92.6	75.0-127			4.64	20
Carbon disulfide	5.00	5.85	6.40	117	128	56.0-133			8.98	20
Carbon tetrachloride	5.00	5.70	6.32	114	126	66.0-128			10.3	20
Chlorobenzene	5.00	4.72	4.94	94.4	98.8	76.0-128			4.55	20
Chlorodibromomethane	5.00	4.49	4.80	89.8	96.0	74.0-127			6.67	20
Chloroethane	5.00	4.69	5.11	93.8	102	61.0-134			8.57	20
Chloroform	5.00	4.85	5.14	97.0	103	72.0-123			5.81	20
Chloromethane	5.00	4.06	4.15	81.2	83.0	51.0-138			2.19	20
2-Chlorotoluene	5.00	4.46	4.71	89.2	94.2	75.0-124			5.45	20
4-Chlorotoluene	5.00	4.34	4.38	86.8	87.6	75.0-124			0.917	20
1,2-Dibromo-3-Chloropropane	5.00	4.56	4.98	91.2	99.6	59.0-130			8.81	20
1,2-Dibromoethane	5.00	4.65	4.91	93.0	98.2	74.0-128			5.44	20
Dibromomethane	5.00	4.83	5.41	96.6	108	75.0-122			11.3	20
1,2-Dichlorobenzene	5.00	4.31	4.56	86.2	91.2	76.0-124			5.64	20
1,3-Dichlorobenzene	5.00	4.29	4.48	85.8	89.6	76.0-125			4.33	20
1,4-Dichlorobenzene	5.00	4.33	4.47	86.6	89.4	77.0-121			3.18	20
trans-1,4-Dichloro-2-butene	5.00	3.99	4.65	79.8	93.0	45.0-143			15.3	20
Dichlorodifluoromethane	5.00	7.05	6.97	141	139	43.0-156			1.14	20
1,1-Dichloroethane	5.00	5.26	5.60	105	112	70.0-127			6.26	20
1,2-Dichloroethane	5.00	4.87	5.36	97.4	107	65.0-131			9.58	20
1,1-Dichloroethene	5.00	5.68	5.94	114	119	65.0-131			4.48	20
cis-1,2-Dichloroethene	5.00	5.28	5.40	106	108	73.0-125			2.25	20
trans-1,2-Dichloroethene	5.00	5.04	5.62	101	112	71.0-125			10.9	20
1,2-Dichloropropane	5.00	5.29	5.43	106	109	74.0-125			2.61	20
1,1-Dichloropropene	5.00	5.70	5.78	114	116	73.0-125			1.39	20
1,3-Dichloropropane	5.00	4.71	4.81	94.2	96.2	80.0-125			2.10	20
cis-1,3-Dichloropropene	5.00	4.81	5.14	96.2	103	76.0-127			6.63	20
trans-1,3-Dichloropropene	5.00	4.53	4.74	90.6	94.8	73.0-127			4.53	20
2,2-Dichloropropane	5.00	5.14	5.93	103	119	59.0-135			14.3	20
Di-isopropyl ether	5.00	5.40	5.64	108	113	60.0-136			4.35	20

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

(LCS) R4145457-1 11/10/24 09:11 • (LCSD) R4145457-2 11/10/24 09:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	4.90	5.11	98.0	102	74.0-126			4.20	20
Hexachloro-1,3-butadiene	5.00	4.19	4.80	83.8	96.0	57.0-150			13.6	20
2-Hexanone	25.0	27.3	27.4	109	110	54.0-147			0.366	20
n-Hexane	5.00	6.13	6.20	123	124	55.0-137			1.14	20
Iodomethane	25.0	26.5	28.4	106	114	74.0-134			6.92	20
Isopropylbenzene	5.00	4.55	4.81	91.0	96.2	72.0-127			5.56	20
p-Isopropyltoluene	5.00	4.30	4.70	86.0	94.0	72.0-133			8.89	20
2-Butanone (MEK)	25.0	25.5	28.6	102	114	30.0-160			11.5	24
Methylene Chloride	5.00	5.46	5.52	109	110	68.0-123			1.09	20
4-Methyl-2-pentanone (MIBK)	25.0	27.2	28.6	109	114	56.0-143			5.02	20
Methyl tert-butyl ether	5.00	5.23	5.73	105	115	66.0-132			9.12	20
Naphthalene	5.00	3.46	4.00	69.2	80.0	59.0-130			14.5	20
n-Propylbenzene	5.00	4.77	4.92	95.4	98.4	74.0-126			3.10	20
Styrene	5.00	4.49	4.68	89.8	93.6	72.0-127			4.14	20
1,1,1,2-Tetrachloroethane	5.00	4.97	5.20	99.4	104	74.0-129			4.52	20
1,1,2,2-Tetrachloroethane	5.00	4.70	4.90	94.0	98.0	68.0-128			4.17	20
1,1,2-Trichlorotrifluoroethane	5.00	5.66	5.70	113	114	61.0-139			0.704	20
Tetrachloroethene	5.00	5.36	5.24	107	105	70.0-136			2.26	20
Toluene	5.00	5.06	5.14	101	103	75.0-121			1.57	20
1,2,3-Trichlorobenzene	5.00	4.01	4.52	80.2	90.4	59.0-139			12.0	20
1,2,4-Trichlorobenzene	5.00	3.74	4.61	74.8	92.2	62.0-137		J3	20.8	20
1,1,1-Trichloroethane	5.00	5.66	5.96	113	119	69.0-126			5.16	20
1,1,2-Trichloroethane	5.00	4.89	4.78	97.8	95.6	78.0-123			2.28	20
Trichloroethene	5.00	5.45	5.86	109	117	76.0-126			7.25	20
Trichlorofluoromethane	5.00	4.91	4.80	98.2	96.0	61.0-142	J	J	2.27	20
1,2,3-Trichloropropane	5.00	4.96	4.89	99.2	97.8	67.0-129			1.42	20
1,2,4-Trimethylbenzene	5.00	4.21	4.41	84.2	88.2	70.0-126			4.64	20
1,2,3-Trimethylbenzene	5.00	4.29	4.45	85.8	89.0	74.0-124			3.66	20
1,3,5-Trimethylbenzene	5.00	4.33	4.54	86.6	90.8	73.0-127			4.74	20
Vinyl acetate	25.0	31.7	31.7	127	127	43.0-159			0.000	20
Vinyl chloride	5.00	5.51	5.61	110	112	63.0-134			1.80	20
Xylenes, Total	15.0	14.1	14.8	94.0	98.7	72.0-127			4.84	20
(S) Toluene-d8				*101*	*99.2*	*75.0-131*				
(S) 4-Bromofluorobenzene				*95.9*	*99.0*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*93.2*	*94.8*	*70.0-130*				

Method Blank (MB)

(MB) R4145431-3 11/13/24 01:34

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

Method Blank (MB)

(MB) R4145431-3 11/13/24 01:34

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	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
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
Vinyl acetate	U		0.141	0.500
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*98.0*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.1*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*

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

(LCS) R4145431-1 11/13/24 00:11 • (LCSD) R4145431-2 11/13/24 00:32

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	41.1	36.6	164	146	10.0-160	J4		11.6	31
Acrylonitrile	25.0	35.0	34.6	140	138	45.0-153			1.15	22
Benzene	5.00	4.81	4.94	96.2	98.8	70.0-123			2.67	20
Bromobenzene	5.00	4.91	4.78	98.2	95.6	73.0-121			2.68	20
Bromochloromethane	5.00	5.31	5.23	106	105	77.0-128			1.52	20
Bromodichloromethane	5.00	4.86	4.99	97.2	99.8	73.0-121			2.64	20

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

(LCS) R4145431-1 11/13/24 00:11 • (LCSD) R4145431-2 11/13/24 00:32

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	5.00	4.23	3.76	84.6	75.2	64.0-132			11.8	20
Bromomethane	5.00	6.08	6.15	122	123	56.0-147			1.14	20
n-Butylbenzene	5.00	5.61	5.09	112	102	68.0-135			9.72	20
sec-Butylbenzene	5.00	4.94	4.81	98.8	96.2	74.0-130			2.67	20
tert-Butylbenzene	5.00	5.15	4.96	103	99.2	75.0-127			3.76	20
Carbon disulfide	5.00	5.14	5.20	103	104	56.0-133			1.16	20
Carbon tetrachloride	5.00	5.29	5.23	106	105	66.0-128			1.14	20
Chlorobenzene	5.00	4.68	4.45	93.6	89.0	76.0-128			5.04	20
Chlorodibromomethane	5.00	4.58	4.32	91.6	86.4	74.0-127			5.84	20
Chloroethane	5.00	5.46	5.53	109	111	61.0-134			1.27	20
Chloroform	5.00	5.15	5.22	103	104	72.0-123			1.35	20
Chloromethane	5.00	5.46	5.55	109	111	51.0-138			1.63	20
2-Chlorotoluene	5.00	5.53	4.55	111	91.0	75.0-124			19.4	20
4-Chlorotoluene	5.00	5.58	5.42	112	108	75.0-124			2.91	20
1,2-Dibromo-3-Chloropropane	5.00	4.25	4.09	85.0	81.8	59.0-130			3.84	20
1,2-Dibromoethane	5.00	4.72	4.56	94.4	91.2	74.0-128			3.45	20
Dibromomethane	5.00	4.68	4.86	93.6	97.2	75.0-122			3.77	20
1,2-Dichlorobenzene	5.00	4.92	4.69	98.4	93.8	76.0-124			4.79	20
1,3-Dichlorobenzene	5.00	5.20	4.99	104	99.8	76.0-125			4.12	20
1,4-Dichlorobenzene	5.00	4.68	4.59	93.6	91.8	77.0-121			1.94	20
trans-1,4-Dichloro-2-butene	5.00	4.98	4.61	99.6	92.2	45.0-143			7.72	20
Dichlorodifluoromethane	5.00	5.39	4.89	108	97.8	43.0-156			9.73	20
1,1-Dichloroethane	5.00	5.22	5.39	104	108	70.0-127			3.20	20
1,2-Dichloroethane	5.00	4.81	5.14	96.2	103	65.0-131			6.63	20
1,1-Dichloroethene	5.00	5.58	5.57	112	111	65.0-131			0.179	20
cis-1,2-Dichloroethene	5.00	4.80	4.87	96.0	97.4	73.0-125			1.45	20
trans-1,2-Dichloroethene	5.00	5.10	5.12	102	102	71.0-125			0.391	20
1,2-Dichloropropane	5.00	4.91	4.99	98.2	99.8	74.0-125			1.62	20
1,1-Dichloropropene	5.00	5.33	5.35	107	107	73.0-125			0.375	20
1,3-Dichloropropane	5.00	4.76	4.47	95.2	89.4	80.0-125			6.28	20
cis-1,3-Dichloropropene	5.00	5.14	5.24	103	105	76.0-127			1.93	20
trans-1,3-Dichloropropene	5.00	4.60	4.39	92.0	87.8	73.0-127			4.67	20
2,2-Dichloropropane	5.00	6.23	6.46	125	129	59.0-135			3.62	20
Di-isopropyl ether	5.00	5.73	5.82	115	116	60.0-136			1.56	20
Hexachloro-1,3-butadiene	5.00	4.78	4.13	95.6	82.6	57.0-150			14.6	20
n-Hexane	5.00	5.92	5.67	118	113	55.0-137			4.31	20
Iodomethane	25.0	26.6	27.1	106	108	74.0-134			1.86	20
Isopropylbenzene	5.00	5.10	4.74	102	94.8	72.0-127			7.32	20
p-Isopropyltoluene	5.00	5.24	4.83	105	96.6	72.0-133			8.14	20
2-Butanone (MEK)	25.0	19.3	25.9	77.2	104	30.0-160		J3	29.2	24

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

(LCS) R4145431-1 11/13/24 00:11 • (LCSD) R4145431-2 11/13/24 00:32

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methylene Chloride	5.00	5.71	5.31	114	106	68.0-123			7.26	20
4-Methyl-2-pentanone (MIBK)	25.0	32.4	30.2	130	121	56.0-143			7.03	20
Methyl tert-butyl ether	5.00	5.39	5.18	108	104	66.0-132			3.97	20
Styrene	5.00	4.93	4.49	98.6	89.8	72.0-127			9.34	20
1,1,1,2-Tetrachloroethane	5.00	4.48	4.28	89.6	85.6	74.0-129			4.57	20
1,1,2,2-Tetrachloroethane	5.00	5.30	4.98	106	99.6	68.0-128			6.23	20
1,1,2-Trichlorotrifluoroethane	5.00	5.17	5.27	103	105	61.0-139			1.92	20
Tetrachloroethene	5.00	4.48	4.33	89.6	86.6	70.0-136			3.41	20
Toluene	5.00	4.88	4.70	97.6	94.0	75.0-121			3.76	20
1,2,3-Trichlorobenzene	5.00	4.11	3.30	82.2	66.0	59.0-139		J3	21.9	20
1,2,4-Trichlorobenzene	5.00	4.22	3.51	84.4	70.2	62.0-137			18.4	20
1,1,1-Trichloroethane	5.00	5.44	5.66	109	113	69.0-126			3.96	20
1,1,2-Trichloroethane	5.00	4.45	4.19	89.0	83.8	78.0-123			6.02	20
Trichloroethene	5.00	4.86	5.00	97.2	100	76.0-126			2.84	20
Trichlorofluoromethane	5.00	5.66	5.72	113	114	61.0-142	J	J	1.05	20
1,2,3-Trichloropropane	5.00	5.35	4.96	107	99.2	67.0-129			7.57	20
Vinyl acetate	25.0	34.7	31.3	139	125	43.0-159			10.3	20
Vinyl chloride	5.00	5.44	5.63	109	113	63.0-134			3.43	20
(S) Toluene-d8				*96.8*	*95.6*	*75.0-131*				
(S) 4-Bromofluorobenzene				*97.9*	*96.8*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*111*	*119*	*70.0-130*				

Method Blank (MB)

(MB) R4145414-3 11/13/24 03:29

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	0.0230	J	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

Method Blank (MB)

(MB) R4145414-3 11/13/24 03:29

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	*98.8*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*

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

(LCS) R4145414-1 11/13/24 02:12 • (LCSD) R4145414-2 11/13/24 02:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	39.3	40.7	157	163	10.0-160		J4	3.50	31
Acrylonitrile	25.0	33.6	30.8	134	123	45.0-153			8.70	22
Benzene	5.00	4.74	4.62	94.8	92.4	70.0-123			2.56	20
Bromobenzene	5.00	5.57	4.91	111	98.2	73.0-121			12.6	20
Bromochloromethane	5.00	5.62	5.74	112	115	77.0-128			2.11	20
Bromodichloromethane	5.00	4.83	4.88	96.6	97.6	73.0-121			1.03	20
Bromoform	5.00	4.19	4.47	83.8	89.4	64.0-132			6.47	20
Bromomethane	5.00	4.10	6.10	82.0	122	56.0-147		J3	39.2	20
n-Butylbenzene	5.00	5.30	4.72	106	94.4	68.0-135			11.6	20
sec-Butylbenzene	5.00	5.32	4.69	106	93.8	74.0-130			12.6	20
tert-Butylbenzene	5.00	5.39	4.83	108	96.6	75.0-127			11.0	20
Carbon disulfide	5.00	4.35	4.67	87.0	93.4	56.0-133			7.10	20
Carbon tetrachloride	5.00	5.41	5.59	108	112	66.0-128			3.27	20
Chlorobenzene	5.00	4.84	4.72	96.8	94.4	76.0-128			2.51	20
Chlorodibromomethane	5.00	4.54	4.55	90.8	91.0	74.0-127			0.220	20
Chloroethane	5.00	2.76	5.56	55.2	111	61.0-134	J4	J3	67.3	20
Chloroform	5.00	4.89	4.85	97.8	97.0	72.0-123			0.821	20
Chloromethane	5.00	4.65	4.75	93.0	95.0	51.0-138			2.13	20
2-Chlorotoluene	5.00	5.56	4.89	111	97.8	75.0-124			12.8	20
4-Chlorotoluene	5.00	5.37	4.73	107	94.6	75.0-124			12.7	20
1,2-Dibromo-3-Chloropropane	5.00	4.76	4.39	95.2	87.8	59.0-130			8.09	20
1,2-Dibromoethane	5.00	4.94	4.85	98.8	97.0	74.0-128			1.84	20
Dibromomethane	5.00	5.14	5.09	103	102	75.0-122			0.978	20
1,2-Dichlorobenzene	5.00	5.54	4.99	111	99.8	76.0-124			10.4	20
1,3-Dichlorobenzene	5.00	5.33	4.81	107	96.2	76.0-125			10.3	20
1,4-Dichlorobenzene	5.00	5.46	4.87	109	97.4	77.0-121			11.4	20
trans-1,4-Dichloro-2-butene	5.00	5.22	3.89	104	77.8	45.0-143		J3	29.2	20
Dichlorodifluoromethane	5.00	5.84	5.83	117	117	43.0-156			0.171	20
1,1-Dichloroethane	5.00	5.12	5.08	102	102	70.0-127			0.784	20
1,2-Dichloroethane	5.00	4.97	4.94	99.4	98.8	65.0-131			0.605	20
1,1-Dichloroethene	5.00	5.24	5.44	105	109	65.0-131			3.75	20
cis-1,2-Dichloroethene	5.00	5.05	5.14	101	103	73.0-125			1.77	20
trans-1,2-Dichloroethene	5.00	4.98	5.04	99.6	101	71.0-125			1.20	20
1,2-Dichloropropane	5.00	5.09	4.92	102	98.4	74.0-125			3.40	20
1,1-Dichloropropene	5.00	5.08	4.86	102	97.2	73.0-125			4.43	20
1,3-Dichloropropane	5.00	4.97	4.81	99.4	96.2	80.0-125			3.27	20
cis-1,3-Dichloropropene	5.00	5.08	4.98	102	99.6	76.0-127			1.99	20
trans-1,3-Dichloropropene	5.00	4.78	4.62	95.6	92.4	73.0-127			3.40	20
2,2-Dichloropropane	5.00	5.93	6.46	119	129	59.0-135			8.56	20
Di-isopropyl ether	5.00	4.84	4.93	96.8	98.6	60.0-136			1.84	20

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

(LCS) R4145414-1 11/13/24 02:12 • (LCSD) R4145414-2 11/13/24 02:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	4.97	4.80	99.4	96.0	74.0-126			3.48	20
Hexachloro-1,3-butadiene	5.00	5.38	5.01	108	100	57.0-150			7.12	20
2-Hexanone	25.0	23.7	24.0	94.8	96.0	54.0-147			1.26	20
n-Hexane	5.00	4.56	4.18	91.2	83.6	55.0-137			8.70	20
Iodomethane	25.0	25.9	27.4	104	110	74.0-134			5.63	20
Isopropylbenzene	5.00	5.20	5.12	104	102	72.0-127			1.55	20
p-Isopropyltoluene	5.00	5.46	4.92	109	98.4	72.0-133			10.4	20
2-Butanone (MEK)	25.0	27.9	27.9	112	112	30.0-160			0.000	24
Methylene Chloride	5.00	5.79	6.21	116	124	68.0-123		J4	7.00	20
4-Methyl-2-pentanone (MIBK)	25.0	29.2	28.3	117	113	56.0-143			3.13	20
Methyl tert-butyl ether	5.00	5.17	5.55	103	111	66.0-132			7.09	20
Naphthalene	5.00	5.48	4.96	110	99.2	59.0-130			9.96	20
n-Propylbenzene	5.00	5.28	4.62	106	92.4	74.0-126			13.3	20
Styrene	5.00	5.00	5.02	100	100	72.0-127			0.399	20
1,1,1,2-Tetrachloroethane	5.00	4.97	5.02	99.4	100	74.0-129			1.00	20
1,1,2,2-Tetrachloroethane	5.00	5.34	4.80	107	96.0	68.0-128			10.7	20
1,1,2-Trichlorotrifluoroethane	5.00	5.33	5.32	107	106	61.0-139			0.188	20
Tetrachloroethene	5.00	5.15	4.94	103	98.8	70.0-136			4.16	20
Toluene	5.00	4.80	4.53	96.0	90.6	75.0-121			5.79	20
1,2,3-Trichlorobenzene	5.00	5.62	5.15	112	103	59.0-139			8.73	20
1,2,4-Trichlorobenzene	5.00	5.64	5.03	113	101	62.0-137			11.4	20
1,1,1-Trichloroethane	5.00	5.43	5.68	109	114	69.0-126			4.50	20
1,1,2-Trichloroethane	5.00	5.18	5.03	104	101	78.0-123			2.94	20
Trichloroethene	5.00	4.99	4.87	99.8	97.4	76.0-126			2.43	20
Trichlorofluoromethane	5.00	3.64	5.43	72.8	109	61.0-142	J	J J3	39.5	20
1,2,3-Trichloropropane	5.00	6.09	5.38	122	108	67.0-129			12.4	20
1,2,4-Trimethylbenzene	5.00	5.48	4.82	110	96.4	70.0-126			12.8	20
1,2,3-Trimethylbenzene	5.00	5.23	4.71	105	94.2	74.0-124			10.5	20
1,3,5-Trimethylbenzene	5.00	5.33	4.68	107	93.6	73.0-127			13.0	20
Vinyl acetate	25.0	25.0	23.8	100	95.2	43.0-159			4.92	20
Vinyl chloride	5.00	5.52	5.59	110	112	63.0-134			1.26	20
Xylenes, Total	15.0	14.6	14.2	97.3	94.7	72.0-127			2.78	20
(S) Toluene-d8				*98.0*	*96.1*	*75.0-131*				
(S) 4-Bromofluorobenzene				*97.9*	*102*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*106*	*108*	*70.0-130*				

Method Blank (MB)

(MB) R4147880-2 11/17/24 14:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.0212	0.100
2-Hexanone	U		0.400	1.00
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	*95.5*			*75.0-131*
(S) 4-Bromofluorobenzene	*92.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*91.3*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4147880-1 11/17/24 13:23

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	5.00	5.29	106	74.0-126	
2-Hexanone	25.0	29.1	116	54.0-147	
Naphthalene	5.00	4.09	81.8	59.0-130	
n-Propylbenzene	5.00	5.42	108	74.0-126	
1,2,4-Trimethylbenzene	5.00	4.83	96.6	70.0-126	
1,2,3-Trimethylbenzene	5.00	4.85	97.0	74.0-124	
1,3,5-Trimethylbenzene	5.00	5.22	104	73.0-127	
Xylenes, Total	15.0	16.7	111	72.0-127	
(S) Toluene-d8			*105*	*75.0-131*	
(S) 4-Bromofluorobenzene			*103*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*94.6*	*70.0-130*	

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.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

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	LAO000356
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

Report to: **Daniel Balbiani**

Email To: **Daniel.balbiani@nv5.com;sam.graber@nv5.com**

Project Description: **American Linen**

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project # **1413001.10.701.02**

Lab Project # **PESENVSWA-ALP**

Collected by (print): D. Del Gaudio

Site/Facility ID #

P.O. # **443022-1413001.10.701**

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**Nitr,chl,sulf 9056 250mlHDPE-NoPres	ALK 2320B 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	FE,MN total 6020 250mlHDPE-HNO3	TOC 9060 250mlAmb-HCl	VOCS 8260ULL 40mlAmb-HCl					Remarks	Sample # (lab only)
MW-330-11052024	G	GW	—	11/5/24	1011	3						X						-01
MW-301-11052024		GW			1122	3						X						02
MW124-11052024		GW			1229	3						X						03
MW125-11052024		GW			1320	3						X						04
MW-189-11052024		GW			1432	9	X	X	X	X	X	X						05
TB-110524		GW			—	1						X						06
MW-156-110524		GW			1225	9	X	X	X	X	X	X						07
MW-158A-110524		GW			1450	3						X						08
		GW																
		GW																

Per Akanksha 11/7

Updated to MW124-110524 and MW125-110524 - JD

Per Akanksha 12/11

Updated to MW-330-110524
MW-301-110524
MW-189-110524
MW-156-110524
MW-158A-110524

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE
L17966648
MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # J040

Acctnum: **PESENVSWA**
Template: **T262759**
Prelogin: **P1110133**
PM: **3768 - Jordan Dozier**
PB: LM 10/23/24
Shipped Via: **FedEX Ground**

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

Remarks:

PH-10BDH5021
TRC-3223A2026

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 421264727435

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL/ MeoH TBR
	11/5/24	1552		1
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 4.0+0.3=4.3 3
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/6/24 Time: 900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

ANALYTICAL REPORT

November 15, 2024

PES Environmental, Inc.- WA

Sample Delivery Group:	L1796726
Samples Received:	11/07/2024
Project Number:	1413001.10.603.04
Description:	American Linen

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

Entire Report Reviewed By:

J Dozier

Jordan Dozier
Project Manager

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

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-347-110624 L1796726-01 GW

Collected by | Collected date/time 11/06/24 11:00 | Received date/time 11/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2397503	1	11/09/24 09:54	11/09/24 09:54	KA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2397331	1	11/07/24 21:02	11/07/24 21:02	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2397988	1	11/08/24 15:03	11/08/24 15:03	AF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2399540	1	11/13/24 18:42	11/14/24 12:11	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2398843	1	11/11/24 11:17	11/11/24 11:17	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 04:46	11/13/24 04:46	JHH	Mt. Juliet, TN

MW106-110624 L1796726-02 GW

Collected by | Collected date/time 11/06/24 14:00 | Received date/time 11/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 05:05	11/13/24 05:05	JHH	Mt. Juliet, TN

HMW-9IB-110624 L1796726-04 GW

Collected by | Collected date/time 11/06/24 10:57 | Received date/time 11/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2397503	1	11/09/24 10:00	11/09/24 10:00	KA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2397331	1	11/07/24 21:20	11/07/24 21:20	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2397988	1	11/08/24 15:22	11/08/24 15:22	AF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2399540	1	11/13/24 18:42	11/14/24 12:14	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2398843	1	11/11/24 11:22	11/11/24 11:22	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2399629	10	11/11/24 15:22	11/11/24 15:22	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 05:24	11/13/24 05:24	JHH	Mt. Juliet, TN

MW-344-110624 L1796726-05 GW

Collected by | Collected date/time 11/06/24 12:44 | Received date/time 11/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 05:43	11/13/24 05:43	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400912	20	11/13/24 19:06	11/13/24 19:06	JHH	Mt. Juliet, TN

MW-349-110624 L1796726-06 GW

Collected by | Collected date/time 11/06/24 14:24 | Received date/time 11/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2397503	1	11/09/24 10:04	11/09/24 10:04	KA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2397331	1	11/07/24 21:37	11/07/24 21:37	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2397988	1	11/08/24 15:44	11/08/24 15:44	AF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2399540	1	11/13/24 18:42	11/14/24 12:17	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2398843	1	11/11/24 11:28	11/11/24 11:28	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 06:02	11/13/24 06:02	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400912	1	11/13/24 17:09	11/13/24 17:09	JHH	Mt. Juliet, TN

TB-110624 L1796726-07 GW

Collected by | Collected date/time 11/06/24 00:00 | Received date/time 11/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 04:07	11/13/24 04:07	JHH	Mt. Juliet, TN

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

CASE NARRATIVE

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

Jordan Dozier
Project Manager

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	207000		4750	20000	1	11/09/2024 09:54	WG2397503

Sample Narrative:

L1796726-01 WG2397503: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	32000		547	1000	1	11/07/2024 21:02	WG2397331
Nitrate as (N)	U		88.4	100	1	11/07/2024 21:02	WG2397331
Sulfate	42000		637	5000	1	11/07/2024 21:02	WG2397331

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1330		495	1000	1	11/08/2024 15:03	WG2397988

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	347		22.6	100	1	11/14/2024 12:11	WG2399540
Manganese	118		0.700	5.00	1	11/14/2024 12:11	WG2399540

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	554		0.287	0.678	1	11/11/2024 11:17	WG2398843
Ethane	2.50		0.296	1.29	1	11/11/2024 11:17	WG2398843
Ethene	9.25		0.422	1.27	1	11/11/2024 11:17	WG2398843

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	5.59	C5 J4	0.548	1.00	1	11/13/2024 04:46	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 04:46	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 04:46	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 04:46	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 04:46	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 04:46	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 04:46	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 04:46	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 04:46	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 04:46	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 04:46	WG2400372
Carbon disulfide	0.234	J	0.162	0.500	1	11/13/2024 04:46	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 04:46	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 04:46	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 04:46	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 04:46	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 04:46	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 04:46	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 04:46	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 04:46	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 04:46	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 04:46	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 04:46	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 04:46	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 04:46	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 04:46	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 04:46	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 04:46	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 04:46	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 04:46	WG2400372
1,1-Dichloroethene	0.0290	J	0.0200	0.100	1	11/13/2024 04:46	WG2400372
cis-1,2-Dichloroethene	0.829		0.0276	0.100	1	11/13/2024 04:46	WG2400372
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 04:46	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 04:46	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 04:46	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 04:46	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 04:46	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 04:46	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 04:46	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 04:46	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 04:46	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 04:46	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 04:46	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 04:46	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 04:46	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 04:46	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 04:46	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 04:46	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 04:46	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 04:46	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 04:46	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 04:46	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 04:46	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 04:46	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 04:46	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 04:46	WG2400372
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 04:46	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 04:46	WG2400372
Toluene	0.0790	J	0.0500	0.200	1	11/13/2024 04:46	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 04:46	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 04:46	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 04:46	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 04:46	WG2400372
Trichloroethene	0.0960		0.0160	0.0400	1	11/13/2024 04:46	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 04:46	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 04:46	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 04:46	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 04:46	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 04:46	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 04:46	WG2400372
Vinyl chloride	6.02		0.0273	0.100	1	11/13/2024 04:46	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 04:46	WG2400372
(S) Toluene-d8	*99.2*			*75.0-131*		*11/13/2024 04:46*	WG2400372
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/13/2024 04:46*	WG2400372
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/13/2024 04:46*	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/13/2024 05:05	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 05:05	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 05:05	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 05:05	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 05:05	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 05:05	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 05:05	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 05:05	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 05:05	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 05:05	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 05:05	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 05:05	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 05:05	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 05:05	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 05:05	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 05:05	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 05:05	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 05:05	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 05:05	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 05:05	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 05:05	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 05:05	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 05:05	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 05:05	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 05:05	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 05:05	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 05:05	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 05:05	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 05:05	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 05:05	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 05:05	WG2400372
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/13/2024 05:05	WG2400372
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 05:05	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 05:05	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 05:05	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 05:05	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 05:05	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 05:05	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 05:05	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 05:05	WG2400372
Ethylbenzene	0.0830	J	0.0212	0.100	1	11/13/2024 05:05	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 05:05	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 05:05	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 05:05	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 05:05	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 05:05	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 05:05	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 05:05	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 05:05	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 05:05	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 05:05	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 05:05	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 05:05	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 05:05	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 05:05	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 05:05	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 05:05	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 05:05	WG2400372
Toluene	0.0650	J	0.0500	0.200	1	11/13/2024 05:05	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 05:05	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 05:05	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 05:05	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 05:05	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 05:05	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 05:05	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 05:05	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 05:05	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 05:05	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 05:05	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 05:05	WG2400372
Vinyl chloride	U		0.0273	0.100	1	11/13/2024 05:05	WG2400372
Xylenes, Total	0.417		0.191	0.260	1	11/13/2024 05:05	WG2400372
(S) Toluene-d8	*99.1*			*75.0-131*		*11/13/2024 05:05*	WG2400372
(S) 4-Bromofluorobenzene	*99.5*			*67.0-138*		*11/13/2024 05:05*	WG2400372
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/13/2024 05:05*	WG2400372

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	903000		4750	20000	1	11/09/2024 10:00	WG2397503

Sample Narrative:

L1796726-04 WG2397503: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	71600		547	1000	1	11/07/2024 21:20	WG2397331
Nitrate as (N)	232		88.4	100	1	11/07/2024 21:20	WG2397331
Sulfate	U		637	5000	1	11/07/2024 21:20	WG2397331

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6670		495	1000	1	11/08/2024 15:22	WG2397988

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	11200		22.6	100	1	11/14/2024 12:14	WG2399540
Manganese	2280		0.700	5.00	1	11/14/2024 12:14	WG2399540

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	34600		2.87	6.78	10	11/11/2024 15:22	WG2399629
Ethane	488		0.296	1.29	1	11/11/2024 11:22	WG2398843
Ethene	U		0.422	1.27	1	11/11/2024 11:22	WG2398843

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	3.04	C5 J4	0.548	1.00	1	11/13/2024 05:24	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 05:24	WG2400372
Benzene	0.0260	J	0.0160	0.0400	1	11/13/2024 05:24	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 05:24	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 05:24	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 05:24	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 05:24	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 05:24	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 05:24	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 05:24	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 05:24	WG2400372
Carbon disulfide	0.204	J	0.162	0.500	1	11/13/2024 05:24	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 05:24	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 05:24	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 05:24	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 05:24	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 05:24	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 05:24	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 05:24	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 05:24	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 05:24	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 05:24	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 05:24	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 05:24	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 05:24	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 05:24	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 05:24	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 05:24	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 05:24	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 05:24	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 05:24	WG2400372
cis-1,2-Dichloroethene	3.58		0.0276	0.100	1	11/13/2024 05:24	WG2400372
trans-1,2-Dichloroethene	0.427		0.0572	0.200	1	11/13/2024 05:24	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 05:24	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 05:24	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 05:24	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 05:24	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 05:24	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 05:24	WG2400372
Di-isopropyl ether	0.0940		0.0140	0.0400	1	11/13/2024 05:24	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 05:24	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 05:24	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 05:24	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 05:24	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 05:24	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 05:24	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 05:24	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 05:24	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 05:24	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 05:24	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 05:24	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 05:24	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 05:24	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 05:24	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 05:24	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 05:24	WG2400372
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 05:24	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 05:24	WG2400372
Toluene	0.466		0.0500	0.200	1	11/13/2024 05:24	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 05:24	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 05:24	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 05:24	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 05:24	WG2400372
Trichloroethene	0.263		0.0160	0.0400	1	11/13/2024 05:24	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 05:24	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 05:24	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 05:24	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 05:24	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 05:24	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 05:24	WG2400372
Vinyl chloride	3.23		0.0273	0.100	1	11/13/2024 05:24	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 05:24	WG2400372
(S) Toluene-d8	*98.6*			*75.0-131*		*11/13/2024 05:24*	WG2400372
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/13/2024 05:24*	WG2400372
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/13/2024 05:24*	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/13/2024 05:43	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 05:43	WG2400372
Benzene	0.0170	J	0.0160	0.0400	1	11/13/2024 05:43	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 05:43	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 05:43	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 05:43	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 05:43	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 05:43	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 05:43	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 05:43	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 05:43	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 05:43	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 05:43	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 05:43	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 05:43	WG2400372
Chloroethane	0.674	C3 J3 J4	0.0432	0.200	1	11/13/2024 05:43	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 05:43	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 05:43	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 05:43	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 05:43	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 05:43	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 05:43	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 05:43	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 05:43	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 05:43	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 05:43	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 05:43	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 05:43	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 05:43	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 05:43	WG2400372
1,1-Dichloroethene	0.461		0.0200	0.100	1	11/13/2024 05:43	WG2400372
cis-1,2-Dichloroethene	257		0.552	2.00	20	11/13/2024 19:06	WG2400912
trans-1,2-Dichloroethene	3.19		0.0572	0.200	1	11/13/2024 05:43	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 05:43	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 05:43	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 05:43	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 05:43	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 05:43	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 05:43	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 05:43	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 05:43	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 05:43	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 05:43	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 05:43	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 05:43	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 05:43	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 05:43	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 05:43	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 05:43	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 05:43	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 05:43	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 05:43	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 05:43	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 05:43	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 05:43	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 05:43	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 05:43	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 05:43	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 05:43	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 05:43	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 05:43	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 05:43	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 05:43	WG2400372
Trichloroethene	0.880		0.0160	0.0400	1	11/13/2024 05:43	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 05:43	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 05:43	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 05:43	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 05:43	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 05:43	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 05:43	WG2400372
Vinyl chloride	480		0.546	2.00	20	11/13/2024 19:06	WG2400912
Xylenes, Total	U		0.191	0.260	1	11/13/2024 05:43	WG2400372
(S) Toluene-d8	*97.0*			*75.0-131*		*11/13/2024 05:43*	WG2400372
(S) Toluene-d8	*101*			*75.0-131*		*11/13/2024 19:06*	WG2400912
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/13/2024 05:43*	WG2400372
(S) 4-Bromofluorobenzene	*93.7*			*67.0-138*		*11/13/2024 19:06*	WG2400912
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*11/13/2024 05:43*	WG2400372
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/13/2024 19:06*	WG2400912

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	437000		4750	20000	1	11/09/2024 10:04	WG2397503

Sample Narrative:

L1796726-06 WG2397503: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	33000		547	1000	1	11/07/2024 21:37	WG2397331
Nitrate as (N)	U		88.4	100	1	11/07/2024 21:37	WG2397331
Sulfate	9890		637	5000	1	11/07/2024 21:37	WG2397331

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2360		495	1000	1	11/08/2024 15:44	WG2397988

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3980		22.6	100	1	11/14/2024 12:17	WG2399540
Manganese	426		0.700	5.00	1	11/14/2024 12:17	WG2399540

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	5940		0.287	0.678	1	11/11/2024 11:28	WG2398843
Ethane	1.21	J	0.296	1.29	1	11/11/2024 11:28	WG2398843
Ethene	1.60		0.422	1.27	1	11/11/2024 11:28	WG2398843

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	66.4	C5 J4	0.548	1.00	1	11/13/2024 06:02	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 06:02	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 06:02	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 06:02	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 06:02	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 06:02	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 06:02	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 06:02	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 06:02	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 06:02	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 06:02	WG2400372
Carbon disulfide	0.269	J	0.162	0.500	1	11/13/2024 06:02	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 06:02	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 06:02	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 06:02	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 06:02	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 06:02	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 06:02	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 06:02	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 06:02	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 06:02	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 06:02	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 06:02	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 06:02	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 06:02	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 06:02	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 06:02	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 06:02	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 06:02	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 06:02	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 06:02	WG2400372
cis-1,2-Dichloroethene	0.376		0.0276	0.100	1	11/13/2024 17:09	WG2400912
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 06:02	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 06:02	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 06:02	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 06:02	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 06:02	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 06:02	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 06:02	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 06:02	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 06:02	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 06:02	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 06:02	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 06:02	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 06:02	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 06:02	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 06:02	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 06:02	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 06:02	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 06:02	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 06:02	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 06:02	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 06:02	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 06:02	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 06:02	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 06:02	WG2400372
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 06:02	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 06:02	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 06:02	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 06:02	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 06:02	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 06:02	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 06:02	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 06:02	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 06:02	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 06:02	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 06:02	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 06:02	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 06:02	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 06:02	WG2400372
Vinyl chloride	0.554		0.0273	0.100	1	11/13/2024 17:09	WG2400912
Xylenes, Total	U		0.191	0.260	1	11/13/2024 06:02	WG2400372
(S) Toluene-d8	*94.6*			*75.0-131*		*11/13/2024 06:02*	WG2400372
(S) Toluene-d8	*98.3*			*75.0-131*		*11/13/2024 17:09*	WG2400912
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*11/13/2024 06:02*	WG2400372
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*11/13/2024 17:09*	WG2400912

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*11/13/2024 06:02*	WG2400372
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/13/2024 17:09*	WG2400912

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	5.60	C5 J4	0.548	1.00	1	11/13/2024 04:07	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 04:07	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 04:07	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 04:07	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 04:07	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 04:07	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 04:07	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 04:07	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 04:07	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 04:07	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 04:07	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 04:07	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 04:07	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 04:07	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 04:07	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 04:07	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 04:07	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 04:07	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 04:07	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 04:07	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 04:07	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 04:07	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 04:07	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 04:07	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 04:07	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 04:07	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 04:07	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 04:07	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 04:07	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 04:07	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 04:07	WG2400372
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/13/2024 04:07	WG2400372
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 04:07	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 04:07	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 04:07	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 04:07	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 04:07	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 04:07	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 04:07	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 04:07	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 04:07	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 04:07	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 04:07	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 04:07	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 04:07	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 04:07	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 04:07	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 04:07	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 04:07	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 04:07	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 04:07	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 04:07	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 04:07	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 04:07	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 04:07	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 04:07	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 04:07	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 04:07	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 04:07	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 04:07	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 04:07	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 04:07	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 04:07	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 04:07	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 04:07	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 04:07	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 04:07	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 04:07	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 04:07	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 04:07	WG2400372
Vinyl chloride	U		0.0273	0.100	1	11/13/2024 04:07	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 04:07	WG2400372
(S) Toluene-d8	*101*			*75.0-131*		*11/13/2024 04:07*	WG2400372
(S) 4-Bromofluorobenzene	*97.4*			*67.0-138*		*11/13/2024 04:07*	WG2400372
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/13/2024 04:07*	WG2400372

Method Blank (MB)

(MB) R4144048-2 11/09/24 07:44

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1796715-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1796715-01 11/09/24 08:03 • (DUP) R4144048-3 11/09/24 08:07

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	120000	120000	1	0.00183		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

L1796716-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1796716-01 11/09/24 09:43 • (DUP) R4144048-4 11/09/24 09:49

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	199000	201000	1	0.693		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4144048-1 11/09/24 07:37

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

Sample Narrative:

LCS: Endpoint pH 4.5

QUALITY CONTROL SUMMARY

L1796726-01,04,06

Method Blank (MB)

(MB) R4144605-1 11/07/24 14:04

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

L1796677-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1796677-01 11/07/24 14:39 • (DUP) R4144605-3 11/07/24 14:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	170000	168000	1	1.05		15
Nitrate as (N)	89.1	115	1	25.2	P1	15
Sulfate	6400	6150	1	4.06		15

L1796698-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1796698-01 11/07/24 15:49 • (DUP) R4144605-6 11/07/24 16:24

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	330000	329000	1	0.243	E	15
Nitrate as (N)	118	114	1	3.79		15
Sulfate	707000	705000	1	0.347	E	15

L1796698-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1796698-01 11/07/24 16:06 • (DUP) R4144605-7 11/07/24 16:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Sulfate	711000	713000	10	0.340		15

Laboratory Control Sample (LCS)

(LCS) R4144605-2 11/07/24 14:22

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	40400	101	80.0-120	
Nitrate as (N)	8000	7960	99.6	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4144605-2 11/07/24 14:22

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40000	41800	104	80.0-120	

L1796677-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1796677-01 11/07/24 14:39 • (MS) R4144605-4 11/07/24 15:14 • (MSD) R4144605-5 11/07/24 15:31

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	170000	173000	175000	9.03	13.0	1	80.0-120	V	V	0.918	15
Nitrate as (N)	8000	89.1	4110	4180	50.3	51.1	1	80.0-120	J6	J6	1.54	15
Sulfate	40000	6400	46800	47300	101	102	1	80.0-120			1.05	15

L1796698-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1796698-01 11/07/24 15:49 • (MS) R4144605-8 11/07/24 16:58

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	330000	302000	0.000	1	80.0-120	E V
Nitrate as (N)	8000	118	8270	102	1	80.0-120	
Sulfate	40000	707000	603000	0.000	1	80.0-120	E V

Method Blank (MB)

(MB) R4144331-2 11/08/24 11:12

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

L1796703-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1796703-12 11/08/24 13:44 • (DUP) R4144331-5 11/08/24 14:24

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	3000	2680	1	11.3		20

L1796922-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1796922-02 11/08/24 19:00 • (DUP) R4144331-8 11/08/24 19:20

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	7160	7080	1	1.14		20

Laboratory Control Sample (LCS)

(LCS) R4144331-1 11/08/24 10:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25000	24000	96.0	85.0-115	

L1796552-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1796552-13 11/08/24 12:02 • (MS) R4144331-3 11/08/24 12:23 • (MSD) R4144331-4 11/08/24 12:44

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	3660	25500	23700	87.2	80.2	1	85.0-115		J6	7.12	20

L1796865-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1796865-10 11/08/24 17:39 • (MS) R4144331-6 11/08/24 18:00 • (MSD) R4144331-7 11/08/24 18:20

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	13900	38000	38300	96.6	97.6	1	85.0-115			0.629	20

Method Blank (MB)

(MB) R4145956-1 11/14/24 11:18

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

Laboratory Control Sample (LCS)

(LCS) R4145956-2 11/14/24 11:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	1000	1010	101	80.0-120	
Manganese	50.0	52.3	105	80.0-120	

L1796934-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1796934-11 11/14/24 11:24 • (MS) R4145956-4 11/14/24 11:30 • (MSD) R4145956-5 11/14/24 11:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	1000	4350	5360	5450	101	110	1	75.0-125			1.78	20
Manganese	50.0	1430	1460	1480	61.7	101	1	75.0-125	V		1.34	20

Method Blank (MB)

(MB) R4144494-2 11/11/24 11:11

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

L1796769-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1796769-07 11/11/24 12:08 • (DUP) R4144494-3 11/11/24 13:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	25.8	28.1	1	8.53		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1796769-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1796769-11 11/11/24 13:30 • (DUP) R4144494-4 11/11/24 14:10

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

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

(LCS) R4144494-1 11/11/24 11:06 • (LCSD) R4144494-5 11/11/24 14:19

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	63.1	65.2	93.1	96.2	85.0-115			3.27	20
Ethane	129	119	118	92.2	91.5	85.0-115			0.844	20
Ethene	127	120	118	94.5	92.9	85.0-115			1.68	20

Method Blank (MB)

(MB) R4144603-2 11/11/24 15:18

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

L1796922-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1796922-01 11/11/24 16:04 • (DUP) R4144603-3 11/11/24 16:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	16600	15700	10	5.57		20

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

(LCS) R4144603-1 11/11/24 15:11 • (LCSD) R4144603-4 11/11/24 16:16

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	64.1	64.0	94.5	94.4	85.0-115			0.156	20

Method Blank (MB)

(MB) R4145414-3 11/13/24 03:29

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	0.0230	J	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

Method Blank (MB)

(MB) R4145414-3 11/13/24 03:29

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	*98.8*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*

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

(LCS) R4145414-1 11/13/24 02:12 • (LCSD) R4145414-2 11/13/24 02:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	39.3	40.7	157	163	10.0-160		J4	3.50	31
Acrylonitrile	25.0	33.6	30.8	134	123	45.0-153			8.70	22
Benzene	5.00	4.74	4.62	94.8	92.4	70.0-123			2.56	20
Bromobenzene	5.00	5.57	4.91	111	98.2	73.0-121			12.6	20
Bromochloromethane	5.00	5.62	5.74	112	115	77.0-128			2.11	20
Bromodichloromethane	5.00	4.83	4.88	96.6	97.6	73.0-121			1.03	20
Bromoform	5.00	4.19	4.47	83.8	89.4	64.0-132			6.47	20
Bromomethane	5.00	4.10	6.10	82.0	122	56.0-147		J3	39.2	20
n-Butylbenzene	5.00	5.30	4.72	106	94.4	68.0-135			11.6	20
sec-Butylbenzene	5.00	5.32	4.69	106	93.8	74.0-130			12.6	20
tert-Butylbenzene	5.00	5.39	4.83	108	96.6	75.0-127			11.0	20
Carbon disulfide	5.00	4.35	4.67	87.0	93.4	56.0-133			7.10	20
Carbon tetrachloride	5.00	5.41	5.59	108	112	66.0-128			3.27	20
Chlorobenzene	5.00	4.84	4.72	96.8	94.4	76.0-128			2.51	20
Chlorodibromomethane	5.00	4.54	4.55	90.8	91.0	74.0-127			0.220	20
Chloroethane	5.00	2.76	5.56	55.2	111	61.0-134	J4	J3	67.3	20
Chloroform	5.00	4.89	4.85	97.8	97.0	72.0-123			0.821	20
Chloromethane	5.00	4.65	4.75	93.0	95.0	51.0-138			2.13	20
2-Chlorotoluene	5.00	5.56	4.89	111	97.8	75.0-124			12.8	20
4-Chlorotoluene	5.00	5.37	4.73	107	94.6	75.0-124			12.7	20
1,2-Dibromo-3-Chloropropane	5.00	4.76	4.39	95.2	87.8	59.0-130			8.09	20
1,2-Dibromoethane	5.00	4.94	4.85	98.8	97.0	74.0-128			1.84	20
Dibromomethane	5.00	5.14	5.09	103	102	75.0-122			0.978	20
1,2-Dichlorobenzene	5.00	5.54	4.99	111	99.8	76.0-124			10.4	20
1,3-Dichlorobenzene	5.00	5.33	4.81	107	96.2	76.0-125			10.3	20
1,4-Dichlorobenzene	5.00	5.46	4.87	109	97.4	77.0-121			11.4	20
trans-1,4-Dichloro-2-butene	5.00	5.22	3.89	104	77.8	45.0-143		J3	29.2	20
Dichlorodifluoromethane	5.00	5.84	5.83	117	117	43.0-156			0.171	20
1,1-Dichloroethane	5.00	5.12	5.08	102	102	70.0-127			0.784	20
1,2-Dichloroethane	5.00	4.97	4.94	99.4	98.8	65.0-131			0.605	20
1,1-Dichloroethene	5.00	5.24	5.44	105	109	65.0-131			3.75	20
cis-1,2-Dichloroethene	5.00	5.05	5.14	101	103	73.0-125			1.77	20
trans-1,2-Dichloroethene	5.00	4.98	5.04	99.6	101	71.0-125			1.20	20
1,2-Dichloropropane	5.00	5.09	4.92	102	98.4	74.0-125			3.40	20
1,1-Dichloropropene	5.00	5.08	4.86	102	97.2	73.0-125			4.43	20
1,3-Dichloropropane	5.00	4.97	4.81	99.4	96.2	80.0-125			3.27	20
cis-1,3-Dichloropropene	5.00	5.08	4.98	102	99.6	76.0-127			1.99	20
trans-1,3-Dichloropropene	5.00	4.78	4.62	95.6	92.4	73.0-127			3.40	20
2,2-Dichloropropane	5.00	5.93	6.46	119	129	59.0-135			8.56	20
Di-isopropyl ether	5.00	4.84	4.93	96.8	98.6	60.0-136			1.84	20

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

(LCS) R4145414-1 11/13/24 02:12 • (LCSD) R4145414-2 11/13/24 02:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	4.97	4.80	99.4	96.0	74.0-126			3.48	20
Hexachloro-1,3-butadiene	5.00	5.38	5.01	108	100	57.0-150			7.12	20
2-Hexanone	25.0	23.7	24.0	94.8	96.0	54.0-147			1.26	20
n-Hexane	5.00	4.56	4.18	91.2	83.6	55.0-137			8.70	20
Iodomethane	25.0	25.9	27.4	104	110	74.0-134			5.63	20
Isopropylbenzene	5.00	5.20	5.12	104	102	72.0-127			1.55	20
p-Isopropyltoluene	5.00	5.46	4.92	109	98.4	72.0-133			10.4	20
2-Butanone (MEK)	25.0	27.9	27.9	112	112	30.0-160			0.000	24
Methylene Chloride	5.00	5.79	6.21	116	124	68.0-123		J4	7.00	20
4-Methyl-2-pentanone (MIBK)	25.0	29.2	28.3	117	113	56.0-143			3.13	20
Methyl tert-butyl ether	5.00	5.17	5.55	103	111	66.0-132			7.09	20
Naphthalene	5.00	5.48	4.96	110	99.2	59.0-130			9.96	20
n-Propylbenzene	5.00	5.28	4.62	106	92.4	74.0-126			13.3	20
Styrene	5.00	5.00	5.02	100	100	72.0-127			0.399	20
1,1,1,2-Tetrachloroethane	5.00	4.97	5.02	99.4	100	74.0-129			1.00	20
1,1,2,2-Tetrachloroethane	5.00	5.34	4.80	107	96.0	68.0-128			10.7	20
1,1,2-Trichlorotrifluoroethane	5.00	5.33	5.32	107	106	61.0-139			0.188	20
Tetrachloroethene	5.00	5.15	4.94	103	98.8	70.0-136			4.16	20
Toluene	5.00	4.80	4.53	96.0	90.6	75.0-121			5.79	20
1,2,3-Trichlorobenzene	5.00	5.62	5.15	112	103	59.0-139			8.73	20
1,2,4-Trichlorobenzene	5.00	5.64	5.03	113	101	62.0-137			11.4	20
1,1,1-Trichloroethane	5.00	5.43	5.68	109	114	69.0-126			4.50	20
1,1,2-Trichloroethane	5.00	5.18	5.03	104	101	78.0-123			2.94	20
Trichloroethene	5.00	4.99	4.87	99.8	97.4	76.0-126			2.43	20
Trichlorofluoromethane	5.00	3.64	5.43	72.8	109	61.0-142	J	J J3	39.5	20
1,2,3-Trichloropropane	5.00	6.09	5.38	122	108	67.0-129			12.4	20
1,2,4-Trimethylbenzene	5.00	5.48	4.82	110	96.4	70.0-126			12.8	20
1,2,3-Trimethylbenzene	5.00	5.23	4.71	105	94.2	74.0-124			10.5	20
1,3,5-Trimethylbenzene	5.00	5.33	4.68	107	93.6	73.0-127			13.0	20
Vinyl acetate	25.0	25.0	23.8	100	95.2	43.0-159			4.92	20
Vinyl chloride	5.00	5.52	5.59	110	112	63.0-134			1.26	20
Xylenes, Total	15.0	14.6	14.2	97.3	94.7	72.0-127			2.78	20
(S) Toluene-d8				*98.0*	*96.1*	*75.0-131*				
(S) 4-Bromofluorobenzene				*97.9*	*102*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*106*	*108*	*70.0-130*				

Method Blank (MB)

(MB) R4145916-3 11/13/24 14:43

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	0.0280	J	0.0276	0.100
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*

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

(LCS) R4145916-1 11/13/24 13:25 • (LCSD) R4145916-2 11/13/24 13:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	5.00	4.58	4.83	91.6	96.6	73.0-125			5.31	20
Vinyl chloride	5.00	4.61	4.86	92.2	97.2	63.0-134			5.28	20
(S) Toluene-d8				*98.8*	*98.3*	*75.0-131*				
(S) 4-Bromofluorobenzene				*99.6*	*97.4*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*104*	*106*	*70.0-130*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
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	LAO000356
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

Report to:
Daniel Balbiani

Email To:
Daniel.balbiani@nv5.com;sam.graber@nv5.com

Project Description:
American Linen – SDOT

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413001.10.603.04

Lab Project #
PESENVSWA-ALP

Collected by (print):
D. Del Gardine

Site/Facility ID #

P.O. #
1413001.10.603.04

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Date Results Needed

Quote #

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**Nitr,chl,sulf 9056 250mlHDPE NoPres	ALK 2320B 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	FE,MN total 6020 250mlHDPE-HNO3	TOC 9060 250mlAmb-HCl	VOCS 8260ULL 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-347-110624	G	GW	—	11/6/24	1100	9	X	X	X	X	X	X		-9
MW106-110624		GW			1400	3						X		-01
HMW-9IB-110624		GW			1057	9	X	X	X	X	X	X		-03
MW-344-110624		GW			1244	3						X		-04
MW-349-110624		GW			1424	9	X	X	X	X	X	X		-05
~~TB-110624~~		GW				1						X	(NEW)	
TB-110624	—	GW	—	11/6/24	—	1							HOLD	-06
		GW												
		GW												
		GW												

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

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

SDG # L1796726
E243

Acctnum: **PESENVSWA**
Template: **T262759**
Prelogin: **P1112668**
PM: **3768 - Jordan Dozier**
PB:

Shipped Via: **FedEX Ground**

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

Remarks: Tier 2 lab QA/QC (batch QC ok)

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4212 6472 7490

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
	11/6/24	1552		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.1 °C 0.9+0=0.9 Bottles Received: 33	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Ei Darr 17	Date: 11-7-24 Time: 0900	Hold: / Condition: NCF / OK

ANALYTICAL REPORT

December 18, 2024

Revised Report

PES Environmental, Inc.- WA

Sample Delivery Group:	L1796865
Samples Received:	11/07/2024
Project Number:	1413001.10.701.02
Description:	American Linen

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

Entire Report Reviewed By:

J Dozier

Jordan Dozier
Project Manager

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

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-159-110524 L1796865-01 GW

Collected by	Collected date/time	Received date/time
	11/05/24 16:02	11/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 06:22	11/13/24 06:22	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400912	1	11/13/24 17:29	11/13/24 17:29	JHH	Mt. Juliet, TN

MW-190-110624 L1796865-02 GW

Collected by	Collected date/time	Received date/time
	11/06/24 08:16	11/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398654	1	11/09/24 08:18	11/09/24 08:18	KA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2397513	1	11/07/24 20:38	11/07/24 20:38	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2397988	1	11/08/24 16:03	11/08/24 16:03	AF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2399540	1	11/13/24 18:42	11/14/24 12:20	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2398842	1	11/10/24 14:20	11/10/24 14:20	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2399172	10	11/10/24 17:32	11/10/24 17:32	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 06:41	11/13/24 06:41	JHH	Mt. Juliet, TN

MW102-110624 L1796865-03 GW

Collected by	Collected date/time	Received date/time
	11/06/24 09:25	11/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 07:00	11/13/24 07:00	JHH	Mt. Juliet, TN

MW-319-110624 L1796865-04 GW

Collected by	Collected date/time	Received date/time
	11/06/24 11:19	11/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 07:19	11/13/24 07:19	JHH	Mt. Juliet, TN

MW-318-110624 L1796865-05 GW

Collected by	Collected date/time	Received date/time
	11/06/24 11:49	11/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 07:38	11/13/24 07:38	JHH	Mt. Juliet, TN

MW-317-110624 L1796865-06 GW

Collected by	Collected date/time	Received date/time
	11/06/24 12:17	11/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 07:58	11/13/24 07:58	JHH	Mt. Juliet, TN

MW116-110624 L1796865-07 GW

Collected by	Collected date/time	Received date/time
	11/06/24 13:29	11/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 08:17	11/13/24 08:17	JHH	Mt. Juliet, TN

MW-322-110624 L1796865-08 GW

Collected by	Collected date/time	Received date/time
	11/06/24 14:03	11/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398654	1	11/09/24 08:23	11/09/24 08:23	KA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2397513	1	11/07/24 20:52	11/07/24 20:52	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2397988	1	11/08/24 16:24	11/08/24 16:24	AF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2399540	1	11/13/24 18:42	11/14/24 12:23	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2398842	1	11/10/24 14:37	11/10/24 14:37	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 08:36	11/13/24 08:36	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2401614	20	11/17/24 18:04	11/17/24 18:04	JHH	Mt. Juliet, TN

MW-142-110624 L1796865-09 GW

Collected by	Collected date/time	Received date/time
	11/06/24 10:35	11/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398654	1	11/09/24 08:28	11/09/24 08:28	KA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2397513	1	11/07/24 21:06	11/07/24 21:06	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2397988	1	11/08/24 16:42	11/08/24 16:42	AF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2399540	1	11/13/24 18:42	11/14/24 12:48	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2398842	1	11/10/24 15:46	11/10/24 15:46	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 08:55	11/13/24 08:55	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2401614	1	11/17/24 17:26	11/17/24 17:26	JHH	Mt. Juliet, TN

MW-143-110624 L1796865-10 GW

Collected by	Collected date/time	Received date/time
	11/06/24 14:50	11/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398654	1	11/09/24 08:34	11/09/24 08:34	KA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2397513	1	11/07/24 21:19	11/07/24 21:19	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2397988	1	11/08/24 17:39	11/08/24 17:39	AF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2399540	1	11/13/24 18:42	11/14/24 12:52	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2398842	1	11/10/24 15:53	11/10/24 15:53	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 09:41	11/13/24 09:41	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

Report Revision History

Level II Report - Version 1: 11/20/24 10:26
Level II Report - Version 2: 11/26/24 14:43
Level II Report - Version 3: 12/13/24 15:30
Level II Report - Version 4: 12/16/24 10:19

Project Narrative

ID corrections

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.78	C5 J4	0.548	1.00	1	11/13/2024 06:22	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 06:22	WG2400372
Benzene	0.0410		0.0160	0.0400	1	11/13/2024 06:22	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 06:22	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 06:22	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 06:22	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 06:22	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 06:22	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 06:22	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 06:22	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 06:22	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 06:22	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 06:22	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 06:22	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 06:22	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 06:22	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 06:22	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 06:22	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 06:22	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 06:22	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 06:22	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 06:22	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 06:22	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 06:22	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 06:22	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 06:22	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 06:22	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 06:22	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 06:22	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 06:22	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 06:22	WG2400372
cis-1,2-Dichloroethene	0.173	B	0.0276	0.100	1	11/13/2024 17:29	WG2400912
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 06:22	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 06:22	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 06:22	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 06:22	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 06:22	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 06:22	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 06:22	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 06:22	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 06:22	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 06:22	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 06:22	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 06:22	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 06:22	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 06:22	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 06:22	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 06:22	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 06:22	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 06:22	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 06:22	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 06:22	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 06:22	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 06:22	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 06:22	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 06:22	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 06:22	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 06:22	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 06:22	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 06:22	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 06:22	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 06:22	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 06:22	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 06:22	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 06:22	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 06:22	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 06:22	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 06:22	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 06:22	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 06:22	WG2400372
Vinyl chloride	0.268		0.0273	0.100	1	11/13/2024 17:29	WG2400912
Xylenes, Total	U		0.191	0.260	1	11/13/2024 06:22	WG2400372
(S) Toluene-d8	*97.6*			*75.0-131*		*11/13/2024 06:22*	WG2400372
(S) Toluene-d8	*99.4*			*75.0-131*		*11/13/2024 17:29*	WG2400912
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/13/2024 06:22*	WG2400372
(S) 4-Bromofluorobenzene	*92.5*			*67.0-138*		*11/13/2024 17:29*	WG2400912
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/13/2024 06:22*	WG2400372
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/13/2024 17:29*	WG2400912

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	237000		4750	20000	1	11/09/2024 08:18	WG2398654

Sample Narrative:

L1796865-02 WG2398654: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	15600		547	1000	1	11/07/2024 20:38	WG2397513
Nitrate as (N)	U		88.4	100	1	11/07/2024 20:38	WG2397513
Sulfate	34900		637	5000	1	11/07/2024 20:38	WG2397513

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	5050		495	1000	1	11/08/2024 16:03	WG2397988

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2080		22.6	100	1	11/14/2024 12:20	WG2399540
Manganese	842		0.700	5.00	1	11/14/2024 12:20	WG2399540

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	7810		2.87	6.78	10	11/10/2024 17:32	WG2399172
Ethane	42.5		0.296	1.29	1	11/10/2024 14:20	WG2398842
Ethene	55.0		0.422	1.27	1	11/10/2024 14:20	WG2398842

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.99	C5 J4	0.548	1.00	1	11/13/2024 06:41	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 06:41	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 06:41	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 06:41	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 06:41	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 06:41	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 06:41	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 06:41	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 06:41	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 06:41	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 06:41	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 06:41	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 06:41	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 06:41	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 06:41	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 06:41	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 06:41	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 06:41	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 06:41	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 06:41	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 06:41	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 06:41	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 06:41	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 06:41	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 06:41	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 06:41	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 06:41	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 06:41	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 06:41	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 06:41	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 06:41	WG2400372
cis-1,2-Dichloroethene	2.22		0.0276	0.100	1	11/13/2024 06:41	WG2400372
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 06:41	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 06:41	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 06:41	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 06:41	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 06:41	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 06:41	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 06:41	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 06:41	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 06:41	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 06:41	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 06:41	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 06:41	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 06:41	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 06:41	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 06:41	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 06:41	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 06:41	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 06:41	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 06:41	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 06:41	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 06:41	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 06:41	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 06:41	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 06:41	WG2400372
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 06:41	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 06:41	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 06:41	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 06:41	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 06:41	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 06:41	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 06:41	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 06:41	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 06:41	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 06:41	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 06:41	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 06:41	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 06:41	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 06:41	WG2400372
Vinyl chloride	24.0		0.0273	0.100	1	11/13/2024 06:41	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 06:41	WG2400372
(S) Toluene-d8	*97.2*			*75.0-131*		*11/13/2024 06:41*	WG2400372
(S) 4-Bromofluorobenzene	*99.9*			*67.0-138*		*11/13/2024 06:41*	WG2400372
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/13/2024 06:41*	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/13/2024 07:00	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 07:00	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 07:00	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 07:00	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 07:00	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 07:00	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 07:00	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 07:00	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 07:00	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 07:00	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 07:00	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 07:00	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 07:00	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 07:00	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 07:00	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 07:00	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 07:00	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 07:00	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 07:00	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 07:00	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 07:00	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 07:00	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 07:00	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 07:00	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 07:00	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 07:00	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 07:00	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 07:00	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 07:00	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 07:00	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 07:00	WG2400372
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/13/2024 07:00	WG2400372
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 07:00	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 07:00	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 07:00	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 07:00	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 07:00	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 07:00	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 07:00	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 07:00	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 07:00	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 07:00	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 07:00	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 07:00	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 07:00	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 07:00	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 07:00	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 07:00	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 07:00	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 07:00	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 07:00	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 07:00	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 07:00	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 07:00	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 07:00	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 07:00	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 07:00	WG2400372
Tetrachloroethene	0.0610	J	0.0280	0.100	1	11/13/2024 07:00	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 07:00	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 07:00	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 07:00	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 07:00	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 07:00	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 07:00	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 07:00	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 07:00	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 07:00	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 07:00	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 07:00	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 07:00	WG2400372
Vinyl chloride	U		0.0273	0.100	1	11/13/2024 07:00	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 07:00	WG2400372
(S) Toluene-d8	*98.7*			*75.0-131*		*11/13/2024 07:00*	WG2400372
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*11/13/2024 07:00*	WG2400372
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/13/2024 07:00*	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/13/2024 07:19	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 07:19	WG2400372
Benzene	0.0370	J	0.0160	0.0400	1	11/13/2024 07:19	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 07:19	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 07:19	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 07:19	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 07:19	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 07:19	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 07:19	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 07:19	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 07:19	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 07:19	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 07:19	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 07:19	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 07:19	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 07:19	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 07:19	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 07:19	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 07:19	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 07:19	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 07:19	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 07:19	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 07:19	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 07:19	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 07:19	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 07:19	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 07:19	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 07:19	WG2400372
1,1-Dichloroethane	0.717		0.0230	0.100	1	11/13/2024 07:19	WG2400372
1,2-Dichloroethane	0.295		0.0190	0.100	1	11/13/2024 07:19	WG2400372
1,1-Dichloroethene	0.341		0.0200	0.100	1	11/13/2024 07:19	WG2400372
cis-1,2-Dichloroethene	66.2		0.0276	0.100	1	11/13/2024 07:19	WG2400372
trans-1,2-Dichloroethene	0.161	J	0.0572	0.200	1	11/13/2024 07:19	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 07:19	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 07:19	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 07:19	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 07:19	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 07:19	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 07:19	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 07:19	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 07:19	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 07:19	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 07:19	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 07:19	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 07:19	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 07:19	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 07:19	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 07:19	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 07:19	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 07:19	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 07:19	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 07:19	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 07:19	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 07:19	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 07:19	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 07:19	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 07:19	WG2400372
Tetrachloroethene	0.0380	J	0.0280	0.100	1	11/13/2024 07:19	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 07:19	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 07:19	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 07:19	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 07:19	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 07:19	WG2400372
Trichloroethene	1.05		0.0160	0.0400	1	11/13/2024 07:19	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 07:19	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 07:19	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 07:19	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 07:19	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 07:19	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 07:19	WG2400372
Vinyl chloride	6.39		0.0273	0.100	1	11/13/2024 07:19	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 07:19	WG2400372
(S) Toluene-d8	*99.0*			*75.0-131*		*11/13/2024 07:19*	WG2400372
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*11/13/2024 07:19*	WG2400372
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/13/2024 07:19*	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/13/2024 07:38	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 07:38	WG2400372
Benzene	23.8		0.0160	0.0400	1	11/13/2024 07:38	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 07:38	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 07:38	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 07:38	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 07:38	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 07:38	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 07:38	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 07:38	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 07:38	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 07:38	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 07:38	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 07:38	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 07:38	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 07:38	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 07:38	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 07:38	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 07:38	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 07:38	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 07:38	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 07:38	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 07:38	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 07:38	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 07:38	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 07:38	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 07:38	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 07:38	WG2400372
1,1-Dichloroethane	0.565		0.0230	0.100	1	11/13/2024 07:38	WG2400372
1,2-Dichloroethane	1.04		0.0190	0.100	1	11/13/2024 07:38	WG2400372
1,1-Dichloroethene	0.0520	J	0.0200	0.100	1	11/13/2024 07:38	WG2400372
cis-1,2-Dichloroethene	10.2		0.0276	0.100	1	11/13/2024 07:38	WG2400372
trans-1,2-Dichloroethene	0.0870	J	0.0572	0.200	1	11/13/2024 07:38	WG2400372
1,2-Dichloropropane	0.383		0.0508	0.200	1	11/13/2024 07:38	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 07:38	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 07:38	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 07:38	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 07:38	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 07:38	WG2400372
Di-isopropyl ether	0.119		0.0140	0.0400	1	11/13/2024 07:38	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 07:38	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 07:38	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 07:38	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 07:38	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 07:38	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 07:38	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 07:38	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 07:38	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 07:38	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 07:38	WG2400372
Methyl tert-butyl ether	0.135		0.0118	0.0400	1	11/13/2024 07:38	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 07:38	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 07:38	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 07:38	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 07:38	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 07:38	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 07:38	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 07:38	WG2400372
Toluene	0.155	J	0.0500	0.200	1	11/13/2024 07:38	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 07:38	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 07:38	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 07:38	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 07:38	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 07:38	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 07:38	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 07:38	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 07:38	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 07:38	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 07:38	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 07:38	WG2400372
Vinyl chloride	22.0		0.0273	0.100	1	11/13/2024 07:38	WG2400372
Xylenes, Total	0.191	J	0.191	0.260	1	11/13/2024 07:38	WG2400372
(S) Toluene-d8	*99.9*			*75.0-131*		*11/13/2024 07:38*	WG2400372
(S) 4-Bromofluorobenzene	*98.4*			*67.0-138*		*11/13/2024 07:38*	WG2400372
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/13/2024 07:38*	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/13/2024 07:58	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 07:58	WG2400372
Benzene	0.0210	J	0.0160	0.0400	1	11/13/2024 07:58	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 07:58	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 07:58	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 07:58	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 07:58	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 07:58	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 07:58	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 07:58	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 07:58	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 07:58	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 07:58	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 07:58	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 07:58	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 07:58	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 07:58	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 07:58	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 07:58	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 07:58	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 07:58	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 07:58	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 07:58	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 07:58	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 07:58	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 07:58	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 07:58	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 07:58	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 07:58	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 07:58	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 07:58	WG2400372
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/13/2024 07:58	WG2400372
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 07:58	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 07:58	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 07:58	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 07:58	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 07:58	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 07:58	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 07:58	WG2400372
Di-isopropyl ether	0.108		0.0140	0.0400	1	11/13/2024 07:58	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 07:58	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 07:58	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 07:58	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 07:58	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 07:58	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 07:58	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 07:58	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 07:58	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 07:58	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 07:58	WG2400372
Methyl tert-butyl ether	0.0780		0.0118	0.0400	1	11/13/2024 07:58	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 07:58	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 07:58	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 07:58	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 07:58	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 07:58	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 07:58	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 07:58	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 07:58	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 07:58	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 07:58	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 07:58	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 07:58	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 07:58	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 07:58	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 07:58	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 07:58	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 07:58	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 07:58	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 07:58	WG2400372
Vinyl chloride	U		0.0273	0.100	1	11/13/2024 07:58	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 07:58	WG2400372
(S) Toluene-d8	*98.4*			*75.0-131*		*11/13/2024 07:58*	WG2400372
(S) 4-Bromofluorobenzene	*94.5*			*67.0-138*		*11/13/2024 07:58*	WG2400372
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/13/2024 07:58*	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/13/2024 08:17	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 08:17	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 08:17	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 08:17	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 08:17	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 08:17	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 08:17	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 08:17	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 08:17	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 08:17	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 08:17	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 08:17	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 08:17	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 08:17	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 08:17	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 08:17	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 08:17	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 08:17	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 08:17	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 08:17	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 08:17	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 08:17	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 08:17	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 08:17	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 08:17	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 08:17	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 08:17	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 08:17	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 08:17	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 08:17	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 08:17	WG2400372
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/13/2024 08:17	WG2400372
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 08:17	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 08:17	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 08:17	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 08:17	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 08:17	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 08:17	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 08:17	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 08:17	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 08:17	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 08:17	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 08:17	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 08:17	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 08:17	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 08:17	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 08:17	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 08:17	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 08:17	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 08:17	WG2400372
Methyl tert-butyl ether	0.0240	J	0.0118	0.0400	1	11/13/2024 08:17	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 08:17	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 08:17	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 08:17	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 08:17	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 08:17	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 08:17	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 08:17	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 08:17	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 08:17	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 08:17	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 08:17	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 08:17	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 08:17	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 08:17	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 08:17	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 08:17	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 08:17	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 08:17	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 08:17	WG2400372
Vinyl chloride	U		0.0273	0.100	1	11/13/2024 08:17	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 08:17	WG2400372
(S) Toluene-d8	*99.4*			*75.0-131*		*11/13/2024 08:17*	WG2400372
(S) 4-Bromofluorobenzene	*93.7*			*67.0-138*		*11/13/2024 08:17*	WG2400372
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/13/2024 08:17*	WG2400372

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	655000		4750	20000	1	11/09/2024 08:23	WG2398654

Sample Narrative:

L1796865-08 WG2398654: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	21600		547	1000	1	11/07/2024 20:52	WG2397513
Nitrate as (N)	U		88.4	100	1	11/07/2024 20:52	WG2397513
Sulfate	29500		637	5000	1	11/07/2024 20:52	WG2397513

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	11700		495	1000	1	11/08/2024 16:24	WG2397988

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	17700		22.6	100	1	11/14/2024 12:23	WG2399540
Manganese	1870		0.700	5.00	1	11/14/2024 12:23	WG2399540

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	2030		0.287	0.678	1	11/10/2024 14:37	WG2398842
Ethane	46.8		0.296	1.29	1	11/10/2024 14:37	WG2398842
Ethene	11.9		0.422	1.27	1	11/10/2024 14:37	WG2398842

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/13/2024 08:36	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 08:36	WG2400372
Benzene	3.33		0.0160	0.0400	1	11/13/2024 08:36	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 08:36	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 08:36	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 08:36	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 08:36	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 08:36	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 08:36	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 08:36	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 08:36	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 08:36	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 08:36	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 08:36	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 08:36	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 08:36	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 08:36	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 08:36	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 08:36	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 08:36	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 08:36	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 08:36	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 08:36	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 08:36	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 08:36	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 08:36	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 08:36	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 08:36	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 08:36	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 08:36	WG2400372
1,1-Dichloroethene	1.42		0.0200	0.100	1	11/13/2024 08:36	WG2400372
cis-1,2-Dichloroethene	489		0.552	2.00	20	11/17/2024 18:04	WG2401614
trans-1,2-Dichloroethene	2.96		0.0572	0.200	1	11/13/2024 08:36	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 08:36	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 08:36	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 08:36	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 08:36	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 08:36	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 08:36	WG2400372
Di-isopropyl ether	0.0300	J	0.0140	0.0400	1	11/13/2024 08:36	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 08:36	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 08:36	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 08:36	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 08:36	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 08:36	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 08:36	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 08:36	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 08:36	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 08:36	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 08:36	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 08:36	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 08:36	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 08:36	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 08:36	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 08:36	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 08:36	WG2400372
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 08:36	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 08:36	WG2400372
Toluene	0.104	J	0.0500	0.200	1	11/13/2024 08:36	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 08:36	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 08:36	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 08:36	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 08:36	WG2400372
Trichloroethene	0.204		0.0160	0.0400	1	11/13/2024 08:36	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 08:36	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 08:36	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 08:36	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 08:36	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 08:36	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 08:36	WG2400372
Vinyl chloride	69.3		0.546	2.00	20	11/17/2024 18:04	WG2401614
Xylenes, Total	U		0.191	0.260	1	11/13/2024 08:36	WG2400372
(S) Toluene-d8	*102*			*75.0-131*		*11/13/2024 08:36*	WG2400372
(S) Toluene-d8	*107*			*75.0-131*		*11/17/2024 18:04*	WG2401614
(S) 4-Bromofluorobenzene	*93.3*			*67.0-138*		*11/13/2024 08:36*	WG2400372
(S) 4-Bromofluorobenzene	*93.2*			*67.0-138*		*11/17/2024 18:04*	WG2401614

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/13/2024 08:36*	WG2400372
(S) 1,2-Dichloroethane-d4	*94.1*			*70.0-130*		*11/17/2024 18:04*	WG2401614

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	122000		4750	20000	1	11/09/2024 08:28	WG2398654

Sample Narrative:

L1796865-09 WG2398654: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	8050		547	1000	1	11/07/2024 21:06	WG2397513
Nitrate as (N)	2500		88.4	100	1	11/07/2024 21:06	WG2397513
Sulfate	2290	B J	637	5000	1	11/07/2024 21:06	WG2397513

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1490		495	1000	1	11/08/2024 16:42	WG2397988

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	623		22.6	100	1	11/14/2024 12:48	WG2399540
Manganese	177		0.700	5.00	1	11/14/2024 12:48	WG2399540

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	158		0.287	0.678	1	11/10/2024 15:46	WG2398842
Ethane	1.12	J	0.296	1.29	1	11/10/2024 15:46	WG2398842
Ethene	U		0.422	1.27	1	11/10/2024 15:46	WG2398842

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/13/2024 08:55	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 08:55	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 08:55	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 08:55	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 08:55	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 08:55	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 08:55	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 08:55	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 08:55	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 08:55	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 08:55	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 08:55	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 08:55	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 08:55	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 08:55	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 08:55	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 08:55	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 08:55	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 08:55	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 08:55	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 08:55	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 08:55	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 08:55	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 08:55	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 08:55	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 08:55	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 08:55	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 08:55	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 08:55	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 08:55	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 08:55	WG2400372
cis-1,2-Dichloroethene	11.3		0.0276	0.100	1	11/17/2024 17:26	WG2401614
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 08:55	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 08:55	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 08:55	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 08:55	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 08:55	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 08:55	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 08:55	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 08:55	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 08:55	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 08:55	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 08:55	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 08:55	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 08:55	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 08:55	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 08:55	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 08:55	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 08:55	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 08:55	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 08:55	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 08:55	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 08:55	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 08:55	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 08:55	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 08:55	WG2400372
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 08:55	WG2400372
Tetrachloroethene	0.135		0.0280	0.100	1	11/13/2024 08:55	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 08:55	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 08:55	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 08:55	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 08:55	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 08:55	WG2400372
Trichloroethene	0.0710		0.0160	0.0400	1	11/13/2024 08:55	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 08:55	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 08:55	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 08:55	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 08:55	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 08:55	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 08:55	WG2400372
Vinyl chloride	0.462		0.0273	0.100	1	11/17/2024 17:26	WG2401614
Xylenes, Total	U		0.191	0.260	1	11/13/2024 08:55	WG2400372
(S) Toluene-d8	*99.7*			*75.0-131*		*11/13/2024 08:55*	WG2400372
(S) Toluene-d8	*106*			*75.0-131*		*11/17/2024 17:26*	WG2401614
(S) 4-Bromofluorobenzene	*96.3*			*67.0-138*		*11/13/2024 08:55*	WG2400372
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*		*11/17/2024 17:26*	WG2401614

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/13/2024 08:55*	WG2400372
(S) 1,2-Dichloroethane-d4	*92.1*			*70.0-130*		*11/17/2024 17:26*	WG2401614

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	645000		4750	20000	1	11/09/2024 08:34	WG2398654

Sample Narrative:

L1796865-10 WG2398654: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	57800		547	1000	1	11/07/2024 21:19	WG2397513
Nitrate as (N)	155		88.4	100	1	11/07/2024 21:19	WG2397513
Sulfate	4720	B J	637	5000	1	11/07/2024 21:19	WG2397513

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	13900		495	1000	1	11/08/2024 17:39	WG2397988

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	5490		22.6	100	1	11/14/2024 12:52	WG2399540
Manganese	2670		0.700	5.00	1	11/14/2024 12:52	WG2399540

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1280		0.287	0.678	1	11/10/2024 15:53	WG2398842
Ethane	26.4		0.296	1.29	1	11/10/2024 15:53	WG2398842
Ethene	29.2		0.422	1.27	1	11/10/2024 15:53	WG2398842

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.54	C5 J4	0.548	1.00	1	11/13/2024 09:41	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 09:41	WG2400372
Benzene	0.0220	J	0.0160	0.0400	1	11/13/2024 09:41	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 09:41	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 09:41	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 09:41	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 09:41	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 09:41	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 09:41	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 09:41	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 09:41	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 09:41	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 09:41	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 09:41	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 09:41	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 09:41	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 09:41	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 09:41	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 09:41	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 09:41	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 09:41	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 09:41	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 09:41	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 09:41	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 09:41	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 09:41	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 09:41	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 09:41	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 09:41	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 09:41	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 09:41	WG2400372
cis-1,2-Dichloroethene	2.22		0.0276	0.100	1	11/13/2024 09:41	WG2400372
trans-1,2-Dichloroethene	0.287		0.0572	0.200	1	11/13/2024 09:41	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 09:41	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 09:41	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 09:41	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 09:41	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 09:41	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 09:41	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 09:41	WG2400372
Ethylbenzene	0.0340	J	0.0212	0.100	1	11/13/2024 09:41	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 09:41	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 09:41	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 09:41	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 09:41	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 09:41	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 09:41	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 09:41	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 09:41	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 09:41	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 09:41	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 09:41	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 09:41	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 09:41	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 09:41	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 09:41	WG2400372
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 09:41	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 09:41	WG2400372
Toluene	0.0880	J	0.0500	0.200	1	11/13/2024 09:41	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 09:41	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 09:41	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 09:41	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 09:41	WG2400372
Trichloroethene	0.0560		0.0160	0.0400	1	11/13/2024 09:41	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 09:41	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 09:41	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 09:41	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 09:41	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 09:41	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 09:41	WG2400372
Vinyl chloride	15.9		0.0273	0.100	1	11/13/2024 09:41	WG2400372
Xylenes, Total	0.222	J	0.191	0.260	1	11/13/2024 09:41	WG2400372
(S) Toluene-d8	*99.3*			*75.0-131*		*11/13/2024 09:41*	WG2400372
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*11/13/2024 09:41*	WG2400372
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/13/2024 09:41*	WG2400372

Method Blank (MB)

(MB) R4144047-2 11/09/24 07:36

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1796724-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1796724-01 11/09/24 08:07 • (DUP) R4144047-4 11/09/24 08:12

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	253000	252000	1	0.321		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

L1797067-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1797067-04 11/09/24 09:43 • (DUP) R4144047-6 11/09/24 09:49

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	234000	238000	1	1.64		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4144047-1 11/09/24 07:29

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	105000	105	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4144625-1 11/07/24 20:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Nitrate as (N)	U		88.4	100
Sulfate	2670	J	637	5000

L1796865-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1796865-02 11/07/24 20:38 • (DUP) R4144625-3 11/08/24 02:30

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	15600	15000	1	4.08		15
Nitrate as (N)	U	U	1	0.000		15
Sulfate	34900	35200	1	0.792		15

L1796865-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1796865-08 11/07/24 20:52 • (DUP) R4144625-6 11/08/24 03:11

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	21600	21900	1	1.56		15
Nitrate as (N)	U	U	1	0.000		15
Sulfate	29500	29400	1	0.0265		15

Laboratory Control Sample (LCS)

(LCS) R4144625-2 11/07/24 20:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	40800	102	80.0-120	
Nitrate as (N)	8000	8110	101	80.0-120	
Sulfate	40000	41200	103	80.0-120	

L1796865-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1796865-02 11/07/24 20:38 • (MS) R4144625-4 11/08/24 02:44 • (MSD) R4144625-5 11/08/24 02:58

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	15600	53700	54000	95.2	96.1	1	80.0-120			0.663	15
Nitrate as (N)	8000	U	7770	7860	97.1	98.2	1	80.0-120			1.19	15
Sulfate	40000	34900	69000	69800	85.3	87.1	1	80.0-120			1.06	15

L1796865-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1796865-08 11/07/24 20:52 • (MS) R4144625-7 11/08/24 03:25

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	21600	58600	92.5	1	80.0-120	
Nitrate as (N)	8000	U	7930	99.2	1	80.0-120	
Sulfate	40000	29500	65000	88.9	1	80.0-120	

Method Blank (MB)

(MB) R4144331-2 11/08/24 11:12

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

L1796703-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1796703-12 11/08/24 13:44 • (DUP) R4144331-5 11/08/24 14:24

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	3000	2680	1	11.3		20

L1796922-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1796922-02 11/08/24 19:00 • (DUP) R4144331-8 11/08/24 19:20

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	7160	7080	1	1.14		20

Laboratory Control Sample (LCS)

(LCS) R4144331-1 11/08/24 10:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25000	24000	96.0	85.0-115	

L1796552-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1796552-13 11/08/24 12:02 • (MS) R4144331-3 11/08/24 12:23 • (MSD) R4144331-4 11/08/24 12:44

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	3660	25500	23700	87.2	80.2	1	85.0-115		J6	7.12	20

L1796865-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1796865-10 11/08/24 17:39 • (MS) R4144331-6 11/08/24 18:00 • (MSD) R4144331-7 11/08/24 18:20

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	13900	38000	38300	96.6	97.6	1	85.0-115			0.629	20

Method Blank (MB)

(MB) R4145956-1 11/14/24 11:18

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

Laboratory Control Sample (LCS)

(LCS) R4145956-2 11/14/24 11:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	1000	1010	101	80.0-120	
Manganese	50.0	52.3	105	80.0-120	

L1796934-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1796934-11 11/14/24 11:24 • (MS) R4145956-4 11/14/24 11:30 • (MSD) R4145956-5 11/14/24 11:33

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	1000	4350	5360	5450	101	110	1	75.0-125			1.78	20
Manganese	50.0	1430	1460	1480	61.7	101	1	75.0-125	V		1.34	20

Method Blank (MB)

(MB) R4144236-2 11/10/24 10:26

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

L1796488-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1796488-01 11/10/24 10:52 • (DUP) R4144236-3 11/10/24 12:54

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	189	190	1	0.528		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1796488-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1796488-09 11/10/24 13:58 • (DUP) R4144236-4 11/10/24 15:58

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

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

(LCS) R4144236-1 11/10/24 10:21 • (LCSD) R4144236-5 11/10/24 16:02

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	67.1	63.6	99.0	93.8	85.0-115			5.36	20
Ethane	129	121	119	93.8	92.2	85.0-115			1.67	20
Ethene	127	120	118	94.5	92.9	85.0-115			1.68	20

Method Blank (MB)

(MB) R4144247-2 11/10/24 16:34

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

L1796425-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1796425-03 11/10/24 16:43 • (DUP) R4144247-3 11/10/24 17:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	11000	10400	10	5.61		20

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

(LCS) R4144247-1 11/10/24 16:28 • (LCSD) R4144247-4 11/10/24 18:05

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	61.9	62.7	91.3	92.5	85.0-115			1.28	20

Method Blank (MB)

(MB) R4145414-3 11/13/24 03:29

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	0.0230	J	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

Method Blank (MB)

(MB) R4145414-3 11/13/24 03:29

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	*98.8*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*

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

(LCS) R4145414-1 11/13/24 02:12 • (LCSD) R4145414-2 11/13/24 02:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	39.3	40.7	157	163	10.0-160		J4	3.50	31
Acrylonitrile	25.0	33.6	30.8	134	123	45.0-153			8.70	22
Benzene	5.00	4.74	4.62	94.8	92.4	70.0-123			2.56	20
Bromobenzene	5.00	5.57	4.91	111	98.2	73.0-121			12.6	20
Bromochloromethane	5.00	5.62	5.74	112	115	77.0-128			2.11	20
Bromodichloromethane	5.00	4.83	4.88	96.6	97.6	73.0-121			1.03	20
Bromoform	5.00	4.19	4.47	83.8	89.4	64.0-132			6.47	20
Bromomethane	5.00	4.10	6.10	82.0	122	56.0-147		J3	39.2	20
n-Butylbenzene	5.00	5.30	4.72	106	94.4	68.0-135			11.6	20
sec-Butylbenzene	5.00	5.32	4.69	106	93.8	74.0-130			12.6	20
tert-Butylbenzene	5.00	5.39	4.83	108	96.6	75.0-127			11.0	20
Carbon disulfide	5.00	4.35	4.67	87.0	93.4	56.0-133			7.10	20
Carbon tetrachloride	5.00	5.41	5.59	108	112	66.0-128			3.27	20
Chlorobenzene	5.00	4.84	4.72	96.8	94.4	76.0-128			2.51	20
Chlorodibromomethane	5.00	4.54	4.55	90.8	91.0	74.0-127			0.220	20
Chloroethane	5.00	2.76	5.56	55.2	111	61.0-134	J4	J3	67.3	20
Chloroform	5.00	4.89	4.85	97.8	97.0	72.0-123			0.821	20
Chloromethane	5.00	4.65	4.75	93.0	95.0	51.0-138			2.13	20
2-Chlorotoluene	5.00	5.56	4.89	111	97.8	75.0-124			12.8	20
4-Chlorotoluene	5.00	5.37	4.73	107	94.6	75.0-124			12.7	20
1,2-Dibromo-3-Chloropropane	5.00	4.76	4.39	95.2	87.8	59.0-130			8.09	20
1,2-Dibromoethane	5.00	4.94	4.85	98.8	97.0	74.0-128			1.84	20
Dibromomethane	5.00	5.14	5.09	103	102	75.0-122			0.978	20
1,2-Dichlorobenzene	5.00	5.54	4.99	111	99.8	76.0-124			10.4	20
1,3-Dichlorobenzene	5.00	5.33	4.81	107	96.2	76.0-125			10.3	20
1,4-Dichlorobenzene	5.00	5.46	4.87	109	97.4	77.0-121			11.4	20
trans-1,4-Dichloro-2-butene	5.00	5.22	3.89	104	77.8	45.0-143		J3	29.2	20
Dichlorodifluoromethane	5.00	5.84	5.83	117	117	43.0-156			0.171	20
1,1-Dichloroethane	5.00	5.12	5.08	102	102	70.0-127			0.784	20
1,2-Dichloroethane	5.00	4.97	4.94	99.4	98.8	65.0-131			0.605	20
1,1-Dichloroethene	5.00	5.24	5.44	105	109	65.0-131			3.75	20
cis-1,2-Dichloroethene	5.00	5.05	5.14	101	103	73.0-125			1.77	20
trans-1,2-Dichloroethene	5.00	4.98	5.04	99.6	101	71.0-125			1.20	20
1,2-Dichloropropane	5.00	5.09	4.92	102	98.4	74.0-125			3.40	20
1,1-Dichloropropene	5.00	5.08	4.86	102	97.2	73.0-125			4.43	20
1,3-Dichloropropane	5.00	4.97	4.81	99.4	96.2	80.0-125			3.27	20
cis-1,3-Dichloropropene	5.00	5.08	4.98	102	99.6	76.0-127			1.99	20
trans-1,3-Dichloropropene	5.00	4.78	4.62	95.6	92.4	73.0-127			3.40	20
2,2-Dichloropropane	5.00	5.93	6.46	119	129	59.0-135			8.56	20
Di-isopropyl ether	5.00	4.84	4.93	96.8	98.6	60.0-136			1.84	20

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

(LCS) R4145414-1 11/13/24 02:12 • (LCSD) R4145414-2 11/13/24 02:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	4.97	4.80	99.4	96.0	74.0-126			3.48	20
Hexachloro-1,3-butadiene	5.00	5.38	5.01	108	100	57.0-150			7.12	20
2-Hexanone	25.0	23.7	24.0	94.8	96.0	54.0-147			1.26	20
n-Hexane	5.00	4.56	4.18	91.2	83.6	55.0-137			8.70	20
Iodomethane	25.0	25.9	27.4	104	110	74.0-134			5.63	20
Isopropylbenzene	5.00	5.20	5.12	104	102	72.0-127			1.55	20
p-Isopropyltoluene	5.00	5.46	4.92	109	98.4	72.0-133			10.4	20
2-Butanone (MEK)	25.0	27.9	27.9	112	112	30.0-160			0.000	24
Methylene Chloride	5.00	5.79	6.21	116	124	68.0-123		J4	7.00	20
4-Methyl-2-pentanone (MIBK)	25.0	29.2	28.3	117	113	56.0-143			3.13	20
Methyl tert-butyl ether	5.00	5.17	5.55	103	111	66.0-132			7.09	20
Naphthalene	5.00	5.48	4.96	110	99.2	59.0-130			9.96	20
n-Propylbenzene	5.00	5.28	4.62	106	92.4	74.0-126			13.3	20
Styrene	5.00	5.00	5.02	100	100	72.0-127			0.399	20
1,1,1,2-Tetrachloroethane	5.00	4.97	5.02	99.4	100	74.0-129			1.00	20
1,1,2,2-Tetrachloroethane	5.00	5.34	4.80	107	96.0	68.0-128			10.7	20
1,1,2-Trichlorotrifluoroethane	5.00	5.33	5.32	107	106	61.0-139			0.188	20
Tetrachloroethene	5.00	5.15	4.94	103	98.8	70.0-136			4.16	20
Toluene	5.00	4.80	4.53	96.0	90.6	75.0-121			5.79	20
1,2,3-Trichlorobenzene	5.00	5.62	5.15	112	103	59.0-139			8.73	20
1,2,4-Trichlorobenzene	5.00	5.64	5.03	113	101	62.0-137			11.4	20
1,1,1-Trichloroethane	5.00	5.43	5.68	109	114	69.0-126			4.50	20
1,1,2-Trichloroethane	5.00	5.18	5.03	104	101	78.0-123			2.94	20
Trichloroethene	5.00	4.99	4.87	99.8	97.4	76.0-126			2.43	20
Trichlorofluoromethane	5.00	3.64	5.43	72.8	109	61.0-142	J	J J3	39.5	20
1,2,3-Trichloropropane	5.00	6.09	5.38	122	108	67.0-129			12.4	20
1,2,4-Trimethylbenzene	5.00	5.48	4.82	110	96.4	70.0-126			12.8	20
1,2,3-Trimethylbenzene	5.00	5.23	4.71	105	94.2	74.0-124			10.5	20
1,3,5-Trimethylbenzene	5.00	5.33	4.68	107	93.6	73.0-127			13.0	20
Vinyl acetate	25.0	25.0	23.8	100	95.2	43.0-159			4.92	20
Vinyl chloride	5.00	5.52	5.59	110	112	63.0-134			1.26	20
Xylenes, Total	15.0	14.6	14.2	97.3	94.7	72.0-127			2.78	20
(S) Toluene-d8				*98.0*	*96.1*	*75.0-131*				
(S) 4-Bromofluorobenzene				*97.9*	*102*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*106*	*108*	*70.0-130*				

Method Blank (MB)

(MB) R4145916-3 11/13/24 14:43

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	0.0280	J	0.0276	0.100
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*

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

(LCS) R4145916-1 11/13/24 13:25 • (LCSD) R4145916-2 11/13/24 13:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	5.00	4.58	4.83	91.6	96.6	73.0-125			5.31	20
Vinyl chloride	5.00	4.61	4.86	92.2	97.2	63.0-134			5.28	20
(S) Toluene-d8				*98.8*	*98.3*	*75.0-131*				
(S) 4-Bromofluorobenzene				*99.6*	*97.4*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*104*	*106*	*70.0-130*				

Method Blank (MB)

(MB) R4147881-2 11/17/24 14:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*95.5*			*75.0-131*
(S) 4-Bromofluorobenzene	*92.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*91.3*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4147881-1 11/17/24 13:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
cis-1,2-Dichloroethene	5.00	5.35	107	73.0-125	
Vinyl chloride	5.00	5.14	103	63.0-134	
(S) Toluene-d8			*105*	*75.0-131*	
(S) 4-Bromofluorobenzene			*103*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*94.6*	*70.0-130*	

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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	LAO000356
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

Report to: **Daniel Balbiani**

Email To: **Daniel.balbiani@nv5.com;sam.graber@nv5.com**

Project Description: **American Linen**

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project # **1413001.10.701.02**

Lab Project # **PESENVSWA-ALP**

Collected by (print): D. Del Giudice

Site/Facility ID #

P.O. # **443022-1413001.10.701**

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**Nitr,chl,sulf 9056 250mlHDPE-NoPres	ALK 2320B 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	FE,MN total 6020 250mlHDPE-HNO3	TOC 9060 250mlAmb-HCl	VOCS 8260ULL 40mlAmb-HCl					Remarks	Sample # (lab only)
MW-159-110524	G	GW	—	11/5/24		3						X						-01
MW-190-110624		GW		11/6/24	0816	9	X	X	X	X	X	X						-02
MW102-110624		GW			0925	3						X						-04
MW-319-110624		GW			1119							X						-06
MW-318-110624		GW			1149							X						-05
MW-317-110624		GW			1217							X						-08
MW116-110624		GW			1329	↓						X						-07
MW-322-110624		GW			1403	9	X	X	X	X	X	X						-04
MW-142-110624		GW			1035	9	X	X	X	X	X	X						-09
MW-143-110624	↓	GW	↓	↓	1450	9	X	X	X	X	X	X						-10

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

Remarks: Tier 2 lab QA/QC (batch QC ok)

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4212 6473 7605

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

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

SDG # L1491865

D090

Acctnum: **PESENVSWA**
Template: **T262759**
Prelogin: **P1110133**
PM: **3768 - Jordan Dozier**
PB: LL 10/23/24
Shipped Via: **FedEX Ground**

Sample Receipt Checklist

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

PH – 10BDH0941
TRC – 3327A333

	Date:	Time:			
Relinquished by : (Signature)	11/6/24	1551	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.1 °C Bottles Received: 54	If Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11-07-24 Time: 0900	Hold: Condition: NCF / OK

ANALYTICAL REPORT

November 21, 2024

PES Environmental, Inc.- WA

Sample Delivery Group:	L1797397
Samples Received:	11/08/2024
Project Number:	1413001.10.603.04
Description:	American Linen

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

Entire Report Reviewed By:

Shane Gambill
Project Manager

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

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

MW-350-110724 L1797397-01 GW

Collected by: D. Del
Collected date/time: 11/07/24 10:47
Received date/time: 11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398696	1	11/09/24 11:50	11/09/24 11:50	KA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2398168	1	11/09/24 07:16	11/09/24 07:16	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2399058	1	11/11/24 23:14	11/11/24 23:14	AF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2400811	1	11/17/24 15:09	11/18/24 17:09	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2400811	5	11/17/24 15:09	11/18/24 16:54	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2399208	1	11/12/24 12:46	11/12/24 12:46	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2400134	10	11/12/24 14:37	11/12/24 14:37	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402109	1	11/15/24 13:06	11/15/24 13:06	KST	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.

Shane Gambill
Project Manager

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	374000		4750	20000	1	11/09/2024 11:50	WG2398696

Sample Narrative:

L1797397-01 WG2398696: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	21400		547	1000	1	11/09/2024 07:16	WG2398168
Nitrate as (N)	U		88.4	100	1	11/09/2024 07:16	WG2398168
Sulfate	27800		637	5000	1	11/09/2024 07:16	WG2398168

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2230		495	1000	1	11/11/2024 23:14	WG2399058

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1140		22.6	100	1	11/18/2024 17:09	WG2400811
Manganese	764		3.50	25.0	5	11/18/2024 16:54	WG2400811

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	6970		2.87	6.78	10	11/12/2024 14:37	WG2400134
Ethane	108		0.296	1.29	1	11/12/2024 12:46	WG2399208
Ethene	98.0		0.422	1.27	1	11/12/2024 12:46	WG2399208

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/15/2024 13:06	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 13:06	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 13:06	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 13:06	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 13:06	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 13:06	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 13:06	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 13:06	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 13:06	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 13:06	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 13:06	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 13:06	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 13:06	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 13:06	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 13:06	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 13:06	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 13:06	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 13:06	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 13:06	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 13:06	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 13:06	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 13:06	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 13:06	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 13:06	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 13:06	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 13:06	WG2402109
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2024 13:06	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 13:06	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 13:06	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 13:06	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 13:06	WG2402109
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/15/2024 13:06	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 13:06	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 13:06	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 13:06	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 13:06	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 13:06	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 13:06	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 13:06	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 13:06	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 13:06	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 13:06	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 13:06	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 13:06	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 13:06	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 13:06	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 13:06	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 13:06	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 13:06	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 13:06	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 13:06	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 13:06	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 13:06	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 13:06	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 13:06	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 13:06	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 13:06	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 13:06	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 13:06	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 13:06	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 13:06	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 13:06	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 13:06	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 13:06	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 13:06	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 13:06	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 13:06	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 13:06	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 13:06	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 13:06	WG2402109
Vinyl chloride	33.8		0.0273	0.100	1	11/15/2024 13:06	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 13:06	WG2402109
(S) Toluene-d8	*98.3*			*75.0-131*		*11/15/2024 13:06*	WG2402109
(S) 4-Bromofluorobenzene	*92.8*			*67.0-138*		*11/15/2024 13:06*	WG2402109
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/15/2024 13:06*	WG2402109

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

Method Blank (MB)

(MB) R4144052-2 11/09/24 10:27

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1797143-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1797143-01 11/09/24 10:41 • (DUP) R4144052-3 11/09/24 10:49

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	13500000	13200000	1	2.09		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

L1797560-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1797560-07 11/09/24 12:33 • (DUP) R4144052-4 11/09/24 12:38

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	391000	391000	1	0.0709		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4144052-1 11/09/24 10:20

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	105000	105	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4144266-1 11/09/24 01:44

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

L1797360-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1797360-01 11/09/24 02:35 • (DUP) R4144266-3 11/09/24 02:48

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	8290	8340	1	0.518		15
Nitrate as (N)	188	185	1	1.61		15
Sulfate	4580	4610	1	0.479	J	15

L1797360-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1797360-02 11/09/24 03:26 • (DUP) R4144266-6 11/09/24 03:39

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	8450	7880	1	6.95		15
Nitrate as (N)	193	189	1	2.15		15
Sulfate	4690	4350	1	7.51	J	15

Laboratory Control Sample (LCS)

(LCS) R4144266-2 11/09/24 01:57

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	39300	98.3	80.0-120	
Nitrate as (N)	8000	7830	97.9	80.0-120	
Sulfate	40000	39500	98.8	80.0-120	

L1797360-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797360-01 11/09/24 02:35 • (MS) R4144266-4 11/09/24 03:01 • (MSD) R4144266-5 11/09/24 03:14

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	8290	46500	46700	95.4	96.0	1	80.0-120			0.475	15
Nitrate as (N)	8000	188	7970	8070	97.3	98.5	1	80.0-120			1.26	15
Sulfate	40000	4580	43800	44100	98.1	98.7	1	80.0-120			0.513	15

L1797360-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1797360-02 11/09/24 03:26 • (MS) R4144266-7 11/09/24 03:52

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	8450	46800	96.0	1	80.0-120	
Nitrate as (N)	8000	193	8090	98.7	1	80.0-120	
Sulfate	40000	4690	44200	98.9	1	80.0-120	

Method Blank (MB)

(MB) R4144782-2 11/11/24 12:04

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

L1797315-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1797315-02 11/11/24 17:43 • (DUP) R4144782-3 11/11/24 18:11

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	175000	180000	1	2.59	E	20

L1797397-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1797397-01 11/11/24 23:14 • (DUP) R4144782-6 11/11/24 23:32

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	2230	2020	1	9.98		20

Laboratory Control Sample (LCS)

(LCS) R4144782-1 11/11/24 11:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25000	23600	94.2	85.0-115	

L1797360-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797360-01 11/11/24 19:55 • (MS) R4144782-4 11/11/24 20:15 • (MSD) R4144782-5 11/11/24 20:36

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	1440	25400	25200	95.9	95.0	1	85.0-115			0.869	20

L1797459-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797459-08 11/12/24 00:52 • (MS) R4144782-7 11/12/24 01:13 • (MSD) R4144782-8 11/12/24 01:35

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	6960	31200	30900	97.1	95.6	1	85.0-115			1.22	20

Method Blank (MB)

(MB) R4147402-1 11/18/24 14:59

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

Laboratory Control Sample (LCS)

(LCS) R4147402-2 11/18/24 15:02

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	1000	991	99.1	80.0-120	
Manganese	50.0	50.1	100	80.0-120	

L1797384-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797384-06 11/18/24 15:06 • (MS) R4147402-4 11/18/24 15:12 • (MSD) R4147402-5 11/18/24 15:15

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	445	1410	1500	97.0	106	1	75.0-125			5.86	20
Manganese	50.0	3370	3380	3470	27.3	198	1	75.0-125	V	V	2.49	20

Method Blank (MB)

(MB) R4144925-2 11/12/24 09:31

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

L1796918-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1796918-07 11/12/24 09:46 • (DUP) R4144925-3 11/12/24 10:59

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

L1797022-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1797022-06 11/12/24 11:04 • (DUP) R4144925-4 11/12/24 12:52

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

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

(LCS) R4144925-1 11/12/24 09:24 • (LCSD) R4144925-7 11/12/24 13:10

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Ethane	129	129	130	100	101	85.0-115			0.772	20
Ethene	127	126	127	99.2	100	85.0-115			0.791	20

L1797332-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797332-06 11/12/24 11:52 • (MS) R4144925-5 11/12/24 12:56 • (MSD) R4144925-6 11/12/24 13:01

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	%	%		%			%	%
Ethane	129	9.55	164	166	120	121	1	85.0-115	J5	J5	1.21	20
Ethene	127	U	150	153	118	120	1	85.0-115	J5	J5	1.98	20

Method Blank (MB)

(MB) R4145005-2 11/12/24 14:17

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

L1797022-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1797022-05 11/12/24 14:32 • (DUP) R4145005-3 11/12/24 15:07

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	11900	11800	10	0.844		20

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

(LCS) R4145005-1 11/12/24 14:11 • (LCSD) R4145005-4 11/12/24 15:12

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	64.4	62.1	95.0	91.6	85.0-115			3.64	20

Method Blank (MB)

(MB) R4148466-3 11/15/24 09:53

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

Method Blank (MB)

(MB) R4148466-3 11/15/24 09:53

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	*98.4*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*

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

(LCS) R4148466-1 11/15/24 08:17 • (LCSD) R4148466-2 11/15/24 08:36

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	51.8	51.2	207	205	10.0-160	J4	J4	1.17	31
Acrylonitrile	25.0	34.1	35.4	136	142	45.0-153			3.74	22
Benzene	5.00	4.78	4.72	95.6	94.4	70.0-123			1.26	20
Bromobenzene	5.00	5.31	5.07	106	101	73.0-121			4.62	20
Bromochloromethane	5.00	5.47	5.64	109	113	77.0-128			3.06	20
Bromodichloromethane	5.00	5.04	5.19	101	104	73.0-121			2.93	20
Bromoform	5.00	4.50	4.44	90.0	88.8	64.0-132			1.34	20
Bromomethane	5.00	6.16	6.42	123	128	56.0-147			4.13	20
n-Butylbenzene	5.00	4.91	4.99	98.2	99.8	68.0-135			1.62	20
sec-Butylbenzene	5.00	4.99	4.87	99.8	97.4	74.0-130			2.43	20
tert-Butylbenzene	5.00	5.03	4.88	101	97.6	75.0-127			3.03	20
Carbon disulfide	5.00	4.60	4.78	92.0	95.6	56.0-133			3.84	20
Carbon tetrachloride	5.00	5.41	5.55	108	111	66.0-128			2.55	20
Chlorobenzene	5.00	4.77	4.67	95.4	93.4	76.0-128			2.12	20
Chlorodibromomethane	5.00	4.72	4.66	94.4	93.2	74.0-127			1.28	20
Chloroethane	5.00	5.84	6.01	117	120	61.0-134			2.87	20
Chloroform	5.00	4.89	4.96	97.8	99.2	72.0-123			1.42	20
Chloromethane	5.00	6.36	6.56	127	131	51.0-138			3.10	20
2-Chlorotoluene	5.00	5.26	5.13	105	103	75.0-124			2.50	20
4-Chlorotoluene	5.00	5.20	5.01	104	100	75.0-124			3.72	20
1,2-Dibromo-3-Chloropropane	5.00	4.66	4.81	93.2	96.2	59.0-130			3.17	20
1,2-Dibromoethane	5.00	4.89	4.81	97.8	96.2	74.0-128			1.65	20
Dibromomethane	5.00	5.25	5.18	105	104	75.0-122			1.34	20
1,2-Dichlorobenzene	5.00	5.19	5.17	104	103	76.0-124			0.386	20
1,3-Dichlorobenzene	5.00	5.10	4.95	102	99.0	76.0-125			2.99	20
1,4-Dichlorobenzene	5.00	5.25	5.06	105	101	77.0-121			3.69	20
trans-1,4-Dichloro-2-butene	5.00	3.42	3.79	68.4	75.8	45.0-143			10.3	20
Dichlorodifluoromethane	5.00	5.51	5.82	110	116	43.0-156			5.47	20
1,1-Dichloroethane	5.00	5.08	5.08	102	102	70.0-127			0.000	20
1,2-Dichloroethane	5.00	4.91	5.00	98.2	100	65.0-131			1.82	20
1,1-Dichloroethene	5.00	5.25	5.41	105	108	65.0-131			3.00	20
cis-1,2-Dichloroethene	5.00	5.11	5.14	102	103	73.0-125			0.585	20
trans-1,2-Dichloroethene	5.00	4.80	4.98	96.0	99.6	71.0-125			3.68	20
1,2-Dichloropropane	5.00	5.08	5.04	102	101	74.0-125			0.791	20
1,1-Dichloropropene	5.00	5.14	4.97	103	99.4	73.0-125			3.36	20
1,3-Dichloropropane	5.00	4.91	4.87	98.2	97.4	80.0-125			0.818	20
cis-1,3-Dichloropropene	5.00	5.00	4.97	100	99.4	76.0-127			0.602	20
trans-1,3-Dichloropropene	5.00	4.71	4.54	94.2	90.8	73.0-127			3.68	20
2,2-Dichloropropane	5.00	6.11	6.20	122	124	59.0-135			1.46	20
Di-isopropyl ether	5.00	4.93	5.02	98.6	100	60.0-136			1.81	20

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

(LCS) R4148466-1 11/15/24 08:17 • (LCSD) R4148466-2 11/15/24 08:36

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	4.85	4.85	97.0	97.0	74.0-126			0.000	20
Hexachloro-1,3-butadiene	5.00	4.54	4.88	90.8	97.6	57.0-150			7.22	20
2-Hexanone	25.0	24.3	22.6	97.2	90.4	54.0-147			7.25	20
n-Hexane	5.00	4.92	4.77	98.4	95.4	55.0-137			3.10	20
Iodomethane	25.0	25.9	26.9	104	108	74.0-134			3.79	20
Isopropylbenzene	5.00	4.91	4.65	98.2	93.0	72.0-127			5.44	20
p-Isopropyltoluene	5.00	5.15	5.06	103	101	72.0-133			1.76	20
2-Butanone (MEK)	25.0	28.5	28.8	114	115	30.0-160			1.05	24
Methylene Chloride	5.00	5.68	6.09	114	122	68.0-123			6.97	20
4-Methyl-2-pentanone (MIBK)	25.0	29.3	28.8	117	115	56.0-143			1.72	20
Methyl tert-butyl ether	5.00	5.74	5.86	115	117	66.0-132			2.07	20
Naphthalene	5.00	4.62	5.07	92.4	101	59.0-130			9.29	20
n-Propylbenzene	5.00	5.08	4.88	102	97.6	74.0-126			4.02	20
Styrene	5.00	4.94	5.02	98.8	100	72.0-127			1.61	20
1,1,1,2-Tetrachloroethane	5.00	4.92	5.03	98.4	101	74.0-129			2.21	20
1,1,2,2-Tetrachloroethane	5.00	5.38	5.28	108	106	68.0-128			1.88	20
1,1,2-Trichlorotrifluoroethane	5.00	5.11	5.38	102	108	61.0-139			5.15	20
Tetrachloroethene	5.00	5.06	4.97	101	99.4	70.0-136			1.79	20
Toluene	5.00	4.72	4.66	94.4	93.2	75.0-121			1.28	20
1,2,3-Trichlorobenzene	5.00	4.72	5.38	94.4	108	59.0-139			13.1	20
1,2,4-Trichlorobenzene	5.00	4.85	5.09	97.0	102	62.0-137			4.83	20
1,1,1-Trichloroethane	5.00	5.46	5.57	109	111	69.0-126			1.99	20
1,1,2-Trichloroethane	5.00	5.10	5.13	102	103	78.0-123			0.587	20
Trichloroethene	5.00	4.98	4.87	99.6	97.4	76.0-126			2.23	20
Trichlorofluoromethane	5.00	5.82	6.02	116	120	61.0-142	J	J	3.38	20
1,2,3-Trichloropropane	5.00	5.91	5.76	118	115	67.0-129			2.57	20
1,2,4-Trimethylbenzene	5.00	5.16	5.00	103	100	70.0-126			3.15	20
1,2,3-Trimethylbenzene	5.00	4.99	4.89	99.8	97.8	74.0-124			2.02	20
1,3,5-Trimethylbenzene	5.00	5.04	4.78	101	95.6	73.0-127			5.30	20
Vinyl acetate	25.0	25.7	25.0	103	100	43.0-159			2.76	20
Vinyl chloride	5.00	5.63	5.90	113	118	63.0-134			4.68	20
Xylenes, Total	15.0	14.0	14.1	93.3	94.0	72.0-127			0.712	20
(S) Toluene-d8				*96.3*	*95.9*	*75.0-131*				
(S) 4-Bromofluorobenzene				*95.3*	*99.6*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*109*	*110*	*70.0-130*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
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	LAO000356
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

Report to: **Daniel Balbiani**

Email To: **Daniel.balbiani@nv5.com;sam.graber@nv5.com**

Project Description: **American Linen – SDOT**

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project # **1413001.10.603.04**

Lab Project # **PESENVSWA-ALP**

Collected by (print): D. Dal Grudice

Site/Facility ID #

P.O. # **1413001.10.603.04**

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Date Results Needed

Quote #

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**Nitr,chl,sulf 9056 250mlHDPE-NoPres	ALK 2320B 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	FE,MN total 6020 250mlHDPE HNO3	TOC 9060 250mlAmb-HCl	VOCS 8260ULL 40mlAmb-HCl						
							N V			N V								
MW-350-110724	G	GW	—	11/7/24	1047	9	X	X	X	X	X	X						5
		GW																
		GW																
		GW																
		GW																
		GW																
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		GW																
		GW																
		GW																
		GW																

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

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

SDG # L1720792

Table # H095

Acctnum: **PESENVSWA**
Template: **T262759**
Prelogin: **P1112668**
PM: **3768 - Jordan Dozier**
PB:

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4212 6472 7527

Sample Receipt Checklist

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	11/7/24	1516		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.6+0=2.6 °C Bottles Received: 9
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Easton Orem	Date: 11/8/24 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

November 21, 2024

PES Environmental, Inc.- WA

Sample Delivery Group:	L1797459
Samples Received:	11/08/2024
Project Number:	1413001.10.701.02
Description:	American Linen

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

Entire Report Reviewed By:

Shane Gambill
Project Manager

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

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW113-110724 L1797459-01 GW

Collected by | Collected date/time 11/07/24 09:20 | Received date/time 11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 10:01	11/13/24 10:01	JHH	Mt. Juliet, TN

MW-323-110724 L1797459-02 GW

Collected by | Collected date/time 11/07/24 10:04 | Received date/time 11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 10:20	11/13/24 10:20	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2401614	20	11/17/24 18:23	11/17/24 18:23	JHH	Mt. Juliet, TN

MW115-110724 L1797459-03 GW

Collected by | Collected date/time 11/07/24 11:02 | Received date/time 11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2400372	1	11/13/24 10:44	11/13/24 10:44	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2401614	1	11/17/24 17:45	11/17/24 17:45	JHH	Mt. Juliet, TN

MW-332-110724 L1797459-04 GW

Collected by | Collected date/time 11/07/24 12:15 | Received date/time 11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402109	1	11/15/24 13:25	11/15/24 13:25	KST	Mt. Juliet, TN

MW-324-110724 L1797459-05 GW

Collected by | Collected date/time 11/07/24 12:53 | Received date/time 11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402109	25	11/15/24 17:16	11/15/24 17:16	KST	Mt. Juliet, TN

MW-334-110724 L1797459-06 GW

Collected by | Collected date/time 11/07/24 13:32 | Received date/time 11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402109	1	11/15/24 13:44	11/15/24 13:44	KST	Mt. Juliet, TN

MW103-110724 L1797459-07 GW

Collected by | Collected date/time 11/07/24 14:23 | Received date/time 11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402109	20	11/15/24 17:36	11/15/24 17:36	KST	Mt. Juliet, TN

MW-121-110724 L1797459-08 GW

Collected by | Collected date/time 11/07/24 10:00 | Received date/time 11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398691	1	11/10/24 12:41	11/10/24 12:41	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2398286	1	11/09/24 03:54	11/09/24 03:54	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2399058	1	11/12/24 00:52	11/12/24 00:52	AF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2400811	20	11/17/24 15:09	11/18/24 17:15	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2400811	5	11/17/24 15:09	11/18/24 17:12	LD	Mt. Juliet, TN

MW-121-110724 L1797459-08 GW

Collected by	Collected date/time	Received date/time
	11/07/24 10:00	11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method RSK175	WG2399209	1	11/12/24 09:35	11/12/24 09:35	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402109	1	11/15/24 14:04	11/15/24 14:04	KST	Mt. Juliet, TN

MW-144R-110724 L1797459-09 GW

Collected by	Collected date/time	Received date/time
	11/07/24 12:15	11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398696	1	11/09/24 12:09	11/09/24 12:09	KA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2398286	1	11/09/24 04:11	11/09/24 04:11	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2399058	1	11/12/24 01:54	11/12/24 01:54	AF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2400811	5	11/17/24 15:09	11/18/24 17:19	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2399209	1	11/12/24 09:40	11/12/24 09:40	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2400134	10	11/12/24 14:43	11/12/24 14:43	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402109	1	11/15/24 14:23	11/15/24 14:23	KST	Mt. Juliet, TN

MW-120-110724 L1797459-10 GW

Collected by	Collected date/time	Received date/time
	11/07/24 14:40	11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398691	1	11/10/24 12:45	11/10/24 12:45	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2398286	1	11/09/24 04:28	11/09/24 04:28	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2399058	1	11/12/24 02:12	11/12/24 02:12	AF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2400812	1	11/18/24 13:40	11/18/24 20:14	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2399209	1	11/12/24 09:45	11/12/24 09:45	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402109	1	11/15/24 14:42	11/15/24 14:42	KST	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.

Shane Gambill
Project Manager

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1797459-06	MW-334-110724	8260D

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/13/2024 10:01	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 10:01	WG2400372
Benzene	0.0170	J	0.0160	0.0400	1	11/13/2024 10:01	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 10:01	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 10:01	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 10:01	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 10:01	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 10:01	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 10:01	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 10:01	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 10:01	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 10:01	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 10:01	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 10:01	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 10:01	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 10:01	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 10:01	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 10:01	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 10:01	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 10:01	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 10:01	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 10:01	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 10:01	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 10:01	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 10:01	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 10:01	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 10:01	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 10:01	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 10:01	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 10:01	WG2400372
1,1-Dichloroethene	0.0700	J	0.0200	0.100	1	11/13/2024 10:01	WG2400372
cis-1,2-Dichloroethene	57.2		0.0276	0.100	1	11/13/2024 10:01	WG2400372
trans-1,2-Dichloroethene	0.441		0.0572	0.200	1	11/13/2024 10:01	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 10:01	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 10:01	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 10:01	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 10:01	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 10:01	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 10:01	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 10:01	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 10:01	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 10:01	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 10:01	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 10:01	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 10:01	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 10:01	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 10:01	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 10:01	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 10:01	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 10:01	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 10:01	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 10:01	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 10:01	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 10:01	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 10:01	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 10:01	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 10:01	WG2400372
Tetrachloroethene	1.97		0.0280	0.100	1	11/13/2024 10:01	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 10:01	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 10:01	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 10:01	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 10:01	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 10:01	WG2400372
Trichloroethene	7.30		0.0160	0.0400	1	11/13/2024 10:01	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 10:01	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 10:01	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 10:01	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 10:01	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 10:01	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 10:01	WG2400372
Vinyl chloride	0.0670	J	0.0273	0.100	1	11/13/2024 10:01	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 10:01	WG2400372
(S) Toluene-d8	*99.6*			*75.0-131*		*11/13/2024 10:01*	WG2400372
(S) 4-Bromofluorobenzene	*93.8*			*67.0-138*		*11/13/2024 10:01*	WG2400372
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/13/2024 10:01*	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/13/2024 10:20	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 10:20	WG2400372
Benzene	0.0500		0.0160	0.0400	1	11/13/2024 10:20	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 10:20	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 10:20	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 10:20	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 10:20	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 10:20	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 10:20	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 10:20	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 10:20	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 10:20	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 10:20	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 10:20	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 10:20	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 10:20	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 10:20	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 10:20	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 10:20	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 10:20	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 10:20	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 10:20	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 10:20	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 10:20	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 10:20	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 10:20	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 10:20	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 10:20	WG2400372
1,1-Dichloroethane	0.0950	J	0.0230	0.100	1	11/13/2024 10:20	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 10:20	WG2400372
1,1-Dichloroethene	2.54		0.0200	0.100	1	11/13/2024 10:20	WG2400372
cis-1,2-Dichloroethene	527		0.552	2.00	20	11/17/2024 18:23	WG2401614
trans-1,2-Dichloroethene	0.517		0.0572	0.200	1	11/13/2024 10:20	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 10:20	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 10:20	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 10:20	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 10:20	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 10:20	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 10:20	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 10:20	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 10:20	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 10:20	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 10:20	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 10:20	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 10:20	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 10:20	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 10:20	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 10:20	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 10:20	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 10:20	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 10:20	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 10:20	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 10:20	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 10:20	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 10:20	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 10:20	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 10:20	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 10:20	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 10:20	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 10:20	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 10:20	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 10:20	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 10:20	WG2400372
Trichloroethene	0.0480		0.0160	0.0400	1	11/13/2024 10:20	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 10:20	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 10:20	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 10:20	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 10:20	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 10:20	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 10:20	WG2400372
Vinyl chloride	73.1		0.0273	0.100	1	11/13/2024 10:20	WG2400372
Xylenes, Total	U		0.191	0.260	1	11/13/2024 10:20	WG2400372
(S) Toluene-d8	*101*			*75.0-131*		*11/13/2024 10:20*	WG2400372
(S) Toluene-d8	*106*			*75.0-131*		*11/17/2024 18:23*	WG2401614
(S) 4-Bromofluorobenzene	*95.9*			*67.0-138*		*11/13/2024 10:20*	WG2400372
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*11/17/2024 18:23*	WG2401614
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/13/2024 10:20*	WG2400372
(S) 1,2-Dichloroethane-d4	*92.9*			*70.0-130*		*11/17/2024 18:23*	WG2401614

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/13/2024 10:44	WG2400372
Acrylonitrile	U		0.0760	0.500	1	11/13/2024 10:44	WG2400372
Benzene	U		0.0160	0.0400	1	11/13/2024 10:44	WG2400372
Bromobenzene	U		0.0420	0.500	1	11/13/2024 10:44	WG2400372
Bromochloromethane	U		0.0452	0.200	1	11/13/2024 10:44	WG2400372
Bromodichloromethane	U		0.0315	0.100	1	11/13/2024 10:44	WG2400372
Bromoform	U		0.239	1.00	1	11/13/2024 10:44	WG2400372
Bromomethane	U	J3	0.148	0.500	1	11/13/2024 10:44	WG2400372
n-Butylbenzene	U		0.153	0.500	1	11/13/2024 10:44	WG2400372
sec-Butylbenzene	U		0.101	0.500	1	11/13/2024 10:44	WG2400372
tert-Butylbenzene	U		0.0620	0.200	1	11/13/2024 10:44	WG2400372
Carbon disulfide	U		0.162	0.500	1	11/13/2024 10:44	WG2400372
Carbon tetrachloride	U		0.0432	0.200	1	11/13/2024 10:44	WG2400372
Chlorobenzene	U		0.0229	0.100	1	11/13/2024 10:44	WG2400372
Chlorodibromomethane	U		0.0180	0.100	1	11/13/2024 10:44	WG2400372
Chloroethane	U	C3 J3 J4	0.0432	0.200	1	11/13/2024 10:44	WG2400372
Chloroform	U		0.0166	0.100	1	11/13/2024 10:44	WG2400372
Chloromethane	U		0.0556	0.500	1	11/13/2024 10:44	WG2400372
2-Chlorotoluene	U		0.0368	0.100	1	11/13/2024 10:44	WG2400372
4-Chlorotoluene	U		0.0452	0.200	1	11/13/2024 10:44	WG2400372
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/13/2024 10:44	WG2400372
1,2-Dibromoethane	U		0.0210	0.100	1	11/13/2024 10:44	WG2400372
Dibromomethane	U		0.0400	0.200	1	11/13/2024 10:44	WG2400372
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/13/2024 10:44	WG2400372
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/13/2024 10:44	WG2400372
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/13/2024 10:44	WG2400372
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/13/2024 10:44	WG2400372
Dichlorodifluoromethane	U		0.0327	0.200	1	11/13/2024 10:44	WG2400372
1,1-Dichloroethane	U		0.0230	0.100	1	11/13/2024 10:44	WG2400372
1,2-Dichloroethane	U		0.0190	0.100	1	11/13/2024 10:44	WG2400372
1,1-Dichloroethene	U		0.0200	0.100	1	11/13/2024 10:44	WG2400372
cis-1,2-Dichloroethene	0.157		0.0276	0.100	1	11/17/2024 17:45	WG2401614
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/13/2024 10:44	WG2400372
1,2-Dichloropropane	U		0.0508	0.200	1	11/13/2024 10:44	WG2400372
1,1-Dichloropropene	U		0.0280	0.100	1	11/13/2024 10:44	WG2400372
1,3-Dichloropropane	U		0.0700	0.200	1	11/13/2024 10:44	WG2400372
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/13/2024 10:44	WG2400372
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/13/2024 10:44	WG2400372
2,2-Dichloropropane	U		0.0317	0.100	1	11/13/2024 10:44	WG2400372
Di-isopropyl ether	U		0.0140	0.0400	1	11/13/2024 10:44	WG2400372
Ethylbenzene	U		0.0212	0.100	1	11/13/2024 10:44	WG2400372
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/13/2024 10:44	WG2400372
2-Hexanone	U		0.400	1.00	1	11/13/2024 10:44	WG2400372
n-Hexane	U		0.0424	0.200	1	11/13/2024 10:44	WG2400372
Iodomethane	U		0.242	0.500	1	11/13/2024 10:44	WG2400372
Isopropylbenzene	U		0.0345	0.100	1	11/13/2024 10:44	WG2400372
p-Isopropyltoluene	U		0.0932	0.200	1	11/13/2024 10:44	WG2400372
2-Butanone (MEK)	U		0.500	1.00	1	11/13/2024 10:44	WG2400372
Methylene Chloride	U	J4	0.265	1.00	1	11/13/2024 10:44	WG2400372
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/13/2024 10:44	WG2400372
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/13/2024 10:44	WG2400372
Naphthalene	U		0.124	0.500	1	11/13/2024 10:44	WG2400372
n-Propylbenzene	U		0.0472	0.200	1	11/13/2024 10:44	WG2400372
Styrene	U		0.109	0.500	1	11/13/2024 10:44	WG2400372
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/13/2024 10:44	WG2400372
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/13/2024 10:44	WG2400372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/13/2024 10:44	WG2400372
Tetrachloroethene	U		0.0280	0.100	1	11/13/2024 10:44	WG2400372
Toluene	U		0.0500	0.200	1	11/13/2024 10:44	WG2400372
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/13/2024 10:44	WG2400372
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/13/2024 10:44	WG2400372
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/13/2024 10:44	WG2400372
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/13/2024 10:44	WG2400372
Trichloroethene	U		0.0160	0.0400	1	11/13/2024 10:44	WG2400372
Trichlorofluoromethane	U	C3 J3	0.0200	0.100	1	11/13/2024 10:44	WG2400372
1,2,3-Trichloropropane	U		0.204	0.500	1	11/13/2024 10:44	WG2400372
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/13/2024 10:44	WG2400372
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/13/2024 10:44	WG2400372
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/13/2024 10:44	WG2400372
Vinyl acetate	U		0.141	0.500	1	11/13/2024 10:44	WG2400372
Vinyl chloride	0.430		0.0273	0.100	1	11/17/2024 17:45	WG2401614
Xylenes, Total	U		0.191	0.260	1	11/13/2024 10:44	WG2400372
(S) Toluene-d8	*100*			*75.0-131*		*11/13/2024 10:44*	WG2400372
(S) Toluene-d8	*105*			*75.0-131*		*11/17/2024 17:45*	WG2401614
(S) 4-Bromofluorobenzene	*97.1*			*67.0-138*		*11/13/2024 10:44*	WG2400372
(S) 4-Bromofluorobenzene	*94.9*			*67.0-138*		*11/17/2024 17:45*	WG2401614
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/13/2024 10:44*	WG2400372
(S) 1,2-Dichloroethane-d4	*93.9*			*70.0-130*		*11/17/2024 17:45*	WG2401614

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/15/2024 13:25	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 13:25	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 13:25	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 13:25	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 13:25	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 13:25	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 13:25	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 13:25	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 13:25	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 13:25	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 13:25	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 13:25	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 13:25	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 13:25	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 13:25	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 13:25	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 13:25	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 13:25	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 13:25	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 13:25	WG2402109
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 13:25	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 13:25	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 13:25	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 13:25	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 13:25	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 13:25	WG2402109
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2024 13:25	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 13:25	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 13:25	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 13:25	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 13:25	WG2402109
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/15/2024 13:25	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 13:25	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 13:25	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 13:25	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 13:25	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 13:25	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 13:25	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 13:25	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 13:25	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 13:25	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 13:25	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 13:25	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 13:25	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 13:25	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 13:25	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 13:25	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 13:25	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 13:25	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 13:25	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 13:25	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 13:25	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 13:25	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 13:25	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 13:25	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 13:25	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 13:25	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 13:25	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 13:25	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 13:25	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 13:25	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 13:25	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 13:25	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 13:25	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 13:25	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 13:25	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 13:25	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 13:25	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 13:25	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 13:25	WG2402109
Vinyl chloride	U		0.0273	0.100	1	11/15/2024 13:25	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 13:25	WG2402109
(S) Toluene-d8	*98.6*			*75.0-131*		*11/15/2024 13:25*	WG2402109
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*		*11/15/2024 13:25*	WG2402109
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/15/2024 13:25*	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	13.7	25.0	25	11/15/2024 17:16	WG2402109
Acrylonitrile	U		1.90	12.5	25	11/15/2024 17:16	WG2402109
Benzene	U		0.400	1.00	25	11/15/2024 17:16	WG2402109
Bromobenzene	U		1.05	12.5	25	11/15/2024 17:16	WG2402109
Bromochloromethane	U		1.13	5.00	25	11/15/2024 17:16	WG2402109
Bromodichloromethane	U		0.788	2.50	25	11/15/2024 17:16	WG2402109
Bromoform	U		5.98	25.0	25	11/15/2024 17:16	WG2402109
Bromomethane	U		3.70	12.5	25	11/15/2024 17:16	WG2402109
n-Butylbenzene	U		3.83	12.5	25	11/15/2024 17:16	WG2402109
sec-Butylbenzene	U		2.53	12.5	25	11/15/2024 17:16	WG2402109
tert-Butylbenzene	U		1.55	5.00	25	11/15/2024 17:16	WG2402109
Carbon disulfide	U		4.05	12.5	25	11/15/2024 17:16	WG2402109
Carbon tetrachloride	U		1.08	5.00	25	11/15/2024 17:16	WG2402109
Chlorobenzene	U		0.573	2.50	25	11/15/2024 17:16	WG2402109
Chlorodibromomethane	U		0.450	2.50	25	11/15/2024 17:16	WG2402109
Chloroethane	U		1.08	5.00	25	11/15/2024 17:16	WG2402109
Chloroform	U		0.415	2.50	25	11/15/2024 17:16	WG2402109
Chloromethane	U		1.39	12.5	25	11/15/2024 17:16	WG2402109
2-Chlorotoluene	U		0.920	2.50	25	11/15/2024 17:16	WG2402109
4-Chlorotoluene	U		1.13	5.00	25	11/15/2024 17:16	WG2402109
1,2-Dibromo-3-Chloropropane	U		5.10	25.0	25	11/15/2024 17:16	WG2402109
1,2-Dibromoethane	U		0.525	2.50	25	11/15/2024 17:16	WG2402109
Dibromomethane	U		1.00	5.00	25	11/15/2024 17:16	WG2402109
1,2-Dichlorobenzene	U		1.45	5.00	25	11/15/2024 17:16	WG2402109
1,3-Dichlorobenzene	U		1.70	5.00	25	11/15/2024 17:16	WG2402109
1,4-Dichlorobenzene	U		1.97	5.00	25	11/15/2024 17:16	WG2402109
trans-1,4-Dichloro-2-butene	U	C3	1.40	5.00	25	11/15/2024 17:16	WG2402109
Dichlorodifluoromethane	U		0.818	5.00	25	11/15/2024 17:16	WG2402109
1,1-Dichloroethane	U		0.575	2.50	25	11/15/2024 17:16	WG2402109
1,2-Dichloroethane	U		0.475	2.50	25	11/15/2024 17:16	WG2402109
1,1-Dichloroethene	2.93		0.500	2.50	25	11/15/2024 17:16	WG2402109
cis-1,2-Dichloroethene	1600		0.690	2.50	25	11/15/2024 17:16	WG2402109
trans-1,2-Dichloroethene	8.65		1.43	5.00	25	11/15/2024 17:16	WG2402109
1,2-Dichloropropane	U		1.27	5.00	25	11/15/2024 17:16	WG2402109
1,1-Dichloropropene	U		0.700	2.50	25	11/15/2024 17:16	WG2402109
1,3-Dichloropropane	U		1.75	5.00	25	11/15/2024 17:16	WG2402109
cis-1,3-Dichloropropene	U		0.678	2.50	25	11/15/2024 17:16	WG2402109
trans-1,3-Dichloropropene	U		1.53	5.00	25	11/15/2024 17:16	WG2402109
2,2-Dichloropropane	U		0.793	2.50	25	11/15/2024 17:16	WG2402109
Di-isopropyl ether	U		0.350	1.00	25	11/15/2024 17:16	WG2402109
Ethylbenzene	U		0.530	2.50	25	11/15/2024 17:16	WG2402109
Hexachloro-1,3-butadiene	U		12.7	25.0	25	11/15/2024 17:16	WG2402109
2-Hexanone	U		10.0	25.0	25	11/15/2024 17:16	WG2402109
n-Hexane	U		1.06	5.00	25	11/15/2024 17:16	WG2402109
Iodomethane	U		6.05	12.5	25	11/15/2024 17:16	WG2402109
Isopropylbenzene	U		0.863	2.50	25	11/15/2024 17:16	WG2402109
p-Isopropyltoluene	U		2.33	5.00	25	11/15/2024 17:16	WG2402109
2-Butanone (MEK)	U		12.5	25.0	25	11/15/2024 17:16	WG2402109
Methylene Chloride	U		6.63	25.0	25	11/15/2024 17:16	WG2402109
4-Methyl-2-pentanone (MIBK)	U		10.0	25.0	25	11/15/2024 17:16	WG2402109
Methyl tert-butyl ether	U		0.295	1.00	25	11/15/2024 17:16	WG2402109
Naphthalene	U		3.10	12.5	25	11/15/2024 17:16	WG2402109
n-Propylbenzene	U		1.18	5.00	25	11/15/2024 17:16	WG2402109
Styrene	U		2.73	12.5	25	11/15/2024 17:16	WG2402109
1,1,1,2-Tetrachloroethane	U		0.500	2.50	25	11/15/2024 17:16	WG2402109
1,1,2,2-Tetrachloroethane	U		0.390	2.50	25	11/15/2024 17:16	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.675	2.50	25	11/15/2024 17:16	WG2402109
Tetrachloroethene	2.25	J	0.700	2.50	25	11/15/2024 17:16	WG2402109
Toluene	U		1.25	5.00	25	11/15/2024 17:16	WG2402109
1,2,3-Trichlorobenzene	U		0.625	12.5	25	11/15/2024 17:16	WG2402109
1,2,4-Trichlorobenzene	U		4.83	12.5	25	11/15/2024 17:16	WG2402109
1,1,1-Trichloroethane	U		0.275	2.50	25	11/15/2024 17:16	WG2402109
1,1,2-Trichloroethane	U		0.883	2.50	25	11/15/2024 17:16	WG2402109
Trichloroethene	U		0.400	1.00	25	11/15/2024 17:16	WG2402109
Trichlorofluoromethane	U		0.500	2.50	25	11/15/2024 17:16	WG2402109
1,2,3-Trichloropropane	U		5.10	12.5	25	11/15/2024 17:16	WG2402109
1,2,4-Trimethylbenzene	U		1.16	5.00	25	11/15/2024 17:16	WG2402109
1,2,3-Trimethylbenzene	U		1.15	5.00	25	11/15/2024 17:16	WG2402109
1,3,5-Trimethylbenzene	U		1.08	5.00	25	11/15/2024 17:16	WG2402109
Vinyl acetate	U		3.53	12.5	25	11/15/2024 17:16	WG2402109
Vinyl chloride	38.1		0.682	2.50	25	11/15/2024 17:16	WG2402109
Xylenes, Total	U		4.78	6.50	25	11/15/2024 17:16	WG2402109
(S) Toluene-d8	*98.7*			*75.0-131*		*11/15/2024 17:16*	WG2402109
(S) 4-Bromofluorobenzene	*90.9*			*67.0-138*		*11/15/2024 17:16*	WG2402109
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/15/2024 17:16*	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/15/2024 13:44	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 13:44	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 13:44	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 13:44	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 13:44	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 13:44	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 13:44	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 13:44	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 13:44	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 13:44	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 13:44	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 13:44	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 13:44	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 13:44	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 13:44	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 13:44	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 13:44	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 13:44	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 13:44	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 13:44	WG2402109
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 13:44	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 13:44	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 13:44	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 13:44	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 13:44	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 13:44	WG2402109
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2024 13:44	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 13:44	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 13:44	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 13:44	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 13:44	WG2402109
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/15/2024 13:44	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 13:44	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 13:44	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 13:44	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 13:44	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 13:44	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 13:44	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 13:44	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 13:44	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 13:44	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 13:44	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 13:44	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 13:44	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 13:44	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 13:44	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 13:44	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 13:44	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 13:44	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 13:44	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 13:44	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 13:44	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 13:44	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 13:44	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 13:44	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 13:44	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 13:44	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 13:44	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 13:44	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 13:44	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 13:44	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 13:44	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 13:44	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 13:44	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 13:44	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 13:44	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 13:44	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 13:44	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 13:44	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 13:44	WG2402109
Vinyl chloride	U		0.0273	0.100	1	11/15/2024 13:44	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 13:44	WG2402109
(S) Toluene-d8	*98.5*			*75.0-131*		*11/15/2024 13:44*	WG2402109
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*		*11/15/2024 13:44*	WG2402109
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/15/2024 13:44*	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	11.0	20.0	20	11/15/2024 17:36	WG2402109
Acrylonitrile	U		1.52	10.0	20	11/15/2024 17:36	WG2402109
Benzene	U		0.320	0.800	20	11/15/2024 17:36	WG2402109
Bromobenzene	U		0.840	10.0	20	11/15/2024 17:36	WG2402109
Bromochloromethane	U		0.904	4.00	20	11/15/2024 17:36	WG2402109
Bromodichloromethane	U		0.630	2.00	20	11/15/2024 17:36	WG2402109
Bromoform	U		4.78	20.0	20	11/15/2024 17:36	WG2402109
Bromomethane	U		2.96	10.0	20	11/15/2024 17:36	WG2402109
n-Butylbenzene	U		3.06	10.0	20	11/15/2024 17:36	WG2402109
sec-Butylbenzene	U		2.02	10.0	20	11/15/2024 17:36	WG2402109
tert-Butylbenzene	U		1.24	4.00	20	11/15/2024 17:36	WG2402109
Carbon disulfide	U		3.24	10.0	20	11/15/2024 17:36	WG2402109
Carbon tetrachloride	U		0.864	4.00	20	11/15/2024 17:36	WG2402109
Chlorobenzene	U		0.458	2.00	20	11/15/2024 17:36	WG2402109
Chlorodibromomethane	U		0.360	2.00	20	11/15/2024 17:36	WG2402109
Chloroethane	U		0.864	4.00	20	11/15/2024 17:36	WG2402109
Chloroform	U		0.332	2.00	20	11/15/2024 17:36	WG2402109
Chloromethane	U		1.11	10.0	20	11/15/2024 17:36	WG2402109
2-Chlorotoluene	U		0.736	2.00	20	11/15/2024 17:36	WG2402109
4-Chlorotoluene	U		0.904	4.00	20	11/15/2024 17:36	WG2402109
1,2-Dibromo-3-Chloropropane	U		4.08	20.0	20	11/15/2024 17:36	WG2402109
1,2-Dibromoethane	U		0.420	2.00	20	11/15/2024 17:36	WG2402109
Dibromomethane	U		0.800	4.00	20	11/15/2024 17:36	WG2402109
1,2-Dichlorobenzene	U		1.16	4.00	20	11/15/2024 17:36	WG2402109
1,3-Dichlorobenzene	U		1.36	4.00	20	11/15/2024 17:36	WG2402109
1,4-Dichlorobenzene	U		1.58	4.00	20	11/15/2024 17:36	WG2402109
trans-1,4-Dichloro-2-butene	U	C3	1.12	4.00	20	11/15/2024 17:36	WG2402109
Dichlorodifluoromethane	U		0.654	4.00	20	11/15/2024 17:36	WG2402109
1,1-Dichloroethane	U		0.460	2.00	20	11/15/2024 17:36	WG2402109
1,2-Dichloroethane	U		0.380	2.00	20	11/15/2024 17:36	WG2402109
1,1-Dichloroethene	3.78		0.400	2.00	20	11/15/2024 17:36	WG2402109
cis-1,2-Dichloroethene	614		0.552	2.00	20	11/15/2024 17:36	WG2402109
trans-1,2-Dichloroethene	4.02		1.14	4.00	20	11/15/2024 17:36	WG2402109
1,2-Dichloropropane	U		1.02	4.00	20	11/15/2024 17:36	WG2402109
1,1-Dichloropropene	U		0.560	2.00	20	11/15/2024 17:36	WG2402109
1,3-Dichloropropane	U		1.40	4.00	20	11/15/2024 17:36	WG2402109
cis-1,3-Dichloropropene	U		0.542	2.00	20	11/15/2024 17:36	WG2402109
trans-1,3-Dichloropropene	U		1.22	4.00	20	11/15/2024 17:36	WG2402109
2,2-Dichloropropane	U		0.634	2.00	20	11/15/2024 17:36	WG2402109
Di-isopropyl ether	U		0.280	0.800	20	11/15/2024 17:36	WG2402109
Ethylbenzene	U		0.424	2.00	20	11/15/2024 17:36	WG2402109
Hexachloro-1,3-butadiene	U		10.2	20.0	20	11/15/2024 17:36	WG2402109
2-Hexanone	U		8.00	20.0	20	11/15/2024 17:36	WG2402109
n-Hexane	U		0.848	4.00	20	11/15/2024 17:36	WG2402109
Iodomethane	U		4.84	10.0	20	11/15/2024 17:36	WG2402109
Isopropylbenzene	U		0.690	2.00	20	11/15/2024 17:36	WG2402109
p-Isopropyltoluene	U		1.86	4.00	20	11/15/2024 17:36	WG2402109
2-Butanone (MEK)	U		10.0	20.0	20	11/15/2024 17:36	WG2402109
Methylene Chloride	6.18	J	5.30	20.0	20	11/15/2024 17:36	WG2402109
4-Methyl-2-pentanone (MIBK)	U		8.00	20.0	20	11/15/2024 17:36	WG2402109
Methyl tert-butyl ether	U		0.236	0.800	20	11/15/2024 17:36	WG2402109
Naphthalene	U		2.48	10.0	20	11/15/2024 17:36	WG2402109
n-Propylbenzene	U		0.944	4.00	20	11/15/2024 17:36	WG2402109
Styrene	U		2.18	10.0	20	11/15/2024 17:36	WG2402109
1,1,1,2-Tetrachloroethane	U		0.400	2.00	20	11/15/2024 17:36	WG2402109
1,1,2,2-Tetrachloroethane	U		0.312	2.00	20	11/15/2024 17:36	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.540	2.00	20	11/15/2024 17:36	WG2402109
Tetrachloroethene	U		0.560	2.00	20	11/15/2024 17:36	WG2402109
Toluene	U		1.00	4.00	20	11/15/2024 17:36	WG2402109
1,2,3-Trichlorobenzene	U		0.500	10.0	20	11/15/2024 17:36	WG2402109
1,2,4-Trichlorobenzene	U		3.86	10.0	20	11/15/2024 17:36	WG2402109
1,1,1-Trichloroethane	U		0.220	2.00	20	11/15/2024 17:36	WG2402109
1,1,2-Trichloroethane	U		0.706	2.00	20	11/15/2024 17:36	WG2402109
Trichloroethene	U		0.320	0.800	20	11/15/2024 17:36	WG2402109
Trichlorofluoromethane	U		0.400	2.00	20	11/15/2024 17:36	WG2402109
1,2,3-Trichloropropane	U		4.08	10.0	20	11/15/2024 17:36	WG2402109
1,2,4-Trimethylbenzene	U		0.928	4.00	20	11/15/2024 17:36	WG2402109
1,2,3-Trimethylbenzene	U		0.920	4.00	20	11/15/2024 17:36	WG2402109
1,3,5-Trimethylbenzene	U		0.864	4.00	20	11/15/2024 17:36	WG2402109
Vinyl acetate	U		2.82	10.0	20	11/15/2024 17:36	WG2402109
Vinyl chloride	144		0.546	2.00	20	11/15/2024 17:36	WG2402109
Xylenes, Total	U		3.82	5.20	20	11/15/2024 17:36	WG2402109
(S) Toluene-d8	*98.0*			*75.0-131*		*11/15/2024 17:36*	WG2402109
(S) 4-Bromofluorobenzene	*92.8*			*67.0-138*		*11/15/2024 17:36*	WG2402109
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/15/2024 17:36*	WG2402109

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	893000		4750	20000	1	11/10/2024 12:41	WG2398691

Sample Narrative:

L1797459-08 WG2398691: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	35200		547	1000	1	11/09/2024 03:54	WG2398286
Nitrate as (N)	4600		88.4	100	1	11/09/2024 03:54	WG2398286
Sulfate	35400		637	5000	1	11/09/2024 03:54	WG2398286

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6960		495	1000	1	11/12/2024 00:52	WG2399058

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	4640		113	500	5	11/18/2024 17:12	WG2400811
Manganese	5330		14.0	100	20	11/18/2024 17:15	WG2400811

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	572		0.287	0.678	1	11/12/2024 09:35	WG2399209
Ethane	1.60		0.296	1.29	1	11/12/2024 09:35	WG2399209
Ethene	U		0.422	1.27	1	11/12/2024 09:35	WG2399209

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	13.5	C5 J4	0.548	1.00	1	11/15/2024 14:04	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 14:04	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 14:04	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 14:04	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 14:04	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 14:04	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 14:04	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 14:04	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 14:04	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 14:04	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 14:04	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 14:04	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 14:04	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 14:04	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 14:04	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 14:04	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 14:04	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 14:04	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 14:04	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 14:04	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 14:04	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 14:04	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 14:04	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 14:04	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 14:04	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 14:04	WG2402109
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2024 14:04	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 14:04	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 14:04	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 14:04	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 14:04	WG2402109
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/15/2024 14:04	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 14:04	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 14:04	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 14:04	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 14:04	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 14:04	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 14:04	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 14:04	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 14:04	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 14:04	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 14:04	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 14:04	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 14:04	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 14:04	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 14:04	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 14:04	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 14:04	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 14:04	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 14:04	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 14:04	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 14:04	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 14:04	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 14:04	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 14:04	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 14:04	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 14:04	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 14:04	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 14:04	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 14:04	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 14:04	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 14:04	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 14:04	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 14:04	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 14:04	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 14:04	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 14:04	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 14:04	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 14:04	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 14:04	WG2402109
Vinyl chloride	0.347		0.0273	0.100	1	11/15/2024 14:04	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 14:04	WG2402109
(S) Toluene-d8	*98.5*			*75.0-131*		*11/15/2024 14:04*	WG2402109
(S) 4-Bromofluorobenzene	*91.1*			*67.0-138*		*11/15/2024 14:04*	WG2402109
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/15/2024 14:04*	WG2402109

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

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	952000		4750	20000	1	11/09/2024 12:09	WG2398696

Sample Narrative:
L1797459-09 WG2398696: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	101000		547	1000	1	11/09/2024 04:11	WG2398286
Nitrate as (N)	U		88.4	100	1	11/09/2024 04:11	WG2398286
Sulfate	U		637	5000	1	11/09/2024 04:11	WG2398286

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5180		495	1000	1	11/12/2024 01:54	WG2399058

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	4800		113	500	5	11/18/2024 17:19	WG2400811
Manganese	1810		3.50	25.0	5	11/18/2024 17:19	WG2400811

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	21700		2.87	6.78	10	11/12/2024 14:43	WG2400134
Ethane	92.8		0.296	1.29	1	11/12/2024 09:40	WG2399209
Ethene	U		0.422	1.27	1	11/12/2024 09:40	WG2399209

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	162	C5 J4	0.548	1.00	1	11/15/2024 14:23	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 14:23	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 14:23	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 14:23	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 14:23	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 14:23	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 14:23	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 14:23	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 14:23	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 14:23	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 14:23	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 14:23	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 14:23	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 14:23	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 14:23	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 14:23	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 14:23	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 14:23	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 14:23	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 14:23	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 14:23	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 14:23	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 14:23	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 14:23	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 14:23	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 14:23	WG2402109
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2024 14:23	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 14:23	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 14:23	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 14:23	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 14:23	WG2402109
cis-1,2-Dichloroethene	0.210		0.0276	0.100	1	11/15/2024 14:23	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 14:23	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 14:23	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 14:23	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 14:23	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 14:23	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 14:23	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 14:23	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 14:23	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 14:23	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 14:23	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 14:23	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 14:23	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 14:23	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 14:23	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 14:23	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 14:23	WG2402109
Methylene Chloride	0.271	J	0.265	1.00	1	11/15/2024 14:23	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 14:23	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 14:23	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 14:23	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 14:23	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 14:23	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 14:23	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 14:23	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 14:23	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 14:23	WG2402109
Toluene	0.133	J	0.0500	0.200	1	11/15/2024 14:23	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 14:23	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 14:23	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 14:23	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 14:23	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 14:23	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 14:23	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 14:23	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 14:23	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 14:23	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 14:23	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 14:23	WG2402109
Vinyl chloride	U		0.0273	0.100	1	11/15/2024 14:23	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 14:23	WG2402109
(S) Toluene-d8	*101*			*75.0-131*		*11/15/2024 14:23*	WG2402109
(S) 4-Bromofluorobenzene	*93.3*			*67.0-138*		*11/15/2024 14:23*	WG2402109
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/15/2024 14:23*	WG2402109

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	22400		4750	20000	1	11/10/2024 12:45	WG2398691

Sample Narrative:

L1797459-10 WG2398691: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	3640		547	1000	1	11/09/2024 04:28	WG2398286
Nitrate as (N)	506		88.4	100	1	11/09/2024 04:28	WG2398286
Sulfate	2830	J	637	5000	1	11/09/2024 04:28	WG2398286

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1170		495	1000	1	11/12/2024 02:12	WG2399058

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	U		22.6	100	1	11/18/2024 20:14	WG2400812
Manganese	20.4		0.700	5.00	1	11/18/2024 20:14	WG2400812

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	11/12/2024 09:45	WG2399209
Ethane	U		0.296	1.29	1	11/12/2024 09:45	WG2399209
Ethene	U		0.422	1.27	1	11/12/2024 09:45	WG2399209

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/15/2024 14:42	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 14:42	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 14:42	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 14:42	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 14:42	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 14:42	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 14:42	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 14:42	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 14:42	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 14:42	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 14:42	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 14:42	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 14:42	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 14:42	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 14:42	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 14:42	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 14:42	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 14:42	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 14:42	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 14:42	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 14:42	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 14:42	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 14:42	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 14:42	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 14:42	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 14:42	WG2402109
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2024 14:42	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 14:42	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 14:42	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 14:42	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 14:42	WG2402109
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/15/2024 14:42	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 14:42	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 14:42	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 14:42	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 14:42	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 14:42	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 14:42	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 14:42	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 14:42	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 14:42	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 14:42	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 14:42	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 14:42	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 14:42	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 14:42	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 14:42	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 14:42	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 14:42	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 14:42	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 14:42	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 14:42	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 14:42	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 14:42	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 14:42	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 14:42	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 14:42	WG2402109
Tetrachloroethene	11.0		0.0280	0.100	1	11/15/2024 14:42	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 14:42	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 14:42	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 14:42	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 14:42	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 14:42	WG2402109
Trichloroethene	2.38		0.0160	0.0400	1	11/15/2024 14:42	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 14:42	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 14:42	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 14:42	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 14:42	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 14:42	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 14:42	WG2402109
Vinyl chloride	U		0.0273	0.100	1	11/15/2024 14:42	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 14:42	WG2402109
(S) Toluene-d8	*97.8*			*75.0-131*		*11/15/2024 14:42*	WG2402109
(S) 4-Bromofluorobenzene	*95.0*			*67.0-138*		*11/15/2024 14:42*	WG2402109
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*11/15/2024 14:42*	WG2402109

Method Blank (MB)

(MB) R4144239-2 11/10/24 12:21

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

Sample Narrative:
BLANK: Endpoint pH 4.5

L1797560-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1797560-05 11/10/24 12:29 • (DUP) R4144239-3 11/10/24 12:32

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	43900	44600	1	1.71		20

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

L1797560-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1797560-08 11/10/24 14:39 • (DUP) R4144239-4 11/10/24 14:43

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	131000	129000	1	1.28		20

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

Laboratory Control Sample (LCS)

(LCS) R4144239-1 11/10/24 12:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	102000	102	90.0-110	

Sample Narrative:
LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4144052-2 11/09/24 10:27

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1797143-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1797143-01 11/09/24 10:41 • (DUP) R4144052-3 11/09/24 10:49

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	13500000	13200000	1	2.09		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

L1797560-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1797560-07 11/09/24 12:33 • (DUP) R4144052-4 11/09/24 12:38

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	391000	391000	1	0.0709		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4144052-1 11/09/24 10:20

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	105000	105	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4144579-1 11/09/24 00:49

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

L1796910-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1796910-07 11/09/24 01:23 • (DUP) R4144579-3 11/09/24 01:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
		ug/l		%		%
Chloride		6340	1	0.659		15
Nitrate as (N)	180	180	1	0.222		15
Sulfate		1320	1	1.61	J	15

L1797473-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1797473-04 11/09/24 08:25 • (DUP) R4144579-5 11/09/24 08:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	143000	143000	1	0.347		15
Nitrate as (N)	5000	4950	1	0.883		15
Sulfate	181000	180000	1	0.483		15

Laboratory Control Sample (LCS)

(LCS) R4144579-2 11/09/24 01:06

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	37400	93.6	80.0-120	
Nitrate as (N)	8000	7820	97.7	80.0-120	
Sulfate	40000	38700	96.7	80.0-120	

L1796910-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1796910-07 11/09/24 01:23 • (MS) R4144579-4 11/09/24 01:57

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000		42100	89.4	1	80.0-120	
Nitrate as (N)	8000	180	7860	96.0	1	80.0-120	
Sulfate	40000		39000	94.2	1	80.0-120	

L1797473-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797473-04 11/09/24 08:25 • (MS) R4144579-6 11/09/24 08:59 • (MSD) R4144579-7 11/09/24 09:16

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	143000	152000	152000	21.1	20.5	1	80.0-120	J6	J6	0.156	15
Nitrate as (N)	8000	5000	11800	11700	84.6	83.8	1	80.0-120			0.560	15
Sulfate	40000	181000	182000	182000	4.13	3.93	1	80.0-120	V	V	0.0431	15

Method Blank (MB)

(MB) R4144782-2 11/11/24 12:04

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

L1797315-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1797315-02 11/11/24 17:43 • (DUP) R4144782-3 11/11/24 18:11

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	175000	180000	1	2.59	E	20

L1797397-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1797397-01 11/11/24 23:14 • (DUP) R4144782-6 11/11/24 23:32

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	2230	2020	1	9.98		20

Laboratory Control Sample (LCS)

(LCS) R4144782-1 11/11/24 11:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25000	23600	94.2	85.0-115	

L1797360-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797360-01 11/11/24 19:55 • (MS) R4144782-4 11/11/24 20:15 • (MSD) R4144782-5 11/11/24 20:36

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	1440	25400	25200	95.9	95.0	1	85.0-115			0.869	20

L1797459-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797459-08 11/12/24 00:52 • (MS) R4144782-7 11/12/24 01:13 • (MSD) R4144782-8 11/12/24 01:35

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	6960	31200	30900	97.1	95.6	1	85.0-115			1.22	20

Method Blank (MB)

(MB) R4147402-1 11/18/24 14:59

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

Laboratory Control Sample (LCS)

(LCS) R4147402-2 11/18/24 15:02

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	1000	991	99.1	80.0-120	
Manganese	50.0	50.1	100	80.0-120	

L1797384-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797384-06 11/18/24 15:06 • (MS) R4147402-4 11/18/24 15:12 • (MSD) R4147402-5 11/18/24 15:15

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	445	1410	1500	97.0	106	1	75.0-125			5.86	20
Manganese	50.0	3370	3380	3470	27.3	198	1	75.0-125	V	V	2.49	20

Method Blank (MB)

(MB) R4147468-1 11/18/24 19:54

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

Laboratory Control Sample (LCS)

(LCS) R4147468-2 11/18/24 19:58

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	1000	994	99.4	80.0-120	
Manganese	50.0	49.8	99.7	80.0-120	

L1797624-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797624-12 11/18/24 20:01 • (MS) R4147468-4 11/18/24 20:08 • (MSD) R4147468-5 11/18/24 20:11

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	1000	U	956	960	95.6	96.0	1	75.0-125			0.433	20
Manganese	50.0	U	47.9	47.8	95.9	95.6	1	75.0-125			0.325	20

Method Blank (MB)

(MB) R4144922-2 11/12/24 09:31

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

L1797459-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1797459-10 11/12/24 09:45 • (DUP) R4144922-3 11/12/24 10:57

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

L1797480-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1797480-04 11/12/24 11:06 • (DUP) R4144922-4 11/12/24 12:08

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

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

(LCS) R4144922-1 11/12/24 09:23 • (LCSD) R4144922-7 11/12/24 12:54

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	66.3	64.2	97.8	94.7	85.0-115			3.22	20
Ethane	129	119	119	92.2	92.2	85.0-115			0.000	20
Ethene	127	119	119	93.7	93.7	85.0-115			0.000	20

L1797525-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797525-03 11/12/24 11:42 • (MS) R4144922-5 11/12/24 12:42 • (MSD) R4144922-6 11/12/24 12:49

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methane	67.8	79.2	197	180	174	149	1	85.0-115	J5	J5	9.02	20
Ethane	129	U	157	146	122	113	1	85.0-115	J5		7.26	20
Ethene	127	U	155	144	122	113	1	85.0-115	J5		7.36	20

Method Blank (MB)

(MB) R4145005-2 11/12/24 14:17

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

L1797022-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1797022-05 11/12/24 14:32 • (DUP) R4145005-3 11/12/24 15:07

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	11900	11800	10	0.844		20

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

(LCS) R4145005-1 11/12/24 14:11 • (LCSD) R4145005-4 11/12/24 15:12

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	64.4	62.1	95.0	91.6	85.0-115			3.64	20

Method Blank (MB)

(MB) R4145414-3 11/13/24 03:29

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	0.0230	J	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

Method Blank (MB)

(MB) R4145414-3 11/13/24 03:29

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	*98.8*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*

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

(LCS) R4145414-1 11/13/24 02:12 • (LCSD) R4145414-2 11/13/24 02:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	39.3	40.7	157	163	10.0-160		J4	3.50	31
Acrylonitrile	25.0	33.6	30.8	134	123	45.0-153			8.70	22
Benzene	5.00	4.74	4.62	94.8	92.4	70.0-123			2.56	20
Bromobenzene	5.00	5.57	4.91	111	98.2	73.0-121			12.6	20
Bromochloromethane	5.00	5.62	5.74	112	115	77.0-128			2.11	20
Bromodichloromethane	5.00	4.83	4.88	96.6	97.6	73.0-121			1.03	20
Bromoform	5.00	4.19	4.47	83.8	89.4	64.0-132			6.47	20
Bromomethane	5.00	4.10	6.10	82.0	122	56.0-147		J3	39.2	20
n-Butylbenzene	5.00	5.30	4.72	106	94.4	68.0-135			11.6	20
sec-Butylbenzene	5.00	5.32	4.69	106	93.8	74.0-130			12.6	20
tert-Butylbenzene	5.00	5.39	4.83	108	96.6	75.0-127			11.0	20
Carbon disulfide	5.00	4.35	4.67	87.0	93.4	56.0-133			7.10	20
Carbon tetrachloride	5.00	5.41	5.59	108	112	66.0-128			3.27	20
Chlorobenzene	5.00	4.84	4.72	96.8	94.4	76.0-128			2.51	20
Chlorodibromomethane	5.00	4.54	4.55	90.8	91.0	74.0-127			0.220	20
Chloroethane	5.00	2.76	5.56	55.2	111	61.0-134	J4	J3	67.3	20
Chloroform	5.00	4.89	4.85	97.8	97.0	72.0-123			0.821	20
Chloromethane	5.00	4.65	4.75	93.0	95.0	51.0-138			2.13	20
2-Chlorotoluene	5.00	5.56	4.89	111	97.8	75.0-124			12.8	20
4-Chlorotoluene	5.00	5.37	4.73	107	94.6	75.0-124			12.7	20
1,2-Dibromo-3-Chloropropane	5.00	4.76	4.39	95.2	87.8	59.0-130			8.09	20
1,2-Dibromoethane	5.00	4.94	4.85	98.8	97.0	74.0-128			1.84	20
Dibromomethane	5.00	5.14	5.09	103	102	75.0-122			0.978	20
1,2-Dichlorobenzene	5.00	5.54	4.99	111	99.8	76.0-124			10.4	20
1,3-Dichlorobenzene	5.00	5.33	4.81	107	96.2	76.0-125			10.3	20
1,4-Dichlorobenzene	5.00	5.46	4.87	109	97.4	77.0-121			11.4	20
trans-1,4-Dichloro-2-butene	5.00	5.22	3.89	104	77.8	45.0-143		J3	29.2	20
Dichlorodifluoromethane	5.00	5.84	5.83	117	117	43.0-156			0.171	20
1,1-Dichloroethane	5.00	5.12	5.08	102	102	70.0-127			0.784	20
1,2-Dichloroethane	5.00	4.97	4.94	99.4	98.8	65.0-131			0.605	20
1,1-Dichloroethene	5.00	5.24	5.44	105	109	65.0-131			3.75	20
cis-1,2-Dichloroethene	5.00	5.05	5.14	101	103	73.0-125			1.77	20
trans-1,2-Dichloroethene	5.00	4.98	5.04	99.6	101	71.0-125			1.20	20
1,2-Dichloropropane	5.00	5.09	4.92	102	98.4	74.0-125			3.40	20
1,1-Dichloropropene	5.00	5.08	4.86	102	97.2	73.0-125			4.43	20
1,3-Dichloropropane	5.00	4.97	4.81	99.4	96.2	80.0-125			3.27	20
cis-1,3-Dichloropropene	5.00	5.08	4.98	102	99.6	76.0-127			1.99	20
trans-1,3-Dichloropropene	5.00	4.78	4.62	95.6	92.4	73.0-127			3.40	20
2,2-Dichloropropane	5.00	5.93	6.46	119	129	59.0-135			8.56	20
Di-isopropyl ether	5.00	4.84	4.93	96.8	98.6	60.0-136			1.84	20

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

(LCS) R4145414-1 11/13/24 02:12 • (LCSD) R4145414-2 11/13/24 02:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	4.97	4.80	99.4	96.0	74.0-126			3.48	20
Hexachloro-1,3-butadiene	5.00	5.38	5.01	108	100	57.0-150			7.12	20
2-Hexanone	25.0	23.7	24.0	94.8	96.0	54.0-147			1.26	20
n-Hexane	5.00	4.56	4.18	91.2	83.6	55.0-137			8.70	20
Iodomethane	25.0	25.9	27.4	104	110	74.0-134			5.63	20
Isopropylbenzene	5.00	5.20	5.12	104	102	72.0-127			1.55	20
p-Isopropyltoluene	5.00	5.46	4.92	109	98.4	72.0-133			10.4	20
2-Butanone (MEK)	25.0	27.9	27.9	112	112	30.0-160			0.000	24
Methylene Chloride	5.00	5.79	6.21	116	124	68.0-123		J4	7.00	20
4-Methyl-2-pentanone (MIBK)	25.0	29.2	28.3	117	113	56.0-143			3.13	20
Methyl tert-butyl ether	5.00	5.17	5.55	103	111	66.0-132			7.09	20
Naphthalene	5.00	5.48	4.96	110	99.2	59.0-130			9.96	20
n-Propylbenzene	5.00	5.28	4.62	106	92.4	74.0-126			13.3	20
Styrene	5.00	5.00	5.02	100	100	72.0-127			0.399	20
1,1,1,2-Tetrachloroethane	5.00	4.97	5.02	99.4	100	74.0-129			1.00	20
1,1,2,2-Tetrachloroethane	5.00	5.34	4.80	107	96.0	68.0-128			10.7	20
1,1,2-Trichlorotrifluoroethane	5.00	5.33	5.32	107	106	61.0-139			0.188	20
Tetrachloroethene	5.00	5.15	4.94	103	98.8	70.0-136			4.16	20
Toluene	5.00	4.80	4.53	96.0	90.6	75.0-121			5.79	20
1,2,3-Trichlorobenzene	5.00	5.62	5.15	112	103	59.0-139			8.73	20
1,2,4-Trichlorobenzene	5.00	5.64	5.03	113	101	62.0-137			11.4	20
1,1,1-Trichloroethane	5.00	5.43	5.68	109	114	69.0-126			4.50	20
1,1,2-Trichloroethane	5.00	5.18	5.03	104	101	78.0-123			2.94	20
Trichloroethene	5.00	4.99	4.87	99.8	97.4	76.0-126			2.43	20
Trichlorofluoromethane	5.00	3.64	5.43	72.8	109	61.0-142	J	J J3	39.5	20
1,2,3-Trichloropropane	5.00	6.09	5.38	122	108	67.0-129			12.4	20
1,2,4-Trimethylbenzene	5.00	5.48	4.82	110	96.4	70.0-126			12.8	20
1,2,3-Trimethylbenzene	5.00	5.23	4.71	105	94.2	74.0-124			10.5	20
1,3,5-Trimethylbenzene	5.00	5.33	4.68	107	93.6	73.0-127			13.0	20
Vinyl acetate	25.0	25.0	23.8	100	95.2	43.0-159			4.92	20
Vinyl chloride	5.00	5.52	5.59	110	112	63.0-134			1.26	20
Xylenes, Total	15.0	14.6	14.2	97.3	94.7	72.0-127			2.78	20
(S) Toluene-d8				*98.0*	*96.1*	*75.0-131*				
(S) 4-Bromofluorobenzene				*97.9*	*102*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*106*	*108*	*70.0-130*				

Method Blank (MB)

(MB) R4147881-2 11/17/24 14:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*95.5*			*75.0-131*
(S) 4-Bromofluorobenzene	*92.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*91.3*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4147881-1 11/17/24 13:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
cis-1,2-Dichloroethene	5.00	5.35	107	73.0-125	
Vinyl chloride	5.00	5.14	103	63.0-134	
(S) Toluene-d8			*105*	*75.0-131*	
(S) 4-Bromofluorobenzene			*103*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*94.6*	*70.0-130*	

Method Blank (MB)

(MB) R4148466-3 11/15/24 09:53

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

Method Blank (MB)

(MB) R4148466-3 11/15/24 09:53

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	*98.4*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*

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

(LCS) R4148466-1 11/15/24 08:17 • (LCSD) R4148466-2 11/15/24 08:36

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	51.8	51.2	207	205	10.0-160	J4	J4	1.17	31
Acrylonitrile	25.0	34.1	35.4	136	142	45.0-153			3.74	22
Benzene	5.00	4.78	4.72	95.6	94.4	70.0-123			1.26	20
Bromobenzene	5.00	5.31	5.07	106	101	73.0-121			4.62	20
Bromochloromethane	5.00	5.47	5.64	109	113	77.0-128			3.06	20
Bromodichloromethane	5.00	5.04	5.19	101	104	73.0-121			2.93	20
Bromoform	5.00	4.50	4.44	90.0	88.8	64.0-132			1.34	20
Bromomethane	5.00	6.16	6.42	123	128	56.0-147			4.13	20
n-Butylbenzene	5.00	4.91	4.99	98.2	99.8	68.0-135			1.62	20
sec-Butylbenzene	5.00	4.99	4.87	99.8	97.4	74.0-130			2.43	20
tert-Butylbenzene	5.00	5.03	4.88	101	97.6	75.0-127			3.03	20
Carbon disulfide	5.00	4.60	4.78	92.0	95.6	56.0-133			3.84	20
Carbon tetrachloride	5.00	5.41	5.55	108	111	66.0-128			2.55	20
Chlorobenzene	5.00	4.77	4.67	95.4	93.4	76.0-128			2.12	20
Chlorodibromomethane	5.00	4.72	4.66	94.4	93.2	74.0-127			1.28	20
Chloroethane	5.00	5.84	6.01	117	120	61.0-134			2.87	20
Chloroform	5.00	4.89	4.96	97.8	99.2	72.0-123			1.42	20
Chloromethane	5.00	6.36	6.56	127	131	51.0-138			3.10	20
2-Chlorotoluene	5.00	5.26	5.13	105	103	75.0-124			2.50	20
4-Chlorotoluene	5.00	5.20	5.01	104	100	75.0-124			3.72	20
1,2-Dibromo-3-Chloropropane	5.00	4.66	4.81	93.2	96.2	59.0-130			3.17	20
1,2-Dibromoethane	5.00	4.89	4.81	97.8	96.2	74.0-128			1.65	20
Dibromomethane	5.00	5.25	5.18	105	104	75.0-122			1.34	20
1,2-Dichlorobenzene	5.00	5.19	5.17	104	103	76.0-124			0.386	20
1,3-Dichlorobenzene	5.00	5.10	4.95	102	99.0	76.0-125			2.99	20
1,4-Dichlorobenzene	5.00	5.25	5.06	105	101	77.0-121			3.69	20
trans-1,4-Dichloro-2-butene	5.00	3.42	3.79	68.4	75.8	45.0-143			10.3	20
Dichlorodifluoromethane	5.00	5.51	5.82	110	116	43.0-156			5.47	20
1,1-Dichloroethane	5.00	5.08	5.08	102	102	70.0-127			0.000	20
1,2-Dichloroethane	5.00	4.91	5.00	98.2	100	65.0-131			1.82	20
1,1-Dichloroethene	5.00	5.25	5.41	105	108	65.0-131			3.00	20
cis-1,2-Dichloroethene	5.00	5.11	5.14	102	103	73.0-125			0.585	20
trans-1,2-Dichloroethene	5.00	4.80	4.98	96.0	99.6	71.0-125			3.68	20
1,2-Dichloropropane	5.00	5.08	5.04	102	101	74.0-125			0.791	20
1,1-Dichloropropene	5.00	5.14	4.97	103	99.4	73.0-125			3.36	20
1,3-Dichloropropane	5.00	4.91	4.87	98.2	97.4	80.0-125			0.818	20
cis-1,3-Dichloropropene	5.00	5.00	4.97	100	99.4	76.0-127			0.602	20
trans-1,3-Dichloropropene	5.00	4.71	4.54	94.2	90.8	73.0-127			3.68	20
2,2-Dichloropropane	5.00	6.11	6.20	122	124	59.0-135			1.46	20
Di-isopropyl ether	5.00	4.93	5.02	98.6	100	60.0-136			1.81	20

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

(LCS) R4148466-1 11/15/24 08:17 • (LCSD) R4148466-2 11/15/24 08:36

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	4.85	4.85	97.0	97.0	74.0-126			0.000	20
Hexachloro-1,3-butadiene	5.00	4.54	4.88	90.8	97.6	57.0-150			7.22	20
2-Hexanone	25.0	24.3	22.6	97.2	90.4	54.0-147			7.25	20
n-Hexane	5.00	4.92	4.77	98.4	95.4	55.0-137			3.10	20
Iodomethane	25.0	25.9	26.9	104	108	74.0-134			3.79	20
Isopropylbenzene	5.00	4.91	4.65	98.2	93.0	72.0-127			5.44	20
p-Isopropyltoluene	5.00	5.15	5.06	103	101	72.0-133			1.76	20
2-Butanone (MEK)	25.0	28.5	28.8	114	115	30.0-160			1.05	24
Methylene Chloride	5.00	5.68	6.09	114	122	68.0-123			6.97	20
4-Methyl-2-pentanone (MIBK)	25.0	29.3	28.8	117	115	56.0-143			1.72	20
Methyl tert-butyl ether	5.00	5.74	5.86	115	117	66.0-132			2.07	20
Naphthalene	5.00	4.62	5.07	92.4	101	59.0-130			9.29	20
n-Propylbenzene	5.00	5.08	4.88	102	97.6	74.0-126			4.02	20
Styrene	5.00	4.94	5.02	98.8	100	72.0-127			1.61	20
1,1,1,2-Tetrachloroethane	5.00	4.92	5.03	98.4	101	74.0-129			2.21	20
1,1,2,2-Tetrachloroethane	5.00	5.38	5.28	108	106	68.0-128			1.88	20
1,1,2-Trichlorotrifluoroethane	5.00	5.11	5.38	102	108	61.0-139			5.15	20
Tetrachloroethene	5.00	5.06	4.97	101	99.4	70.0-136			1.79	20
Toluene	5.00	4.72	4.66	94.4	93.2	75.0-121			1.28	20
1,2,3-Trichlorobenzene	5.00	4.72	5.38	94.4	108	59.0-139			13.1	20
1,2,4-Trichlorobenzene	5.00	4.85	5.09	97.0	102	62.0-137			4.83	20
1,1,1-Trichloroethane	5.00	5.46	5.57	109	111	69.0-126			1.99	20
1,1,2-Trichloroethane	5.00	5.10	5.13	102	103	78.0-123			0.587	20
Trichloroethene	5.00	4.98	4.87	99.6	97.4	76.0-126			2.23	20
Trichlorofluoromethane	5.00	5.82	6.02	116	120	61.0-142	J	J	3.38	20
1,2,3-Trichloropropane	5.00	5.91	5.76	118	115	67.0-129			2.57	20
1,2,4-Trimethylbenzene	5.00	5.16	5.00	103	100	70.0-126			3.15	20
1,2,3-Trimethylbenzene	5.00	4.99	4.89	99.8	97.8	74.0-124			2.02	20
1,3,5-Trimethylbenzene	5.00	5.04	4.78	101	95.6	73.0-127			5.30	20
Vinyl acetate	25.0	25.7	25.0	103	100	43.0-159			2.76	20
Vinyl chloride	5.00	5.63	5.90	113	118	63.0-134			4.68	20
Xylenes, Total	15.0	14.0	14.1	93.3	94.0	72.0-127			0.712	20
(S) Toluene-d8				*96.3*	*95.9*	*75.0-131*				
(S) 4-Bromofluorobenzene				*95.3*	*99.6*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*109*	*110*	*70.0-130*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace 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	LAO000356
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

Report to: **Daniel Balbiani**

Email To: Daniel.balbiani@nv5.com;sam.graber@nv5.com

Project Description: **American Linen**

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project # **1413001.10.701.02**

Lab Project # **PESENVSWA-ALP**

Collected by (print): D. Del Giudice

Site/Facility ID #

P.O. # **443022-1413001.10.701**

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**Nitr,chl,sulf 9056 250mlHDPE-NoPres	ALK 2320B 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	FE,MN total 6020 250mlHDPE-HNO3	TOC 9060 250mlAmb-HCl	VOCS 8260ULL 40mlAmb-HCl						
										<2	<2							
MW113-110724	G	GW	—	11/7/24	0920	3						X						-01
MW-323-110724		GW			1004							X						-02
MW115-110724		GW			1102							X						-03
MW-332-110724		GW			1215							X						-04
MW-324-110724		GW			1253							X						-05
MW-334-110724		GW			1332							X						-06
MW103-110724		GW			1423							X						-07
MW-121-110724		GW			1000	9	X	X	X	X	X	X						-08
MW-144R-110724		GW			1215	9	X	X	X	X	X	X						-09
MW-120-110724		GW			1440	9	X	X	X	X	X	X						-10

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

PH – 10BDH0941
TRC – 3327A333

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4212 6472 7516

Relinquished by : (Signature) — Date: 11/7/24 — Time: 1526 — Received by: (Signature)

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

Relinquished by : (Signature) — Date: — Time: — Received for lab by: (Signature) Ashley Baxter — Date: 11/08/2024 — Time: 0900

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: °C Bottles Received: TEMP 1.0+0=1.0 48

If preservation required by Login: Date/Time

Hold: — Condition: NCF / OK

Sample Receipt Checklist

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

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

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

SDG # L1707451

C196

Acctnum: **PESENVSWA**
Template: **T262759**
Prelogin: **P1110133**
PM: **3768 - Jordan Dozier**
PB: LM 10/23/24
Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

ANALYTICAL REPORT

December 02, 2024

PES Environmental, Inc.- WA

Sample Delivery Group:	L1797476
Samples Received:	11/08/2024
Project Number:	1413001.10.701.02
Description:	American Linen

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

Entire Report Reviewed By:

J Dozier

Jordan Dozier
Project Manager

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

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-147-110724 L1797476-01 GW

Collected by	Collected date/time	Received date/time
	11/07/24 10:37	11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398691	1	11/10/24 13:58	11/10/24 13:58	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2398303	1	11/09/24 02:33	11/09/24 02:33	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2399058	1	11/12/24 02:32	11/12/24 02:32	AF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2400812	1	11/18/24 13:40	11/18/24 20:17	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2399209	1	11/12/24 09:49	11/12/24 09:49	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402109	1	11/15/24 15:01	11/15/24 15:01	KST	Mt. Juliet, TN

MW-146-110724 L1797476-02 GW

Collected by	Collected date/time	Received date/time
	11/07/24 12:22	11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398691	1	11/10/24 14:47	11/10/24 14:47	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2398303	1	11/09/24 03:27	11/09/24 03:27	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2399058	1	11/12/24 02:51	11/12/24 02:51	AF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2400812	1	11/18/24 13:40	11/18/24 20:21	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2399209	1	11/12/24 09:54	11/12/24 09:54	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2400134	10	11/12/24 14:48	11/12/24 14:48	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402109	1	11/15/24 15:21	11/15/24 15:21	KST	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405317	10	11/23/24 15:18	11/23/24 15:18	DWR	Mt. Juliet, TN

MW-994-110724 L1797476-03 GW

Collected by	Collected date/time	Received date/time
	11/07/24 11:11	11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398696	1	11/09/24 12:16	11/09/24 12:16	KA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2398303	1	11/09/24 03:45	11/09/24 03:45	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2399384	1	11/11/24 15:16	11/11/24 15:16	AF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2400812	1	11/18/24 13:40	11/18/24 20:24	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2399209	1	11/12/24 10:00	11/12/24 10:00	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2400134	10	11/12/24 14:55	11/12/24 14:55	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402109	1	11/15/24 15:40	11/15/24 15:40	KST	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405317	10	11/23/24 15:37	11/23/24 15:37	DWR	Mt. Juliet, TN

EB-110724 L1797476-04 GW

Collected by	Collected date/time	Received date/time
	11/07/24 14:07	11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398696	1	11/09/24 12:22	11/09/24 12:22	KA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2398303	1	11/09/24 04:03	11/09/24 04:03	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2399384	1	11/11/24 16:02	11/11/24 16:02	AF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2400812	1	11/18/24 13:40	11/18/24 20:36	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2399209	1	11/12/24 10:07	11/12/24 10:07	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402109	1	11/15/24 15:59	11/15/24 15:59	KST	Mt. Juliet, TN

MW-153-110724 L1797476-06 GW

Collected by	Collected date/time	Received date/time
	11/07/24 13:23	11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402109	1	11/15/24 16:19	11/15/24 16:19	KST	Mt. Juliet, TN

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

MW-995-110724 L1797476-07 GW

Collected by	Collected date/time	Received date/time
	11/07/24 12:22	11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402109	1	11/15/24 16:38	11/15/24 16:38	KST	Mt. Juliet, TN

MW-154-110724 L1797476-08 GW

Collected by	Collected date/time	Received date/time
	11/07/24 14:52	11/08/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398691	1	11/10/24 14:52	11/10/24 14:52	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2398303	1	11/09/24 04:21	11/09/24 04:21	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2399384	1	11/11/24 16:29	11/11/24 16:29	AF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2400812	1	11/18/24 13:40	11/18/24 20:39	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2399209	1	11/12/24 10:14	11/12/24 10:14	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2400134	10	11/12/24 15:01	11/12/24 15:01	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402109	1	11/15/24 16:57	11/15/24 16:57	KST	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 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	329000		4750	20000	1	11/10/2024 13:58	WG2398691

Sample Narrative:

L1797476-01 WG2398691: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	67200	J6	547	1000	1	11/09/2024 02:33	WG2398303
Nitrate as (N)	U		88.4	100	1	11/09/2024 02:33	WG2398303
Sulfate	21600		637	5000	1	11/09/2024 02:33	WG2398303

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4860		495	1000	1	11/12/2024 02:32	WG2399058

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	4760		22.6	100	1	11/18/2024 20:17	WG2400812
Manganese	634		0.700	5.00	1	11/18/2024 20:17	WG2400812

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	5090		0.287	0.678	1	11/12/2024 09:49	WG2399209
Ethane	47.2		0.296	1.29	1	11/12/2024 09:49	WG2399209
Ethene	117		0.422	1.27	1	11/12/2024 09:49	WG2399209

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	6.68	C5 J4	0.548	1.00	1	11/15/2024 15:01	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 15:01	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 15:01	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 15:01	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 15:01	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 15:01	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 15:01	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 15:01	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 15:01	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 15:01	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 15:01	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 15:01	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 15:01	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 15:01	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 15:01	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 15:01	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 15:01	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 15:01	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 15:01	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 15:01	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 15:01	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 15:01	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 15:01	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 15:01	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 15:01	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 15:01	WG2402109
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2024 15:01	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 15:01	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 15:01	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 15:01	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 15:01	WG2402109
cis-1,2-Dichloroethene	12.3		0.0276	0.100	1	11/15/2024 15:01	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 15:01	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 15:01	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 15:01	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 15:01	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 15:01	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 15:01	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 15:01	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 15:01	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 15:01	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 15:01	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 15:01	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 15:01	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 15:01	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 15:01	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 15:01	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 15:01	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 15:01	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 15:01	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 15:01	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 15:01	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 15:01	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 15:01	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 15:01	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 15:01	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 15:01	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 15:01	WG2402109
Toluene	0.0680	J	0.0500	0.200	1	11/15/2024 15:01	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 15:01	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 15:01	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 15:01	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 15:01	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 15:01	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 15:01	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 15:01	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 15:01	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 15:01	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 15:01	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 15:01	WG2402109
Vinyl chloride	34.2		0.0273	0.100	1	11/15/2024 15:01	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 15:01	WG2402109
(S) Toluene-d8	*100*			*75.0-131*		*11/15/2024 15:01*	WG2402109
(S) 4-Bromofluorobenzene	*92.6*			*67.0-138*		*11/15/2024 15:01*	WG2402109
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/15/2024 15:01*	WG2402109

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

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	575000		4750	20000	1	11/10/2024 14:47	WG2398691

Sample Narrative:
L1797476-02 WG2398691: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	50600		547	1000	1	11/09/2024 03:27	WG2398303
Nitrate as (N)	U		88.4	100	1	11/09/2024 03:27	WG2398303
Sulfate	6400		637	5000	1	11/09/2024 03:27	WG2398303

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4520		495	1000	1	11/12/2024 02:51	WG2399058

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	7140		22.6	100	1	11/18/2024 20:21	WG2400812
Manganese	1580		0.700	5.00	1	11/18/2024 20:21	WG2400812

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	23400		2.87	6.78	10	11/12/2024 14:48	WG2400134
Ethane	307		0.296	1.29	1	11/12/2024 09:54	WG2399209
Ethene	220		0.422	1.27	1	11/12/2024 09:54	WG2399209

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/15/2024 15:21	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 15:21	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 15:21	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 15:21	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 15:21	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 15:21	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 15:21	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 15:21	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 15:21	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 15:21	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 15:21	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 15:21	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 15:21	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 15:21	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 15:21	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 15:21	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 15:21	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 15:21	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 15:21	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 15:21	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 15:21	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 15:21	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 15:21	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 15:21	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 15:21	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 15:21	WG2402109
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2024 15:21	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 15:21	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 15:21	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 15:21	WG2402109
1,1-Dichloroethene	0.170		0.0200	0.100	1	11/15/2024 15:21	WG2402109
cis-1,2-Dichloroethene	70.2		0.0276	0.100	1	11/15/2024 15:21	WG2402109
trans-1,2-Dichloroethene	1.45		0.0572	0.200	1	11/15/2024 15:21	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 15:21	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 15:21	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 15:21	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 15:21	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 15:21	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 15:21	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 15:21	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 15:21	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 15:21	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 15:21	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 15:21	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 15:21	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 15:21	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 15:21	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 15:21	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 15:21	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 15:21	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 15:21	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 15:21	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 15:21	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 15:21	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 15:21	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 15:21	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 15:21	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 15:21	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 15:21	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 15:21	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 15:21	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 15:21	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 15:21	WG2402109
Trichloroethene	0.153		0.0160	0.0400	1	11/15/2024 15:21	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 15:21	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 15:21	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 15:21	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 15:21	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 15:21	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 15:21	WG2402109
Vinyl chloride	159	Q	0.273	1.00	10	11/23/2024 15:18	WG2405317
Xylenes, Total	U		0.191	0.260	1	11/15/2024 15:21	WG2402109
(S) Toluene-d8	*99.4*			*75.0-131*		*11/15/2024 15:21*	WG2402109
(S) Toluene-d8	*111*			*75.0-131*		*11/23/2024 15:18*	WG2405317
(S) 4-Bromofluorobenzene	*92.4*			*67.0-138*		*11/15/2024 15:21*	WG2402109
(S) 4-Bromofluorobenzene	*91.0*			*67.0-138*		*11/23/2024 15:18*	WG2405317

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/15/2024 15:21*	WG2402109
(S) 1,2-Dichloroethane-d4	*93.0*			*70.0-130*		*11/23/2024 15:18*	WG2405317

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	578000		4750	20000	1	11/09/2024 12:16	WG2398696

Sample Narrative:

L1797476-03 WG2398696: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	50400		547	1000	1	11/09/2024 03:45	WG2398303
Nitrate as (N)	U		88.4	100	1	11/09/2024 03:45	WG2398303
Sulfate	6060		637	5000	1	11/09/2024 03:45	WG2398303

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	8390		495	1000	1	11/11/2024 15:16	WG2399384

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	7280		22.6	100	1	11/18/2024 20:24	WG2400812
Manganese	1580		0.700	5.00	1	11/18/2024 20:24	WG2400812

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	21100		2.87	6.78	10	11/12/2024 14:55	WG2400134
Ethane	286		0.296	1.29	1	11/12/2024 10:00	WG2399209
Ethene	206		0.422	1.27	1	11/12/2024 10:00	WG2399209

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/15/2024 15:40	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 15:40	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 15:40	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 15:40	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 15:40	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 15:40	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 15:40	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 15:40	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 15:40	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 15:40	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 15:40	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 15:40	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 15:40	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 15:40	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 15:40	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 15:40	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 15:40	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 15:40	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 15:40	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 15:40	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 15:40	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 15:40	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 15:40	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 15:40	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 15:40	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 15:40	WG2402109
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2024 15:40	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 15:40	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 15:40	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 15:40	WG2402109
1,1-Dichloroethene	0.179		0.0200	0.100	1	11/15/2024 15:40	WG2402109
cis-1,2-Dichloroethene	70.6		0.0276	0.100	1	11/15/2024 15:40	WG2402109
trans-1,2-Dichloroethene	1.47		0.0572	0.200	1	11/15/2024 15:40	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 15:40	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 15:40	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 15:40	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 15:40	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 15:40	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 15:40	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 15:40	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 15:40	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 15:40	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 15:40	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 15:40	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 15:40	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 15:40	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 15:40	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 15:40	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 15:40	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 15:40	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 15:40	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 15:40	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 15:40	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 15:40	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 15:40	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 15:40	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 15:40	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 15:40	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 15:40	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 15:40	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 15:40	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 15:40	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 15:40	WG2402109
Trichloroethene	0.170		0.0160	0.0400	1	11/15/2024 15:40	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 15:40	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 15:40	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 15:40	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 15:40	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 15:40	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 15:40	WG2402109
Vinyl chloride	165	Q	0.273	1.00	10	11/23/2024 15:37	WG2405317
Xylenes, Total	U		0.191	0.260	1	11/15/2024 15:40	WG2402109
(S) Toluene-d8	*99.5*			*75.0-131*		*11/15/2024 15:40*	WG2402109
(S) Toluene-d8	*105*			*75.0-131*		*11/23/2024 15:37*	WG2405317
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*		*11/15/2024 15:40*	WG2402109
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*		*11/23/2024 15:37*	WG2405317

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/15/2024 15:40*	WG2402109
(S) 1,2-Dichloroethane-d4	*93.2*			*70.0-130*		*11/23/2024 15:37*	WG2405317

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	U		4750	20000	1	11/09/2024 12:22	WG2398696

Sample Narrative:

L1797476-04 WG2398696: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1900		547	1000	1	11/09/2024 04:03	WG2398303
Nitrate as (N)	U		88.4	100	1	11/09/2024 04:03	WG2398303
Sulfate	761	J	637	5000	1	11/09/2024 04:03	WG2398303

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)	U		495	1000	1	11/11/2024 16:02	WG2399384

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	U		22.6	100	1	11/18/2024 20:36	WG2400812
Manganese	0.998	J	0.700	5.00	1	11/18/2024 20:36	WG2400812

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	8.09		0.287	0.678	1	11/12/2024 10:07	WG2399209
Ethane	U		0.296	1.29	1	11/12/2024 10:07	WG2399209
Ethene	U		0.422	1.27	1	11/12/2024 10:07	WG2399209

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/15/2024 15:59	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 15:59	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 15:59	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 15:59	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 15:59	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 15:59	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 15:59	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 15:59	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 15:59	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 15:59	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 15:59	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 15:59	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 15:59	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 15:59	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 15:59	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 15:59	WG2402109
Chloroform	0.0760	J	0.0166	0.100	1	11/15/2024 15:59	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 15:59	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 15:59	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 15:59	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 15:59	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 15:59	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 15:59	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 15:59	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 15:59	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 15:59	WG2402109
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2024 15:59	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 15:59	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 15:59	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 15:59	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 15:59	WG2402109
cis-1,2-Dichloroethene	0.132		0.0276	0.100	1	11/15/2024 15:59	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 15:59	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 15:59	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 15:59	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 15:59	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 15:59	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 15:59	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 15:59	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 15:59	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 15:59	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 15:59	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 15:59	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 15:59	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 15:59	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 15:59	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 15:59	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 15:59	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 15:59	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 15:59	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 15:59	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 15:59	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 15:59	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 15:59	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 15:59	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 15:59	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 15:59	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 15:59	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 15:59	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 15:59	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 15:59	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 15:59	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 15:59	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 15:59	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 15:59	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 15:59	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 15:59	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 15:59	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 15:59	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 15:59	WG2402109
Vinyl chloride	U		0.0273	0.100	1	11/15/2024 15:59	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 15:59	WG2402109
(S) Toluene-d8	*99.7*			*75.0-131*		*11/15/2024 15:59*	WG2402109
(S) 4-Bromofluorobenzene	*92.0*			*67.0-138*		*11/15/2024 15:59*	WG2402109
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*11/15/2024 15:59*	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/15/2024 16:19	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 16:19	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 16:19	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 16:19	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 16:19	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 16:19	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 16:19	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 16:19	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 16:19	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 16:19	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 16:19	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 16:19	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 16:19	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 16:19	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 16:19	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 16:19	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 16:19	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 16:19	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 16:19	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 16:19	WG2402109
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 16:19	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 16:19	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 16:19	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 16:19	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 16:19	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 16:19	WG2402109
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2024 16:19	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 16:19	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 16:19	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 16:19	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 16:19	WG2402109
cis-1,2-Dichloroethene	0.258		0.0276	0.100	1	11/15/2024 16:19	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 16:19	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 16:19	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 16:19	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 16:19	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 16:19	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 16:19	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 16:19	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 16:19	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 16:19	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 16:19	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 16:19	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 16:19	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 16:19	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 16:19	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 16:19	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 16:19	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 16:19	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 16:19	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 16:19	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 16:19	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 16:19	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 16:19	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 16:19	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 16:19	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 16:19	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 16:19	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 16:19	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 16:19	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 16:19	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 16:19	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 16:19	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 16:19	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 16:19	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 16:19	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 16:19	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 16:19	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 16:19	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 16:19	WG2402109
Vinyl chloride	0.131		0.0273	0.100	1	11/15/2024 16:19	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 16:19	WG2402109
(S) Toluene-d8	*101*			*75.0-131*		*11/15/2024 16:19*	WG2402109
(S) 4-Bromofluorobenzene	*92.8*			*67.0-138*		*11/15/2024 16:19*	WG2402109
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/15/2024 16:19*	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	0.548	1.00	1	11/15/2024 16:38	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 16:38	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 16:38	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 16:38	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 16:38	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 16:38	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 16:38	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 16:38	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 16:38	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 16:38	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 16:38	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 16:38	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 16:38	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 16:38	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 16:38	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 16:38	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 16:38	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 16:38	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 16:38	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 16:38	WG2402109
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 16:38	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 16:38	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 16:38	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 16:38	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 16:38	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 16:38	WG2402109
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2024 16:38	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 16:38	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 16:38	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 16:38	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 16:38	WG2402109
cis-1,2-Dichloroethene	0.210		0.0276	0.100	1	11/15/2024 16:38	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 16:38	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 16:38	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 16:38	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 16:38	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 16:38	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 16:38	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 16:38	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 16:38	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 16:38	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 16:38	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 16:38	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 16:38	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 16:38	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 16:38	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 16:38	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 16:38	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 16:38	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 16:38	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 16:38	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 16:38	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 16:38	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 16:38	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 16:38	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 16:38	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 16:38	WG2402109
Tetrachloroethene	U		0.0280	0.100	1	11/15/2024 16:38	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 16:38	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 16:38	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 16:38	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 16:38	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 16:38	WG2402109
Trichloroethene	U		0.0160	0.0400	1	11/15/2024 16:38	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 16:38	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 16:38	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 16:38	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 16:38	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 16:38	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 16:38	WG2402109
Vinyl chloride	U		0.0273	0.100	1	11/15/2024 16:38	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 16:38	WG2402109
(S) Toluene-d8	*98.6*			*75.0-131*		*11/15/2024 16:38*	WG2402109
(S) 4-Bromofluorobenzene	*90.2*			*67.0-138*		*11/15/2024 16:38*	WG2402109
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/15/2024 16:38*	WG2402109

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	206000		4750	20000	1	11/10/2024 14:52	WG2398691

Sample Narrative:

L1797476-08 WG2398691: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	55100		547	1000	1	11/09/2024 04:21	WG2398303
Nitrate as (N)	308		88.4	100	1	11/09/2024 04:21	WG2398303
Sulfate	58000		637	5000	1	11/09/2024 04:21	WG2398303

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2630		495	1000	1	11/11/2024 16:29	WG2399384

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	96.3	J	22.6	100	1	11/18/2024 20:39	WG2400812
Manganese	704		0.700	5.00	1	11/18/2024 20:39	WG2400812

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	10900		2.87	6.78	10	11/12/2024 15:01	WG2400134
Ethane	13.9		0.296	1.29	1	11/12/2024 10:14	WG2399209
Ethene	U		0.422	1.27	1	11/12/2024 10:14	WG2399209

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/15/2024 16:57	WG2402109
Acrylonitrile	U		0.0760	0.500	1	11/15/2024 16:57	WG2402109
Benzene	U		0.0160	0.0400	1	11/15/2024 16:57	WG2402109
Bromobenzene	U		0.0420	0.500	1	11/15/2024 16:57	WG2402109
Bromochloromethane	U		0.0452	0.200	1	11/15/2024 16:57	WG2402109
Bromodichloromethane	U		0.0315	0.100	1	11/15/2024 16:57	WG2402109
Bromoform	U		0.239	1.00	1	11/15/2024 16:57	WG2402109
Bromomethane	U		0.148	0.500	1	11/15/2024 16:57	WG2402109
n-Butylbenzene	U		0.153	0.500	1	11/15/2024 16:57	WG2402109
sec-Butylbenzene	U		0.101	0.500	1	11/15/2024 16:57	WG2402109
tert-Butylbenzene	U		0.0620	0.200	1	11/15/2024 16:57	WG2402109
Carbon disulfide	U		0.162	0.500	1	11/15/2024 16:57	WG2402109
Carbon tetrachloride	U		0.0432	0.200	1	11/15/2024 16:57	WG2402109
Chlorobenzene	U		0.0229	0.100	1	11/15/2024 16:57	WG2402109
Chlorodibromomethane	U		0.0180	0.100	1	11/15/2024 16:57	WG2402109
Chloroethane	U		0.0432	0.200	1	11/15/2024 16:57	WG2402109
Chloroform	U		0.0166	0.100	1	11/15/2024 16:57	WG2402109
Chloromethane	U		0.0556	0.500	1	11/15/2024 16:57	WG2402109
2-Chlorotoluene	U		0.0368	0.100	1	11/15/2024 16:57	WG2402109
4-Chlorotoluene	U		0.0452	0.200	1	11/15/2024 16:57	WG2402109

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/15/2024 16:57	WG2402109
1,2-Dibromoethane	U		0.0210	0.100	1	11/15/2024 16:57	WG2402109
Dibromomethane	U		0.0400	0.200	1	11/15/2024 16:57	WG2402109
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/15/2024 16:57	WG2402109
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/15/2024 16:57	WG2402109
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/15/2024 16:57	WG2402109
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/15/2024 16:57	WG2402109
Dichlorodifluoromethane	U		0.0327	0.200	1	11/15/2024 16:57	WG2402109
1,1-Dichloroethane	U		0.0230	0.100	1	11/15/2024 16:57	WG2402109
1,2-Dichloroethane	U		0.0190	0.100	1	11/15/2024 16:57	WG2402109
1,1-Dichloroethene	U		0.0200	0.100	1	11/15/2024 16:57	WG2402109
cis-1,2-Dichloroethene	11.9		0.0276	0.100	1	11/15/2024 16:57	WG2402109
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/15/2024 16:57	WG2402109
1,2-Dichloropropane	U		0.0508	0.200	1	11/15/2024 16:57	WG2402109
1,1-Dichloropropene	U		0.0280	0.100	1	11/15/2024 16:57	WG2402109
1,3-Dichloropropane	U		0.0700	0.200	1	11/15/2024 16:57	WG2402109
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/15/2024 16:57	WG2402109
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/15/2024 16:57	WG2402109
2,2-Dichloropropane	U		0.0317	0.100	1	11/15/2024 16:57	WG2402109
Di-isopropyl ether	U		0.0140	0.0400	1	11/15/2024 16:57	WG2402109
Ethylbenzene	U		0.0212	0.100	1	11/15/2024 16:57	WG2402109
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/15/2024 16:57	WG2402109
2-Hexanone	U		0.400	1.00	1	11/15/2024 16:57	WG2402109
n-Hexane	U		0.0424	0.200	1	11/15/2024 16:57	WG2402109
Iodomethane	U		0.242	0.500	1	11/15/2024 16:57	WG2402109
Isopropylbenzene	U		0.0345	0.100	1	11/15/2024 16:57	WG2402109
p-Isopropyltoluene	U		0.0932	0.200	1	11/15/2024 16:57	WG2402109
2-Butanone (MEK)	U		0.500	1.00	1	11/15/2024 16:57	WG2402109
Methylene Chloride	U		0.265	1.00	1	11/15/2024 16:57	WG2402109
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/15/2024 16:57	WG2402109
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/15/2024 16:57	WG2402109
Naphthalene	U		0.124	0.500	1	11/15/2024 16:57	WG2402109
n-Propylbenzene	U		0.0472	0.200	1	11/15/2024 16:57	WG2402109
Styrene	U		0.109	0.500	1	11/15/2024 16:57	WG2402109
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/15/2024 16:57	WG2402109
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/15/2024 16:57	WG2402109
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/15/2024 16:57	WG2402109
Tetrachloroethene	70.3		0.0280	0.100	1	11/15/2024 16:57	WG2402109
Toluene	U		0.0500	0.200	1	11/15/2024 16:57	WG2402109
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/15/2024 16:57	WG2402109
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/15/2024 16:57	WG2402109
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/15/2024 16:57	WG2402109
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/15/2024 16:57	WG2402109
Trichloroethene	8.78		0.0160	0.0400	1	11/15/2024 16:57	WG2402109
Trichlorofluoromethane	U		0.0200	0.100	1	11/15/2024 16:57	WG2402109
1,2,3-Trichloropropane	U		0.204	0.500	1	11/15/2024 16:57	WG2402109
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/15/2024 16:57	WG2402109
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/15/2024 16:57	WG2402109
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/15/2024 16:57	WG2402109
Vinyl acetate	U		0.141	0.500	1	11/15/2024 16:57	WG2402109
Vinyl chloride	U		0.0273	0.100	1	11/15/2024 16:57	WG2402109
Xylenes, Total	U		0.191	0.260	1	11/15/2024 16:57	WG2402109
(S) Toluene-d8	*98.6*			*75.0-131*		*11/15/2024 16:57*	WG2402109
(S) 4-Bromofluorobenzene	*92.7*			*67.0-138*		*11/15/2024 16:57*	WG2402109
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/15/2024 16:57*	WG2402109

Method Blank (MB)

(MB) R4144239-2 11/10/24 12:21

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1797560-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1797560-05 11/10/24 12:29 • (DUP) R4144239-3 11/10/24 12:32

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	43900	44600	1	1.71		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1797560-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1797560-08 11/10/24 14:39 • (DUP) R4144239-4 11/10/24 14:43

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	131000	129000	1	1.28		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4144239-1 11/10/24 12:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	102000	102	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4144052-2 11/09/24 10:27

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1797143-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1797143-01 11/09/24 10:41 • (DUP) R4144052-3 11/09/24 10:49

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	13500000	13200000	1	2.09		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

L1797560-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1797560-07 11/09/24 12:33 • (DUP) R4144052-4 11/09/24 12:38

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	391000	391000	1	0.0709		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4144052-1 11/09/24 10:20

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	105000	105	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4145146-1 11/08/24 14:09

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

L1797476-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1797476-01 11/09/24 02:33 • (DUP) R4145146-3 11/09/24 02:51

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	67200	66400	1	1.22		15
Nitrate as (N)	U	U	1	0.000		15
Sulfate	21600	21100	1	2.26		15

L1797376-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1797376-01 11/09/24 04:39 • (DUP) R4145146-5 11/09/24 04:57

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	41700	41700	1	0.0427		15
Nitrate as (N)	U	264	1	200	P1	15
Sulfate	44500	43500	1	2.25		15

Laboratory Control Sample (LCS)

(LCS) R4145146-2 11/08/24 14:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	37100	92.8	80.0-120	
Nitrate as (N)	8000	7390	92.3	80.0-120	
Sulfate	40000	39000	97.5	80.0-120	

L1797476-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1797476-01 11/09/24 02:33 • (MS) R4145146-4 11/09/24 03:09

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	67200	92600	63.5	1	80.0-120	J6
Nitrate as (N)	8000	U	7430	92.8	1	80.0-120	
Sulfate	40000	21600	57200	89.0	1	80.0-120	

L1797376-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797376-01 11/09/24 04:39 • (MS) R4145146-6 11/09/24 05:15 • (MSD) R4145146-7 11/09/24 05:33

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	41700	73000	73500	78.3	79.4	1	80.0-120	J6	J6	0.594	15
Nitrate as (N)	8000	U	8070	8090	101	101	1	80.0-120			0.177	15
Sulfate	40000	44500	75400	75400	77.2	77.2	1	80.0-120	J6	J6	0.0192	15

Method Blank (MB)

(MB) R4144782-2 11/11/24 12:04

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

L1797315-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1797315-02 11/11/24 17:43 • (DUP) R4144782-3 11/11/24 18:11

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	175000	180000	1	2.59	E	20

L1797397-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1797397-01 11/11/24 23:14 • (DUP) R4144782-6 11/11/24 23:32

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	2230	2020	1	9.98		20

Laboratory Control Sample (LCS)

(LCS) R4144782-1 11/11/24 11:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25000	23600	94.2	85.0-115	

L1797360-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797360-01 11/11/24 19:55 • (MS) R4144782-4 11/11/24 20:15 • (MSD) R4144782-5 11/11/24 20:36

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	1440	25400	25200	95.9	95.0	1	85.0-115			0.869	20

L1797459-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797459-08 11/12/24 00:52 • (MS) R4144782-7 11/12/24 01:13 • (MSD) R4144782-8 11/12/24 01:35

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	6960	31200	30900	97.1	95.6	1	85.0-115			1.22	20

Method Blank (MB)

(MB) R4144753-2 11/11/24 11:33

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

L1797476-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1797476-04 11/11/24 16:02 • (DUP) R4144753-5 11/11/24 16:15

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

L1797505-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1797505-06 11/11/24 19:23 • (DUP) R4144753-8 11/11/24 19:38

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	2310	2190	1	5.33		20

Laboratory Control Sample (LCS)

(LCS) R4144753-1 11/11/24 11:20

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25000	24300	97.1	85.0-115	

L1797476-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797476-03 11/11/24 15:16 • (MS) R4144753-3 11/11/24 15:34 • (MSD) R4144753-4 11/11/24 15:50

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 %
TOC (Total Organic Carbon)	25000	8390	33900	33800	102	102	1	85.0-115			0.384	20

L1797505-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797505-05 11/11/24 18:34 • (MS) R4144753-6 11/11/24 18:52 • (MSD) R4144753-7 11/11/24 19:09

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	987	25300	25200	97.4	97.0	1	85.0-115			0.395	20

Method Blank (MB)

(MB) R4147468-1 11/18/24 19:54

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

Laboratory Control Sample (LCS)

(LCS) R4147468-2 11/18/24 19:58

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	1000	994	99.4	80.0-120	
Manganese	50.0	49.8	99.7	80.0-120	

L1797624-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797624-12 11/18/24 20:01 • (MS) R4147468-4 11/18/24 20:08 • (MSD) R4147468-5 11/18/24 20:11

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	1000	U	956	960	95.6	96.0	1	75.0-125			0.433	20
Manganese	50.0	U	47.9	47.8	95.9	95.6	1	75.0-125			0.325	20

Method Blank (MB)

(MB) R4144922-2 11/12/24 09:31

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

L1797459-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1797459-10 11/12/24 09:45 • (DUP) R4144922-3 11/12/24 10:57

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

L1797480-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1797480-04 11/12/24 11:06 • (DUP) R4144922-4 11/12/24 12:08

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

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

(LCS) R4144922-1 11/12/24 09:23 • (LCSD) R4144922-7 11/12/24 12:54

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	66.3	64.2	97.8	94.7	85.0-115			3.22	20
Ethane	129	119	119	92.2	92.2	85.0-115			0.000	20
Ethene	127	119	119	93.7	93.7	85.0-115			0.000	20

L1797525-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797525-03 11/12/24 11:42 • (MS) R4144922-5 11/12/24 12:42 • (MSD) R4144922-6 11/12/24 12:49

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methane	67.8	79.2	197	180	174	149	1	85.0-115	J5	J5	9.02	20
Ethane	129	U	157	146	122	113	1	85.0-115	J5		7.26	20
Ethene	127	U	155	144	122	113	1	85.0-115	J5		7.36	20

Method Blank (MB)

(MB) R4145005-2 11/12/24 14:17

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

L1797022-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1797022-05 11/12/24 14:32 • (DUP) R4145005-3 11/12/24 15:07

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	11900	11800	10	0.844		20

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

(LCS) R4145005-1 11/12/24 14:11 • (LCSD) R4145005-4 11/12/24 15:12

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	64.4	62.1	95.0	91.6	85.0-115			3.64	20

Method Blank (MB)

(MB) R4148466-3 11/15/24 09:53

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

Method Blank (MB)

(MB) R4148466-3 11/15/24 09:53

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	*98.4*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*

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

(LCS) R4148466-1 11/15/24 08:17 • (LCSD) R4148466-2 11/15/24 08:36

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	51.8	51.2	207	205	10.0-160	J4	J4	1.17	31
Acrylonitrile	25.0	34.1	35.4	136	142	45.0-153			3.74	22
Benzene	5.00	4.78	4.72	95.6	94.4	70.0-123			1.26	20
Bromobenzene	5.00	5.31	5.07	106	101	73.0-121			4.62	20
Bromochloromethane	5.00	5.47	5.64	109	113	77.0-128			3.06	20
Bromodichloromethane	5.00	5.04	5.19	101	104	73.0-121			2.93	20
Bromoform	5.00	4.50	4.44	90.0	88.8	64.0-132			1.34	20
Bromomethane	5.00	6.16	6.42	123	128	56.0-147			4.13	20
n-Butylbenzene	5.00	4.91	4.99	98.2	99.8	68.0-135			1.62	20
sec-Butylbenzene	5.00	4.99	4.87	99.8	97.4	74.0-130			2.43	20
tert-Butylbenzene	5.00	5.03	4.88	101	97.6	75.0-127			3.03	20
Carbon disulfide	5.00	4.60	4.78	92.0	95.6	56.0-133			3.84	20
Carbon tetrachloride	5.00	5.41	5.55	108	111	66.0-128			2.55	20
Chlorobenzene	5.00	4.77	4.67	95.4	93.4	76.0-128			2.12	20
Chlorodibromomethane	5.00	4.72	4.66	94.4	93.2	74.0-127			1.28	20
Chloroethane	5.00	5.84	6.01	117	120	61.0-134			2.87	20
Chloroform	5.00	4.89	4.96	97.8	99.2	72.0-123			1.42	20
Chloromethane	5.00	6.36	6.56	127	131	51.0-138			3.10	20
2-Chlorotoluene	5.00	5.26	5.13	105	103	75.0-124			2.50	20
4-Chlorotoluene	5.00	5.20	5.01	104	100	75.0-124			3.72	20
1,2-Dibromo-3-Chloropropane	5.00	4.66	4.81	93.2	96.2	59.0-130			3.17	20
1,2-Dibromoethane	5.00	4.89	4.81	97.8	96.2	74.0-128			1.65	20
Dibromomethane	5.00	5.25	5.18	105	104	75.0-122			1.34	20
1,2-Dichlorobenzene	5.00	5.19	5.17	104	103	76.0-124			0.386	20
1,3-Dichlorobenzene	5.00	5.10	4.95	102	99.0	76.0-125			2.99	20
1,4-Dichlorobenzene	5.00	5.25	5.06	105	101	77.0-121			3.69	20
trans-1,4-Dichloro-2-butene	5.00	3.42	3.79	68.4	75.8	45.0-143			10.3	20
Dichlorodifluoromethane	5.00	5.51	5.82	110	116	43.0-156			5.47	20
1,1-Dichloroethane	5.00	5.08	5.08	102	102	70.0-127			0.000	20
1,2-Dichloroethane	5.00	4.91	5.00	98.2	100	65.0-131			1.82	20
1,1-Dichloroethene	5.00	5.25	5.41	105	108	65.0-131			3.00	20
cis-1,2-Dichloroethene	5.00	5.11	5.14	102	103	73.0-125			0.585	20
trans-1,2-Dichloroethene	5.00	4.80	4.98	96.0	99.6	71.0-125			3.68	20
1,2-Dichloropropane	5.00	5.08	5.04	102	101	74.0-125			0.791	20
1,1-Dichloropropene	5.00	5.14	4.97	103	99.4	73.0-125			3.36	20
1,3-Dichloropropane	5.00	4.91	4.87	98.2	97.4	80.0-125			0.818	20
cis-1,3-Dichloropropene	5.00	5.00	4.97	100	99.4	76.0-127			0.602	20
trans-1,3-Dichloropropene	5.00	4.71	4.54	94.2	90.8	73.0-127			3.68	20
2,2-Dichloropropane	5.00	6.11	6.20	122	124	59.0-135			1.46	20
Di-isopropyl ether	5.00	4.93	5.02	98.6	100	60.0-136			1.81	20

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

(LCS) R4148466-1 11/15/24 08:17 • (LCSD) R4148466-2 11/15/24 08:36

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	4.85	4.85	97.0	97.0	74.0-126			0.000	20
Hexachloro-1,3-butadiene	5.00	4.54	4.88	90.8	97.6	57.0-150			7.22	20
2-Hexanone	25.0	24.3	22.6	97.2	90.4	54.0-147			7.25	20
n-Hexane	5.00	4.92	4.77	98.4	95.4	55.0-137			3.10	20
Iodomethane	25.0	25.9	26.9	104	108	74.0-134			3.79	20
Isopropylbenzene	5.00	4.91	4.65	98.2	93.0	72.0-127			5.44	20
p-Isopropyltoluene	5.00	5.15	5.06	103	101	72.0-133			1.76	20
2-Butanone (MEK)	25.0	28.5	28.8	114	115	30.0-160			1.05	24
Methylene Chloride	5.00	5.68	6.09	114	122	68.0-123			6.97	20
4-Methyl-2-pentanone (MIBK)	25.0	29.3	28.8	117	115	56.0-143			1.72	20
Methyl tert-butyl ether	5.00	5.74	5.86	115	117	66.0-132			2.07	20
Naphthalene	5.00	4.62	5.07	92.4	101	59.0-130			9.29	20
n-Propylbenzene	5.00	5.08	4.88	102	97.6	74.0-126			4.02	20
Styrene	5.00	4.94	5.02	98.8	100	72.0-127			1.61	20
1,1,1,2-Tetrachloroethane	5.00	4.92	5.03	98.4	101	74.0-129			2.21	20
1,1,2,2-Tetrachloroethane	5.00	5.38	5.28	108	106	68.0-128			1.88	20
1,1,2-Trichlorotrifluoroethane	5.00	5.11	5.38	102	108	61.0-139			5.15	20
Tetrachloroethene	5.00	5.06	4.97	101	99.4	70.0-136			1.79	20
Toluene	5.00	4.72	4.66	94.4	93.2	75.0-121			1.28	20
1,2,3-Trichlorobenzene	5.00	4.72	5.38	94.4	108	59.0-139			13.1	20
1,2,4-Trichlorobenzene	5.00	4.85	5.09	97.0	102	62.0-137			4.83	20
1,1,1-Trichloroethane	5.00	5.46	5.57	109	111	69.0-126			1.99	20
1,1,2-Trichloroethane	5.00	5.10	5.13	102	103	78.0-123			0.587	20
Trichloroethene	5.00	4.98	4.87	99.6	97.4	76.0-126			2.23	20
Trichlorofluoromethane	5.00	5.82	6.02	116	120	61.0-142	J	J	3.38	20
1,2,3-Trichloropropane	5.00	5.91	5.76	118	115	67.0-129			2.57	20
1,2,4-Trimethylbenzene	5.00	5.16	5.00	103	100	70.0-126			3.15	20
1,2,3-Trimethylbenzene	5.00	4.99	4.89	99.8	97.8	74.0-124			2.02	20
1,3,5-Trimethylbenzene	5.00	5.04	4.78	101	95.6	73.0-127			5.30	20
Vinyl acetate	25.0	25.7	25.0	103	100	43.0-159			2.76	20
Vinyl chloride	5.00	5.63	5.90	113	118	63.0-134			4.68	20
Xylenes, Total	15.0	14.0	14.1	93.3	94.0	72.0-127			0.712	20
(S) Toluene-d8				*96.3*	*95.9*	*75.0-131*				
(S) 4-Bromofluorobenzene				*95.3*	*99.6*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*109*	*110*	*70.0-130*				

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

Method Blank (MB)

(MB) R4150457-2 11/23/24 11:35

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*92.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*91.4*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4150457-1 11/23/24 10:38

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Vinyl chloride	5.00	5.01	100	63.0-134	
(S) Toluene-d8			*105*	*75.0-131*	
(S) 4-Bromofluorobenzene			*99.9*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*94.6*	*70.0-130*	

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
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

Report to: **Daniel Balbiani**

Email To: **Daniel.balbiani@nv5.com;sam.graber@nv5.com**

Project Description: **American Linen**

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project # **1413001.10.701.02**

Lab Project # **PESENVSWA-ALP**

Collected by (print): D. Del Gridice

Site/Facility ID #

P.O. # **443022-1413001.10.701**

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**Nitr,chl,sulf 9056 250mlHDPE-NoPres	ALK 2320B 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	FE,MN total 6020 250mlHDPE-HNO3	TOC 9060 250mlAmb-HCl	VOCS 8260ULL 40mlAmb-HCl					Remarks	Sample # (lab only)
							LL	L2	L2									
							AB 11/08/2024											
MW-147-110724	G	GW	—	11/7/24	1037	9	X	X	X	X	X	X						-01
MW-146-110724		GW			1222	9	X	X	X	X	X	X						-02
MW-994-110724		GW			1111	9	X	X	X	X	X	X						-03
EQ-110724		GW			1407	9	X	X	X	X	X	X						-04
TB-110724		GW			—	1											HOLD	-05
MW-153-110724		GW			1323	3						X						-06
MW-995-110724		GW			1222	3						X						-07
MW-154-110724	↓	GW	↓	↓	1452	9	X	X	X	X	X	X						-08
		GW																
		GW																

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

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

SDG # L1794770
C197

Acctnum: **PESENVSWA**
Template: **T262759**
Prelogin: **P1110133**
PM: **3768 - Jordan Dozier**
PB: LU 10/23/24
Shipped Via: **FedEX Ground**

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

Remarks:

pH _____ Temp _____

Flow Other

PH – 10BDH0941
TRC – 3327A333

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 4212 6472 7538

Sample Receipt Checklist

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

	Date:	Time:		
Relinquished by : (Signature)	11/7/24	1521	Received by: (Signature)	Trip Blank Received: Yes / No (HCL / MeoH) TBR: 1
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: TUN 1.8+0=1.8 5
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/08/2024 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

ANALYTICAL REPORT

November 25, 2024

PES Environmental, Inc.- WA

Sample Delivery Group:	L1797923
Samples Received:	11/09/2024
Project Number:	1413001.10.701.02
Description:	American Linen

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

Entire Report Reviewed By:

J Dozier

Jordan Dozier
Project Manager

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

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW111-110824 L1797923-01 GW

Collected by | Collected date/time 11/08/24 07:35 | Received date/time 11/09/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402769	1	11/18/24 13:21	11/18/24 13:21	JAH	Mt. Juliet, TN

MW-312-110824 L1797923-02 GW

Collected by | Collected date/time 11/08/24 08:20 | Received date/time 11/09/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402769	1	11/18/24 13:41	11/18/24 13:41	JAH	Mt. Juliet, TN

MW-109-110824 L1797923-03 GW

Collected by | Collected date/time 11/08/24 08:55 | Received date/time 11/09/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398785	1	11/10/24 13:54	11/10/24 13:54	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2398742	1	11/10/24 01:35	11/10/24 01:35	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2400657	1	11/15/24 11:55	11/15/24 11:55	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2401720	1	11/18/24 01:25	11/19/24 04:02	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2399938	1	11/13/24 13:27	11/13/24 13:27	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402769	1	11/18/24 14:00	11/18/24 14:00	JAH	Mt. Juliet, TN

MW160-110824 L1797923-04 GW

Collected by | Collected date/time 11/08/24 10:22 | Received date/time 11/09/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402769	1	11/18/24 14:20	11/18/24 14:20	JAH	Mt. Juliet, TN

MW-107-110824 L1797923-05 GW

Collected by | Collected date/time 11/08/24 11:30 | Received date/time 11/09/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398785	1	11/10/24 14:21	11/10/24 14:21	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2398742	1	11/10/24 02:29	11/10/24 02:29	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2400657	1	11/15/24 12:55	11/15/24 12:55	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2401720	1	11/18/24 01:25	11/19/24 04:05	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2399940	1	11/13/24 09:52	11/13/24 09:52	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2401030	10	11/13/24 20:25	11/13/24 20:25	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402769	1	11/18/24 14:40	11/18/24 14:40	JAH	Mt. Juliet, TN

MW104-110824 L1797923-06 GW

Collected by | Collected date/time 11/08/24 12:51 | Received date/time 11/09/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402769	1	11/18/24 14:59	11/18/24 14:59	JAH	Mt. Juliet, TN

MW35I-110824 L1797923-07 GW

Collected by | Collected date/time 11/08/24 10:15 | Received date/time 11/09/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402769	1	11/18/24 15:19	11/18/24 15:19	JAH	Mt. Juliet, TN

MW119-110824 L1797923-08 GW

			Collected by	Collected date/time	Received date/time	
				11/08/24 11:07	11/09/24 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402769	1	11/18/24 15:39	11/18/24 15:39	JAH	Mt. Juliet, TN

MW161-110824 L1797923-09 GW

			Collected by	Collected date/time	Received date/time	
				11/08/24 13:46	11/09/24 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402769	1	11/18/24 15:59	11/18/24 15:59	JAH	Mt. Juliet, TN

MW996-110824 L1797923-10 GW

			Collected by	Collected date/time	Received date/time	
				11/08/24 13:33	11/09/24 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402769	1	11/18/24 16:18	11/18/24 16:18	JAH	Mt. Juliet, TN

MW307-110824 L1797923-11 GW

			Collected by	Collected date/time	Received date/time	
				11/08/24 12:10	11/09/24 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402769	1	11/18/24 16:38	11/18/24 16:38	JAH	Mt. Juliet, TN

MW306-110824 L1797923-12 GW

			Collected by	Collected date/time	Received date/time	
				11/08/24 13:51	11/09/24 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402769	1	11/18/24 16:58	11/18/24 16:58	JAH	Mt. Juliet, TN

MW-145R-110824 L1797923-13 GW

			Collected by	Collected date/time	Received date/time	
				11/08/24 10:00	11/09/24 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398699	1	11/10/24 10:20	11/10/24 10:20	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2398742	1	11/10/24 03:09	11/10/24 03:09	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2400657	1	11/15/24 13:34	11/15/24 13:34	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2401720	1	11/18/24 01:25	11/19/24 04:09	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2399940	1	11/13/24 10:02	11/13/24 10:02	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402769	1	11/18/24 17:17	11/18/24 17:17	JAH	Mt. Juliet, TN

R-MW6-110824 L1797923-14 GW

			Collected by	Collected date/time	Received date/time	
				11/08/24 12:15	11/09/24 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398785	1	11/10/24 14:27	11/10/24 14:27	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2398742	1	11/10/24 03:23	11/10/24 03:23	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2400657	1	11/15/24 13:54	11/15/24 13:54	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2401720	5	11/18/24 01:25	11/19/24 04:18	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2399940	1	11/13/24 10:53	11/13/24 10:53	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402769	1	11/18/24 17:37	11/18/24 17:37	JAH	Mt. Juliet, TN

W-MW-01-110824 L1797923-15 GW

Collected by	Collected date/time	Received date/time
	11/08/24 14:15	11/09/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2398785	1	11/10/24 14:31	11/10/24 14:31	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2398742	1	11/10/24 03:36	11/10/24 03:36	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2400657	1	11/15/24 14:14	11/15/24 14:14	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2401720	1	11/18/24 01:25	11/19/24 04:21	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2399940	1	11/13/24 10:58	11/13/24 10:58	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2401030	10	11/13/24 21:54	11/13/24 21:54	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402769	1	11/18/24 17:57	11/18/24 17:57	JAH	Mt. Juliet, TN

TB-110824 L1797923-16 GW

Collected by	Collected date/time	Received date/time
	11/08/24 00:00	11/09/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2402769	1	11/18/24 11:13	11/18/24 11:13	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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 13:21	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 13:21	WG2402769
Benzene	0.0180	J	0.0160	0.0400	1	11/18/2024 13:21	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 13:21	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 13:21	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 13:21	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 13:21	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 13:21	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 13:21	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 13:21	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 13:21	WG2402769
Carbon disulfide	0.309	B J	0.162	0.500	1	11/18/2024 13:21	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 13:21	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 13:21	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 13:21	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 13:21	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 13:21	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 13:21	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 13:21	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 13:21	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 13:21	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 13:21	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 13:21	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 13:21	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 13:21	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 13:21	WG2402769
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/18/2024 13:21	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 13:21	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 13:21	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 13:21	WG2402769
1,1-Dichloroethene	0.0200	J	0.0200	0.100	1	11/18/2024 13:21	WG2402769
cis-1,2-Dichloroethene	3.35		0.0276	0.100	1	11/18/2024 13:21	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 13:21	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 13:21	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 13:21	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 13:21	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 13:21	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 13:21	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 13:21	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 13:21	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 13:21	WG2402769
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/18/2024 13:21	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 13:21	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 13:21	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 13:21	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 13:21	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 13:21	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 13:21	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 13:21	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 13:21	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 13:21	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 13:21	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 13:21	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 13:21	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 13:21	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 13:21	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 13:21	WG2402769
Tetrachloroethene	0.0590	J	0.0280	0.100	1	11/18/2024 13:21	WG2402769
Toluene	U		0.0500	0.200	1	11/18/2024 13:21	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 13:21	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 13:21	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 13:21	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 13:21	WG2402769
Trichloroethene	0.0460		0.0160	0.0400	1	11/18/2024 13:21	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 13:21	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 13:21	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 13:21	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 13:21	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 13:21	WG2402769
Vinyl acetate	U	C3	0.141	0.500	1	11/18/2024 13:21	WG2402769
Vinyl chloride	20.8		0.0273	0.100	1	11/18/2024 13:21	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 13:21	WG2402769
(S) Toluene-d8	*99.6*			*75.0-131*		*11/18/2024 13:21*	WG2402769
(S) 4-Bromofluorobenzene	*88.1*			*67.0-138*		*11/18/2024 13:21*	WG2402769
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/18/2024 13:21*	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 13:41	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 13:41	WG2402769
Benzene	U		0.0160	0.0400	1	11/18/2024 13:41	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 13:41	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 13:41	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 13:41	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 13:41	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 13:41	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 13:41	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 13:41	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 13:41	WG2402769
Carbon disulfide	U		0.162	0.500	1	11/18/2024 13:41	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 13:41	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 13:41	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 13:41	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 13:41	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 13:41	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 13:41	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 13:41	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 13:41	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 13:41	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 13:41	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 13:41	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 13:41	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 13:41	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 13:41	WG2402769
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/18/2024 13:41	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 13:41	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 13:41	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 13:41	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 13:41	WG2402769
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/18/2024 13:41	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 13:41	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 13:41	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 13:41	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 13:41	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 13:41	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 13:41	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 13:41	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 13:41	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 13:41	WG2402769
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/18/2024 13:41	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 13:41	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 13:41	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 13:41	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 13:41	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 13:41	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 13:41	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 13:41	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 13:41	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 13:41	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 13:41	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 13:41	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 13:41	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 13:41	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 13:41	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 13:41	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 13:41	WG2402769
Toluene	U		0.0500	0.200	1	11/18/2024 13:41	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 13:41	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 13:41	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 13:41	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 13:41	WG2402769
Trichloroethene	U		0.0160	0.0400	1	11/18/2024 13:41	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 13:41	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 13:41	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 13:41	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 13:41	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 13:41	WG2402769
Vinyl acetate	U	C3	0.141	0.500	1	11/18/2024 13:41	WG2402769
Vinyl chloride	U		0.0273	0.100	1	11/18/2024 13:41	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 13:41	WG2402769
(S) Toluene-d8	*100*			*75.0-131*		*11/18/2024 13:41*	WG2402769
(S) 4-Bromofluorobenzene	*91.6*			*67.0-138*		*11/18/2024 13:41*	WG2402769
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/18/2024 13:41*	WG2402769

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	427000		4750	20000	1	11/10/2024 13:54	WG2398785

Sample Narrative:

L1797923-03 WG2398785: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	4170		547	1000	1	11/10/2024 01:35	WG2398742
Nitrate as (N)	U		88.4	100	1	11/10/2024 01:35	WG2398742
Sulfate	U		637	5000	1	11/10/2024 01:35	WG2398742

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4680		495	1000	1	11/15/2024 11:55	WG2400657

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	9970		22.6	100	1	11/19/2024 04:02	WG2401720
Manganese	3010		0.700	5.00	1	11/19/2024 04:02	WG2401720

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	3190		0.287	0.678	1	11/13/2024 13:27	WG2399938
Ethane	5.17		0.296	1.29	1	11/13/2024 13:27	WG2399938
Ethene	U		0.422	1.27	1	11/13/2024 13:27	WG2399938

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/18/2024 14:00	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 14:00	WG2402769
Benzene	0.0250	J	0.0160	0.0400	1	11/18/2024 14:00	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 14:00	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 14:00	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 14:00	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 14:00	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 14:00	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 14:00	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 14:00	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 14:00	WG2402769
Carbon disulfide	U		0.162	0.500	1	11/18/2024 14:00	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 14:00	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 14:00	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 14:00	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 14:00	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 14:00	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 14:00	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 14:00	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 14:00	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 14:00	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 14:00	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 14:00	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 14:00	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 14:00	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 14:00	WG2402769
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/18/2024 14:00	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 14:00	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 14:00	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 14:00	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 14:00	WG2402769
cis-1,2-Dichloroethene	1.41		0.0276	0.100	1	11/18/2024 14:00	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 14:00	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 14:00	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 14:00	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 14:00	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 14:00	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 14:00	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 14:00	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 14:00	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 14:00	WG2402769
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/18/2024 14:00	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 14:00	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 14:00	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 14:00	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 14:00	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 14:00	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 14:00	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 14:00	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 14:00	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 14:00	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 14:00	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 14:00	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 14:00	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 14:00	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 14:00	WG2402769
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 14:00	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 14:00	WG2402769
Toluene	U		0.0500	0.200	1	11/18/2024 14:00	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 14:00	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 14:00	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 14:00	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 14:00	WG2402769
Trichloroethene	U		0.0160	0.0400	1	11/18/2024 14:00	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 14:00	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 14:00	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 14:00	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 14:00	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 14:00	WG2402769
Vinyl acetate	U	C3	0.141	0.500	1	11/18/2024 14:00	WG2402769
Vinyl chloride	1.83		0.0273	0.100	1	11/18/2024 14:00	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 14:00	WG2402769
(S) Toluene-d8	*98.8*			*75.0-131*		*11/18/2024 14:00*	WG2402769
(S) 4-Bromofluorobenzene	*87.3*			*67.0-138*		*11/18/2024 14:00*	WG2402769
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/18/2024 14:00*	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 14:20	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 14:20	WG2402769
Benzene	0.0170	J	0.0160	0.0400	1	11/18/2024 14:20	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 14:20	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 14:20	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 14:20	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 14:20	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 14:20	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 14:20	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 14:20	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 14:20	WG2402769
Carbon disulfide	0.197	B J	0.162	0.500	1	11/18/2024 14:20	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 14:20	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 14:20	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 14:20	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 14:20	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 14:20	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 14:20	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 14:20	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 14:20	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 14:20	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 14:20	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 14:20	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 14:20	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 14:20	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 14:20	WG2402769
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/18/2024 14:20	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 14:20	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 14:20	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 14:20	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 14:20	WG2402769
cis-1,2-Dichloroethene	0.202		0.0276	0.100	1	11/18/2024 14:20	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 14:20	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 14:20	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 14:20	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 14:20	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 14:20	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 14:20	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 14:20	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 14:20	WG2402769
Ethylbenzene	0.290		0.0212	0.100	1	11/18/2024 14:20	WG2402769
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/18/2024 14:20	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 14:20	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 14:20	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 14:20	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 14:20	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 14:20	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 14:20	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 14:20	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 14:20	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 14:20	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 14:20	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 14:20	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 14:20	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 14:20	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 14:20	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 14:20	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 14:20	WG2402769
Toluene	0.693		0.0500	0.200	1	11/18/2024 14:20	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 14:20	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 14:20	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 14:20	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 14:20	WG2402769
Trichloroethene	0.0850		0.0160	0.0400	1	11/18/2024 14:20	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 14:20	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 14:20	WG2402769
1,2,4-Trimethylbenzene	0.156	J	0.0464	0.200	1	11/18/2024 14:20	WG2402769
1,2,3-Trimethylbenzene	0.0500	J	0.0460	0.200	1	11/18/2024 14:20	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 14:20	WG2402769
Vinyl acetate	U	C3	0.141	0.500	1	11/18/2024 14:20	WG2402769
Vinyl chloride	U		0.0273	0.100	1	11/18/2024 14:20	WG2402769
Xylenes, Total	1.58		0.191	0.260	1	11/18/2024 14:20	WG2402769
(S) Toluene-d8	*101*			*75.0-131*		*11/18/2024 14:20*	WG2402769
(S) 4-Bromofluorobenzene	*85.7*			*67.0-138*		*11/18/2024 14:20*	WG2402769
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/18/2024 14:20*	WG2402769

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	393000		4750	20000	1	11/10/2024 14:21	WG2398785

Sample Narrative:
L1797923-05 WG2398785: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	26900		547	1000	1	11/10/2024 02:29	WG2398742
Nitrate as (N)	U		88.4	100	1	11/10/2024 02:29	WG2398742
Sulfate	U		637	5000	1	11/10/2024 02:29	WG2398742

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6810		495	1000	1	11/15/2024 12:55	WG2400657

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	6670		22.6	100	1	11/19/2024 04:05	WG2401720
Manganese	819		0.700	5.00	1	11/19/2024 04:05	WG2401720

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	21000		2.87	6.78	10	11/13/2024 20:25	WG2401030
Ethane	216		0.296	1.29	1	11/13/2024 09:52	WG2399940
Ethene	U		0.422	1.27	1	11/13/2024 09:52	WG2399940

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	244		0.548	1.00	1	11/18/2024 14:40	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 14:40	WG2402769
Benzene	0.0730		0.0160	0.0400	1	11/18/2024 14:40	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 14:40	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 14:40	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 14:40	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 14:40	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 14:40	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 14:40	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 14:40	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 14:40	WG2402769
Carbon disulfide	0.190	B J	0.162	0.500	1	11/18/2024 14:40	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 14:40	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 14:40	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 14:40	WG2402769
Chloroethane	0.272		0.0432	0.200	1	11/18/2024 14:40	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 14:40	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 14:40	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 14:40	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 14:40	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 14:40	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 14:40	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 14:40	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 14:40	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 14:40	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 14:40	WG2402769
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/18/2024 14:40	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 14:40	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 14:40	WG2402769
1,2-Dichloroethane	0.139		0.0190	0.100	1	11/18/2024 14:40	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 14:40	WG2402769
cis-1,2-Dichloroethene	5.99		0.0276	0.100	1	11/18/2024 14:40	WG2402769
trans-1,2-Dichloroethene	1.61		0.0572	0.200	1	11/18/2024 14:40	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 14:40	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 14:40	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 14:40	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 14:40	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 14:40	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 14:40	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 14:40	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 14:40	WG2402769
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/18/2024 14:40	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 14:40	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 14:40	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 14:40	WG2402769
Isopropylbenzene	0.0410	J	0.0345	0.100	1	11/18/2024 14:40	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 14:40	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 14:40	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 14:40	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 14:40	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 14:40	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 14:40	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 14:40	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 14:40	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 14:40	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 14:40	WG2402769
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 14:40	WG2402769
Tetrachloroethene	0.198		0.0280	0.100	1	11/18/2024 14:40	WG2402769
Toluene	0.100	J	0.0500	0.200	1	11/18/2024 14:40	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 14:40	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 14:40	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 14:40	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 14:40	WG2402769
Trichloroethene	0.674		0.0160	0.0400	1	11/18/2024 14:40	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 14:40	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 14:40	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 14:40	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 14:40	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 14:40	WG2402769
Vinyl acetate	U	C3	0.141	0.500	1	11/18/2024 14:40	WG2402769
Vinyl chloride	1.13		0.0273	0.100	1	11/18/2024 14:40	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 14:40	WG2402769
(S) Toluene-d8	*101*			*75.0-131*		*11/18/2024 14:40*	WG2402769
(S) 4-Bromofluorobenzene	*88.6*			*67.0-138*		*11/18/2024 14:40*	WG2402769
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/18/2024 14:40*	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 14:59	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 14:59	WG2402769
Benzene	0.0910		0.0160	0.0400	1	11/18/2024 14:59	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 14:59	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 14:59	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 14:59	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 14:59	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 14:59	WG2402769
n-Butylbenzene	0.384	J	0.153	0.500	1	11/18/2024 14:59	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 14:59	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 14:59	WG2402769
Carbon disulfide	0.429	B J	0.162	0.500	1	11/18/2024 14:59	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 14:59	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 14:59	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 14:59	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 14:59	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 14:59	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 14:59	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 14:59	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 14:59	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 14:59	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 14:59	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 14:59	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 14:59	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 14:59	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 14:59	WG2402769
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/18/2024 14:59	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 14:59	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 14:59	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 14:59	WG2402769
1,1-Dichloroethene	0.176		0.0200	0.100	1	11/18/2024 14:59	WG2402769
cis-1,2-Dichloroethene	13.0		0.0276	0.100	1	11/18/2024 14:59	WG2402769
trans-1,2-Dichloroethene	0.331		0.0572	0.200	1	11/18/2024 14:59	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 14:59	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 14:59	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 14:59	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 14:59	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 14:59	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 14:59	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 14:59	WG2402769
Ethylbenzene	0.177		0.0212	0.100	1	11/18/2024 14:59	WG2402769
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/18/2024 14:59	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 14:59	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 14:59	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 14:59	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 14:59	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 14:59	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 14:59	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 14:59	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 14:59	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 14:59	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 14:59	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 14:59	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 14:59	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 14:59	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 14:59	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 14:59	WG2402769
Tetrachloroethene	0.0430	J	0.0280	0.100	1	11/18/2024 14:59	WG2402769
Toluene	1.20		0.0500	0.200	1	11/18/2024 14:59	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 14:59	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 14:59	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 14:59	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 14:59	WG2402769
Trichloroethene	0.281		0.0160	0.0400	1	11/18/2024 14:59	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 14:59	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 14:59	WG2402769
1,2,4-Trimethylbenzene	0.0970	J	0.0464	0.200	1	11/18/2024 14:59	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 14:59	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 14:59	WG2402769
Vinyl acetate	U	C3	0.141	0.500	1	11/18/2024 14:59	WG2402769
Vinyl chloride	17.6		0.0273	0.100	1	11/18/2024 14:59	WG2402769
Xylenes, Total	0.961		0.191	0.260	1	11/18/2024 14:59	WG2402769
(S) Toluene-d8	*98.9*			*75.0-131*		*11/18/2024 14:59*	WG2402769
(S) 4-Bromofluorobenzene	*94.3*			*67.0-138*		*11/18/2024 14:59*	WG2402769
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/18/2024 14:59*	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 15:19	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 15:19	WG2402769
Benzene	0.0840		0.0160	0.0400	1	11/18/2024 15:19	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 15:19	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 15:19	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 15:19	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 15:19	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 15:19	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 15:19	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 15:19	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 15:19	WG2402769
Carbon disulfide	U		0.162	0.500	1	11/18/2024 15:19	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 15:19	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 15:19	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 15:19	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 15:19	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 15:19	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 15:19	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 15:19	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 15:19	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 15:19	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 15:19	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 15:19	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 15:19	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 15:19	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 15:19	WG2402769
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/18/2024 15:19	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 15:19	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 15:19	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 15:19	WG2402769
1,1-Dichloroethene	0.0350	J	0.0200	0.100	1	11/18/2024 15:19	WG2402769
cis-1,2-Dichloroethene	21.4		0.0276	0.100	1	11/18/2024 15:19	WG2402769
trans-1,2-Dichloroethene	0.121	J	0.0572	0.200	1	11/18/2024 15:19	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 15:19	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 15:19	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 15:19	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 15:19	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 15:19	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 15:19	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 15:19	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 15:19	WG2402769
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/18/2024 15:19	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 15:19	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 15:19	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 15:19	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 15:19	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 15:19	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 15:19	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 15:19	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 15:19	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 15:19	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 15:19	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 15:19	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 15:19	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 15:19	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 15:19	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 15:19	WG2402769
Tetrachloroethene	0.0440	J	0.0280	0.100	1	11/18/2024 15:19	WG2402769
Toluene	U		0.0500	0.200	1	11/18/2024 15:19	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 15:19	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 15:19	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 15:19	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 15:19	WG2402769
Trichloroethene	1.18		0.0160	0.0400	1	11/18/2024 15:19	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 15:19	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 15:19	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 15:19	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 15:19	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 15:19	WG2402769
Vinyl acetate	U	C3	0.141	0.500	1	11/18/2024 15:19	WG2402769
Vinyl chloride	0.386		0.0273	0.100	1	11/18/2024 15:19	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 15:19	WG2402769
(S) Toluene-d8	*102*			*75.0-131*		*11/18/2024 15:19*	WG2402769
(S) 4-Bromofluorobenzene	*86.0*			*67.0-138*		*11/18/2024 15:19*	WG2402769
(S) 1,2-Dichloroethane-d4	*98.7*			*70.0-130*		*11/18/2024 15:19*	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 15:39	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 15:39	WG2402769
Benzene	0.0270	J	0.0160	0.0400	1	11/18/2024 15:39	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 15:39	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 15:39	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 15:39	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 15:39	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 15:39	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 15:39	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 15:39	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 15:39	WG2402769
Carbon disulfide	U		0.162	0.500	1	11/18/2024 15:39	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 15:39	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 15:39	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 15:39	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 15:39	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 15:39	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 15:39	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 15:39	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 15:39	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 15:39	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 15:39	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 15:39	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 15:39	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 15:39	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 15:39	WG2402769
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/18/2024 15:39	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 15:39	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 15:39	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 15:39	WG2402769
1,1-Dichloroethene	0.0220	J	0.0200	0.100	1	11/18/2024 15:39	WG2402769
cis-1,2-Dichloroethene	5.14		0.0276	0.100	1	11/18/2024 15:39	WG2402769
trans-1,2-Dichloroethene	0.0630	J	0.0572	0.200	1	11/18/2024 15:39	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 15:39	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 15:39	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 15:39	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 15:39	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 15:39	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 15:39	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 15:39	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 15:39	WG2402769
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/18/2024 15:39	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 15:39	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 15:39	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 15:39	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 15:39	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 15:39	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 15:39	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 15:39	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 15:39	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 15:39	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 15:39	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 15:39	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 15:39	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 15:39	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 15:39	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 15:39	WG2402769
Tetrachloroethene	0.255		0.0280	0.100	1	11/18/2024 15:39	WG2402769
Toluene	U		0.0500	0.200	1	11/18/2024 15:39	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 15:39	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 15:39	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 15:39	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 15:39	WG2402769
Trichloroethene	1.03		0.0160	0.0400	1	11/18/2024 15:39	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 15:39	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 15:39	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 15:39	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 15:39	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 15:39	WG2402769
Vinyl acetate	U	C3	0.141	0.500	1	11/18/2024 15:39	WG2402769
Vinyl chloride	0.0400	J	0.0273	0.100	1	11/18/2024 15:39	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 15:39	WG2402769
(S) Toluene-d8	*102*			*75.0-131*		*11/18/2024 15:39*	WG2402769
(S) 4-Bromofluorobenzene	*89.3*			*67.0-138*		*11/18/2024 15:39*	WG2402769
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*11/18/2024 15:39*	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 15:59	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 15:59	WG2402769
Benzene	U		0.0160	0.0400	1	11/18/2024 15:59	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 15:59	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 15:59	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 15:59	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 15:59	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 15:59	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 15:59	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 15:59	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 15:59	WG2402769
Carbon disulfide	0.239	B J	0.162	0.500	1	11/18/2024 15:59	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 15:59	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 15:59	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 15:59	WG2402769
Chloroethane	0.195	J	0.0432	0.200	1	11/18/2024 15:59	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 15:59	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 15:59	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 15:59	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 15:59	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 15:59	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 15:59	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 15:59	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 15:59	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 15:59	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 15:59	WG2402769
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/18/2024 15:59	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 15:59	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 15:59	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 15:59	WG2402769
1,1-Dichloroethene	0.838		0.0200	0.100	1	11/18/2024 15:59	WG2402769
cis-1,2-Dichloroethene	16.1		0.0276	0.100	1	11/18/2024 15:59	WG2402769
trans-1,2-Dichloroethene	0.322		0.0572	0.200	1	11/18/2024 15:59	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 15:59	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 15:59	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 15:59	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 15:59	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 15:59	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 15:59	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 15:59	WG2402769
Ethylbenzene	0.0440	J	0.0212	0.100	1	11/18/2024 15:59	WG2402769
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/18/2024 15:59	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 15:59	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 15:59	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 15:59	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 15:59	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 15:59	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 15:59	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 15:59	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 15:59	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 15:59	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 15:59	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 15:59	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 15:59	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 15:59	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 15:59	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 15:59	WG2402769
Tetrachloroethene	0.392		0.0280	0.100	1	11/18/2024 15:59	WG2402769
Toluene	0.0690	J	0.0500	0.200	1	11/18/2024 15:59	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 15:59	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 15:59	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 15:59	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 15:59	WG2402769
Trichloroethene	0.986		0.0160	0.0400	1	11/18/2024 15:59	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 15:59	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 15:59	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 15:59	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 15:59	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 15:59	WG2402769
Vinyl acetate	U	C3	0.141	0.500	1	11/18/2024 15:59	WG2402769
Vinyl chloride	10.3		0.0273	0.100	1	11/18/2024 15:59	WG2402769
Xylenes, Total	0.287		0.191	0.260	1	11/18/2024 15:59	WG2402769
(S) Toluene-d8	*101*			*75.0-131*		*11/18/2024 15:59*	WG2402769
(S) 4-Bromofluorobenzene	*88.4*			*67.0-138*		*11/18/2024 15:59*	WG2402769
(S) 1,2-Dichloroethane-d4	*99.1*			*70.0-130*		*11/18/2024 15:59*	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 16:18	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 16:18	WG2402769
Benzene	U		0.0160	0.0400	1	11/18/2024 16:18	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 16:18	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 16:18	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 16:18	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 16:18	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 16:18	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 16:18	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 16:18	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 16:18	WG2402769
Carbon disulfide	0.180	B J	0.162	0.500	1	11/18/2024 16:18	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 16:18	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 16:18	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 16:18	WG2402769
Chloroethane	0.172	J	0.0432	0.200	1	11/18/2024 16:18	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 16:18	WG2402769
Chloromethane	0.116	J	0.0556	0.500	1	11/18/2024 16:18	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 16:18	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 16:18	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 16:18	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 16:18	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 16:18	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 16:18	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 16:18	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 16:18	WG2402769
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/18/2024 16:18	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 16:18	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 16:18	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 16:18	WG2402769
1,1-Dichloroethene	0.821		0.0200	0.100	1	11/18/2024 16:18	WG2402769
cis-1,2-Dichloroethene	16.7		0.0276	0.100	1	11/18/2024 16:18	WG2402769
trans-1,2-Dichloroethene	0.346		0.0572	0.200	1	11/18/2024 16:18	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 16:18	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 16:18	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 16:18	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 16:18	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 16:18	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 16:18	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 16:18	WG2402769
Ethylbenzene	0.0410	J	0.0212	0.100	1	11/18/2024 16:18	WG2402769
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/18/2024 16:18	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 16:18	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 16:18	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 16:18	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 16:18	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 16:18	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 16:18	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 16:18	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 16:18	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 16:18	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 16:18	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 16:18	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 16:18	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 16:18	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 16:18	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 16:18	WG2402769
Tetrachloroethene	0.380		0.0280	0.100	1	11/18/2024 16:18	WG2402769
Toluene	0.0640	J	0.0500	0.200	1	11/18/2024 16:18	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 16:18	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 16:18	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 16:18	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 16:18	WG2402769
Trichloroethene	0.896		0.0160	0.0400	1	11/18/2024 16:18	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 16:18	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 16:18	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 16:18	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 16:18	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 16:18	WG2402769
Vinyl acetate	U	C3	0.141	0.500	1	11/18/2024 16:18	WG2402769
Vinyl chloride	10.7		0.0273	0.100	1	11/18/2024 16:18	WG2402769
Xylenes, Total	0.214	J	0.191	0.260	1	11/18/2024 16:18	WG2402769
(S) Toluene-d8	*103*			*75.0-131*		*11/18/2024 16:18*	WG2402769
(S) 4-Bromofluorobenzene	*87.2*			*67.0-138*		*11/18/2024 16:18*	WG2402769
(S) 1,2-Dichloroethane-d4	*96.3*			*70.0-130*		*11/18/2024 16:18*	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 16:38	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 16:38	WG2402769
Benzene	U		0.0160	0.0400	1	11/18/2024 16:38	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 16:38	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 16:38	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 16:38	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 16:38	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 16:38	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 16:38	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 16:38	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 16:38	WG2402769
Carbon disulfide	0.162	J	0.162	0.500	1	11/18/2024 16:38	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 16:38	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 16:38	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 16:38	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 16:38	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 16:38	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 16:38	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 16:38	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 16:38	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 16:38	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 16:38	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 16:38	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 16:38	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 16:38	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 16:38	WG2402769
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/18/2024 16:38	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 16:38	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 16:38	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 16:38	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 16:38	WG2402769
cis-1,2-Dichloroethene	0.0920	J	0.0276	0.100	1	11/18/2024 16:38	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 16:38	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 16:38	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 16:38	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 16:38	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 16:38	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 16:38	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 16:38	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 16:38	WG2402769
Ethylbenzene	0.0310	J	0.0212	0.100	1	11/18/2024 16:38	WG2402769
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/18/2024 16:38	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 16:38	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 16:38	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 16:38	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 16:38	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 16:38	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 16:38	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 16:38	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 16:38	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 16:38	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 16:38	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 16:38	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 16:38	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 16:38	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 16:38	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 16:38	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 16:38	WG2402769
Toluene	0.0730	J	0.0500	0.200	1	11/18/2024 16:38	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 16:38	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 16:38	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 16:38	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 16:38	WG2402769
Trichloroethene	U		0.0160	0.0400	1	11/18/2024 16:38	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 16:38	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 16:38	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 16:38	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 16:38	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 16:38	WG2402769
Vinyl acetate	U	C3	0.141	0.500	1	11/18/2024 16:38	WG2402769
Vinyl chloride	U		0.0273	0.100	1	11/18/2024 16:38	WG2402769
Xylenes, Total	0.211	J	0.191	0.260	1	11/18/2024 16:38	WG2402769
(S) Toluene-d8	*101*			*75.0-131*		*11/18/2024 16:38*	WG2402769
(S) 4-Bromofluorobenzene	*88.8*			*67.0-138*		*11/18/2024 16:38*	WG2402769
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*11/18/2024 16:38*	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 16:58	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 16:58	WG2402769
Benzene	U		0.0160	0.0400	1	11/18/2024 16:58	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 16:58	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 16:58	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 16:58	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 16:58	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 16:58	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 16:58	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 16:58	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 16:58	WG2402769
Carbon disulfide	U		0.162	0.500	1	11/18/2024 16:58	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 16:58	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 16:58	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 16:58	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 16:58	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 16:58	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 16:58	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 16:58	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 16:58	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 16:58	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 16:58	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 16:58	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 16:58	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 16:58	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 16:58	WG2402769
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/18/2024 16:58	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 16:58	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 16:58	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 16:58	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 16:58	WG2402769
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/18/2024 16:58	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 16:58	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 16:58	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 16:58	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 16:58	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 16:58	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 16:58	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 16:58	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 16:58	WG2402769
Ethylbenzene	0.123		0.0212	0.100	1	11/18/2024 16:58	WG2402769
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/18/2024 16:58	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 16:58	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 16:58	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 16:58	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 16:58	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 16:58	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 16:58	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 16:58	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 16:58	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 16:58	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 16:58	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 16:58	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 16:58	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 16:58	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 16:58	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 16:58	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 16:58	WG2402769
Toluene	0.151	J	0.0500	0.200	1	11/18/2024 16:58	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 16:58	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 16:58	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 16:58	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 16:58	WG2402769
Trichloroethene	U		0.0160	0.0400	1	11/18/2024 16:58	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 16:58	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 16:58	WG2402769
1,2,4-Trimethylbenzene	0.0910	J	0.0464	0.200	1	11/18/2024 16:58	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 16:58	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 16:58	WG2402769
Vinyl acetate	U	C3	0.141	0.500	1	11/18/2024 16:58	WG2402769
Vinyl chloride	U		0.0273	0.100	1	11/18/2024 16:58	WG2402769
Xylenes, Total	0.738		0.191	0.260	1	11/18/2024 16:58	WG2402769
(S) Toluene-d8	*101*			*75.0-131*		*11/18/2024 16:58*	WG2402769
(S) 4-Bromofluorobenzene	*88.4*			*67.0-138*		*11/18/2024 16:58*	WG2402769
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/18/2024 16:58*	WG2402769

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	301000		4750	20000	1	11/10/2024 10:20	WG2398699

Sample Narrative:

L1797923-13 WG2398699: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	28000		547	1000	1	11/10/2024 03:09	WG2398742
Nitrate as (N)	U		88.4	100	1	11/10/2024 03:09	WG2398742
Sulfate	24300		637	5000	1	11/10/2024 03:09	WG2398742

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3210		495	1000	1	11/15/2024 13:34	WG2400657

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	342		22.6	100	1	11/19/2024 04:09	WG2401720
Manganese	296		0.700	5.00	1	11/19/2024 04:09	WG2401720

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	1600		0.287	0.678	1	11/13/2024 10:02	WG2399940
Ethane	4.68		0.296	1.29	1	11/13/2024 10:02	WG2399940
Ethene	U		0.422	1.27	1	11/13/2024 10:02	WG2399940

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 17:17	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 17:17	WG2402769
Benzene	0.0160	J	0.0160	0.0400	1	11/18/2024 17:17	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 17:17	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 17:17	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 17:17	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 17:17	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 17:17	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 17:17	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 17:17	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 17:17	WG2402769
Carbon disulfide	U		0.162	0.500	1	11/18/2024 17:17	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 17:17	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 17:17	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 17:17	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 17:17	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 17:17	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 17:17	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 17:17	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 17:17	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 17:17	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 17:17	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 17:17	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 17:17	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 17:17	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 17:17	WG2402769
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/18/2024 17:17	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 17:17	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 17:17	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 17:17	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 17:17	WG2402769
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/18/2024 17:17	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 17:17	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 17:17	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 17:17	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 17:17	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 17:17	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 17:17	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 17:17	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 17:17	WG2402769
Ethylbenzene	0.0560	J	0.0212	0.100	1	11/18/2024 17:17	WG2402769
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/18/2024 17:17	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 17:17	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 17:17	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 17:17	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 17:17	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 17:17	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 17:17	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 17:17	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 17:17	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 17:17	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 17:17	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 17:17	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 17:17	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 17:17	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 17:17	WG2402769
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 17:17	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 17:17	WG2402769
Toluene	0.0930	J	0.0500	0.200	1	11/18/2024 17:17	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 17:17	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 17:17	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 17:17	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 17:17	WG2402769
Trichloroethene	U		0.0160	0.0400	1	11/18/2024 17:17	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 17:17	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 17:17	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 17:17	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 17:17	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 17:17	WG2402769
Vinyl acetate	U	C3	0.141	0.500	1	11/18/2024 17:17	WG2402769
Vinyl chloride	U		0.0273	0.100	1	11/18/2024 17:17	WG2402769
Xylenes, Total	0.229	J	0.191	0.260	1	11/18/2024 17:17	WG2402769
(S) Toluene-d8	*101*			*75.0-131*		*11/18/2024 17:17*	WG2402769
(S) 4-Bromofluorobenzene	*87.3*			*67.0-138*		*11/18/2024 17:17*	WG2402769
(S) 1,2-Dichloroethane-d4	*99.6*			*70.0-130*		*11/18/2024 17:17*	WG2402769

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	817000		4750	20000	1	11/10/2024 14:27	WG2398785

Sample Narrative:

L1797923-14 WG2398785: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	14200		547	1000	1	11/10/2024 03:23	WG2398742
Nitrate as (N)	U		88.4	100	1	11/10/2024 03:23	WG2398742
Sulfate	U		637	5000	1	11/10/2024 03:23	WG2398742

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	9120		495	1000	1	11/15/2024 13:54	WG2400657

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	46200		113	500	5	11/19/2024 04:18	WG2401720
Manganese	10800		3.50	25.0	5	11/19/2024 04:18	WG2401720

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	6550		0.287	0.678	1	11/13/2024 10:53	WG2399940
Ethane	6.04		0.296	1.29	1	11/13/2024 10:53	WG2399940
Ethene	U		0.422	1.27	1	11/13/2024 10:53	WG2399940

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/18/2024 17:37	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 17:37	WG2402769
Benzene	0.0500		0.0160	0.0400	1	11/18/2024 17:37	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 17:37	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 17:37	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 17:37	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 17:37	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 17:37	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 17:37	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 17:37	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 17:37	WG2402769
Carbon disulfide	0.291	B J	0.162	0.500	1	11/18/2024 17:37	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 17:37	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 17:37	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 17:37	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 17:37	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 17:37	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 17:37	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 17:37	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 17:37	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 17:37	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 17:37	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 17:37	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 17:37	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 17:37	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 17:37	WG2402769
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/18/2024 17:37	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 17:37	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 17:37	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 17:37	WG2402769
1,1-Dichloroethene	0.0210	J	0.0200	0.100	1	11/18/2024 17:37	WG2402769
cis-1,2-Dichloroethene	1.19		0.0276	0.100	1	11/18/2024 17:37	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 17:37	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 17:37	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 17:37	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 17:37	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 17:37	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 17:37	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 17:37	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 17:37	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 17:37	WG2402769
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/18/2024 17:37	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 17:37	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 17:37	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 17:37	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 17:37	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 17:37	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 17:37	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 17:37	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 17:37	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 17:37	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 17:37	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 17:37	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 17:37	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 17:37	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 17:37	WG2402769
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 17:37	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 17:37	WG2402769
Toluene	0.204		0.0500	0.200	1	11/18/2024 17:37	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 17:37	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 17:37	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 17:37	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 17:37	WG2402769
Trichloroethene	0.107		0.0160	0.0400	1	11/18/2024 17:37	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 17:37	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 17:37	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 17:37	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 17:37	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 17:37	WG2402769
Vinyl acetate	U	C3	0.141	0.500	1	11/18/2024 17:37	WG2402769
Vinyl chloride	1.22		0.0273	0.100	1	11/18/2024 17:37	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 17:37	WG2402769
(S) Toluene-d8	*101*			*75.0-131*		*11/18/2024 17:37*	WG2402769
(S) 4-Bromofluorobenzene	*85.9*			*67.0-138*		*11/18/2024 17:37*	WG2402769
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/18/2024 17:37*	WG2402769

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	1070000		4750	20000	1	11/10/2024 14:31	WG2398785

Sample Narrative:

L1797923-15 WG2398785: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	28200		547	1000	1	11/10/2024 03:36	WG2398742
Nitrate as (N)	U		88.4	100	1	11/10/2024 03:36	WG2398742
Sulfate	U		637	5000	1	11/10/2024 03:36	WG2398742

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	9630		495	1000	1	11/15/2024 14:14	WG2400657

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	6290		22.6	100	1	11/19/2024 04:21	WG2401720
Manganese	2540		0.700	5.00	1	11/19/2024 04:21	WG2401720

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	13300		2.87	6.78	10	11/13/2024 21:54	WG2401030
Ethane	5.83		0.296	1.29	1	11/13/2024 10:58	WG2399940
Ethene	U		0.422	1.27	1	11/13/2024 10:58	WG2399940

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	39.5		0.548	1.00	1	11/18/2024 17:57	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 17:57	WG2402769
Benzene	U		0.0160	0.0400	1	11/18/2024 17:57	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 17:57	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 17:57	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 17:57	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 17:57	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 17:57	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 17:57	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 17:57	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 17:57	WG2402769
Carbon disulfide	0.252	B J	0.162	0.500	1	11/18/2024 17:57	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 17:57	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 17:57	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 17:57	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 17:57	WG2402769
Chloroform	0.123	B	0.0166	0.100	1	11/18/2024 17:57	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 17:57	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 17:57	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 17:57	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 17:57	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 17:57	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 17:57	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 17:57	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 17:57	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 17:57	WG2402769
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/18/2024 17:57	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 17:57	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 17:57	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 17:57	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 17:57	WG2402769
cis-1,2-Dichloroethene	0.188		0.0276	0.100	1	11/18/2024 17:57	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 17:57	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 17:57	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 17:57	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 17:57	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 17:57	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 17:57	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 17:57	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 17:57	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 17:57	WG2402769
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/18/2024 17:57	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 17:57	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 17:57	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 17:57	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 17:57	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 17:57	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 17:57	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 17:57	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 17:57	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 17:57	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 17:57	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 17:57	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 17:57	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 17:57	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 17:57	WG2402769
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 17:57	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 17:57	WG2402769
Toluene	0.0510	J	0.0500	0.200	1	11/18/2024 17:57	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 17:57	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 17:57	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 17:57	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 17:57	WG2402769
Trichloroethene	0.0160	J	0.0160	0.0400	1	11/18/2024 17:57	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 17:57	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 17:57	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 17:57	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 17:57	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 17:57	WG2402769
Vinyl acetate	U	C3	0.141	0.500	1	11/18/2024 17:57	WG2402769
Vinyl chloride	0.411		0.0273	0.100	1	11/18/2024 17:57	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 17:57	WG2402769
(S) Toluene-d8	*98.8*			*75.0-131*		*11/18/2024 17:57*	WG2402769
(S) 4-Bromofluorobenzene	*86.1*			*67.0-138*		*11/18/2024 17:57*	WG2402769
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/18/2024 17:57*	WG2402769

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	15.8		0.548	1.00	1	11/18/2024 11:13	WG2402769
Acrylonitrile	U		0.0760	0.500	1	11/18/2024 11:13	WG2402769
Benzene	0.0190	J	0.0160	0.0400	1	11/18/2024 11:13	WG2402769
Bromobenzene	U		0.0420	0.500	1	11/18/2024 11:13	WG2402769
Bromochloromethane	U		0.0452	0.200	1	11/18/2024 11:13	WG2402769
Bromodichloromethane	U		0.0315	0.100	1	11/18/2024 11:13	WG2402769
Bromoform	U		0.239	1.00	1	11/18/2024 11:13	WG2402769
Bromomethane	U		0.148	0.500	1	11/18/2024 11:13	WG2402769
n-Butylbenzene	U		0.153	0.500	1	11/18/2024 11:13	WG2402769
sec-Butylbenzene	U		0.101	0.500	1	11/18/2024 11:13	WG2402769
tert-Butylbenzene	U		0.0620	0.200	1	11/18/2024 11:13	WG2402769
Carbon disulfide	0.365	B J	0.162	0.500	1	11/18/2024 11:13	WG2402769
Carbon tetrachloride	U		0.0432	0.200	1	11/18/2024 11:13	WG2402769
Chlorobenzene	U		0.0229	0.100	1	11/18/2024 11:13	WG2402769
Chlorodibromomethane	U		0.0180	0.100	1	11/18/2024 11:13	WG2402769
Chloroethane	U		0.0432	0.200	1	11/18/2024 11:13	WG2402769
Chloroform	U		0.0166	0.100	1	11/18/2024 11:13	WG2402769
Chloromethane	U		0.0556	0.500	1	11/18/2024 11:13	WG2402769
2-Chlorotoluene	U		0.0368	0.100	1	11/18/2024 11:13	WG2402769
4-Chlorotoluene	U		0.0452	0.200	1	11/18/2024 11:13	WG2402769
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/18/2024 11:13	WG2402769
1,2-Dibromoethane	U		0.0210	0.100	1	11/18/2024 11:13	WG2402769
Dibromomethane	U		0.0400	0.200	1	11/18/2024 11:13	WG2402769
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/18/2024 11:13	WG2402769
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/18/2024 11:13	WG2402769
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/18/2024 11:13	WG2402769
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/18/2024 11:13	WG2402769
Dichlorodifluoromethane	U		0.0327	0.200	1	11/18/2024 11:13	WG2402769
1,1-Dichloroethane	U		0.0230	0.100	1	11/18/2024 11:13	WG2402769
1,2-Dichloroethane	U		0.0190	0.100	1	11/18/2024 11:13	WG2402769
1,1-Dichloroethene	U		0.0200	0.100	1	11/18/2024 11:13	WG2402769
cis-1,2-Dichloroethene	0.0290	J	0.0276	0.100	1	11/18/2024 11:13	WG2402769
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/18/2024 11:13	WG2402769
1,2-Dichloropropane	U		0.0508	0.200	1	11/18/2024 11:13	WG2402769
1,1-Dichloropropene	U		0.0280	0.100	1	11/18/2024 11:13	WG2402769
1,3-Dichloropropane	U		0.0700	0.200	1	11/18/2024 11:13	WG2402769
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/18/2024 11:13	WG2402769
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/18/2024 11:13	WG2402769
2,2-Dichloropropane	U		0.0317	0.100	1	11/18/2024 11:13	WG2402769
Di-isopropyl ether	U		0.0140	0.0400	1	11/18/2024 11:13	WG2402769
Ethylbenzene	U		0.0212	0.100	1	11/18/2024 11:13	WG2402769
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/18/2024 11:13	WG2402769
2-Hexanone	U		0.400	1.00	1	11/18/2024 11:13	WG2402769
n-Hexane	U		0.0424	0.200	1	11/18/2024 11:13	WG2402769
Iodomethane	U		0.242	0.500	1	11/18/2024 11:13	WG2402769
Isopropylbenzene	U		0.0345	0.100	1	11/18/2024 11:13	WG2402769
p-Isopropyltoluene	U		0.0932	0.200	1	11/18/2024 11:13	WG2402769
2-Butanone (MEK)	U		0.500	1.00	1	11/18/2024 11:13	WG2402769
Methylene Chloride	U		0.265	1.00	1	11/18/2024 11:13	WG2402769
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/18/2024 11:13	WG2402769
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/18/2024 11:13	WG2402769
Naphthalene	U		0.124	0.500	1	11/18/2024 11:13	WG2402769
n-Propylbenzene	U		0.0472	0.200	1	11/18/2024 11:13	WG2402769
Styrene	U		0.109	0.500	1	11/18/2024 11:13	WG2402769
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/18/2024 11:13	WG2402769
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/18/2024 11:13	WG2402769

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/18/2024 11:13	WG2402769
Tetrachloroethene	U		0.0280	0.100	1	11/18/2024 11:13	WG2402769
Toluene	U		0.0500	0.200	1	11/18/2024 11:13	WG2402769
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/18/2024 11:13	WG2402769
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/18/2024 11:13	WG2402769
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/18/2024 11:13	WG2402769
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/18/2024 11:13	WG2402769
Trichloroethene	0.0630		0.0160	0.0400	1	11/18/2024 11:13	WG2402769
Trichlorofluoromethane	U		0.0200	0.100	1	11/18/2024 11:13	WG2402769
1,2,3-Trichloropropane	U		0.204	0.500	1	11/18/2024 11:13	WG2402769
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/18/2024 11:13	WG2402769
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/18/2024 11:13	WG2402769
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/18/2024 11:13	WG2402769
Vinyl acetate	U	C3	0.141	0.500	1	11/18/2024 11:13	WG2402769
Vinyl chloride	U		0.0273	0.100	1	11/18/2024 11:13	WG2402769
Xylenes, Total	U		0.191	0.260	1	11/18/2024 11:13	WG2402769
(S) Toluene-d8	*98.1*			*75.0-131*		*11/18/2024 11:13*	WG2402769
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*		*11/18/2024 11:13*	WG2402769
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*11/18/2024 11:13*	WG2402769

Method Blank (MB)

(MB) R4144238-2 11/10/24 08:55

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1797698-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1797698-01 11/10/24 09:12 • (DUP) R4144238-3 11/10/24 09:18

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	236000	239000	1	1.46		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1797383-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1797383-01 11/10/24 11:28 • (DUP) R4144238-4 11/10/24 11:33

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	236000	240000	1	1.78		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

Laboratory Control Sample (LCS)

(LCS) R4144238-1 11/10/24 08:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	102000	102	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4144319-2 11/10/24 12:16

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1797611-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1797611-01 11/10/24 12:26 • (DUP) R4144319-3 11/10/24 12:30

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	144000	145000	1	0.379		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1797821-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1797821-10 11/10/24 14:10 • (DUP) R4144319-4 11/10/24 14:15

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	330000	332000	1	0.585		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4144319-1 11/10/24 12:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	99300	99.3	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4144673-1 11/09/24 22:13

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

L1797923-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1797923-03 11/10/24 01:35 • (DUP) R4144673-3 11/10/24 01:48

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	4170	4010	1	3.91		15
Nitrate as (N)	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1797923-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1797923-05 11/10/24 02:29 • (DUP) R4144673-6 11/10/24 02:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	26900	26100	1	2.97		15
Nitrate as (N)	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R4144673-2 11/09/24 22:26

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	37200	93.0	80.0-120	
Nitrate as (N)	8000	7460	93.3	80.0-120	
Sulfate	40000	37700	94.3	80.0-120	

L1797923-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797923-03 11/10/24 01:35 • (MS) R4144673-4 11/10/24 02:02 • (MSD) R4144673-5 11/10/24 02:15

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	4170	43400	42400	98.0	95.7	1	80.0-120			2.14	15
Nitrate as (N)	8000	U	7930	7780	99.1	97.3	1	80.0-120			1.85	15
Sulfate	40000	U	39300	38500	98.4	96.3	1	80.0-120			2.11	15

L1797923-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1797923-05 11/10/24 02:29 • (MS) R4144673-7 11/10/24 02:56

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	26900	62800	89.8	1	80.0-120	
Nitrate as (N)	8000	U	8280	103	1	80.0-120	
Sulfate	40000	U	41300	103	1	80.0-120	

QUALITY CONTROL SUMMARY

L1797923-03,05,13,14,15

Method Blank (MB)

(MB) R4146782-2 11/15/24 10:32

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

L1797923-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1797923-05 11/15/24 12:55 • (DUP) R4146782-5 11/15/24 13:15

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	6810	6900	1	1.24		20

Laboratory Control Sample (LCS)

(LCS) R4146782-1 11/15/24 10:15

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

L1797923-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797923-03 11/15/24 11:55 • (MS) R4146782-3 11/15/24 12:15 • (MSD) R4146782-4 11/15/24 12:35

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	4680	29200	29100	98.0	97.7	1	85.0-115			0.206	20

L1798118-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1798118-06 11/15/24 18:46 • (MS) R4146782-7 11/15/24 19:06 • (MSD) R4146782-8 11/15/24 19:26

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 %
TOC (Total Organic Carbon)	25000	8690	33500	33700	99.1	100	1	85.0-115			0.745	20

Method Blank (MB)

(MB) R4147643-1 11/19/24 03:02

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

Laboratory Control Sample (LCS)

(LCS) R4147643-2 11/19/24 03:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	1000	958	95.8	80.0-120	
Manganese	50.0	49.5	99.1	80.0-120	

L1797892-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797892-01 11/19/24 03:08 • (MS) R4147643-5 11/19/24 03:18 • (MSD) R4147643-6 11/19/24 03:21

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	1000	148000	144000	148000	0.000	0.000	5	75.0-125	V	V	2.21	20
Manganese	50.0	1340	1370	1410	60.8	126	5	75.0-125	V	V	2.36	20

Method Blank (MB)

(MB) R4145486-2 11/13/24 09:59

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

L1795711-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1795711-09 11/13/24 11:21 • (DUP) R4145486-3 11/13/24 11:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	16000	16200	1	1.24	E	20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1797673-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1797673-07 11/13/24 13:09 • (DUP) R4145486-4 11/13/24 13:33

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

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

(LCS) R4145486-1 11/13/24 09:51 • (LCSD) R4145486-5 11/13/24 13:41

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	65.9	65.8	97.2	97.1	85.0-115			0.152	20
Ethane	129	127	127	98.4	98.4	85.0-115			0.000	20
Ethene	127	124	124	97.6	97.6	85.0-115			0.000	20

Method Blank (MB)

(MB) R4145497-2 11/13/24 09:37

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

L1797925-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1797925-01 11/13/24 11:03 • (DUP) R4145497-3 11/13/24 11:43

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

L1798105-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1798105-04 11/13/24 12:52 • (DUP) R4145497-4 11/13/24 13:57

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

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

(LCS) R4145497-1 11/13/24 09:33 • (LCSD) R4145497-5 11/13/24 14:01

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	64.9	61.5	95.7	90.7	85.0-115			5.38	20
Ethane	129	118	119	91.5	92.2	85.0-115			0.844	20
Ethene	127	119	119	93.7	93.7	85.0-115			0.000	20

Method Blank (MB)

(MB) R4145778-2 11/13/24 17:12

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	4.73		0.287	0.678

L1795711-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1795711-01 11/13/24 17:32 • (DUP) R4145778-3 11/13/24 20:18

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	17600	17600	10	0.000		20

L1797925-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1797925-03 11/13/24 21:59 • (DUP) R4145778-4 11/14/24 00:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	15000	14800	10	1.34		20

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

(LCS) R4145778-1 11/13/24 17:06 • (LCSD) R4145778-7 11/14/24 01:15

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	65.1	67.1	96.0	99.0	85.0-115			3.03	20

L1795711-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1795711-06 11/13/24 17:52 • (MS) R4145778-5 11/14/24 00:18 • (MSD) R4145778-6 11/14/24 00:27

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Methane	678	9700	10700	10700	147	147	10	85.0-115	V	V	0.000	20

Method Blank (MB)

(MB) R4149026-2 11/18/24 08:46

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	0.365	J	0.162	0.500
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	0.0170	J	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

Method Blank (MB)

(MB) R4149026-2 11/18/24 08:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	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	*98.5*			*75.0-131*
(S) 4-Bromofluorobenzene	*88.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4149026-1 11/18/24 07:49

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	27.7	111	10.0-160	
Acrylonitrile	25.0	33.6	134	45.0-153	
Benzene	5.00	4.74	94.8	70.0-123	
Bromobenzene	5.00	5.43	109	73.0-121	
Bromochloromethane	5.00	5.39	108	77.0-128	
Bromodichloromethane	5.00	5.21	104	73.0-121	
Bromoform	5.00	4.21	84.2	64.0-132	
Bromomethane	5.00	6.12	122	56.0-147	
n-Butylbenzene	5.00	4.76	95.2	68.0-135	
sec-Butylbenzene	5.00	5.06	101	74.0-130	
tert-Butylbenzene	5.00	5.09	102	75.0-127	
Carbon disulfide	5.00	4.40	88.0	56.0-133	
Carbon tetrachloride	5.00	5.27	105	66.0-128	
Chlorobenzene	5.00	4.58	91.6	76.0-128	
Chlorodibromomethane	5.00	4.61	92.2	74.0-127	
Chloroethane	5.00	5.45	109	61.0-134	
Chloroform	5.00	4.99	99.8	72.0-123	
Chloromethane	5.00	4.74	94.8	51.0-138	
2-Chlorotoluene	5.00	5.55	111	75.0-124	
4-Chlorotoluene	5.00	5.31	106	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	5.17	103	59.0-130	
1,2-Dibromoethane	5.00	4.77	95.4	74.0-128	
Dibromomethane	5.00	5.17	103	75.0-122	
1,2-Dichlorobenzene	5.00	5.21	104	76.0-124	
1,3-Dichlorobenzene	5.00	5.14	103	76.0-125	
1,4-Dichlorobenzene	5.00	5.34	107	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	2.77	55.4	45.0-143	
Dichlorodifluoromethane	5.00	5.32	106	43.0-156	
1,1-Dichloroethane	5.00	5.07	101	70.0-127	
1,2-Dichloroethane	5.00	4.97	99.4	65.0-131	
1,1-Dichloroethene	5.00	5.05	101	65.0-131	
cis-1,2-Dichloroethene	5.00	5.08	102	73.0-125	
trans-1,2-Dichloroethene	5.00	4.61	92.2	71.0-125	
1,2-Dichloropropane	5.00	5.17	103	74.0-125	
1,1-Dichloropropene	5.00	5.12	102	73.0-125	
1,3-Dichloropropane	5.00	4.85	97.0	80.0-125	
cis-1,3-Dichloropropene	5.00	4.84	96.8	76.0-127	
trans-1,3-Dichloropropene	5.00	4.50	90.0	73.0-127	
2,2-Dichloropropane	5.00	5.13	103	59.0-135	
Di-isopropyl ether	5.00	4.96	99.2	60.0-136	

Laboratory Control Sample (LCS)

(LCS) R4149026-1 11/18/24 07:49

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	5.00	4.60	92.0	74.0-126	
Hexachloro-1,3-butadiene	5.00	3.68	73.6	57.0-150	
2-Hexanone	25.0	23.5	94.0	54.0-147	
n-Hexane	5.00	4.29	85.8	55.0-137	
Iodomethane	25.0	23.7	94.8	74.0-134	
Isopropylbenzene	5.00	4.70	94.0	72.0-127	
p-Isopropyltoluene	5.00	5.07	101	72.0-133	
2-Butanone (MEK)	25.0	24.5	98.0	30.0-160	
Methylene Chloride	5.00	5.86	117	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	30.5	122	56.0-143	
Methyl tert-butyl ether	5.00	5.59	112	66.0-132	
Naphthalene	5.00	4.97	99.4	59.0-130	
n-Propylbenzene	5.00	5.24	105	74.0-126	
Styrene	5.00	4.70	94.0	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	4.91	98.2	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	5.72	114	68.0-128	
1,1,2-Trichlorotrifluoroethane	5.00	4.71	94.2	61.0-139	
Tetrachloroethene	5.00	4.69	93.8	70.0-136	
Toluene	5.00	4.66	93.2	75.0-121	
1,2,3-Trichlorobenzene	5.00	4.85	97.0	59.0-139	
1,2,4-Trichlorobenzene	5.00	4.33	86.6	62.0-137	
1,1,1-Trichloroethane	5.00	5.36	107	69.0-126	
1,1,2-Trichloroethane	5.00	5.03	101	78.0-123	
Trichloroethene	5.00	5.06	101	76.0-126	
Trichlorofluoromethane	5.00	5.60	112	61.0-142	J
1,2,3-Trichloropropane	5.00	6.25	125	67.0-129	
1,2,4-Trimethylbenzene	5.00	5.24	105	70.0-126	
1,2,3-Trimethylbenzene	5.00	5.13	103	74.0-124	
1,3,5-Trimethylbenzene	5.00	5.10	102	73.0-127	
Vinyl acetate	25.0	18.2	72.8	43.0-159	
Vinyl chloride	5.00	5.61	112	63.0-134	
Xylenes, Total	15.0	13.4	89.3	72.0-127	
(S) Toluene-d8			*95.8*	*75.0-131*	
(S) 4-Bromofluorobenzene			*92.6*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*112*	*70.0-130*	

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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	LAO000356
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

Report to:
Daniel Balbiani

Email To:
Daniel.balbiani@nv5.com;sam.graber@nv5.com

Project Description:
American Linen

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413001.10.701.02

Lab Project #
PESENVSWA-ALP

Collected by (print):
D. Del Grudice

Site/Facility ID #

P.O. #
443022-1413001.10.701

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**Nitr,chl,sulf 9056 250mlHDPE-NoPres	ALK 2320B 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	FE,MN total 6020 250mlHDPE-HNO3	TOC 9060 250mlAmb-HCl	VOCS 8260ULL 40mlAmb-HCl						
MW111-110824	G	GW		11-8-24	735	3						X						07
MW-312-110824		GW			820	3						XX						16
MW109-110824		GW			855	9	X	X	X	X	X	X						13
MW160-110824		GW			1022	3						X						14
MW107-110824		GW			1130	9	X	X	X	X	X	X						15
MW104-110824		GW			1251	3						X						10
MW-351-110824		GW			1015	3						XX						07
MW119-110824		GW			1107	3						X						06
MW-161-110824		GW			1346	3						XX						09
MW-996-110824	↓	GW		↓	1333	3						X						10

Immediately Packed on Ice N ___ Y ✓

Remarks | Sample # (lab only)

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

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

179923

SDG # L1700903

Table # K001

Acctnum: **PESENVSWA**
Template: **T262759**
Prelogin: **P1110133**
PM: **3768 - Jordan Dozier**
PB: LM 10/23/24
Shipped Via: **FedEX Ground**

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

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

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4212 6472 7869

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: (Yes) / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	11/8/24	1500		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: TLA9 2.3+0=2.3 75	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/09/24 Time: 0900	Hold: / Condition: NCF / OK

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

Report to: **Daniel Balbiani**

Email To: **Daniel.balbiani@nv5.com;sam.graber@nv5.com**

Project Description: **American Linen**

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project # **1413001.10.701.02**

Lab Project # **PESENVSWA-ALP**

Collected by (print): D. Del Grande

Site/Facility ID #

P.O. # **443022-1413001.10.701**

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**Nitr,chl,sulf 9056 250mlHDPE-NoPres	ALK 2320B 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	FE,MN total 6020 250mlHDPE-HNO3	TOC 9060 250mlAmb-HCl	VOCS 8260ULL 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-307-110824	G	GW		11/8/24	1210	3						X		-01
MW-306-110824		GW			1351	3						X		-02
MW-145R-110824		GW			1000	9	X	X	X	X	X	X		-03
R-MW6-110824		GW			1215	9	X	X	X	X	X	X		-04
W-MW-01-110824		GW			1415	9	X	X	X	X	X	X		-05
TB-110824		GW			—	1						X		-10
		GW												
		GW												
		GW												
		GW												

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

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

11/7/23

SDG # L1797023

Table #

Acctnum: **PESENVSWA**
Template: **T262759**
Prelogin: **P1110133**
PM: **3768 - Jordan Dozier**
PB: LM 10/23/24
Shipped Via: **FedEX Ground**

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

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

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	11/8/24	1500			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/09/24 Time: 0900	Hold: Condition: NCF / OK

ANALYTICAL REPORT

November 27, 2024

PES Environmental, Inc.- WA

Sample Delivery Group:	L1798511
Samples Received:	11/12/2024
Project Number:	1413001.10.701.02
Description:	American Linen

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

Entire Report Reviewed By: J Dozier

Jordan Dozier
Project Manager

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

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-155-111124 L1798511-01 GW

Collected by: D. Del G | Collected date/time: 11/11/24 08:20 | Received date/time: 11/12/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2400690	1	11/13/24 11:32	11/13/24 11:32	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2400159	1	11/12/24 21:49	11/12/24 21:49	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2401895	1	11/15/24 21:18	11/15/24 21:18	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2401735	1	11/19/24 01:23	11/19/24 14:44	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2400515	1	11/14/24 13:10	11/14/24 13:10	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403269	1	11/17/24 19:47	11/17/24 19:47	JAH	Mt. Juliet, TN

MW-148-111124 L1798511-02 GW

Collected by: D. Del G | Collected date/time: 11/11/24 09:24 | Received date/time: 11/12/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403269	1	11/17/24 20:06	11/17/24 20:06	JAH	Mt. Juliet, TN

MW-315-111124 L1798511-03 GW

Collected by: D. Del G | Collected date/time: 11/11/24 10:55 | Received date/time: 11/12/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403269	1	11/17/24 20:25	11/17/24 20:25	JAH	Mt. Juliet, TN

MW-316-111124 L1798511-04 GW

Collected by: D. Del G | Collected date/time: 11/11/24 12:05 | Received date/time: 11/12/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403269	1	11/17/24 20:44	11/17/24 20:44	JAH	Mt. Juliet, TN

MW-325-111124 L1798511-05 GW

Collected by: D. Del G | Collected date/time: 11/11/24 13:30 | Received date/time: 11/12/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403269	1	11/17/24 21:03	11/17/24 21:03	JAH	Mt. Juliet, TN

MW-326R-111124 L1798511-06 GW

Collected by: D. Del G | Collected date/time: 11/11/24 14:15 | Received date/time: 11/12/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403269	1	11/17/24 21:22	11/17/24 21:22	JAH	Mt. Juliet, TN

MW-331-111124 L1798511-07 GW

Collected by: D. Del G | Collected date/time: 11/11/24 10:40 | Received date/time: 11/12/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403269	1	11/17/24 21:41	11/17/24 21:41	JAH	Mt. Juliet, TN

MW126-111124 L1798511-08 GW

Collected by: D. Del G | Collected date/time: 11/11/24 11:32 | Received date/time: 11/12/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403269	1	11/17/24 22:00	11/17/24 22:00	JAH	Mt. Juliet, TN

SCL-MW101-111124 L1798511-09 GW

Collected by: D. Del G | Collected date/time: 11/11/24 12:38 | Received date/time: 11/12/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403269	1	11/17/24 22:20	11/17/24 22:20	JAH	Mt. Juliet, TN

MW-309-111124 L1798511-10 GW

Collected by: D. Del G | Collected date/time: 11/11/24 13:45 | Received date/time: 11/12/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403269	1	11/17/24 22:39	11/17/24 22:39	JAH	Mt. Juliet, TN

MW-308-111124 L1798511-11 GW

Collected by: D. Del G | Collected date/time: 11/11/24 14:20 | Received date/time: 11/12/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403269	1	11/17/24 22:58	11/17/24 22:58	JAH	Mt. Juliet, TN

MW-181-111124 L1798511-12 GW

Collected by: D. Del G | Collected date/time: 11/11/24 12:02 | Received date/time: 11/12/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2400690	1	11/13/24 12:12	11/13/24 12:12	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2400159	1	11/12/24 22:03	11/12/24 22:03	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2401895	1	11/15/24 21:36	11/15/24 21:36	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2401735	5	11/19/24 01:23	11/19/24 14:47	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2400515	1	11/14/24 13:15	11/14/24 13:15	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2401848	10	11/14/24 15:27	11/14/24 15:27	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403269	1	11/17/24 23:17	11/17/24 23:17	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2407254	250	11/24/24 15:59	11/24/24 15:59	JAH	Mt. Juliet, TN

MW-184-111124 L1798511-13 GW

Collected by: D. Del G | Collected date/time: 11/11/24 12:10 | Received date/time: 11/12/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2400690	1	11/13/24 12:16	11/13/24 12:16	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2400159	1	11/12/24 22:16	11/12/24 22:16	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2401895	1	11/15/24 21:51	11/15/24 21:51	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2401735	1	11/19/24 01:23	11/19/24 14:50	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2400515	1	11/14/24 13:27	11/14/24 13:27	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403269	1	11/17/24 23:36	11/17/24 23:36	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2407254	1	11/24/24 15:40	11/24/24 15:40	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

MW-183-111124 L1798511-14 GW

Collected by: D. Del G
Collected date/time: 11/11/24 14:50
Received date/time: 11/12/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2400690	1	11/13/24 12:21	11/13/24 12:21	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2400159	1	11/12/24 22:30	11/12/24 22:30	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2401895	1	11/15/24 22:08	11/15/24 22:08	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2401735	1	11/19/24 01:23	11/19/24 14:53	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2400515	1	11/14/24 13:32	11/14/24 13:32	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2401848	10	11/14/24 15:32	11/14/24 15:32	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403269	1	11/17/24 23:56	11/17/24 23:56	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2407254	25	11/24/24 16:18	11/24/24 16:18	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

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	276000		4750	20000	1	11/13/2024 11:32	WG2400690

Sample Narrative:
L1798511-01 WG2400690: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	14900		547	1000	1	11/12/2024 21:49	WG2400159
Nitrate as (N)	2600		88.4	100	1	11/12/2024 21:49	WG2400159
Sulfate	155000		637	5000	1	11/12/2024 21:49	WG2400159

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2730		495	1000	1	11/15/2024 21:18	WG2401895

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	651		22.6	100	1	11/19/2024 14:44	WG2401735
Manganese	385		0.700	5.00	1	11/19/2024 14:44	WG2401735

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	241		0.287	0.678	1	11/14/2024 13:10	WG2400515
Ethane	U		0.296	1.29	1	11/14/2024 13:10	WG2400515
Ethene	U		0.422	1.27	1	11/14/2024 13:10	WG2400515

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.13		0.548	1.00	1	11/17/2024 19:47	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 19:47	WG2403269
Benzene	0.0220	J	0.0160	0.0400	1	11/17/2024 19:47	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 19:47	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 19:47	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 19:47	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 19:47	WG2403269
Bromomethane	U	C3	0.148	0.500	1	11/17/2024 19:47	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 19:47	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 19:47	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 19:47	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 19:47	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 19:47	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 19:47	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 19:47	WG2403269
Chloroethane	U	C3	0.0432	0.200	1	11/17/2024 19:47	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 19:47	WG2403269
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 19:47	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 19:47	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 19:47	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 19:47	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 19:47	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 19:47	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 19:47	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 19:47	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 19:47	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 19:47	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 19:47	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 19:47	WG2403269
1,2-Dichloroethane	U	C3	0.0190	0.100	1	11/17/2024 19:47	WG2403269
1,1-Dichloroethene	0.208		0.0200	0.100	1	11/17/2024 19:47	WG2403269
cis-1,2-Dichloroethene	64.5		0.0276	0.100	1	11/17/2024 19:47	WG2403269
trans-1,2-Dichloroethene	0.137	J	0.0572	0.200	1	11/17/2024 19:47	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 19:47	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 19:47	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 19:47	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 19:47	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 19:47	WG2403269
2,2-Dichloropropane	U	C3	0.0317	0.100	1	11/17/2024 19:47	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 19:47	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 19:47	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 19:47	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 19:47	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 19:47	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 19:47	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 19:47	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 19:47	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 19:47	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 19:47	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 19:47	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 19:47	WG2403269
Naphthalene	U	C3	0.124	0.500	1	11/17/2024 19:47	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 19:47	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 19:47	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 19:47	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 19:47	WG2403269
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 19:47	WG2403269
Tetrachloroethene	38.7	C5	0.0280	0.100	1	11/17/2024 19:47	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 19:47	WG2403269
1,2,3-Trichlorobenzene	U	C3	0.0250	0.500	1	11/17/2024 19:47	WG2403269
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/17/2024 19:47	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 19:47	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 19:47	WG2403269
Trichloroethene	11.0		0.0160	0.0400	1	11/17/2024 19:47	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 19:47	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 19:47	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 19:47	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 19:47	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 19:47	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 19:47	WG2403269
Vinyl chloride	0.804	C3	0.0273	0.100	1	11/17/2024 19:47	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 19:47	WG2403269
(S) Toluene-d8	*106*			*75.0-131*		*11/17/2024 19:47*	WG2403269
(S) 4-Bromofluorobenzene	*94.9*			*67.0-138*		*11/17/2024 19:47*	WG2403269
(S) 1,2-Dichloroethane-d4	*91.7*			*70.0-130*		*11/17/2024 19:47*	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.02		0.548	1.00	1	11/17/2024 20:06	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 20:06	WG2403269
Benzene	U		0.0160	0.0400	1	11/17/2024 20:06	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 20:06	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 20:06	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 20:06	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 20:06	WG2403269
Bromomethane	U	C3	0.148	0.500	1	11/17/2024 20:06	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 20:06	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 20:06	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 20:06	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 20:06	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 20:06	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 20:06	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 20:06	WG2403269
Chloroethane	U	C3	0.0432	0.200	1	11/17/2024 20:06	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 20:06	WG2403269
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 20:06	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 20:06	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 20:06	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 20:06	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 20:06	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 20:06	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 20:06	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 20:06	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 20:06	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 20:06	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 20:06	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 20:06	WG2403269
1,2-Dichloroethane	U	C3	0.0190	0.100	1	11/17/2024 20:06	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 20:06	WG2403269
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/17/2024 20:06	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 20:06	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 20:06	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 20:06	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 20:06	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 20:06	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 20:06	WG2403269
2,2-Dichloropropane	U	C3	0.0317	0.100	1	11/17/2024 20:06	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 20:06	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 20:06	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 20:06	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 20:06	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 20:06	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 20:06	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 20:06	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 20:06	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 20:06	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 20:06	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 20:06	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 20:06	WG2403269
Naphthalene	U	C3	0.124	0.500	1	11/17/2024 20:06	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 20:06	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 20:06	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 20:06	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 20:06	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 20:06	WG2403269
Tetrachloroethene	0.0290	J	0.0280	0.100	1	11/17/2024 20:06	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 20:06	WG2403269
1,2,3-Trichlorobenzene	U	C3	0.0250	0.500	1	11/17/2024 20:06	WG2403269
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/17/2024 20:06	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 20:06	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 20:06	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 20:06	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 20:06	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 20:06	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 20:06	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 20:06	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 20:06	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 20:06	WG2403269
Vinyl chloride	U	C3	0.0273	0.100	1	11/17/2024 20:06	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 20:06	WG2403269
(S) Toluene-d8	*110*			*75.0-131*		*11/17/2024 20:06*	WG2403269
(S) 4-Bromofluorobenzene	*95.8*			*67.0-138*		*11/17/2024 20:06*	WG2403269
(S) 1,2-Dichloroethane-d4	*92.4*			*70.0-130*		*11/17/2024 20:06*	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	0.922	J	0.548	1.00	1	11/17/2024 20:25	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 20:25	WG2403269
Benzene	U		0.0160	0.0400	1	11/17/2024 20:25	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 20:25	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 20:25	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 20:25	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 20:25	WG2403269
Bromomethane	U	C3	0.148	0.500	1	11/17/2024 20:25	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 20:25	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 20:25	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 20:25	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 20:25	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 20:25	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 20:25	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 20:25	WG2403269
Chloroethane	U	C3	0.0432	0.200	1	11/17/2024 20:25	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 20:25	WG2403269
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 20:25	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 20:25	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 20:25	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 20:25	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 20:25	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 20:25	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 20:25	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 20:25	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 20:25	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 20:25	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 20:25	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 20:25	WG2403269
1,2-Dichloroethane	U	C3	0.0190	0.100	1	11/17/2024 20:25	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 20:25	WG2403269
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/17/2024 20:25	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 20:25	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 20:25	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 20:25	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 20:25	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 20:25	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 20:25	WG2403269
2,2-Dichloropropane	U	C3	0.0317	0.100	1	11/17/2024 20:25	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 20:25	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 20:25	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 20:25	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 20:25	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 20:25	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 20:25	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 20:25	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 20:25	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 20:25	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 20:25	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 20:25	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 20:25	WG2403269
Naphthalene	U	C3	0.124	0.500	1	11/17/2024 20:25	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 20:25	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 20:25	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 20:25	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 20:25	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 20:25	WG2403269
Tetrachloroethene	0.0610	J	0.0280	0.100	1	11/17/2024 20:25	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 20:25	WG2403269
1,2,3-Trichlorobenzene	U	C3	0.0250	0.500	1	11/17/2024 20:25	WG2403269
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/17/2024 20:25	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 20:25	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 20:25	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 20:25	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 20:25	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 20:25	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 20:25	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 20:25	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 20:25	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 20:25	WG2403269
Vinyl chloride	U	C3	0.0273	0.100	1	11/17/2024 20:25	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 20:25	WG2403269
(S) Toluene-d8	*108*			*75.0-131*		*11/17/2024 20:25*	WG2403269
(S) 4-Bromofluorobenzene	*91.5*			*67.0-138*		*11/17/2024 20:25*	WG2403269
(S) 1,2-Dichloroethane-d4	*93.3*			*70.0-130*		*11/17/2024 20:25*	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.65		0.548	1.00	1	11/17/2024 20:44	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 20:44	WG2403269
Benzene	U		0.0160	0.0400	1	11/17/2024 20:44	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 20:44	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 20:44	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 20:44	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 20:44	WG2403269
Bromomethane	U	C3	0.148	0.500	1	11/17/2024 20:44	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 20:44	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 20:44	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 20:44	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 20:44	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 20:44	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 20:44	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 20:44	WG2403269
Chloroethane	U	C3	0.0432	0.200	1	11/17/2024 20:44	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 20:44	WG2403269
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 20:44	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 20:44	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 20:44	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 20:44	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 20:44	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 20:44	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 20:44	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 20:44	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 20:44	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 20:44	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 20:44	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 20:44	WG2403269
1,2-Dichloroethane	U	C3	0.0190	0.100	1	11/17/2024 20:44	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 20:44	WG2403269
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/17/2024 20:44	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 20:44	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 20:44	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 20:44	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 20:44	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 20:44	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 20:44	WG2403269
2,2-Dichloropropane	U	C3	0.0317	0.100	1	11/17/2024 20:44	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 20:44	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 20:44	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 20:44	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 20:44	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 20:44	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 20:44	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 20:44	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 20:44	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 20:44	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 20:44	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 20:44	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 20:44	WG2403269
Naphthalene	U	C3	0.124	0.500	1	11/17/2024 20:44	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 20:44	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 20:44	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 20:44	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 20:44	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 20:44	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 20:44	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 20:44	WG2403269
1,2,3-Trichlorobenzene	U	C3	0.0250	0.500	1	11/17/2024 20:44	WG2403269
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/17/2024 20:44	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 20:44	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 20:44	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 20:44	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 20:44	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 20:44	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 20:44	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 20:44	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 20:44	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 20:44	WG2403269
Vinyl chloride	U	C3	0.0273	0.100	1	11/17/2024 20:44	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 20:44	WG2403269
(S) Toluene-d8	*110*			*75.0-131*		*11/17/2024 20:44*	WG2403269
(S) 4-Bromofluorobenzene	*94.1*			*67.0-138*		*11/17/2024 20:44*	WG2403269
(S) 1,2-Dichloroethane-d4	*92.6*			*70.0-130*		*11/17/2024 20:44*	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.17		0.548	1.00	1	11/17/2024 21:03	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 21:03	WG2403269
Benzene	U		0.0160	0.0400	1	11/17/2024 21:03	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 21:03	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 21:03	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 21:03	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 21:03	WG2403269
Bromomethane	U	C3	0.148	0.500	1	11/17/2024 21:03	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 21:03	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 21:03	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 21:03	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 21:03	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 21:03	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 21:03	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 21:03	WG2403269
Chloroethane	U	C3	0.0432	0.200	1	11/17/2024 21:03	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 21:03	WG2403269
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 21:03	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 21:03	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 21:03	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 21:03	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 21:03	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 21:03	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 21:03	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 21:03	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 21:03	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 21:03	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 21:03	WG2403269
1,1-Dichloroethane	0.0280	J	0.0230	0.100	1	11/17/2024 21:03	WG2403269
1,2-Dichloroethane	U	C3	0.0190	0.100	1	11/17/2024 21:03	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 21:03	WG2403269
cis-1,2-Dichloroethene	1.61		0.0276	0.100	1	11/17/2024 21:03	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 21:03	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 21:03	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 21:03	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 21:03	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 21:03	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 21:03	WG2403269
2,2-Dichloropropane	U	C3	0.0317	0.100	1	11/17/2024 21:03	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 21:03	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 21:03	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 21:03	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 21:03	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 21:03	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 21:03	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 21:03	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 21:03	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 21:03	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 21:03	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 21:03	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 21:03	WG2403269
Naphthalene	U	C3	0.124	0.500	1	11/17/2024 21:03	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 21:03	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 21:03	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 21:03	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 21:03	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 21:03	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 21:03	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 21:03	WG2403269
1,2,3-Trichlorobenzene	U	C3	0.0250	0.500	1	11/17/2024 21:03	WG2403269
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/17/2024 21:03	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 21:03	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 21:03	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 21:03	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 21:03	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 21:03	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 21:03	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 21:03	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 21:03	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 21:03	WG2403269
Vinyl chloride	U	C3	0.0273	0.100	1	11/17/2024 21:03	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 21:03	WG2403269
(S) Toluene-d8	*109*			*75.0-131*		*11/17/2024 21:03*	WG2403269
(S) 4-Bromofluorobenzene	*91.0*			*67.0-138*		*11/17/2024 21:03*	WG2403269
(S) 1,2-Dichloroethane-d4	*92.3*			*70.0-130*		*11/17/2024 21:03*	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.29		0.548	1.00	1	11/17/2024 21:22	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 21:22	WG2403269
Benzene	0.0330	J	0.0160	0.0400	1	11/17/2024 21:22	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 21:22	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 21:22	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 21:22	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 21:22	WG2403269
Bromomethane	U	C3	0.148	0.500	1	11/17/2024 21:22	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 21:22	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 21:22	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 21:22	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 21:22	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 21:22	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 21:22	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 21:22	WG2403269
Chloroethane	U	C3	0.0432	0.200	1	11/17/2024 21:22	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 21:22	WG2403269
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 21:22	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 21:22	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 21:22	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 21:22	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 21:22	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 21:22	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 21:22	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 21:22	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 21:22	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 21:22	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 21:22	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 21:22	WG2403269
1,2-Dichloroethane	U	C3	0.0190	0.100	1	11/17/2024 21:22	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 21:22	WG2403269
cis-1,2-Dichloroethene	0.0880	J	0.0276	0.100	1	11/17/2024 21:22	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 21:22	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 21:22	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 21:22	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 21:22	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 21:22	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 21:22	WG2403269
2,2-Dichloropropane	U	C3	0.0317	0.100	1	11/17/2024 21:22	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 21:22	WG2403269
Ethylbenzene	0.234		0.0212	0.100	1	11/17/2024 21:22	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 21:22	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 21:22	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 21:22	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 21:22	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 21:22	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 21:22	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 21:22	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 21:22	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 21:22	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 21:22	WG2403269
Naphthalene	U	C3	0.124	0.500	1	11/17/2024 21:22	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 21:22	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 21:22	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 21:22	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 21:22	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 21:22	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 21:22	WG2403269
Toluene	0.102	J	0.0500	0.200	1	11/17/2024 21:22	WG2403269
1,2,3-Trichlorobenzene	U	C3	0.0250	0.500	1	11/17/2024 21:22	WG2403269
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/17/2024 21:22	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 21:22	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 21:22	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 21:22	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 21:22	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 21:22	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 21:22	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 21:22	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 21:22	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 21:22	WG2403269
Vinyl chloride	U	C3	0.0273	0.100	1	11/17/2024 21:22	WG2403269
Xylenes, Total	1.19		0.191	0.260	1	11/17/2024 21:22	WG2403269
(S) Toluene-d8	*107*			*75.0-131*		*11/17/2024 21:22*	WG2403269
(S) 4-Bromofluorobenzene	*96.8*			*67.0-138*		*11/17/2024 21:22*	WG2403269
(S) 1,2-Dichloroethane-d4	*94.8*			*70.0-130*		*11/17/2024 21:22*	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	0.871	J	0.548	1.00	1	11/17/2024 21:41	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 21:41	WG2403269
Benzene	U		0.0160	0.0400	1	11/17/2024 21:41	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 21:41	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 21:41	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 21:41	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 21:41	WG2403269
Bromomethane	U	C3	0.148	0.500	1	11/17/2024 21:41	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 21:41	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 21:41	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 21:41	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 21:41	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 21:41	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 21:41	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 21:41	WG2403269
Chloroethane	U	C3	0.0432	0.200	1	11/17/2024 21:41	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 21:41	WG2403269
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 21:41	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 21:41	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 21:41	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 21:41	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 21:41	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 21:41	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 21:41	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 21:41	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 21:41	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 21:41	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 21:41	WG2403269
1,1-Dichloroethane	0.714		0.0230	0.100	1	11/17/2024 21:41	WG2403269
1,2-Dichloroethane	U	C3	0.0190	0.100	1	11/17/2024 21:41	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 21:41	WG2403269
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/17/2024 21:41	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 21:41	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 21:41	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 21:41	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 21:41	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 21:41	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 21:41	WG2403269
2,2-Dichloropropane	U	C3	0.0317	0.100	1	11/17/2024 21:41	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 21:41	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 21:41	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 21:41	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 21:41	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 21:41	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 21:41	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 21:41	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 21:41	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 21:41	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 21:41	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 21:41	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 21:41	WG2403269
Naphthalene	U	C3	0.124	0.500	1	11/17/2024 21:41	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 21:41	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 21:41	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 21:41	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 21:41	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 21:41	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 21:41	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 21:41	WG2403269
1,2,3-Trichlorobenzene	U	C3	0.0250	0.500	1	11/17/2024 21:41	WG2403269
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/17/2024 21:41	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 21:41	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 21:41	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 21:41	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 21:41	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 21:41	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 21:41	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 21:41	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 21:41	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 21:41	WG2403269
Vinyl chloride	U	C3	0.0273	0.100	1	11/17/2024 21:41	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 21:41	WG2403269
(S) Toluene-d8	*112*			*75.0-131*		*11/17/2024 21:41*	WG2403269
(S) 4-Bromofluorobenzene	*91.9*			*67.0-138*		*11/17/2024 21:41*	WG2403269
(S) 1,2-Dichloroethane-d4	*94.2*			*70.0-130*		*11/17/2024 21:41*	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	0.927	J	0.548	1.00	1	11/17/2024 22:00	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 22:00	WG2403269
Benzene	U		0.0160	0.0400	1	11/17/2024 22:00	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 22:00	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 22:00	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 22:00	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 22:00	WG2403269
Bromomethane	U	C3	0.148	0.500	1	11/17/2024 22:00	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 22:00	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 22:00	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 22:00	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 22:00	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 22:00	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 22:00	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 22:00	WG2403269
Chloroethane	U	C3	0.0432	0.200	1	11/17/2024 22:00	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 22:00	WG2403269
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 22:00	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 22:00	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 22:00	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 22:00	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 22:00	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 22:00	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 22:00	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 22:00	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 22:00	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 22:00	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 22:00	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 22:00	WG2403269
1,2-Dichloroethane	U	C3	0.0190	0.100	1	11/17/2024 22:00	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 22:00	WG2403269
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/17/2024 22:00	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 22:00	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 22:00	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 22:00	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 22:00	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 22:00	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 22:00	WG2403269
2,2-Dichloropropane	U	C3	0.0317	0.100	1	11/17/2024 22:00	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 22:00	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 22:00	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 22:00	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 22:00	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 22:00	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 22:00	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 22:00	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 22:00	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 22:00	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 22:00	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 22:00	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 22:00	WG2403269
Naphthalene	U	C3	0.124	0.500	1	11/17/2024 22:00	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 22:00	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 22:00	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 22:00	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 22:00	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 22:00	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 22:00	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 22:00	WG2403269
1,2,3-Trichlorobenzene	U	C3	0.0250	0.500	1	11/17/2024 22:00	WG2403269
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/17/2024 22:00	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 22:00	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 22:00	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 22:00	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 22:00	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 22:00	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 22:00	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 22:00	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 22:00	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 22:00	WG2403269
Vinyl chloride	U	C3	0.0273	0.100	1	11/17/2024 22:00	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 22:00	WG2403269
(S) Toluene-d8	*105*			*75.0-131*		*11/17/2024 22:00*	WG2403269
(S) 4-Bromofluorobenzene	*95.0*			*67.0-138*		*11/17/2024 22:00*	WG2403269
(S) 1,2-Dichloroethane-d4	*94.3*			*70.0-130*		*11/17/2024 22:00*	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	3.65		0.548	1.00	1	11/17/2024 22:20	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 22:20	WG2403269
Benzene	2.13		0.0160	0.0400	1	11/17/2024 22:20	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 22:20	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 22:20	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 22:20	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 22:20	WG2403269
Bromomethane	U	C3	0.148	0.500	1	11/17/2024 22:20	WG2403269
n-Butylbenzene	1.37		0.153	0.500	1	11/17/2024 22:20	WG2403269
sec-Butylbenzene	5.95		0.101	0.500	1	11/17/2024 22:20	WG2403269
tert-Butylbenzene	0.211		0.0620	0.200	1	11/17/2024 22:20	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 22:20	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 22:20	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 22:20	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 22:20	WG2403269
Chloroethane	U	C3	0.0432	0.200	1	11/17/2024 22:20	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 22:20	WG2403269
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 22:20	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 22:20	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 22:20	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 22:20	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 22:20	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 22:20	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 22:20	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 22:20	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 22:20	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 22:20	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 22:20	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 22:20	WG2403269
1,2-Dichloroethane	0.165	C3	0.0190	0.100	1	11/17/2024 22:20	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 22:20	WG2403269
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/17/2024 22:20	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 22:20	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 22:20	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 22:20	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 22:20	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 22:20	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 22:20	WG2403269
2,2-Dichloropropane	U	C3	0.0317	0.100	1	11/17/2024 22:20	WG2403269
Di-isopropyl ether	0.0290	J	0.0140	0.0400	1	11/17/2024 22:20	WG2403269
Ethylbenzene	0.136		0.0212	0.100	1	11/17/2024 22:20	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 22:20	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 22:20	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 22:20	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 22:20	WG2403269
Isopropylbenzene	6.54		0.0345	0.100	1	11/17/2024 22:20	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 22:20	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 22:20	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 22:20	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 22:20	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 22:20	WG2403269
Naphthalene	0.643	C3	0.124	0.500	1	11/17/2024 22:20	WG2403269
n-Propylbenzene	12.4		0.0472	0.200	1	11/17/2024 22:20	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 22:20	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 22:20	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 22:20	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 22:20	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 22:20	WG2403269
Toluene	0.203		0.0500	0.200	1	11/17/2024 22:20	WG2403269
1,2,3-Trichlorobenzene	U	C3	0.0250	0.500	1	11/17/2024 22:20	WG2403269
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/17/2024 22:20	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 22:20	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 22:20	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 22:20	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 22:20	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 22:20	WG2403269
1,2,4-Trimethylbenzene	0.188	J	0.0464	0.200	1	11/17/2024 22:20	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 22:20	WG2403269
1,3,5-Trimethylbenzene	0.0560	J	0.0432	0.200	1	11/17/2024 22:20	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 22:20	WG2403269
Vinyl chloride	U	C3	0.0273	0.100	1	11/17/2024 22:20	WG2403269
Xylenes, Total	0.813		0.191	0.260	1	11/17/2024 22:20	WG2403269
(S) Toluene-d8	*106*			*75.0-131*		*11/17/2024 22:20*	WG2403269
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*		*11/17/2024 22:20*	WG2403269
(S) 1,2-Dichloroethane-d4	*91.9*			*70.0-130*		*11/17/2024 22:20*	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	0.919	J	0.548	1.00	1	11/17/2024 22:39	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 22:39	WG2403269
Benzene	0.187		0.0160	0.0400	1	11/17/2024 22:39	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 22:39	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 22:39	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 22:39	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 22:39	WG2403269
Bromomethane	U	C3	0.148	0.500	1	11/17/2024 22:39	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 22:39	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 22:39	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 22:39	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 22:39	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 22:39	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 22:39	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 22:39	WG2403269
Chloroethane	U	C3	0.0432	0.200	1	11/17/2024 22:39	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 22:39	WG2403269
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 22:39	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 22:39	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 22:39	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 22:39	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 22:39	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 22:39	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 22:39	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 22:39	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 22:39	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 22:39	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 22:39	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 22:39	WG2403269
1,2-Dichloroethane	U	C3	0.0190	0.100	1	11/17/2024 22:39	WG2403269
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 22:39	WG2403269
cis-1,2-Dichloroethene	0.111		0.0276	0.100	1	11/17/2024 22:39	WG2403269
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 22:39	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 22:39	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 22:39	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 22:39	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 22:39	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 22:39	WG2403269
2,2-Dichloropropane	U	C3	0.0317	0.100	1	11/17/2024 22:39	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 22:39	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 22:39	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 22:39	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 22:39	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 22:39	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 22:39	WG2403269
Isopropylbenzene	0.141		0.0345	0.100	1	11/17/2024 22:39	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 22:39	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 22:39	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 22:39	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 22:39	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 22:39	WG2403269
Naphthalene	U	C3	0.124	0.500	1	11/17/2024 22:39	WG2403269
n-Propylbenzene	0.0670	J	0.0472	0.200	1	11/17/2024 22:39	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 22:39	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 22:39	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 22:39	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 22:39	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 22:39	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 22:39	WG2403269
1,2,3-Trichlorobenzene	U	C3	0.0250	0.500	1	11/17/2024 22:39	WG2403269
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/17/2024 22:39	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 22:39	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 22:39	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 22:39	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 22:39	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 22:39	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 22:39	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 22:39	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 22:39	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 22:39	WG2403269
Vinyl chloride	8.77	C3	0.0273	0.100	1	11/17/2024 22:39	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 22:39	WG2403269
(S) Toluene-d8	*110*			*75.0-131*		*11/17/2024 22:39*	WG2403269
(S) 4-Bromofluorobenzene	*94.6*			*67.0-138*		*11/17/2024 22:39*	WG2403269
(S) 1,2-Dichloroethane-d4	*92.6*			*70.0-130*		*11/17/2024 22:39*	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.13		0.548	1.00	1	11/17/2024 22:58	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 22:58	WG2403269
Benzene	7.30		0.0160	0.0400	1	11/17/2024 22:58	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 22:58	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 22:58	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 22:58	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 22:58	WG2403269
Bromomethane	U	C3	0.148	0.500	1	11/17/2024 22:58	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 22:58	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 22:58	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 22:58	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 22:58	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 22:58	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 22:58	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 22:58	WG2403269
Chloroethane	U	C3	0.0432	0.200	1	11/17/2024 22:58	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 22:58	WG2403269
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 22:58	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 22:58	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 22:58	WG2403269
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 22:58	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 22:58	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 22:58	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 22:58	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 22:58	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 22:58	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 22:58	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 22:58	WG2403269
1,1-Dichloroethane	0.0960	J	0.0230	0.100	1	11/17/2024 22:58	WG2403269
1,2-Dichloroethane	0.0950	C3 J	0.0190	0.100	1	11/17/2024 22:58	WG2403269
1,1-Dichloroethene	0.126		0.0200	0.100	1	11/17/2024 22:58	WG2403269
cis-1,2-Dichloroethene	55.4		0.0276	0.100	1	11/17/2024 22:58	WG2403269
trans-1,2-Dichloroethene	1.11		0.0572	0.200	1	11/17/2024 22:58	WG2403269
1,2-Dichloropropane	0.0720	J	0.0508	0.200	1	11/17/2024 22:58	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 22:58	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 22:58	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 22:58	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 22:58	WG2403269
2,2-Dichloropropane	U	C3	0.0317	0.100	1	11/17/2024 22:58	WG2403269
Di-isopropyl ether	0.0460		0.0140	0.0400	1	11/17/2024 22:58	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 22:58	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 22:58	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 22:58	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 22:58	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 22:58	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 22:58	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 22:58	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 22:58	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 22:58	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 22:58	WG2403269
Methyl tert-butyl ether	0.0130	J	0.0118	0.0400	1	11/17/2024 22:58	WG2403269
Naphthalene	U	C3	0.124	0.500	1	11/17/2024 22:58	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 22:58	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 22:58	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 22:58	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 22:58	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 22:58	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 22:58	WG2403269
Toluene	0.101	J	0.0500	0.200	1	11/17/2024 22:58	WG2403269
1,2,3-Trichlorobenzene	U	C3	0.0250	0.500	1	11/17/2024 22:58	WG2403269
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/17/2024 22:58	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 22:58	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 22:58	WG2403269
Trichloroethene	U		0.0160	0.0400	1	11/17/2024 22:58	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 22:58	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 22:58	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 22:58	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 22:58	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 22:58	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 22:58	WG2403269
Vinyl chloride	20.5	C3	0.0273	0.100	1	11/17/2024 22:58	WG2403269
Xylenes, Total	U		0.191	0.260	1	11/17/2024 22:58	WG2403269
(S) Toluene-d8	*110*			*75.0-131*		*11/17/2024 22:58*	WG2403269
(S) 4-Bromofluorobenzene	*91.6*			*67.0-138*		*11/17/2024 22:58*	WG2403269
(S) 1,2-Dichloroethane-d4	*90.6*			*70.0-130*		*11/17/2024 22:58*	WG2403269

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	639000		4750	20000	1	11/13/2024 12:12	WG2400690

Sample Narrative:

L1798511-12 WG2400690: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	97200		547	1000	1	11/12/2024 22:03	WG2400159
Nitrate as (N)	U		88.4	100	1	11/12/2024 22:03	WG2400159
Sulfate	U		637	5000	1	11/12/2024 22:03	WG2400159

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	34000		495	1000	1	11/15/2024 21:36	WG2401895

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	13800		113	500	5	11/19/2024 14:47	WG2401735
Manganese	1610		3.50	25.0	5	11/19/2024 14:47	WG2401735

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	29100		2.87	6.78	10	11/14/2024 15:27	WG2401848
Ethane	410		0.296	1.29	1	11/14/2024 13:15	WG2400515
Ethene	2860		0.422	1.27	1	11/14/2024 13:15	WG2400515

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.12		0.548	1.00	1	11/17/2024 23:17	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 23:17	WG2403269
Benzene	0.243		0.0160	0.0400	1	11/17/2024 23:17	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 23:17	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 23:17	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 23:17	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 23:17	WG2403269
Bromomethane	U	C3	0.148	0.500	1	11/17/2024 23:17	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 23:17	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 23:17	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 23:17	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 23:17	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 23:17	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 23:17	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 23:17	WG2403269
Chloroethane	U	C3	0.0432	0.200	1	11/17/2024 23:17	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 23:17	WG2403269
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 23:17	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 23:17	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 23:17	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 23:17	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 23:17	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 23:17	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 23:17	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 23:17	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 23:17	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 23:17	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 23:17	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 23:17	WG2403269
1,2-Dichloroethane	U	C3	0.0190	0.100	1	11/17/2024 23:17	WG2403269
1,1-Dichloroethene	8.60		0.0200	0.100	1	11/17/2024 23:17	WG2403269
cis-1,2-Dichloroethene	5270		6.90	25.0	250	11/24/2024 15:59	WG2407254
trans-1,2-Dichloroethene	9.68		0.0572	0.200	1	11/17/2024 23:17	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 23:17	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 23:17	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 23:17	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 23:17	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 23:17	WG2403269
2,2-Dichloropropane	U	C3	0.0317	0.100	1	11/17/2024 23:17	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 23:17	WG2403269
Ethylbenzene	0.0800	J	0.0212	0.100	1	11/17/2024 23:17	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 23:17	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 23:17	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 23:17	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 23:17	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 23:17	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 23:17	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 23:17	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 23:17	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 23:17	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 23:17	WG2403269
Naphthalene	U	C3	0.124	0.500	1	11/17/2024 23:17	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 23:17	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 23:17	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 23:17	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 23:17	WG2403269
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 23:17	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 23:17	WG2403269
Toluene	0.265		0.0500	0.200	1	11/17/2024 23:17	WG2403269
1,2,3-Trichlorobenzene	U	C3	0.0250	0.500	1	11/17/2024 23:17	WG2403269
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/17/2024 23:17	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 23:17	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 23:17	WG2403269
Trichloroethene	0.0960		0.0160	0.0400	1	11/17/2024 23:17	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 23:17	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 23:17	WG2403269
1,2,4-Trimethylbenzene	0.0930	J	0.0464	0.200	1	11/17/2024 23:17	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 23:17	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 23:17	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 23:17	WG2403269
Vinyl chloride	10300		6.82	25.0	250	11/24/2024 15:59	WG2407254
Xylenes, Total	0.419		0.191	0.260	1	11/17/2024 23:17	WG2403269
(S) Toluene-d8	*110*			*75.0-131*		*11/17/2024 23:17*	WG2403269
(S) Toluene-d8	*103*			*75.0-131*		*11/24/2024 15:59*	WG2407254
(S) 4-Bromofluorobenzene	*93.6*			*67.0-138*		*11/17/2024 23:17*	WG2403269
(S) 4-Bromofluorobenzene	*93.5*			*67.0-138*		*11/24/2024 15:59*	WG2407254

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*91.3*			*70.0-130*		*11/17/2024 23:17*	WG2403269
(S) 1,2-Dichloroethane-d4	*99.6*			*70.0-130*		*11/24/2024 15:59*	WG2407254

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	207000		4750	20000	1	11/13/2024 12:16	WG2400690

Sample Narrative:

L1798511-13 WG2400690: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	22000		547	1000	1	11/12/2024 22:16	WG2400159
Nitrate as (N)	U		88.4	100	1	11/12/2024 22:16	WG2400159
Sulfate	7500		637	5000	1	11/12/2024 22:16	WG2400159

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3800		495	1000	1	11/15/2024 21:51	WG2401895

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	543		22.6	100	1	11/19/2024 14:50	WG2401735
Manganese	668		0.700	5.00	1	11/19/2024 14:50	WG2401735

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	3800		0.287	0.678	1	11/14/2024 13:27	WG2400515
Ethane	4.35		0.296	1.29	1	11/14/2024 13:27	WG2400515
Ethene	99.7		0.422	1.27	1	11/14/2024 13:27	WG2400515

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	0.865	J	0.548	1.00	1	11/17/2024 23:36	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 23:36	WG2403269
Benzene	U		0.0160	0.0400	1	11/17/2024 23:36	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 23:36	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 23:36	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 23:36	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 23:36	WG2403269
Bromomethane	U	C3	0.148	0.500	1	11/17/2024 23:36	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 23:36	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 23:36	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 23:36	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 23:36	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 23:36	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 23:36	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 23:36	WG2403269
Chloroethane	0.440	C3	0.0432	0.200	1	11/17/2024 23:36	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 23:36	WG2403269
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 23:36	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 23:36	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 23:36	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 23:36	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 23:36	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 23:36	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 23:36	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 23:36	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 23:36	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 23:36	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 23:36	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 23:36	WG2403269
1,2-Dichloroethane	U	C3	0.0190	0.100	1	11/17/2024 23:36	WG2403269
1,1-Dichloroethene	1.70		0.0200	0.100	1	11/17/2024 23:36	WG2403269
cis-1,2-Dichloroethene	40.1		0.0276	0.100	1	11/24/2024 15:40	WG2407254
trans-1,2-Dichloroethene	0.491		0.0572	0.200	1	11/17/2024 23:36	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 23:36	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 23:36	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 23:36	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 23:36	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 23:36	WG2403269
2,2-Dichloropropane	U	C3	0.0317	0.100	1	11/17/2024 23:36	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 23:36	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 23:36	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 23:36	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 23:36	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 23:36	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 23:36	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 23:36	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 23:36	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 23:36	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 23:36	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 23:36	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 23:36	WG2403269
Naphthalene	U	C3	0.124	0.500	1	11/17/2024 23:36	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 23:36	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 23:36	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 23:36	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 23:36	WG2403269
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 23:36	WG2403269
Tetrachloroethene	49.6	C5	0.0280	0.100	1	11/17/2024 23:36	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 23:36	WG2403269
1,2,3-Trichlorobenzene	U	C3	0.0250	0.500	1	11/17/2024 23:36	WG2403269
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/17/2024 23:36	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 23:36	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 23:36	WG2403269
Trichloroethene	56.1		0.0160	0.0400	1	11/17/2024 23:36	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 23:36	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 23:36	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 23:36	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 23:36	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 23:36	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 23:36	WG2403269
Vinyl chloride	75.1		0.0273	0.100	1	11/24/2024 15:40	WG2407254
Xylenes, Total	U		0.191	0.260	1	11/17/2024 23:36	WG2403269
(S) Toluene-d8	*109*			*75.0-131*		*11/17/2024 23:36*	WG2403269
(S) Toluene-d8	*113*			*75.0-131*		*11/24/2024 15:40*	WG2407254
(S) 4-Bromofluorobenzene	*90.1*			*67.0-138*		*11/17/2024 23:36*	WG2403269
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*11/24/2024 15:40*	WG2407254

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*93.5*			*70.0-130*		*11/17/2024 23:36*	WG2403269
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/24/2024 15:40*	WG2407254

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	622000		4750	20000	1	11/13/2024 12:21	WG2400690

Sample Narrative:

L1798511-14 WG2400690: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	84100		547	1000	1	11/12/2024 22:30	WG2400159
Nitrate as (N)	U		88.4	100	1	11/12/2024 22:30	WG2400159
Sulfate	15300		637	5000	1	11/12/2024 22:30	WG2400159

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	14200		495	1000	1	11/15/2024 22:08	WG2401895

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3260		22.6	100	1	11/19/2024 14:53	WG2401735
Manganese	1550		0.700	5.00	1	11/19/2024 14:53	WG2401735

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	32200		2.87	6.78	10	11/14/2024 15:32	WG2401848
Ethane	4.92		0.296	1.29	1	11/14/2024 13:32	WG2400515
Ethene	419		0.422	1.27	1	11/14/2024 13:32	WG2400515

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	0.756	J	0.548	1.00	1	11/17/2024 23:56	WG2403269
Acrylonitrile	U		0.0760	0.500	1	11/17/2024 23:56	WG2403269
Benzene	U		0.0160	0.0400	1	11/17/2024 23:56	WG2403269
Bromobenzene	U		0.0420	0.500	1	11/17/2024 23:56	WG2403269
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 23:56	WG2403269
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 23:56	WG2403269
Bromoform	U		0.239	1.00	1	11/17/2024 23:56	WG2403269
Bromomethane	U	C3	0.148	0.500	1	11/17/2024 23:56	WG2403269
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 23:56	WG2403269
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 23:56	WG2403269
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 23:56	WG2403269
Carbon disulfide	U		0.162	0.500	1	11/17/2024 23:56	WG2403269
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 23:56	WG2403269
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 23:56	WG2403269
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 23:56	WG2403269
Chloroethane	U	C3	0.0432	0.200	1	11/17/2024 23:56	WG2403269
Chloroform	U		0.0166	0.100	1	11/17/2024 23:56	WG2403269
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 23:56	WG2403269
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 23:56	WG2403269
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 23:56	WG2403269

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 23:56	WG2403269
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 23:56	WG2403269
Dibromomethane	U		0.0400	0.200	1	11/17/2024 23:56	WG2403269
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 23:56	WG2403269
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 23:56	WG2403269
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 23:56	WG2403269
trans-1,4-Dichloro-2-butene	U	J3	0.0560	0.200	1	11/17/2024 23:56	WG2403269
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 23:56	WG2403269
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 23:56	WG2403269
1,2-Dichloroethane	U	C3	0.0190	0.100	1	11/17/2024 23:56	WG2403269
1,1-Dichloroethene	0.822		0.0200	0.100	1	11/17/2024 23:56	WG2403269
cis-1,2-Dichloroethene	279		0.690	2.50	25	11/24/2024 16:18	WG2407254
trans-1,2-Dichloroethene	1.38		0.0572	0.200	1	11/17/2024 23:56	WG2403269
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 23:56	WG2403269
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 23:56	WG2403269
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 23:56	WG2403269
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 23:56	WG2403269
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 23:56	WG2403269
2,2-Dichloropropane	U	C3	0.0317	0.100	1	11/17/2024 23:56	WG2403269
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 23:56	WG2403269
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 23:56	WG2403269
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 23:56	WG2403269
2-Hexanone	U		0.400	1.00	1	11/17/2024 23:56	WG2403269
n-Hexane	U		0.0424	0.200	1	11/17/2024 23:56	WG2403269
Iodomethane	U		0.242	0.500	1	11/17/2024 23:56	WG2403269
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 23:56	WG2403269
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 23:56	WG2403269
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 23:56	WG2403269
Methylene Chloride	U		0.265	1.00	1	11/17/2024 23:56	WG2403269
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 23:56	WG2403269
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 23:56	WG2403269
Naphthalene	U	C3	0.124	0.500	1	11/17/2024 23:56	WG2403269
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 23:56	WG2403269
Styrene	U		0.109	0.500	1	11/17/2024 23:56	WG2403269
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 23:56	WG2403269
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 23:56	WG2403269
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 23:56	WG2403269
Tetrachloroethene	U		0.0280	0.100	1	11/17/2024 23:56	WG2403269
Toluene	U		0.0500	0.200	1	11/17/2024 23:56	WG2403269
1,2,3-Trichlorobenzene	U	C3	0.0250	0.500	1	11/17/2024 23:56	WG2403269
1,2,4-Trichlorobenzene	U	C3	0.193	0.500	1	11/17/2024 23:56	WG2403269
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 23:56	WG2403269
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 23:56	WG2403269
Trichloroethene	0.0290	J	0.0160	0.0400	1	11/17/2024 23:56	WG2403269
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 23:56	WG2403269
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 23:56	WG2403269
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 23:56	WG2403269
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 23:56	WG2403269
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 23:56	WG2403269
Vinyl acetate	U		0.141	0.500	1	11/17/2024 23:56	WG2403269
Vinyl chloride	1500		0.682	2.50	25	11/24/2024 16:18	WG2407254
Xylenes, Total	U		0.191	0.260	1	11/17/2024 23:56	WG2403269
(S) Toluene-d8	*108*			*75.0-131*		*11/17/2024 23:56*	WG2403269
(S) Toluene-d8	*104*			*75.0-131*		*11/24/2024 16:18*	WG2407254
(S) 4-Bromofluorobenzene	*94.5*			*67.0-138*		*11/17/2024 23:56*	WG2403269
(S) 4-Bromofluorobenzene	*96.6*			*67.0-138*		*11/24/2024 16:18*	WG2407254

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*90.4*			*70.0-130*		*11/17/2024 23:56*	WG2403269
(S) 1,2-Dichloroethane-d4	*99.2*			*70.0-130*		*11/24/2024 16:18*	WG2407254

Method Blank (MB)

(MB) R4145495-2 11/13/24 09:37

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1795711-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1795711-06 11/13/24 11:02 • (DUP) R4145495-4 11/13/24 11:06

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	569000	574000	1	0.915		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1798666-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1798666-01 11/13/24 13:03 • (DUP) R4145495-6 11/13/24 13:07

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	19300	19600	1	1.44	J	20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4145495-1 11/13/24 09:30

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

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4146161-1 11/12/24 20:42

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

L1798456-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1798456-01 11/12/24 21:09 • (DUP) R4146161-3 11/13/24 02:33

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2430	2590	1	6.42		15
Nitrate as (N)	746	764	1	2.32		15
Sulfate	26800	27100	1	1.07		15

L1798518-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1798518-11 11/13/24 00:18 • (DUP) R4146161-5 11/13/24 03:00

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	36000	35200	10	2.04		15
Nitrate as (N)	1910	1900	10	0.573		15

L1798518-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1798518-11 11/13/24 01:39 • (DUP) R4146161-6 11/13/24 03:14

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	3800000	3920000	100	3.00		15

Laboratory Control Sample (LCS)

(LCS) R4146161-2 11/12/24 20:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	39800	99.5	80.0-120	
Nitrate as (N)	8000	7790	97.4	80.0-120	
Sulfate	40000	40000	99.9	80.0-120	

L1798456-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1798456-01 11/12/24 21:09 • (MS) R4146161-4 11/13/24 02:47

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	2430	42200	99.5	1	80.0-120	
Nitrate as (N)	8000	746	8730	99.8	1	80.0-120	
Sulfate	40000	26800	63000	90.5	1	80.0-120	

L1798518-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1798518-11 11/13/24 00:18 • (MS) R4146161-7 11/13/24 03:27 • (MSD) R4146161-8 11/13/24 03:41

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	36000	65800	65800	74.7	74.5	10	80.0-120	J6	J6	0.0901	15
Nitrate as (N)	8000	1910	7390	7700	68.5	72.3	10	80.0-120	J6	J6	4.12	15
Sulfate	40000	3990000	3170000	3220000	0.000	0.000	10	80.0-120	E V	E V	1.44	15

QUALITY CONTROL SUMMARY

L1798511-01,12,13,14

Method Blank (MB)

(MB) R4146758-2 11/15/24 13:13

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

L1798374-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1798374-02 11/15/24 14:59 • (DUP) R4146758-5 11/15/24 15:16

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	23000	23100	1	0.651		20

L1798489-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1798489-02 11/15/24 20:35 • (DUP) R4146758-8 11/15/24 20:49

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	1910	1910	1	0.262		20

Laboratory Control Sample (LCS)

(LCS) R4146758-1 11/15/24 13:01

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25000	25400	101	85.0-115	

L1797892-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1797892-06 11/15/24 13:49 • (MS) R4146758-3 11/15/24 14:07 • (MSD) R4146758-4 11/15/24 14:25

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	8010	35000	34800	108	107	1	85.0-115			0.401	20

L1798489-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1798489-01 11/15/24 19:37 • (MS) R4146758-6 11/15/24 19:55 • (MSD) R4146758-7 11/15/24 20:21

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	1810	28800	28900	108	108	1	85.0-115			0.347	20

Method Blank (MB)

(MB) R4147967-1 11/19/24 13:56

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

Laboratory Control Sample (LCS)

(LCS) R4147967-2 11/19/24 13:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	1000	996	99.6	80.0-120	
Manganese	50.0	50.8	102	80.0-120	

L1798518-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1798518-11 11/19/24 14:02 • (MS) R4147967-4 11/19/24 14:08 • (MSD) R4147967-5 11/19/24 14:11

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	1000	U	984	950	98.4	95.0	1	75.0-125			3.49	20
Manganese	50.0	21.1	70.3	69.8	98.3	97.5	1	75.0-125			0.622	20

Method Blank (MB)

(MB) R4146026-2 11/14/24 09:40

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

L1798005-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1798005-05 11/14/24 10:32 • (DUP) R4146026-3 11/14/24 11:30

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

L1798511-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1798511-01 11/14/24 13:10 • (DUP) R4146026-4 11/14/24 13:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	241	242	1	0.414		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) R4146026-1 11/14/24 09:32 • (LCSD) R4146026-7 11/14/24 14:21

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	62.7	62.8	92.5	92.6	85.0-115			0.159	20
Ethane	129	119	119	92.2	92.2	85.0-115			0.000	20
Ethene	127	119	120	93.7	94.5	85.0-115			0.837	20

L1798118-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1798118-06 11/14/24 11:45 • (MS) R4146026-5 11/14/24 13:46 • (MSD) R4146026-6 11/14/24 14:01

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methane	67.8	U	63.0	63.2	92.9	93.2	1	85.0-115			0.317	20
Ethane	129	U	120	119	93.0	92.2	1	85.0-115			0.837	20
Ethene	127	U	121	120	95.3	94.5	1	85.0-115			0.830	20

Method Blank (MB)

(MB) R4146142-2 11/14/24 14:43

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

L1798105-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1798105-10 11/14/24 14:53 • (DUP) R4146142-3 11/14/24 15:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	10100	9940	10	1.60		20

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

(LCS) R4146142-1 11/14/24 14:38 • (LCSD) R4146142-4 11/14/24 16:20

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	62.9	65.7	92.8	96.9	85.0-115			4.35	20

Method Blank (MB)

(MB) R4149798-3 11/17/24 19:01

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

Method Blank (MB)

(MB) R4149798-3 11/17/24 19:01

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	*108*			*75.0-131*
(S) 4-Bromofluorobenzene	*92.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*92.6*			*70.0-130*

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

(LCS) R4149798-1 11/17/24 17:44 • (LCSD) R4149798-2 11/17/24 18:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	27.1	29.1	108	116	10.0-160			7.12	31
Acrylonitrile	25.0	31.1	31.4	124	126	45.0-153			0.960	22
Benzene	5.00	4.22	4.23	84.4	84.6	70.0-123			0.237	20
Bromobenzene	5.00	5.45	5.42	109	108	73.0-121			0.552	20
Bromochloromethane	5.00	4.67	4.61	93.4	92.2	77.0-128			1.29	20
Bromodichloromethane	5.00	4.30	4.36	86.0	87.2	73.0-121			1.39	20
Bromoform	5.00	6.34	6.26	127	125	64.0-132			1.27	20
Bromomethane	5.00	3.52	3.52	70.4	70.4	56.0-147			0.000	20
n-Butylbenzene	5.00	4.05	4.02	81.0	80.4	68.0-135			0.744	20
sec-Butylbenzene	5.00	4.50	4.50	90.0	90.0	74.0-130			0.000	20
tert-Butylbenzene	5.00	5.55	5.48	111	110	75.0-127			1.27	20
Carbon disulfide	5.00	4.13	4.17	82.6	83.4	56.0-133			0.964	20
Carbon tetrachloride	5.00	4.28	4.18	85.6	83.6	66.0-128			2.36	20
Chlorobenzene	5.00	4.92	4.90	98.4	98.0	76.0-128			0.407	20
Chlorodibromomethane	5.00	5.41	5.32	108	106	74.0-127			1.68	20
Chloroethane	5.00	3.81	3.97	76.2	79.4	61.0-134			4.11	20
Chloroform	5.00	4.09	4.04	81.8	80.8	72.0-123			1.23	20
Chloromethane	5.00	3.45	3.43	69.0	68.6	51.0-138			0.581	20
2-Chlorotoluene	5.00	5.02	4.87	100	97.4	75.0-124			3.03	20
4-Chlorotoluene	5.00	4.60	4.52	92.0	90.4	75.0-124			1.75	20
1,2-Dibromo-3-Chloropropane	5.00	4.47	4.61	89.4	92.2	59.0-130			3.08	20
1,2-Dibromoethane	5.00	5.48	5.34	110	107	74.0-128			2.59	20
Dibromomethane	5.00	4.22	4.25	84.4	85.0	75.0-122			0.708	20
1,2-Dichlorobenzene	5.00	4.75	4.74	95.0	94.8	76.0-124			0.211	20
1,3-Dichlorobenzene	5.00	4.99	4.86	99.8	97.2	76.0-125			2.64	20
1,4-Dichlorobenzene	5.00	4.69	4.65	93.8	93.0	77.0-121			0.857	20
trans-1,4-Dichloro-2-butene	5.00	4.37	5.68	87.4	114	45.0-143		J3	26.1	20
Dichlorodifluoromethane	5.00	5.50	5.06	110	101	43.0-156			8.33	20
1,1-Dichloroethane	5.00	4.47	4.56	89.4	91.2	70.0-127			1.99	20
1,2-Dichloroethane	5.00	3.84	3.79	76.8	75.8	65.0-131			1.31	20
1,1-Dichloroethene	5.00	4.44	4.37	88.8	87.4	65.0-131			1.59	20
cis-1,2-Dichloroethene	5.00	4.28	4.26	85.6	85.2	73.0-125			0.468	20
trans-1,2-Dichloroethene	5.00	4.51	4.58	90.2	91.6	71.0-125			1.54	20
1,2-Dichloropropane	5.00	4.45	4.62	89.0	92.4	74.0-125			3.75	20
1,1-Dichloropropene	5.00	4.33	4.18	86.6	83.6	73.0-125			3.53	20
1,3-Dichloropropane	5.00	5.16	5.01	103	100	80.0-125			2.95	20
cis-1,3-Dichloropropene	5.00	4.10	4.10	82.0	82.0	76.0-127			0.000	20
trans-1,3-Dichloropropene	5.00	4.79	4.72	95.8	94.4	73.0-127			1.47	20
2,2-Dichloropropane	5.00	3.92	4.05	78.4	81.0	59.0-135			3.26	20
Di-isopropyl ether	5.00	4.43	4.40	88.6	88.0	60.0-136			0.680	20

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

(LCS) R4149798-1 11/17/24 17:44 • (LCSD) R4149798-2 11/17/24 18:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	5.06	5.08	101	102	74.0-126			0.394	20
Hexachloro-1,3-butadiene	5.00	4.29	4.50	85.8	90.0	57.0-150			4.78	20
2-Hexanone	25.0	27.4	27.5	110	110	54.0-147			0.364	20
n-Hexane	5.00	4.98	4.73	99.6	94.6	55.0-137			5.15	20
Iodomethane	25.0	20.9	21.0	83.6	84.0	74.0-134			0.477	20
Isopropylbenzene	5.00	4.90	4.74	98.0	94.8	72.0-127			3.32	20
p-Isopropyltoluene	5.00	4.65	4.55	93.0	91.0	72.0-133			2.17	20
2-Butanone (MEK)	25.0	24.6	26.9	98.4	108	30.0-160			8.93	24
Methylene Chloride	5.00	4.52	4.50	90.4	90.0	68.0-123			0.443	20
4-Methyl-2-pentanone (MIBK)	25.0	27.7	27.8	111	111	56.0-143			0.360	20
Methyl tert-butyl ether	5.00	4.37	4.23	87.4	84.6	66.0-132			3.26	20
Naphthalene	5.00	3.67	3.96	73.4	79.2	59.0-130			7.60	20
n-Propylbenzene	5.00	4.79	4.31	95.8	86.2	74.0-126			10.5	20
Styrene	5.00	5.05	5.01	101	100	72.0-127			0.795	20
1,1,1,2-Tetrachloroethane	5.00	5.31	5.14	106	103	74.0-129			3.25	20
1,1,2,2-Tetrachloroethane	5.00	4.67	4.58	93.4	91.6	68.0-128			1.95	20
1,1,2-Trichlorotrifluoroethane	5.00	4.20	4.31	84.0	86.2	61.0-139			2.59	20
Tetrachloroethene	5.00	6.05	5.69	121	114	70.0-136			6.13	20
Toluene	5.00	4.90	4.87	98.0	97.4	75.0-121			0.614	20
1,2,3-Trichlorobenzene	5.00	3.84	4.00	76.8	80.0	59.0-139			4.08	20
1,2,4-Trichlorobenzene	5.00	3.83	3.74	76.6	74.8	62.0-137			2.38	20
1,1,1-Trichloroethane	5.00	4.16	4.11	83.2	82.2	69.0-126			1.21	20
1,1,2-Trichloroethane	5.00	5.26	5.01	105	100	78.0-123			4.87	20
Trichloroethene	5.00	4.73	4.68	94.6	93.6	76.0-126			1.06	20
Trichlorofluoromethane	5.00	4.50	4.25	90.0	85.0	61.0-142	J	J	5.71	20
1,2,3-Trichloropropane	5.00	4.97	5.09	99.4	102	67.0-129			2.39	20
1,2,4-Trimethylbenzene	5.00	4.77	4.45	95.4	89.0	70.0-126			6.94	20
1,2,3-Trimethylbenzene	5.00	4.47	4.44	89.4	88.8	74.0-124			0.673	20
1,3,5-Trimethylbenzene	5.00	4.73	4.69	94.6	93.8	73.0-127			0.849	20
Vinyl acetate	25.0	20.4	19.9	81.6	79.6	43.0-159			2.48	20
Vinyl chloride	5.00	3.77	3.75	75.4	75.0	63.0-134			0.532	20
Xylenes, Total	15.0	12.8	14.2	85.3	94.7	72.0-127			10.4	20
(S) Toluene-d8				*111*	*111*	*75.0-131*				
(S) 4-Bromofluorobenzene				*92.8*	*90.6*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*90.5*	*92.0*	*70.0-130*				

Method Blank (MB)

(MB) R4150415-3 11/24/24 11:48

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*92.1*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*96.6*			*70.0-130*

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

(LCS) R4150415-1 11/24/24 10:31 • (LCSD) R4150415-2 11/24/24 10:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
cis-1,2-Dichloroethene	5.00	4.32	4.73	86.4	94.6	73.0-125			9.06	20
Vinyl chloride	5.00	5.90	6.05	118	121	63.0-134			2.51	20
(S) Toluene-d8				*102*	*101*	*75.0-131*				
(S) 4-Bromofluorobenzene				*97.1*	*94.0*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*100*	*103*	*70.0-130*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
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

Report to:
Daniel Balbiani

Email To:
Daniel.balbiani@nv5.com;sam.graber@nv5.com

Project Description:
American Linen

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413001.10.701.02

Lab Project #
PESENVSWA-ALP

Collected by (print):
D. Del Giudice

Site/Facility ID #

P.O. #
443022-1413001.10.701

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Date Results Needed

Quote #

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**Nitr,chl,sulf 9056 250mlHDPE-NoPres	ALK 2320B 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	FE,MN total 6020 250mlHDPE-HNO3	TOC 9060 250mlAmb-HCl	VOCS 8260ULL 40mlAmb-HCl					Remarks	Sample # (lab only)
MW-155-111124	G	GW	—	11-11-24	820	9	X	X	X	X	X	X						01
MW-148-111124		GW			924	3						X						02
MW-315-111124		GW			1055	3						X						03
MW-316-111124		GW			1205	3						X						04
MW-325-111124		GW			1330	3						X						05
MW-326R-111124		GW			1415	3						X						06
MW-331-111124		GW			1040	3						X						07
MW126-111124		GW			1132	3						X						08
SCL-MW101-111124		GW			1238	3						X						09
MW-309-111124	↓	GW	↓	↓	1345	3						X						10

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

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

SDG # L1496691
E031

Acctnum: **PESENVSWA**
Template: **T262759**
Prelogin: **P1110133**
PM: **3768 - Jordan Dozier**
PB: LU 10/23/24
Shipped Via: **FedEX Ground**

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

Remarks: Tier 2 lab QA/QC (Batch QC ok)

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4212 6472 7549

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
	11/11/24	1514		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.4 °C 4.7+0=4.7 Bottles Received: 66	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11-12-24 Time: 0900	Hold: Condition: NCF / OK

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

Report to:
Daniel Balbiani

Email To:
Daniel.balbiani@nv5.com;sam.graber@nv5.com

Project Description:
American Linen

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413001.10.701.02

Lab Project #
PESENVSWA-ALP

Collected by (print):
D. Del Giudice

Site/Facility ID #

P.O. #
443022-1413001.10.701

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**Nitr,chl,sulf 9056 250mlHDPE-NoPres	ALK 2320B 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	FE,MN total 6020 250mlHDPE-HNO3	TOC 9060 250mlAmb-HCl	VOCS 8260ULL 40mlAmb-HCl					Remarks	Sample # (lab only)
MW-308-111124	G	GW	—	11-11-24	1420	3						X						-4
MW-181-111124	↓	GW	↓	↓	1202	9	X	X	X	X	X	X						-12
MW-184-111124	↓	GW	↓	↓	1210	9	X	X	X	X	X	X						-13
MW-183-111124	↓	GW	↓	↓	1450	9	X	X	X	X	X	X						-14
TB-111124	↓	GW	↓	↓	—	1											HOLD	-15
		GW																
		GW																
		GW																
		GW																
		GW																

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

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

SDG # L1548511

Table #

Acctnum: **PESENVSWA**
Template: **T262759**
Prelogin: **P1110133**
PM: **3768 - Jordan Dozier**
PB: LL 10/23/24

Shipped Via: **FedEX Ground**

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

Remarks: Tier 2 QA/QC
(Batch QC ok)

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4212 6472 7549

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
	11/11/24	1514		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.4 °C 4.7+0=4.7 Bottles Received: 66	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Li Dawn 17	Date: 11-12-24 Time: 0900	Hold: Condition: NCF / OK

ANALYTICAL REPORT

December 13, 2024

Revised Report

PES Environmental, Inc.- WA

Sample Delivery Group:	L1799093
Samples Received:	11/13/2024
Project Number:	1413001.10.701.02
Description:	American Linen

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

Entire Report Reviewed By:

J Dozier

Jordan Dozier
Project Manager

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MW108-111224 L1799093-01 GW

Collected by: D. Del G | Collected date/time: 11/12/24 12:50 | Received date/time: 11/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2401465	1	11/14/24 11:04	11/14/24 11:04	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401053	1	11/14/24 07:53	11/14/24 07:53	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401053	1	11/19/24 17:59	11/19/24 17:59	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2403031	1	11/17/24 05:22	11/17/24 05:22	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404347	1	11/20/24 09:39	11/21/24 15:53	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2401584	1	11/17/24 16:25	11/17/24 16:25	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403424	10	11/17/24 21:05	11/17/24 21:05	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403355	20	11/17/24 23:09	11/17/24 23:09	JBE	Mt. Juliet, TN

MW-997-111224 L1799093-02 GW

Collected by: D. Del G | Collected date/time: 11/12/24 12:12 | Received date/time: 11/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2401465	1	11/14/24 11:08	11/14/24 11:08	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401053	1	11/14/24 08:07	11/14/24 08:07	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401053	1	11/19/24 18:17	11/19/24 18:17	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2403031	1	11/17/24 05:46	11/17/24 05:46	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404347	1	11/20/24 09:39	11/21/24 15:56	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2401584	1	11/17/24 16:32	11/17/24 16:32	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403355	1	11/17/24 19:20	11/17/24 19:20	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406168	20	11/25/24 17:28	11/25/24 17:28	JBE	Mt. Juliet, TN

MW-314-111224 L1799093-03 GW

Collected by: D. Del G | Collected date/time: 11/12/24 08:33 | Received date/time: 11/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2401465	1	11/14/24 11:13	11/14/24 11:13	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2400994	1	11/14/24 02:50	11/14/24 02:50	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2403031	1	11/17/24 06:05	11/17/24 06:05	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404347	1	11/20/24 09:39	11/21/24 15:59	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2401584	1	11/17/24 16:43	11/17/24 16:43	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406165	1	11/23/24 15:56	11/23/24 15:56	DWR	Mt. Juliet, TN

MW110-111224 L1799093-04 GW

Collected by: D. Del G | Collected date/time: 11/12/24 09:12 | Received date/time: 11/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2401465	1	11/14/24 11:36	11/14/24 11:36	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2400994	1	11/14/24 03:17	11/14/24 03:17	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2404190	5	11/19/24 19:00	11/19/24 19:00	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404347	1	11/20/24 09:39	11/21/24 16:03	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2401584	1	11/17/24 16:47	11/17/24 16:47	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403355	10	11/17/24 23:47	11/17/24 23:47	JBE	Mt. Juliet, TN

MW-179-111224 L1799093-05 GW

Collected by: D. Del G | Collected date/time: 11/12/24 14:08 | Received date/time: 11/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2401534	1	11/14/24 14:16	11/14/24 14:16	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401053	1	11/14/24 08:20	11/14/24 08:20	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401053	1	11/19/24 18:34	11/19/24 18:34	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401053	5	11/14/24 11:14	11/14/24 11:14	ZSA	Mt. Juliet, TN

MW-179-111224 L1799093-05 GW

Collected by: D. Del G | Collected date/time: 11/12/24 14:08 | Received date/time: 11/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9060A	WG2403031	1	11/17/24 06:56	11/17/24 06:56	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404347	1	11/20/24 09:39	11/21/24 17:00	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2401584	1	11/17/24 16:51	11/17/24 16:51	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403424	10	11/17/24 22:06	11/17/24 22:06	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403355	50	11/18/24 00:06	11/18/24 00:06	JBE	Mt. Juliet, TN

MW-177-111224 L1799093-06 GW

Collected by: D. Del G | Collected date/time: 11/12/24 14:47 | Received date/time: 11/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2401465	1	11/14/24 11:40	11/14/24 11:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401053	1	11/14/24 08:33	11/14/24 08:33	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401053	1	11/19/24 18:52	11/19/24 18:52	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2403031	1	11/17/24 07:20	11/17/24 07:20	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404347	1	11/20/24 09:39	11/21/24 17:03	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2401584	1	11/17/24 17:06	11/17/24 17:06	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403424	10	11/17/24 22:25	11/17/24 22:25	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403355	1	11/17/24 19:39	11/17/24 19:39	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406168	500	11/25/24 17:48	11/25/24 17:48	JBE	Mt. Juliet, TN

MW-180-111224 L1799093-07 GW

Collected by: D. Del G | Collected date/time: 11/12/24 15:20 | Received date/time: 11/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2404160	1	11/19/24 10:06	11/19/24 10:06	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401053	1	11/14/24 08:47	11/14/24 08:47	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401053	1	11/19/24 19:09	11/19/24 19:09	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401053	5	11/14/24 11:41	11/14/24 11:41	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2403031	1	11/17/24 07:47	11/17/24 07:47	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404347	1	11/20/24 09:39	11/21/24 17:06	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2401584	1	11/17/24 17:14	11/17/24 17:14	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403424	10	11/17/24 22:33	11/17/24 22:33	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403355	25	11/18/24 00:25	11/18/24 00:25	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406168	250	11/25/24 18:08	11/25/24 18:08	JBE	Mt. Juliet, TN

MW122-111224 L1799093-08 GW

Collected by: D. Del G | Collected date/time: 11/12/24 10:27 | Received date/time: 11/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403355	1	11/17/24 19:58	11/17/24 19:58	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406168	1	11/25/24 15:10	11/25/24 15:10	JBE	Mt. Juliet, TN

MW-310-111224 L1799093-09 GW

Collected by: D. Del G | Collected date/time: 11/12/24 11:37 | Received date/time: 11/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2403355	1	11/17/24 20:17	11/17/24 20:17	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406168	1	11/25/24 15:30	11/25/24 15:30	JBE	Mt. Juliet, TN

MW-313-111224 L1799093-10 GW

Collected by: D. Del G | Collected date/time: 11/12/24 08:05 | Received date/time: 11/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405418	1	11/20/24 00:07	11/20/24 00:07	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406076	1	11/24/24 13:07	11/24/24 13:07	JAH	Mt. Juliet, TN

MW127-111224 L1799093-11 GW

Collected by: D. Del G | Collected date/time: 11/12/24 10:44 | Received date/time: 11/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405418	1	11/19/24 23:47	11/19/24 23:47	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406076	1	11/24/24 13:26	11/24/24 13:26	JAH	Mt. Juliet, TN

FMW-141-111224 L1799093-12 GW

Collected by: D. Del G | Collected date/time: 11/12/24 11:41 | Received date/time: 11/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405418	1	11/19/24 23:27	11/19/24 23:27	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406076	10	11/24/24 14:05	11/24/24 14:05	JAH	Mt. Juliet, TN

MW-311-111224 L1799093-13 GW

Collected by: D. Del G | Collected date/time: 11/12/24 12:20 | Received date/time: 11/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405418	1	11/19/24 23:07	11/19/24 23:07	JAH	Mt. Juliet, TN

TB-111224 L1799093-14 GW

Collected by: D. Del G | Collected date/time: 11/12/24 00:00 | Received date/time: 11/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405418	1	11/19/24 20:49	11/19/24 20:49	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: 11/30/24 10:49

Project Narrative

ID

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	517000		4750	20000	1	11/14/2024 11:04	WG2401465

Sample Narrative:

L1799093-01 WG2401465: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	24300		547	1000	1	11/14/2024 07:53	WG2401053
Nitrate as (N)	U		88.4	100	1	11/14/2024 07:53	WG2401053
Sulfate	16900		637	5000	1	11/19/2024 17:59	WG2401053

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7740		495	1000	1	11/17/2024 05:22	WG2403031

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	12500		22.6	100	1	11/21/2024 15:53	WG2404347
Manganese	1500		0.700	5.00	1	11/21/2024 15:53	WG2404347

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	6320		2.87	6.78	10	11/17/2024 21:05	WG2403424
Ethane	47.1		0.296	1.29	1	11/17/2024 16:25	WG2401584
Ethene	16.5		0.422	1.27	1	11/17/2024 16:25	WG2401584

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	21.1	B C5	11.0	20.0	20	11/17/2024 23:09	WG2403355
Acrylonitrile	U	J4	1.52	10.0	20	11/17/2024 23:09	WG2403355
Benzene	2.34		0.320	0.800	20	11/17/2024 23:09	WG2403355
Bromobenzene	U		0.840	10.0	20	11/17/2024 23:09	WG2403355
Bromochloromethane	U		0.904	4.00	20	11/17/2024 23:09	WG2403355
Bromodichloromethane	U		0.630	2.00	20	11/17/2024 23:09	WG2403355
Bromoform	U		4.78	20.0	20	11/17/2024 23:09	WG2403355
Bromomethane	U		2.96	10.0	20	11/17/2024 23:09	WG2403355
n-Butylbenzene	U		3.06	10.0	20	11/17/2024 23:09	WG2403355
sec-Butylbenzene	U		2.02	10.0	20	11/17/2024 23:09	WG2403355
tert-Butylbenzene	U		1.24	4.00	20	11/17/2024 23:09	WG2403355
Carbon disulfide	U		3.24	10.0	20	11/17/2024 23:09	WG2403355
Carbon tetrachloride	U		0.864	4.00	20	11/17/2024 23:09	WG2403355
Chlorobenzene	U		0.458	2.00	20	11/17/2024 23:09	WG2403355
Chlorodibromomethane	U		0.360	2.00	20	11/17/2024 23:09	WG2403355
Chloroethane	U		0.864	4.00	20	11/17/2024 23:09	WG2403355
Chloroform	U		0.332	2.00	20	11/17/2024 23:09	WG2403355
Chloromethane	U	C3	1.11	10.0	20	11/17/2024 23:09	WG2403355
2-Chlorotoluene	U		0.736	2.00	20	11/17/2024 23:09	WG2403355
4-Chlorotoluene	U		0.904	4.00	20	11/17/2024 23:09	WG2403355

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		4.08	20.0	20	11/17/2024 23:09	WG2403355
1,2-Dibromoethane	U		0.420	2.00	20	11/17/2024 23:09	WG2403355
Dibromomethane	U		0.800	4.00	20	11/17/2024 23:09	WG2403355
1,2-Dichlorobenzene	U		1.16	4.00	20	11/17/2024 23:09	WG2403355
1,3-Dichlorobenzene	U		1.36	4.00	20	11/17/2024 23:09	WG2403355
1,4-Dichlorobenzene	U		1.58	4.00	20	11/17/2024 23:09	WG2403355
trans-1,4-Dichloro-2-butene	U		1.12	4.00	20	11/17/2024 23:09	WG2403355
Dichlorodifluoromethane	U		0.654	4.00	20	11/17/2024 23:09	WG2403355
1,1-Dichloroethane	U		0.460	2.00	20	11/17/2024 23:09	WG2403355
1,2-Dichloroethane	U		0.380	2.00	20	11/17/2024 23:09	WG2403355
1,1-Dichloroethene	1.06	J	0.400	2.00	20	11/17/2024 23:09	WG2403355
cis-1,2-Dichloroethene	507		0.552	2.00	20	11/17/2024 23:09	WG2403355
trans-1,2-Dichloroethene	2.32	J	1.14	4.00	20	11/17/2024 23:09	WG2403355
1,2-Dichloropropane	U		1.02	4.00	20	11/17/2024 23:09	WG2403355
1,1-Dichloropropene	U		0.560	2.00	20	11/17/2024 23:09	WG2403355
1,3-Dichloropropane	U		1.40	4.00	20	11/17/2024 23:09	WG2403355
cis-1,3-Dichloropropene	U		0.542	2.00	20	11/17/2024 23:09	WG2403355
trans-1,3-Dichloropropene	U		1.22	4.00	20	11/17/2024 23:09	WG2403355
2,2-Dichloropropane	U	J4	0.634	2.00	20	11/17/2024 23:09	WG2403355
Di-isopropyl ether	U		0.280	0.800	20	11/17/2024 23:09	WG2403355
Ethylbenzene	U		0.424	2.00	20	11/17/2024 23:09	WG2403355
Hexachloro-1,3-butadiene	U		10.2	20.0	20	11/17/2024 23:09	WG2403355
2-Hexanone	U		8.00	20.0	20	11/17/2024 23:09	WG2403355
n-Hexane	U		0.848	4.00	20	11/17/2024 23:09	WG2403355
Iodomethane	U		4.84	10.0	20	11/17/2024 23:09	WG2403355
Isopropylbenzene	U		0.690	2.00	20	11/17/2024 23:09	WG2403355
p-Isopropyltoluene	U		1.86	4.00	20	11/17/2024 23:09	WG2403355
2-Butanone (MEK)	U		10.0	20.0	20	11/17/2024 23:09	WG2403355
Methylene Chloride	U		5.30	20.0	20	11/17/2024 23:09	WG2403355
4-Methyl-2-pentanone (MIBK)	U		8.00	20.0	20	11/17/2024 23:09	WG2403355
Methyl tert-butyl ether	U		0.236	0.800	20	11/17/2024 23:09	WG2403355
Naphthalene	U		2.48	10.0	20	11/17/2024 23:09	WG2403355
n-Propylbenzene	U		0.944	4.00	20	11/17/2024 23:09	WG2403355
Styrene	U		2.18	10.0	20	11/17/2024 23:09	WG2403355
1,1,1,2-Tetrachloroethane	U		0.400	2.00	20	11/17/2024 23:09	WG2403355
1,1,2,2-Tetrachloroethane	U		0.312	2.00	20	11/17/2024 23:09	WG2403355
1,1,2-Trichlorotrifluoroethane	U		0.540	2.00	20	11/17/2024 23:09	WG2403355
Tetrachloroethene	37.9		0.560	2.00	20	11/17/2024 23:09	WG2403355
Toluene	U		1.00	4.00	20	11/17/2024 23:09	WG2403355
1,2,3-Trichlorobenzene	U		0.500	10.0	20	11/17/2024 23:09	WG2403355
1,2,4-Trichlorobenzene	U		3.86	10.0	20	11/17/2024 23:09	WG2403355
1,1,1-Trichloroethane	U		0.220	2.00	20	11/17/2024 23:09	WG2403355
1,1,2-Trichloroethane	U		0.706	2.00	20	11/17/2024 23:09	WG2403355
Trichloroethene	18.0		0.320	0.800	20	11/17/2024 23:09	WG2403355
Trichlorofluoromethane	U		0.400	2.00	20	11/17/2024 23:09	WG2403355
1,2,3-Trichloropropane	U		4.08	10.0	20	11/17/2024 23:09	WG2403355
1,2,4-Trimethylbenzene	U		0.928	4.00	20	11/17/2024 23:09	WG2403355
1,2,3-Trimethylbenzene	U		0.920	4.00	20	11/17/2024 23:09	WG2403355
1,3,5-Trimethylbenzene	U		0.864	4.00	20	11/17/2024 23:09	WG2403355
Vinyl acetate	U		2.82	10.0	20	11/17/2024 23:09	WG2403355
Vinyl chloride	133		0.546	2.00	20	11/17/2024 23:09	WG2403355
Xylenes, Total	U		3.82	5.20	20	11/17/2024 23:09	WG2403355
(S) Toluene-d8	*108*			*75.0-131*		*11/17/2024 23:09*	WG2403355
(S) 4-Bromofluorobenzene	*93.2*			*67.0-138*		*11/17/2024 23:09*	WG2403355
(S) 1,2-Dichloroethane-d4	*93.3*			*70.0-130*		*11/17/2024 23:09*	WG2403355

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	514000		4750	20000	1	11/14/2024 11:08	WG2401465

Sample Narrative:

L1799093-02 WG2401465: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	25500		547	1000	1	11/14/2024 08:07	WG2401053
Nitrate as (N)	U		88.4	100	1	11/14/2024 08:07	WG2401053
Sulfate	17500		637	5000	1	11/19/2024 18:17	WG2401053

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6250		495	1000	1	11/17/2024 05:46	WG2403031

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	12400		22.6	100	1	11/21/2024 15:56	WG2404347
Manganese	1480		0.700	5.00	1	11/21/2024 15:56	WG2404347

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	6400		0.287	0.678	1	11/17/2024 16:32	WG2401584
Ethane	50.2		0.296	1.29	1	11/17/2024 16:32	WG2401584
Ethene	24.0		0.422	1.27	1	11/17/2024 16:32	WG2401584

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/17/2024 19:20	WG2403355
Acrylonitrile	U	J4	0.0760	0.500	1	11/17/2024 19:20	WG2403355
Benzene	2.58		0.0160	0.0400	1	11/17/2024 19:20	WG2403355
Bromobenzene	U		0.0420	0.500	1	11/17/2024 19:20	WG2403355
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 19:20	WG2403355
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 19:20	WG2403355
Bromoform	U		0.239	1.00	1	11/17/2024 19:20	WG2403355
Bromomethane	U		0.148	0.500	1	11/17/2024 19:20	WG2403355
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 19:20	WG2403355
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 19:20	WG2403355
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 19:20	WG2403355
Carbon disulfide	U		0.162	0.500	1	11/17/2024 19:20	WG2403355
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 19:20	WG2403355
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 19:20	WG2403355
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 19:20	WG2403355
Chloroethane	U		0.0432	0.200	1	11/17/2024 19:20	WG2403355
Chloroform	0.0690	B J	0.0166	0.100	1	11/17/2024 19:20	WG2403355
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 19:20	WG2403355
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 19:20	WG2403355
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 19:20	WG2403355

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 19:20	WG2403355
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 19:20	WG2403355
Dibromomethane	U		0.0400	0.200	1	11/17/2024 19:20	WG2403355
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 19:20	WG2403355
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 19:20	WG2403355
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 19:20	WG2403355
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/17/2024 19:20	WG2403355
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 19:20	WG2403355
1,1-Dichloroethane	0.0500	J	0.0230	0.100	1	11/17/2024 19:20	WG2403355
1,2-Dichloroethane	U		0.0190	0.100	1	11/17/2024 19:20	WG2403355
1,1-Dichloroethene	1.04		0.0200	0.100	1	11/17/2024 19:20	WG2403355
cis-1,2-Dichloroethene	565		0.552	2.00	20	11/25/2024 17:28	WG2406168
trans-1,2-Dichloroethene	2.53		0.0572	0.200	1	11/17/2024 19:20	WG2403355
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 19:20	WG2403355
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 19:20	WG2403355
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 19:20	WG2403355
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 19:20	WG2403355
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 19:20	WG2403355
2,2-Dichloropropane	U	J4	0.0317	0.100	1	11/17/2024 19:20	WG2403355
Di-isopropyl ether	0.0410		0.0140	0.0400	1	11/17/2024 19:20	WG2403355
Ethylbenzene	0.125		0.0212	0.100	1	11/17/2024 19:20	WG2403355
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 19:20	WG2403355
2-Hexanone	U		0.400	1.00	1	11/17/2024 19:20	WG2403355
n-Hexane	U		0.0424	0.200	1	11/17/2024 19:20	WG2403355
Iodomethane	U		0.242	0.500	1	11/17/2024 19:20	WG2403355
Isopropylbenzene	0.0720	J	0.0345	0.100	1	11/17/2024 19:20	WG2403355
p-Isopropyltoluene	0.165	J	0.0932	0.200	1	11/17/2024 19:20	WG2403355
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 19:20	WG2403355
Methylene Chloride	U		0.265	1.00	1	11/17/2024 19:20	WG2403355
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 19:20	WG2403355
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 19:20	WG2403355
Naphthalene	0.335	J	0.124	0.500	1	11/17/2024 19:20	WG2403355
n-Propylbenzene	0.126	J	0.0472	0.200	1	11/17/2024 19:20	WG2403355
Styrene	U		0.109	0.500	1	11/17/2024 19:20	WG2403355
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 19:20	WG2403355
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 19:20	WG2403355
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 19:20	WG2403355
Tetrachloroethene	34.6		0.0280	0.100	1	11/17/2024 19:20	WG2403355
Toluene	0.164	J	0.0500	0.200	1	11/17/2024 19:20	WG2403355
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/17/2024 19:20	WG2403355
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/17/2024 19:20	WG2403355
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 19:20	WG2403355
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 19:20	WG2403355
Trichloroethene	20.2		0.0160	0.0400	1	11/17/2024 19:20	WG2403355
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 19:20	WG2403355
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 19:20	WG2403355
1,2,4-Trimethylbenzene	0.534		0.0464	0.200	1	11/17/2024 19:20	WG2403355
1,2,3-Trimethylbenzene	0.284		0.0460	0.200	1	11/17/2024 19:20	WG2403355
1,3,5-Trimethylbenzene	0.267		0.0432	0.200	1	11/17/2024 19:20	WG2403355
Vinyl acetate	U		0.141	0.500	1	11/17/2024 19:20	WG2403355
Vinyl chloride	163		0.546	2.00	20	11/25/2024 17:28	WG2406168
Xylenes, Total	0.584		0.191	0.260	1	11/17/2024 19:20	WG2403355
(S) Toluene-d8	*105*			*75.0-131*		*11/17/2024 19:20*	WG2403355
(S) Toluene-d8	*99.1*			*75.0-131*		*11/25/2024 17:28*	WG2406168
(S) 4-Bromofluorobenzene	*98.1*			*67.0-138*		*11/17/2024 19:20*	WG2403355
(S) 4-Bromofluorobenzene	*86.9*			*67.0-138*		*11/25/2024 17:28*	WG2406168

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*96.6*			*70.0-130*		*11/17/2024 19:20*	WG2403355
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*11/25/2024 17:28*	WG2406168

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	170000		4750	20000	1	11/14/2024 11:13	WG2401465

Sample Narrative:

L1799093-03 WG2401465: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	11900		547	1000	1	11/14/2024 02:50	WG2400994
Nitrate as (N)	525		88.4	100	1	11/14/2024 02:50	WG2400994
Sulfate	56700		637	5000	1	11/14/2024 02:50	WG2400994

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1660		495	1000	1	11/17/2024 06:05	WG2403031

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	106		22.6	100	1	11/21/2024 15:59	WG2404347
Manganese	19.6		0.700	5.00	1	11/21/2024 15:59	WG2404347

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	11/17/2024 16:43	WG2401584
Ethane	U		0.296	1.29	1	11/17/2024 16:43	WG2401584
Ethene	U		0.422	1.27	1	11/17/2024 16:43	WG2401584

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.548	1.00	1	11/23/2024 15:56	WG2406165
Acrylonitrile	U	J4	0.0760	0.500	1	11/23/2024 15:56	WG2406165
Benzene	U		0.0160	0.0400	1	11/23/2024 15:56	WG2406165
Bromobenzene	U		0.0420	0.500	1	11/23/2024 15:56	WG2406165
Bromochloromethane	U		0.0452	0.200	1	11/23/2024 15:56	WG2406165
Bromodichloromethane	U		0.0315	0.100	1	11/23/2024 15:56	WG2406165
Bromoform	U		0.239	1.00	1	11/23/2024 15:56	WG2406165
Bromomethane	U	C3	0.148	0.500	1	11/23/2024 15:56	WG2406165
n-Butylbenzene	U		0.153	0.500	1	11/23/2024 15:56	WG2406165
sec-Butylbenzene	U		0.101	0.500	1	11/23/2024 15:56	WG2406165
tert-Butylbenzene	U		0.0620	0.200	1	11/23/2024 15:56	WG2406165
Carbon disulfide	U		0.162	0.500	1	11/23/2024 15:56	WG2406165
Carbon tetrachloride	U		0.0432	0.200	1	11/23/2024 15:56	WG2406165
Chlorobenzene	U		0.0229	0.100	1	11/23/2024 15:56	WG2406165
Chlorodibromomethane	U		0.0180	0.100	1	11/23/2024 15:56	WG2406165
Chloroethane	U		0.0432	0.200	1	11/23/2024 15:56	WG2406165
Chloroform	U		0.0166	0.100	1	11/23/2024 15:56	WG2406165
Chloromethane	U		0.0556	0.500	1	11/23/2024 15:56	WG2406165
2-Chlorotoluene	U	C3	0.0368	0.100	1	11/23/2024 15:56	WG2406165
4-Chlorotoluene	U	C3 J4	0.0452	0.200	1	11/23/2024 15:56	WG2406165

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/23/2024 15:56	WG2406165
1,2-Dibromoethane	U		0.0210	0.100	1	11/23/2024 15:56	WG2406165
Dibromomethane	U		0.0400	0.200	1	11/23/2024 15:56	WG2406165
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/23/2024 15:56	WG2406165
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/23/2024 15:56	WG2406165
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/23/2024 15:56	WG2406165
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/23/2024 15:56	WG2406165
Dichlorodifluoromethane	U		0.0327	0.200	1	11/23/2024 15:56	WG2406165
1,1-Dichloroethane	U		0.0230	0.100	1	11/23/2024 15:56	WG2406165
1,2-Dichloroethane	U		0.0190	0.100	1	11/23/2024 15:56	WG2406165
1,1-Dichloroethene	U		0.0200	0.100	1	11/23/2024 15:56	WG2406165
cis-1,2-Dichloroethene	4.82		0.0276	0.100	1	11/23/2024 15:56	WG2406165
trans-1,2-Dichloroethene	0.0620	J	0.0572	0.200	1	11/23/2024 15:56	WG2406165
1,2-Dichloropropane	U		0.0508	0.200	1	11/23/2024 15:56	WG2406165
1,1-Dichloropropene	U		0.0280	0.100	1	11/23/2024 15:56	WG2406165
1,3-Dichloropropane	U		0.0700	0.200	1	11/23/2024 15:56	WG2406165
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/23/2024 15:56	WG2406165
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/23/2024 15:56	WG2406165
2,2-Dichloropropane	U		0.0317	0.100	1	11/23/2024 15:56	WG2406165
Di-isopropyl ether	U		0.0140	0.0400	1	11/23/2024 15:56	WG2406165
Ethylbenzene	U		0.0212	0.100	1	11/23/2024 15:56	WG2406165
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/23/2024 15:56	WG2406165
2-Hexanone	U		0.400	1.00	1	11/23/2024 15:56	WG2406165
n-Hexane	U		0.0424	0.200	1	11/23/2024 15:56	WG2406165
Iodomethane	U		0.242	0.500	1	11/23/2024 15:56	WG2406165
Isopropylbenzene	U		0.0345	0.100	1	11/23/2024 15:56	WG2406165
p-Isopropyltoluene	U		0.0932	0.200	1	11/23/2024 15:56	WG2406165
2-Butanone (MEK)	U		0.500	1.00	1	11/23/2024 15:56	WG2406165
Methylene Chloride	U		0.265	1.00	1	11/23/2024 15:56	WG2406165
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/23/2024 15:56	WG2406165
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/23/2024 15:56	WG2406165
Naphthalene	U		0.124	0.500	1	11/23/2024 15:56	WG2406165
n-Propylbenzene	U		0.0472	0.200	1	11/23/2024 15:56	WG2406165
Styrene	U		0.109	0.500	1	11/23/2024 15:56	WG2406165
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/23/2024 15:56	WG2406165
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/23/2024 15:56	WG2406165
1,1,2-Trichlorotrifluoroethane	U	C3	0.0270	0.100	1	11/23/2024 15:56	WG2406165
Tetrachloroethene	0.0600	J	0.0280	0.100	1	11/23/2024 15:56	WG2406165
Toluene	U		0.0500	0.200	1	11/23/2024 15:56	WG2406165
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/23/2024 15:56	WG2406165
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/23/2024 15:56	WG2406165
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/23/2024 15:56	WG2406165
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/23/2024 15:56	WG2406165
Trichloroethene	0.508		0.0160	0.0400	1	11/23/2024 15:56	WG2406165
Trichlorofluoromethane	U		0.0200	0.100	1	11/23/2024 15:56	WG2406165
1,2,3-Trichloropropane	U		0.204	0.500	1	11/23/2024 15:56	WG2406165
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/23/2024 15:56	WG2406165
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/23/2024 15:56	WG2406165
1,3,5-Trimethylbenzene	U	C3	0.0432	0.200	1	11/23/2024 15:56	WG2406165
Vinyl acetate	U		0.141	0.500	1	11/23/2024 15:56	WG2406165
Vinyl chloride	U		0.0273	0.100	1	11/23/2024 15:56	WG2406165
Xylenes, Total	U		0.191	0.260	1	11/23/2024 15:56	WG2406165
(S) Toluene-d8	*104*			*75.0-131*		*11/23/2024 15:56*	WG2406165
(S) 4-Bromofluorobenzene	*94.4*			*67.0-138*		*11/23/2024 15:56*	WG2406165
(S) 1,2-Dichloroethane-d4	*94.3*			*70.0-130*		*11/23/2024 15:56*	WG2406165

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	428000		4750	20000	1	11/14/2024 11:36	WG2401465

Sample Narrative:

L1799093-04 WG2401465: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	42400		547	1000	1	11/14/2024 03:17	WG2400994
Nitrate as (N)	U		88.4	100	1	11/14/2024 03:17	WG2400994
Sulfate	99900		637	5000	1	11/14/2024 03:17	WG2400994

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	11700		2480	5000	5	11/19/2024 19:00	WG2404190

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	412		22.6	100	1	11/21/2024 16:03	WG2404347
Manganese	4590		0.700	5.00	1	11/21/2024 16:03	WG2404347

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	2380		0.287	0.678	1	11/17/2024 16:47	WG2401584
Ethane	7.33		0.296	1.29	1	11/17/2024 16:47	WG2401584
Ethene	U		0.422	1.27	1	11/17/2024 16:47	WG2401584

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	16.6	B C5	5.48	10.0	10	11/17/2024 23:47	WG2403355
Acrylonitrile	U	J4	0.760	5.00	10	11/17/2024 23:47	WG2403355
Benzene	U		0.160	0.400	10	11/17/2024 23:47	WG2403355
Bromobenzene	U		0.420	5.00	10	11/17/2024 23:47	WG2403355
Bromochloromethane	U		0.452	2.00	10	11/17/2024 23:47	WG2403355
Bromodichloromethane	U		0.315	1.00	10	11/17/2024 23:47	WG2403355
Bromoform	U		2.39	10.0	10	11/17/2024 23:47	WG2403355
Bromomethane	U		1.48	5.00	10	11/17/2024 23:47	WG2403355
n-Butylbenzene	U		1.53	5.00	10	11/17/2024 23:47	WG2403355
sec-Butylbenzene	U		1.01	5.00	10	11/17/2024 23:47	WG2403355
tert-Butylbenzene	U		0.620	2.00	10	11/17/2024 23:47	WG2403355
Carbon disulfide	U		1.62	5.00	10	11/17/2024 23:47	WG2403355
Carbon tetrachloride	U		0.432	2.00	10	11/17/2024 23:47	WG2403355
Chlorobenzene	U		0.229	1.00	10	11/17/2024 23:47	WG2403355
Chlorodibromomethane	U		0.180	1.00	10	11/17/2024 23:47	WG2403355
Chloroethane	U		0.432	2.00	10	11/17/2024 23:47	WG2403355
Chloroform	U		0.166	1.00	10	11/17/2024 23:47	WG2403355
Chloromethane	U	C3	0.556	5.00	10	11/17/2024 23:47	WG2403355
2-Chlorotoluene	U		0.368	1.00	10	11/17/2024 23:47	WG2403355
4-Chlorotoluene	U		0.452	2.00	10	11/17/2024 23:47	WG2403355

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		2.04	10.0	10	11/17/2024 23:47	WG2403355
1,2-Dibromoethane	U		0.210	1.00	10	11/17/2024 23:47	WG2403355
Dibromomethane	U		0.400	2.00	10	11/17/2024 23:47	WG2403355
1,2-Dichlorobenzene	U		0.580	2.00	10	11/17/2024 23:47	WG2403355
1,3-Dichlorobenzene	U		0.680	2.00	10	11/17/2024 23:47	WG2403355
1,4-Dichlorobenzene	U		0.788	2.00	10	11/17/2024 23:47	WG2403355
trans-1,4-Dichloro-2-butene	U		0.560	2.00	10	11/17/2024 23:47	WG2403355
Dichlorodifluoromethane	U		0.327	2.00	10	11/17/2024 23:47	WG2403355
1,1-Dichloroethane	U		0.230	1.00	10	11/17/2024 23:47	WG2403355
1,2-Dichloroethane	U		0.190	1.00	10	11/17/2024 23:47	WG2403355
1,1-Dichloroethene	1.92		0.200	1.00	10	11/17/2024 23:47	WG2403355
cis-1,2-Dichloroethene	861		0.276	1.00	10	11/17/2024 23:47	WG2403355
trans-1,2-Dichloroethene	4.38		0.572	2.00	10	11/17/2024 23:47	WG2403355
1,2-Dichloropropane	U		0.508	2.00	10	11/17/2024 23:47	WG2403355
1,1-Dichloropropene	U		0.280	1.00	10	11/17/2024 23:47	WG2403355
1,3-Dichloropropane	U		0.700	2.00	10	11/17/2024 23:47	WG2403355
cis-1,3-Dichloropropene	U		0.271	1.00	10	11/17/2024 23:47	WG2403355
trans-1,3-Dichloropropene	U		0.612	2.00	10	11/17/2024 23:47	WG2403355
2,2-Dichloropropane	U	J4	0.317	1.00	10	11/17/2024 23:47	WG2403355
Di-isopropyl ether	U		0.140	0.400	10	11/17/2024 23:47	WG2403355
Ethylbenzene	U		0.212	1.00	10	11/17/2024 23:47	WG2403355
Hexachloro-1,3-butadiene	U		5.08	10.0	10	11/17/2024 23:47	WG2403355
2-Hexanone	U		4.00	10.0	10	11/17/2024 23:47	WG2403355
n-Hexane	U		0.424	2.00	10	11/17/2024 23:47	WG2403355
Iodomethane	U		2.42	5.00	10	11/17/2024 23:47	WG2403355
Isopropylbenzene	U		0.345	1.00	10	11/17/2024 23:47	WG2403355
p-Isopropyltoluene	U		0.932	2.00	10	11/17/2024 23:47	WG2403355
2-Butanone (MEK)	U		5.00	10.0	10	11/17/2024 23:47	WG2403355
Methylene Chloride	U		2.65	10.0	10	11/17/2024 23:47	WG2403355
4-Methyl-2-pentanone (MIBK)	U		4.00	10.0	10	11/17/2024 23:47	WG2403355
Methyl tert-butyl ether	U		0.118	0.400	10	11/17/2024 23:47	WG2403355
Naphthalene	U		1.24	5.00	10	11/17/2024 23:47	WG2403355
n-Propylbenzene	U		0.472	2.00	10	11/17/2024 23:47	WG2403355
Styrene	U		1.09	5.00	10	11/17/2024 23:47	WG2403355
1,1,1,2-Tetrachloroethane	U		0.200	1.00	10	11/17/2024 23:47	WG2403355
1,1,2,2-Tetrachloroethane	U		0.156	1.00	10	11/17/2024 23:47	WG2403355
1,1,2-Trichlorotrifluoroethane	U		0.270	1.00	10	11/17/2024 23:47	WG2403355
Tetrachloroethene	77.8		0.280	1.00	10	11/17/2024 23:47	WG2403355
Toluene	U		0.500	2.00	10	11/17/2024 23:47	WG2403355
1,2,3-Trichlorobenzene	U		0.250	5.00	10	11/17/2024 23:47	WG2403355
1,2,4-Trichlorobenzene	U		1.93	5.00	10	11/17/2024 23:47	WG2403355
1,1,1-Trichloroethane	U		0.110	1.00	10	11/17/2024 23:47	WG2403355
1,1,2-Trichloroethane	U		0.353	1.00	10	11/17/2024 23:47	WG2403355
Trichloroethene	124		0.160	0.400	10	11/17/2024 23:47	WG2403355
Trichlorofluoromethane	U		0.200	1.00	10	11/17/2024 23:47	WG2403355
1,2,3-Trichloropropane	U		2.04	5.00	10	11/17/2024 23:47	WG2403355
1,2,4-Trimethylbenzene	U		0.464	2.00	10	11/17/2024 23:47	WG2403355
1,2,3-Trimethylbenzene	U		0.460	2.00	10	11/17/2024 23:47	WG2403355
1,3,5-Trimethylbenzene	U		0.432	2.00	10	11/17/2024 23:47	WG2403355
Vinyl acetate	U		1.41	5.00	10	11/17/2024 23:47	WG2403355
Vinyl chloride	1.02		0.273	1.00	10	11/17/2024 23:47	WG2403355
Xylenes, Total	U		1.91	2.60	10	11/17/2024 23:47	WG2403355
(S) Toluene-d8	*107*			*75.0-131*		*11/17/2024 23:47*	WG2403355
(S) 4-Bromofluorobenzene	*92.5*			*67.0-138*		*11/17/2024 23:47*	WG2403355
(S) 1,2-Dichloroethane-d4	*95.1*			*70.0-130*		*11/17/2024 23:47*	WG2403355

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	1040000		4750	20000	1	11/14/2024 14:16	WG2401534

Sample Narrative:

L1799093-05 WG2401534: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	238000		2740	5000	5	11/14/2024 11:14	WG2401053
Nitrate as (N)	U		88.4	100	1	11/14/2024 08:20	WG2401053
Sulfate	U		637	5000	1	11/19/2024 18:34	WG2401053

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	20600		495	1000	1	11/17/2024 06:56	WG2403031

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	17600		22.6	100	1	11/21/2024 17:00	WG2404347
Manganese	2980		0.700	5.00	1	11/21/2024 17:00	WG2404347

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	20800		2.87	6.78	10	11/17/2024 22:06	WG2403424
Ethane	23.2		0.296	1.29	1	11/17/2024 16:51	WG2401584
Ethene	185		0.422	1.27	1	11/17/2024 16:51	WG2401584

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	56.7	B C5	27.4	50.0	50	11/18/2024 00:06	WG2403355
Acrylonitrile	U	J4	3.80	25.0	50	11/18/2024 00:06	WG2403355
Benzene	U		0.800	2.00	50	11/18/2024 00:06	WG2403355
Bromobenzene	U		2.10	25.0	50	11/18/2024 00:06	WG2403355
Bromochloromethane	U		2.26	10.0	50	11/18/2024 00:06	WG2403355
Bromodichloromethane	U		1.58	5.00	50	11/18/2024 00:06	WG2403355
Bromoform	U		12.0	50.0	50	11/18/2024 00:06	WG2403355
Bromomethane	U		7.40	25.0	50	11/18/2024 00:06	WG2403355
n-Butylbenzene	U		7.65	25.0	50	11/18/2024 00:06	WG2403355
sec-Butylbenzene	U		5.05	25.0	50	11/18/2024 00:06	WG2403355
tert-Butylbenzene	U		3.10	10.0	50	11/18/2024 00:06	WG2403355
Carbon disulfide	U		8.10	25.0	50	11/18/2024 00:06	WG2403355
Carbon tetrachloride	U		2.16	10.0	50	11/18/2024 00:06	WG2403355
Chlorobenzene	U		1.15	5.00	50	11/18/2024 00:06	WG2403355
Chlorodibromomethane	U		0.900	5.00	50	11/18/2024 00:06	WG2403355
Chloroethane	31.3		2.16	10.0	50	11/18/2024 00:06	WG2403355
Chloroform	U		0.830	5.00	50	11/18/2024 00:06	WG2403355
Chloromethane	U	C3	2.78	25.0	50	11/18/2024 00:06	WG2403355
2-Chlorotoluene	U		1.84	5.00	50	11/18/2024 00:06	WG2403355
4-Chlorotoluene	U		2.26	10.0	50	11/18/2024 00:06	WG2403355

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		10.2	50.0	50	11/18/2024 00:06	WG2403355
1,2-Dibromoethane	U		1.05	5.00	50	11/18/2024 00:06	WG2403355
Dibromomethane	U		2.00	10.0	50	11/18/2024 00:06	WG2403355
1,2-Dichlorobenzene	U		2.90	10.0	50	11/18/2024 00:06	WG2403355
1,3-Dichlorobenzene	U		3.40	10.0	50	11/18/2024 00:06	WG2403355
1,4-Dichlorobenzene	U		3.94	10.0	50	11/18/2024 00:06	WG2403355
trans-1,4-Dichloro-2-butene	U		2.80	10.0	50	11/18/2024 00:06	WG2403355
Dichlorodifluoromethane	U		1.64	10.0	50	11/18/2024 00:06	WG2403355
1,1-Dichloroethane	U		1.15	5.00	50	11/18/2024 00:06	WG2403355
1,2-Dichloroethane	U		0.950	5.00	50	11/18/2024 00:06	WG2403355
1,1-Dichloroethene	2.95	J	1.00	5.00	50	11/18/2024 00:06	WG2403355
cis-1,2-Dichloroethene	623		1.38	5.00	50	11/18/2024 00:06	WG2403355
trans-1,2-Dichloroethene	U		2.86	10.0	50	11/18/2024 00:06	WG2403355
1,2-Dichloropropane	U		2.54	10.0	50	11/18/2024 00:06	WG2403355
1,1-Dichloropropene	U		1.40	5.00	50	11/18/2024 00:06	WG2403355
1,3-Dichloropropane	U		3.50	10.0	50	11/18/2024 00:06	WG2403355
cis-1,3-Dichloropropene	U		1.36	5.00	50	11/18/2024 00:06	WG2403355
trans-1,3-Dichloropropene	U		3.06	10.0	50	11/18/2024 00:06	WG2403355
2,2-Dichloropropane	U	J4	1.59	5.00	50	11/18/2024 00:06	WG2403355
Di-isopropyl ether	U		0.700	2.00	50	11/18/2024 00:06	WG2403355
Ethylbenzene	U		1.06	5.00	50	11/18/2024 00:06	WG2403355
Hexachloro-1,3-butadiene	U		25.4	50.0	50	11/18/2024 00:06	WG2403355
2-Hexanone	U		20.0	50.0	50	11/18/2024 00:06	WG2403355
n-Hexane	U		2.12	10.0	50	11/18/2024 00:06	WG2403355
Iodomethane	U		12.1	25.0	50	11/18/2024 00:06	WG2403355
Isopropylbenzene	U		1.73	5.00	50	11/18/2024 00:06	WG2403355
p-Isopropyltoluene	U		4.66	10.0	50	11/18/2024 00:06	WG2403355
2-Butanone (MEK)	U		25.0	50.0	50	11/18/2024 00:06	WG2403355
Methylene Chloride	U		13.3	50.0	50	11/18/2024 00:06	WG2403355
4-Methyl-2-pentanone (MIBK)	U		20.0	50.0	50	11/18/2024 00:06	WG2403355
Methyl tert-butyl ether	U		0.590	2.00	50	11/18/2024 00:06	WG2403355
Naphthalene	U		6.20	25.0	50	11/18/2024 00:06	WG2403355
n-Propylbenzene	U		2.36	10.0	50	11/18/2024 00:06	WG2403355
Styrene	U		5.45	25.0	50	11/18/2024 00:06	WG2403355
1,1,1,2-Tetrachloroethane	U		1.00	5.00	50	11/18/2024 00:06	WG2403355
1,1,2,2-Tetrachloroethane	U		0.780	5.00	50	11/18/2024 00:06	WG2403355
1,1,2-Trichlorotrifluoroethane	U		1.35	5.00	50	11/18/2024 00:06	WG2403355
Tetrachloroethene	14.2		1.40	5.00	50	11/18/2024 00:06	WG2403355
Toluene	U		2.50	10.0	50	11/18/2024 00:06	WG2403355
1,2,3-Trichlorobenzene	U		1.25	25.0	50	11/18/2024 00:06	WG2403355
1,2,4-Trichlorobenzene	U		9.65	25.0	50	11/18/2024 00:06	WG2403355
1,1,1-Trichloroethane	U		0.550	5.00	50	11/18/2024 00:06	WG2403355
1,1,2-Trichloroethane	U		1.77	5.00	50	11/18/2024 00:06	WG2403355
Trichloroethene	4.65		0.800	2.00	50	11/18/2024 00:06	WG2403355
Trichlorofluoromethane	U		1.00	5.00	50	11/18/2024 00:06	WG2403355
1,2,3-Trichloropropane	U		10.2	25.0	50	11/18/2024 00:06	WG2403355
1,2,4-Trimethylbenzene	U		2.32	10.0	50	11/18/2024 00:06	WG2403355
1,2,3-Trimethylbenzene	U		2.30	10.0	50	11/18/2024 00:06	WG2403355
1,3,5-Trimethylbenzene	U		2.16	10.0	50	11/18/2024 00:06	WG2403355
Vinyl acetate	U		7.05	25.0	50	11/18/2024 00:06	WG2403355
Vinyl chloride	1370		1.36	5.00	50	11/18/2024 00:06	WG2403355
Xylenes, Total	U		9.55	13.0	50	11/18/2024 00:06	WG2403355
(S) Toluene-d8	*113*			*75.0-131*		*11/18/2024 00:06*	WG2403355
(S) 4-Bromofluorobenzene	*89.3*			*67.0-138*		*11/18/2024 00:06*	WG2403355
(S) 1,2-Dichloroethane-d4	*93.1*			*70.0-130*		*11/18/2024 00:06*	WG2403355

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	581000		4750	20000	1	11/14/2024 11:40	WG2401465

Sample Narrative:

L1799093-06 WG2401465: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	92400		547	1000	1	11/14/2024 08:33	WG2401053
Nitrate as (N)	U		88.4	100	1	11/14/2024 08:33	WG2401053
Sulfate	1400	J	637	5000	1	11/19/2024 18:52	WG2401053

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	10100		495	1000	1	11/17/2024 07:20	WG2403031

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	5840		22.6	100	1	11/21/2024 17:03	WG2404347
Manganese	952		0.700	5.00	1	11/21/2024 17:03	WG2404347

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	20000		2.87	6.78	10	11/17/2024 22:25	WG2403424
Ethane	339		0.296	1.29	1	11/17/2024 17:06	WG2401584
Ethene	630		0.422	1.27	1	11/17/2024 17:06	WG2401584

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	11/17/2024 19:39	WG2403355
Acrylonitrile	U	J4	0.0760	0.500	1	11/17/2024 19:39	WG2403355
Benzene	0.191		0.0160	0.0400	1	11/17/2024 19:39	WG2403355
Bromobenzene	U		0.0420	0.500	1	11/17/2024 19:39	WG2403355
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 19:39	WG2403355
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 19:39	WG2403355
Bromoform	U		0.239	1.00	1	11/17/2024 19:39	WG2403355
Bromomethane	U		0.148	0.500	1	11/17/2024 19:39	WG2403355
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 19:39	WG2403355
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 19:39	WG2403355
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 19:39	WG2403355
Carbon disulfide	U		0.162	0.500	1	11/17/2024 19:39	WG2403355
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 19:39	WG2403355
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 19:39	WG2403355
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 19:39	WG2403355
Chloroethane	9.26		0.0432	0.200	1	11/17/2024 19:39	WG2403355
Chloroform	U		0.0166	0.100	1	11/17/2024 19:39	WG2403355
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 19:39	WG2403355
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 19:39	WG2403355
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 19:39	WG2403355

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 19:39	WG2403355
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 19:39	WG2403355
Dibromomethane	U		0.0400	0.200	1	11/17/2024 19:39	WG2403355
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 19:39	WG2403355
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 19:39	WG2403355
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 19:39	WG2403355
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/17/2024 19:39	WG2403355
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 19:39	WG2403355
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 19:39	WG2403355
1,2-Dichloroethane	U		0.0190	0.100	1	11/17/2024 19:39	WG2403355
1,1-Dichloroethene	25.3		0.0200	0.100	1	11/17/2024 19:39	WG2403355
cis-1,2-Dichloroethene	2950		13.8	50.0	500	11/25/2024 17:48	WG2406168
trans-1,2-Dichloroethene	15.2		0.0572	0.200	1	11/17/2024 19:39	WG2403355
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 19:39	WG2403355
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 19:39	WG2403355
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 19:39	WG2403355
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 19:39	WG2403355
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 19:39	WG2403355
2,2-Dichloropropane	U	J4	0.0317	0.100	1	11/17/2024 19:39	WG2403355
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 19:39	WG2403355
Ethylbenzene	0.0840	J	0.0212	0.100	1	11/17/2024 19:39	WG2403355
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 19:39	WG2403355
2-Hexanone	U		0.400	1.00	1	11/17/2024 19:39	WG2403355
n-Hexane	U		0.0424	0.200	1	11/17/2024 19:39	WG2403355
Iodomethane	U		0.242	0.500	1	11/17/2024 19:39	WG2403355
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 19:39	WG2403355
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 19:39	WG2403355
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 19:39	WG2403355
Methylene Chloride	U		0.265	1.00	1	11/17/2024 19:39	WG2403355
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 19:39	WG2403355
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 19:39	WG2403355
Naphthalene	U		0.124	0.500	1	11/17/2024 19:39	WG2403355
n-Propylbenzene	0.0910	J	0.0472	0.200	1	11/17/2024 19:39	WG2403355
Styrene	U		0.109	0.500	1	11/17/2024 19:39	WG2403355
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 19:39	WG2403355
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 19:39	WG2403355
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 19:39	WG2403355
Tetrachloroethene	5730		14.0	50.0	500	11/25/2024 17:48	WG2406168
Toluene	0.344		0.0500	0.200	1	11/17/2024 19:39	WG2403355
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/17/2024 19:39	WG2403355
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/17/2024 19:39	WG2403355
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 19:39	WG2403355
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 19:39	WG2403355
Trichloroethene	820		8.00	20.0	500	11/25/2024 17:48	WG2406168
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 19:39	WG2403355
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 19:39	WG2403355
1,2,4-Trimethylbenzene	0.493		0.0464	0.200	1	11/17/2024 19:39	WG2403355
1,2,3-Trimethylbenzene	0.181	J	0.0460	0.200	1	11/17/2024 19:39	WG2403355
1,3,5-Trimethylbenzene	0.194	J	0.0432	0.200	1	11/17/2024 19:39	WG2403355
Vinyl acetate	U		0.141	0.500	1	11/17/2024 19:39	WG2403355
Vinyl chloride	1460		13.6	50.0	500	11/25/2024 17:48	WG2406168
Xylenes, Total	0.386		0.191	0.260	1	11/17/2024 19:39	WG2403355
(S) Toluene-d8	*89.8*			*75.0-131*		*11/17/2024 19:39*	WG2403355
(S) Toluene-d8	*102*			*75.0-131*		*11/25/2024 17:48*	WG2406168
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*		*11/17/2024 19:39*	WG2403355
(S) 4-Bromofluorobenzene	*87.2*			*67.0-138*		*11/25/2024 17:48*	WG2406168

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*94.8*			*70.0-130*		*11/17/2024 19:39*	WG2403355
(S) 1,2-Dichloroethane-d4	*98.3*			*70.0-130*		*11/25/2024 17:48*	WG2406168

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	1340000		4750	20000	1	11/19/2024 10:06	WG2404160

Sample Narrative:

L1799093-07 WG2404160: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	193000		2740	5000	5	11/14/2024 11:41	WG2401053
Nitrate as (N)	U		88.4	100	1	11/14/2024 08:47	WG2401053
Sulfate	23000		637	5000	1	11/19/2024 19:09	WG2401053

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	38800		495	1000	1	11/17/2024 07:47	WG2403031

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	19200		22.6	100	1	11/21/2024 17:06	WG2404347
Manganese	7740		0.700	5.00	1	11/21/2024 17:06	WG2404347

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	18500		2.87	6.78	10	11/17/2024 22:33	WG2403424
Ethane	207		0.296	1.29	1	11/17/2024 17:14	WG2401584
Ethene	80.7		0.422	1.27	1	11/17/2024 17:14	WG2401584

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	29.2	B C5	13.7	25.0	25	11/18/2024 00:25	WG2403355
Acrylonitrile	U	J4	1.90	12.5	25	11/18/2024 00:25	WG2403355
Benzene	U		0.400	1.00	25	11/18/2024 00:25	WG2403355
Bromobenzene	U		1.05	12.5	25	11/18/2024 00:25	WG2403355
Bromochloromethane	U		1.13	5.00	25	11/18/2024 00:25	WG2403355
Bromodichloromethane	U		0.788	2.50	25	11/18/2024 00:25	WG2403355
Bromoform	U		5.98	25.0	25	11/18/2024 00:25	WG2403355
Bromomethane	U		3.70	12.5	25	11/18/2024 00:25	WG2403355
n-Butylbenzene	U		3.83	12.5	25	11/18/2024 00:25	WG2403355
sec-Butylbenzene	U		2.53	12.5	25	11/18/2024 00:25	WG2403355
tert-Butylbenzene	U		1.55	5.00	25	11/18/2024 00:25	WG2403355
Carbon disulfide	U		4.05	12.5	25	11/18/2024 00:25	WG2403355
Carbon tetrachloride	U		1.08	5.00	25	11/18/2024 00:25	WG2403355
Chlorobenzene	U		0.573	2.50	25	11/18/2024 00:25	WG2403355
Chlorodibromomethane	U		0.450	2.50	25	11/18/2024 00:25	WG2403355
Chloroethane	4.08	J	1.08	5.00	25	11/18/2024 00:25	WG2403355
Chloroform	U		0.415	2.50	25	11/18/2024 00:25	WG2403355
Chloromethane	U	C3	1.39	12.5	25	11/18/2024 00:25	WG2403355
2-Chlorotoluene	U		0.920	2.50	25	11/18/2024 00:25	WG2403355
4-Chlorotoluene	U		1.13	5.00	25	11/18/2024 00:25	WG2403355

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U		5.10	25.0	25	11/18/2024 00:25	WG2403355
1,2-Dibromoethane	U		0.525	2.50	25	11/18/2024 00:25	WG2403355
Dibromomethane	U		1.00	5.00	25	11/18/2024 00:25	WG2403355
1,2-Dichlorobenzene	U		1.45	5.00	25	11/18/2024 00:25	WG2403355
1,3-Dichlorobenzene	U		1.70	5.00	25	11/18/2024 00:25	WG2403355
1,4-Dichlorobenzene	U		1.97	5.00	25	11/18/2024 00:25	WG2403355
trans-1,4-Dichloro-2-butene	U		1.40	5.00	25	11/18/2024 00:25	WG2403355
Dichlorodifluoromethane	U		0.818	5.00	25	11/18/2024 00:25	WG2403355
1,1-Dichloroethane	U		0.575	2.50	25	11/18/2024 00:25	WG2403355
1,2-Dichloroethane	U		0.475	2.50	25	11/18/2024 00:25	WG2403355
1,1-Dichloroethene	9.55		0.500	2.50	25	11/18/2024 00:25	WG2403355
cis-1,2-Dichloroethene	4010		6.90	25.0	250	11/25/2024 18:08	WG2406168
trans-1,2-Dichloroethene	15.5		1.43	5.00	25	11/18/2024 00:25	WG2403355
1,2-Dichloropropane	U		1.27	5.00	25	11/18/2024 00:25	WG2403355
1,1-Dichloropropene	U		0.700	2.50	25	11/18/2024 00:25	WG2403355
1,3-Dichloropropane	U		1.75	5.00	25	11/18/2024 00:25	WG2403355
cis-1,3-Dichloropropene	U		0.678	2.50	25	11/18/2024 00:25	WG2403355
trans-1,3-Dichloropropene	U		1.53	5.00	25	11/18/2024 00:25	WG2403355
2,2-Dichloropropane	U	J4	0.793	2.50	25	11/18/2024 00:25	WG2403355
Di-isopropyl ether	U		0.350	1.00	25	11/18/2024 00:25	WG2403355
Ethylbenzene	U		0.530	2.50	25	11/18/2024 00:25	WG2403355
Hexachloro-1,3-butadiene	U		12.7	25.0	25	11/18/2024 00:25	WG2403355
2-Hexanone	U		10.0	25.0	25	11/18/2024 00:25	WG2403355
n-Hexane	U		1.06	5.00	25	11/18/2024 00:25	WG2403355
Iodomethane	U		6.05	12.5	25	11/18/2024 00:25	WG2403355
Isopropylbenzene	U		0.863	2.50	25	11/18/2024 00:25	WG2403355
p-Isopropyltoluene	U		2.33	5.00	25	11/18/2024 00:25	WG2403355
2-Butanone (MEK)	U		12.5	25.0	25	11/18/2024 00:25	WG2403355
Methylene Chloride	U		6.63	25.0	25	11/18/2024 00:25	WG2403355
4-Methyl-2-pentanone (MIBK)	U		10.0	25.0	25	11/18/2024 00:25	WG2403355
Methyl tert-butyl ether	U		0.295	1.00	25	11/18/2024 00:25	WG2403355
Naphthalene	U		3.10	12.5	25	11/18/2024 00:25	WG2403355
n-Propylbenzene	U		1.18	5.00	25	11/18/2024 00:25	WG2403355
Styrene	U		2.73	12.5	25	11/18/2024 00:25	WG2403355
1,1,1,2-Tetrachloroethane	U		0.500	2.50	25	11/18/2024 00:25	WG2403355
1,1,2,2-Tetrachloroethane	U		0.390	2.50	25	11/18/2024 00:25	WG2403355
1,1,2-Trichlorotrifluoroethane	U		0.675	2.50	25	11/18/2024 00:25	WG2403355
Tetrachloroethene	165		0.700	2.50	25	11/18/2024 00:25	WG2403355
Toluene	U		1.25	5.00	25	11/18/2024 00:25	WG2403355
1,2,3-Trichlorobenzene	U		0.625	12.5	25	11/18/2024 00:25	WG2403355
1,2,4-Trichlorobenzene	U		4.83	12.5	25	11/18/2024 00:25	WG2403355
1,1,1-Trichloroethane	U		0.275	2.50	25	11/18/2024 00:25	WG2403355
1,1,2-Trichloroethane	U		0.883	2.50	25	11/18/2024 00:25	WG2403355
Trichloroethene	247		0.400	1.00	25	11/18/2024 00:25	WG2403355
Trichlorofluoromethane	U		0.500	2.50	25	11/18/2024 00:25	WG2403355
1,2,3-Trichloropropane	U		5.10	12.5	25	11/18/2024 00:25	WG2403355
1,2,4-Trimethylbenzene	U		1.16	5.00	25	11/18/2024 00:25	WG2403355
1,2,3-Trimethylbenzene	U		1.15	5.00	25	11/18/2024 00:25	WG2403355
1,3,5-Trimethylbenzene	U		1.08	5.00	25	11/18/2024 00:25	WG2403355
Vinyl acetate	U		3.53	12.5	25	11/18/2024 00:25	WG2403355
Vinyl chloride	1090		0.682	2.50	25	11/18/2024 00:25	WG2403355
Xylenes, Total	U		4.78	6.50	25	11/18/2024 00:25	WG2403355
(S) Toluene-d8	*101*			*75.0-131*		*11/18/2024 00:25*	WG2403355
(S) Toluene-d8	*102*			*75.0-131*		*11/25/2024 18:08*	WG2406168
(S) 4-Bromofluorobenzene	*92.2*			*67.0-138*		*11/18/2024 00:25*	WG2403355
(S) 4-Bromofluorobenzene	*84.7*			*67.0-138*		*11/25/2024 18:08*	WG2406168

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*93.9*			*70.0-130*		*11/18/2024 00:25*	WG2403355
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/25/2024 18:08*	WG2406168

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.42	B C5	0.548	1.00	1	11/17/2024 19:58	WG2403355
Acrylonitrile	U	J4	0.0760	0.500	1	11/17/2024 19:58	WG2403355
Benzene	U		0.0160	0.0400	1	11/17/2024 19:58	WG2403355
Bromobenzene	U		0.0420	0.500	1	11/17/2024 19:58	WG2403355
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 19:58	WG2403355
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 19:58	WG2403355
Bromoform	U		0.239	1.00	1	11/17/2024 19:58	WG2403355
Bromomethane	U		0.148	0.500	1	11/17/2024 19:58	WG2403355
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 19:58	WG2403355
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 19:58	WG2403355
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 19:58	WG2403355
Carbon disulfide	U		0.162	0.500	1	11/17/2024 19:58	WG2403355
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 19:58	WG2403355
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 19:58	WG2403355
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 19:58	WG2403355
Chloroethane	U		0.0432	0.200	1	11/17/2024 19:58	WG2403355
Chloroform	U		0.0166	0.100	1	11/17/2024 19:58	WG2403355
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 19:58	WG2403355
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 19:58	WG2403355
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 19:58	WG2403355
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 19:58	WG2403355
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 19:58	WG2403355
Dibromomethane	U		0.0400	0.200	1	11/17/2024 19:58	WG2403355
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 19:58	WG2403355
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 19:58	WG2403355
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 19:58	WG2403355
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/17/2024 19:58	WG2403355
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 19:58	WG2403355
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 19:58	WG2403355
1,2-Dichloroethane	U		0.0190	0.100	1	11/17/2024 19:58	WG2403355
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 19:58	WG2403355
cis-1,2-Dichloroethene	0.0400	B J	0.0276	0.100	1	11/25/2024 15:10	WG2406168
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 19:58	WG2403355
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 19:58	WG2403355
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 19:58	WG2403355
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 19:58	WG2403355
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 19:58	WG2403355
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 19:58	WG2403355
2,2-Dichloropropane	U	J4	0.0317	0.100	1	11/17/2024 19:58	WG2403355
Di-isopropyl ether	U		0.0140	0.0400	1	11/17/2024 19:58	WG2403355
Ethylbenzene	U		0.0212	0.100	1	11/17/2024 19:58	WG2403355
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 19:58	WG2403355
2-Hexanone	U		0.400	1.00	1	11/17/2024 19:58	WG2403355
n-Hexane	U		0.0424	0.200	1	11/17/2024 19:58	WG2403355
Iodomethane	U		0.242	0.500	1	11/17/2024 19:58	WG2403355
Isopropylbenzene	U		0.0345	0.100	1	11/17/2024 19:58	WG2403355
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 19:58	WG2403355
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 19:58	WG2403355
Methylene Chloride	U		0.265	1.00	1	11/17/2024 19:58	WG2403355
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 19:58	WG2403355
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 19:58	WG2403355
Naphthalene	U		0.124	0.500	1	11/17/2024 19:58	WG2403355
n-Propylbenzene	U		0.0472	0.200	1	11/17/2024 19:58	WG2403355
Styrene	U		0.109	0.500	1	11/17/2024 19:58	WG2403355
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 19:58	WG2403355
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 19:58	WG2403355

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 19:58	WG2403355
Tetrachloroethene	0.0670	J	0.0280	0.100	1	11/25/2024 15:10	WG2406168
Toluene	U		0.0500	0.200	1	11/17/2024 19:58	WG2403355
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/17/2024 19:58	WG2403355
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/17/2024 19:58	WG2403355
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 19:58	WG2403355
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 19:58	WG2403355
Trichloroethene	U		0.0160	0.0400	1	11/25/2024 15:10	WG2406168
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 19:58	WG2403355
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 19:58	WG2403355
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/17/2024 19:58	WG2403355
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 19:58	WG2403355
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 19:58	WG2403355
Vinyl acetate	U		0.141	0.500	1	11/17/2024 19:58	WG2403355
Vinyl chloride	U		0.0273	0.100	1	11/25/2024 15:10	WG2406168
Xylenes, Total	U		0.191	0.260	1	11/17/2024 19:58	WG2403355
(S) Toluene-d8	*105*			*75.0-131*		*11/17/2024 19:58*	WG2403355
(S) Toluene-d8	*101*			*75.0-131*		*11/25/2024 15:10*	WG2406168
(S) 4-Bromofluorobenzene	*98.9*			*67.0-138*		*11/17/2024 19:58*	WG2403355
(S) 4-Bromofluorobenzene	*86.1*			*67.0-138*		*11/25/2024 15:10*	WG2406168
(S) 1,2-Dichloroethane-d4	*92.1*			*70.0-130*		*11/17/2024 19:58*	WG2403355
(S) 1,2-Dichloroethane-d4	*99.9*			*70.0-130*		*11/25/2024 15:10*	WG2406168

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.54	B C5	0.548	1.00	1	11/17/2024 20:17	WG2403355
Acrylonitrile	U	J4	0.0760	0.500	1	11/17/2024 20:17	WG2403355
Benzene	U		0.0160	0.0400	1	11/17/2024 20:17	WG2403355
Bromobenzene	U		0.0420	0.500	1	11/17/2024 20:17	WG2403355
Bromochloromethane	U		0.0452	0.200	1	11/17/2024 20:17	WG2403355
Bromodichloromethane	U		0.0315	0.100	1	11/17/2024 20:17	WG2403355
Bromoform	U		0.239	1.00	1	11/17/2024 20:17	WG2403355
Bromomethane	U		0.148	0.500	1	11/17/2024 20:17	WG2403355
n-Butylbenzene	U		0.153	0.500	1	11/17/2024 20:17	WG2403355
sec-Butylbenzene	U		0.101	0.500	1	11/17/2024 20:17	WG2403355
tert-Butylbenzene	U		0.0620	0.200	1	11/17/2024 20:17	WG2403355
Carbon disulfide	U		0.162	0.500	1	11/17/2024 20:17	WG2403355
Carbon tetrachloride	U		0.0432	0.200	1	11/17/2024 20:17	WG2403355
Chlorobenzene	U		0.0229	0.100	1	11/17/2024 20:17	WG2403355
Chlorodibromomethane	U		0.0180	0.100	1	11/17/2024 20:17	WG2403355
Chloroethane	U		0.0432	0.200	1	11/17/2024 20:17	WG2403355
Chloroform	U		0.0166	0.100	1	11/17/2024 20:17	WG2403355
Chloromethane	U	C3	0.0556	0.500	1	11/17/2024 20:17	WG2403355
2-Chlorotoluene	U		0.0368	0.100	1	11/17/2024 20:17	WG2403355
4-Chlorotoluene	U		0.0452	0.200	1	11/17/2024 20:17	WG2403355
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/17/2024 20:17	WG2403355
1,2-Dibromoethane	U		0.0210	0.100	1	11/17/2024 20:17	WG2403355
Dibromomethane	0.0830	J	0.0400	0.200	1	11/17/2024 20:17	WG2403355
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/17/2024 20:17	WG2403355
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/17/2024 20:17	WG2403355
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/17/2024 20:17	WG2403355
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/17/2024 20:17	WG2403355
Dichlorodifluoromethane	U		0.0327	0.200	1	11/17/2024 20:17	WG2403355
1,1-Dichloroethane	U		0.0230	0.100	1	11/17/2024 20:17	WG2403355
1,2-Dichloroethane	U		0.0190	0.100	1	11/17/2024 20:17	WG2403355
1,1-Dichloroethene	U		0.0200	0.100	1	11/17/2024 20:17	WG2403355
cis-1,2-Dichloroethene	0.0750	B J	0.0276	0.100	1	11/25/2024 15:30	WG2406168
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/17/2024 20:17	WG2403355
1,2-Dichloropropane	U		0.0508	0.200	1	11/17/2024 20:17	WG2403355
1,1-Dichloropropene	U		0.0280	0.100	1	11/17/2024 20:17	WG2403355
1,3-Dichloropropane	U		0.0700	0.200	1	11/17/2024 20:17	WG2403355
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/17/2024 20:17	WG2403355
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/17/2024 20:17	WG2403355
2,2-Dichloropropane	U	J4	0.0317	0.100	1	11/17/2024 20:17	WG2403355
Di-isopropyl ether	0.0280	J	0.0140	0.0400	1	11/17/2024 20:17	WG2403355
Ethylbenzene	0.103		0.0212	0.100	1	11/17/2024 20:17	WG2403355
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/17/2024 20:17	WG2403355
2-Hexanone	U		0.400	1.00	1	11/17/2024 20:17	WG2403355
n-Hexane	U		0.0424	0.200	1	11/17/2024 20:17	WG2403355
Iodomethane	U		0.242	0.500	1	11/17/2024 20:17	WG2403355
Isopropylbenzene	0.0720	J	0.0345	0.100	1	11/17/2024 20:17	WG2403355
p-Isopropyltoluene	U		0.0932	0.200	1	11/17/2024 20:17	WG2403355
2-Butanone (MEK)	U		0.500	1.00	1	11/17/2024 20:17	WG2403355
Methylene Chloride	U		0.265	1.00	1	11/17/2024 20:17	WG2403355
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/17/2024 20:17	WG2403355
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/17/2024 20:17	WG2403355
Naphthalene	U		0.124	0.500	1	11/17/2024 20:17	WG2403355
n-Propylbenzene	0.0490	J	0.0472	0.200	1	11/17/2024 20:17	WG2403355
Styrene	U		0.109	0.500	1	11/17/2024 20:17	WG2403355
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/17/2024 20:17	WG2403355
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/17/2024 20:17	WG2403355

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/17/2024 20:17	WG2403355
Tetrachloroethene	U		0.0280	0.100	1	11/25/2024 15:30	WG2406168
Toluene	0.176	J	0.0500	0.200	1	11/17/2024 20:17	WG2403355
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/17/2024 20:17	WG2403355
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/17/2024 20:17	WG2403355
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/17/2024 20:17	WG2403355
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/17/2024 20:17	WG2403355
Trichloroethene	U		0.0160	0.0400	1	11/25/2024 15:30	WG2406168
Trichlorofluoromethane	U		0.0200	0.100	1	11/17/2024 20:17	WG2403355
1,2,3-Trichloropropane	U		0.204	0.500	1	11/17/2024 20:17	WG2403355
1,2,4-Trimethylbenzene	0.0830	J	0.0464	0.200	1	11/17/2024 20:17	WG2403355
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/17/2024 20:17	WG2403355
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/17/2024 20:17	WG2403355
Vinyl acetate	U		0.141	0.500	1	11/17/2024 20:17	WG2403355
Vinyl chloride	U		0.0273	0.100	1	11/25/2024 15:30	WG2406168
Xylenes, Total	0.644		0.191	0.260	1	11/17/2024 20:17	WG2403355
(S) Toluene-d8	*106*			*75.0-131*		*11/17/2024 20:17*	WG2403355
(S) Toluene-d8	*99.7*			*75.0-131*		*11/25/2024 15:30*	WG2406168
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*11/17/2024 20:17*	WG2403355
(S) 4-Bromofluorobenzene	*90.8*			*67.0-138*		*11/25/2024 15:30*	WG2406168
(S) 1,2-Dichloroethane-d4	*91.5*			*70.0-130*		*11/17/2024 20:17*	WG2403355
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/25/2024 15:30*	WG2406168

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/20/2024 00:07	WG2405418
Acrylonitrile	U		0.0760	0.500	1	11/20/2024 00:07	WG2405418
Benzene	U		0.0160	0.0400	1	11/20/2024 00:07	WG2405418
Bromobenzene	U		0.0420	0.500	1	11/20/2024 00:07	WG2405418
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 00:07	WG2405418
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 00:07	WG2405418
Bromoform	U		0.239	1.00	1	11/20/2024 00:07	WG2405418
Bromomethane	U		0.148	0.500	1	11/20/2024 00:07	WG2405418
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 00:07	WG2405418
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 00:07	WG2405418
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 00:07	WG2405418
Carbon disulfide	0.204	B J	0.162	0.500	1	11/20/2024 00:07	WG2405418
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 00:07	WG2405418
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 00:07	WG2405418
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 00:07	WG2405418
Chloroethane	U		0.0432	0.200	1	11/20/2024 00:07	WG2405418
Chloroform	U		0.0166	0.100	1	11/20/2024 00:07	WG2405418
Chloromethane	U	J3	0.0556	0.500	1	11/20/2024 00:07	WG2405418
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 00:07	WG2405418
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 00:07	WG2405418
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/20/2024 00:07	WG2405418
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 00:07	WG2405418
Dibromomethane	U		0.0400	0.200	1	11/20/2024 00:07	WG2405418
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 00:07	WG2405418
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 00:07	WG2405418
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 00:07	WG2405418
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/20/2024 00:07	WG2405418
Dichlorodifluoromethane	U	C3	0.0327	0.200	1	11/20/2024 00:07	WG2405418
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 00:07	WG2405418
1,2-Dichloroethane	U		0.0190	0.100	1	11/20/2024 00:07	WG2405418
1,1-Dichloroethene	U		0.0200	0.100	1	11/20/2024 00:07	WG2405418
cis-1,2-Dichloroethene	6.34		0.0276	0.100	1	11/20/2024 00:07	WG2405418
trans-1,2-Dichloroethene	0.0910	J	0.0572	0.200	1	11/20/2024 00:07	WG2405418
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 00:07	WG2405418
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 00:07	WG2405418
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 00:07	WG2405418
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 00:07	WG2405418
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 00:07	WG2405418
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 00:07	WG2405418
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 00:07	WG2405418
Ethylbenzene	U		0.0212	0.100	1	11/20/2024 00:07	WG2405418
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/20/2024 00:07	WG2405418
2-Hexanone	U		0.400	1.00	1	11/20/2024 00:07	WG2405418
n-Hexane	U		0.0424	0.200	1	11/20/2024 00:07	WG2405418
Iodomethane	U		0.242	0.500	1	11/20/2024 00:07	WG2405418
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 00:07	WG2405418
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 00:07	WG2405418
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/20/2024 00:07	WG2405418
Methylene Chloride	U		0.265	1.00	1	11/20/2024 00:07	WG2405418
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 00:07	WG2405418
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 00:07	WG2405418
Naphthalene	U		0.124	0.500	1	11/20/2024 00:07	WG2405418
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 00:07	WG2405418
Styrene	U		0.109	0.500	1	11/20/2024 00:07	WG2405418
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 00:07	WG2405418
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 00:07	WG2405418

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 00:07	WG2405418
Tetrachloroethene	U		0.0280	0.100	1	11/20/2024 00:07	WG2405418
Toluene	U		0.0500	0.200	1	11/20/2024 00:07	WG2405418
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 00:07	WG2405418
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 00:07	WG2405418
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 00:07	WG2405418
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 00:07	WG2405418
Trichloroethene	U		0.0160	0.0400	1	11/20/2024 00:07	WG2405418
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 00:07	WG2405418
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 00:07	WG2405418
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 00:07	WG2405418
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 00:07	WG2405418
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 00:07	WG2405418
Vinyl acetate	U		0.141	0.500	1	11/20/2024 00:07	WG2405418
Vinyl chloride	0.110		0.0273	0.100	1	11/24/2024 13:07	WG2406076
Xylenes, Total	U		0.191	0.260	1	11/20/2024 00:07	WG2405418
(S) Toluene-d8	*101*			*75.0-131*		*11/20/2024 00:07*	WG2405418
(S) Toluene-d8	*101*			*75.0-131*		*11/24/2024 13:07*	WG2406076
(S) 4-Bromofluorobenzene	*83.9*			*67.0-138*		*11/20/2024 00:07*	WG2405418
(S) 4-Bromofluorobenzene	*96.8*			*67.0-138*		*11/24/2024 13:07*	WG2406076
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/20/2024 00:07*	WG2405418
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/24/2024 13:07*	WG2406076

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/19/2024 23:47	WG2405418
Acrylonitrile	U		0.0760	0.500	1	11/19/2024 23:47	WG2405418
Benzene	U		0.0160	0.0400	1	11/19/2024 23:47	WG2405418
Bromobenzene	U		0.0420	0.500	1	11/24/2024 13:26	WG2406076
Bromochloromethane	U		0.0452	0.200	1	11/19/2024 23:47	WG2405418
Bromodichloromethane	U		0.0315	0.100	1	11/19/2024 23:47	WG2405418
Bromoform	U		0.239	1.00	1	11/19/2024 23:47	WG2405418
Bromomethane	U		0.148	0.500	1	11/19/2024 23:47	WG2405418
n-Butylbenzene	U		0.153	0.500	1	11/24/2024 13:26	WG2406076
sec-Butylbenzene	U		0.101	0.500	1	11/24/2024 13:26	WG2406076
tert-Butylbenzene	U		0.0620	0.200	1	11/24/2024 13:26	WG2406076
Carbon disulfide	U		0.162	0.500	1	11/19/2024 23:47	WG2405418
Carbon tetrachloride	U		0.0432	0.200	1	11/19/2024 23:47	WG2405418
Chlorobenzene	U		0.0229	0.100	1	11/19/2024 23:47	WG2405418
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2024 23:47	WG2405418
Chloroethane	U		0.0432	0.200	1	11/19/2024 23:47	WG2405418
Chloroform	U		0.0166	0.100	1	11/19/2024 23:47	WG2405418
Chloromethane	U	J3	0.0556	0.500	1	11/19/2024 23:47	WG2405418
2-Chlorotoluene	U		0.0368	0.100	1	11/24/2024 13:26	WG2406076
4-Chlorotoluene	U		0.0452	0.200	1	11/24/2024 13:26	WG2406076
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/24/2024 13:26	WG2406076
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2024 23:47	WG2405418
Dibromomethane	U		0.0400	0.200	1	11/19/2024 23:47	WG2405418
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/24/2024 13:26	WG2406076
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/24/2024 13:26	WG2406076
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/24/2024 13:26	WG2406076
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 13:26	WG2406076
Dichlorodifluoromethane	U	C3	0.0327	0.200	1	11/19/2024 23:47	WG2405418
1,1-Dichloroethane	0.381		0.0230	0.100	1	11/19/2024 23:47	WG2405418
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2024 23:47	WG2405418
1,1-Dichloroethene	0.0460	J	0.0200	0.100	1	11/19/2024 23:47	WG2405418
cis-1,2-Dichloroethene	0.564		0.0276	0.100	1	11/24/2024 13:26	WG2406076
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2024 23:47	WG2405418
1,2-Dichloropropane	0.0660	J	0.0508	0.200	1	11/19/2024 23:47	WG2405418
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2024 23:47	WG2405418
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2024 23:47	WG2405418
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2024 23:47	WG2405418
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2024 23:47	WG2405418
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2024 23:47	WG2405418
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2024 23:47	WG2405418
Ethylbenzene	U		0.0212	0.100	1	11/19/2024 23:47	WG2405418
Hexachloro-1,3-butadiene	U		0.508	1.00	1	11/24/2024 13:26	WG2406076
2-Hexanone	U		0.400	1.00	1	11/19/2024 23:47	WG2405418
n-Hexane	U		0.0424	0.200	1	11/19/2024 23:47	WG2405418
Iodomethane	U		0.242	0.500	1	11/19/2024 23:47	WG2405418
Isopropylbenzene	U		0.0345	0.100	1	11/19/2024 23:47	WG2405418
p-Isopropyltoluene	U		0.0932	0.200	1	11/24/2024 13:26	WG2406076
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/19/2024 23:47	WG2405418
Methylene Chloride	U		0.265	1.00	1	11/19/2024 23:47	WG2405418
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/19/2024 23:47	WG2405418
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2024 23:47	WG2405418
Naphthalene	U	C3	0.124	0.500	1	11/24/2024 13:26	WG2406076
n-Propylbenzene	U		0.0472	0.200	1	11/24/2024 13:26	WG2406076
Styrene	U		0.109	0.500	1	11/19/2024 23:47	WG2405418
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2024 23:47	WG2405418
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/24/2024 13:26	WG2406076

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	0.176		0.0270	0.100	1	11/19/2024 23:47	WG2405418
Tetrachloroethene	U		0.0280	0.100	1	11/19/2024 23:47	WG2405418
Toluene	U		0.0500	0.200	1	11/19/2024 23:47	WG2405418
1,2,3-Trichlorobenzene	U	C3	0.0250	0.500	1	11/24/2024 13:26	WG2406076
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/24/2024 13:26	WG2406076
1,1,1-Trichloroethane	0.0570	J	0.0110	0.100	1	11/19/2024 23:47	WG2405418
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2024 23:47	WG2405418
Trichloroethene	U		0.0160	0.0400	1	11/19/2024 23:47	WG2405418
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2024 23:47	WG2405418
1,2,3-Trichloropropane	U		0.204	0.500	1	11/24/2024 13:26	WG2406076
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/24/2024 13:26	WG2406076
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/24/2024 13:26	WG2406076
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/24/2024 13:26	WG2406076
Vinyl acetate	U		0.141	0.500	1	11/19/2024 23:47	WG2405418
Vinyl chloride	0.171		0.0273	0.100	1	11/24/2024 13:26	WG2406076
Xylenes, Total	U		0.191	0.260	1	11/19/2024 23:47	WG2405418
(S) Toluene-d8	*102*			*75.0-131*		*11/19/2024 23:47*	WG2405418
(S) Toluene-d8	*103*			*75.0-131*		*11/24/2024 13:26*	WG2406076
(S) 4-Bromofluorobenzene	*83.6*			*67.0-138*		*11/19/2024 23:47*	WG2405418
(S) 4-Bromofluorobenzene	*82.5*			*67.0-138*		*11/24/2024 13:26*	WG2406076
(S) 1,2-Dichloroethane-d4	*99.1*			*70.0-130*		*11/19/2024 23:47*	WG2405418
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/24/2024 13:26*	WG2406076

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/19/2024 23:27	WG2405418
Acrylonitrile	U		0.0760	0.500	1	11/19/2024 23:27	WG2405418
Benzene	U		0.0160	0.0400	1	11/19/2024 23:27	WG2405418
Bromobenzene	U		0.0420	0.500	1	11/19/2024 23:27	WG2405418
Bromochloromethane	U		0.0452	0.200	1	11/19/2024 23:27	WG2405418
Bromodichloromethane	U		0.0315	0.100	1	11/19/2024 23:27	WG2405418
Bromoform	U		0.239	1.00	1	11/19/2024 23:27	WG2405418
Bromomethane	U		0.148	0.500	1	11/19/2024 23:27	WG2405418
n-Butylbenzene	U		0.153	0.500	1	11/19/2024 23:27	WG2405418
sec-Butylbenzene	U		0.101	0.500	1	11/19/2024 23:27	WG2405418
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2024 23:27	WG2405418
Carbon disulfide	0.405	B J	0.162	0.500	1	11/19/2024 23:27	WG2405418
Carbon tetrachloride	U		0.0432	0.200	1	11/19/2024 23:27	WG2405418
Chlorobenzene	U		0.0229	0.100	1	11/19/2024 23:27	WG2405418
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2024 23:27	WG2405418
Chloroethane	U		0.0432	0.200	1	11/19/2024 23:27	WG2405418
Chloroform	U		0.0166	0.100	1	11/19/2024 23:27	WG2405418
Chloromethane	U	J3	0.0556	0.500	1	11/19/2024 23:27	WG2405418
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2024 23:27	WG2405418
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2024 23:27	WG2405418
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2024 23:27	WG2405418
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2024 23:27	WG2405418
Dibromomethane	U		0.0400	0.200	1	11/19/2024 23:27	WG2405418
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2024 23:27	WG2405418
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2024 23:27	WG2405418
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2024 23:27	WG2405418
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2024 23:27	WG2405418
Dichlorodifluoromethane	U	C3	0.0327	0.200	1	11/19/2024 23:27	WG2405418
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2024 23:27	WG2405418
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2024 23:27	WG2405418
1,1-Dichloroethene	0.372		0.0200	0.100	1	11/19/2024 23:27	WG2405418
cis-1,2-Dichloroethene	194		0.276	1.00	10	11/24/2024 14:05	WG2406076
trans-1,2-Dichloroethene	0.251		0.0572	0.200	1	11/19/2024 23:27	WG2405418
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2024 23:27	WG2405418
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2024 23:27	WG2405418
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2024 23:27	WG2405418
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2024 23:27	WG2405418
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2024 23:27	WG2405418
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2024 23:27	WG2405418
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2024 23:27	WG2405418
Ethylbenzene	U		0.0212	0.100	1	11/19/2024 23:27	WG2405418
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/19/2024 23:27	WG2405418
2-Hexanone	U		0.400	1.00	1	11/19/2024 23:27	WG2405418
n-Hexane	U		0.0424	0.200	1	11/19/2024 23:27	WG2405418
Iodomethane	U		0.242	0.500	1	11/19/2024 23:27	WG2405418
Isopropylbenzene	U		0.0345	0.100	1	11/19/2024 23:27	WG2405418
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2024 23:27	WG2405418
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/19/2024 23:27	WG2405418
Methylene Chloride	U		0.265	1.00	1	11/19/2024 23:27	WG2405418
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/19/2024 23:27	WG2405418
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2024 23:27	WG2405418
Naphthalene	U		0.124	0.500	1	11/19/2024 23:27	WG2405418
n-Propylbenzene	U		0.0472	0.200	1	11/19/2024 23:27	WG2405418
Styrene	U		0.109	0.500	1	11/19/2024 23:27	WG2405418
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2024 23:27	WG2405418
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2024 23:27	WG2405418

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2024 23:27	WG2405418
Tetrachloroethene	U		0.0280	0.100	1	11/19/2024 23:27	WG2405418
Toluene	U		0.0500	0.200	1	11/19/2024 23:27	WG2405418
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2024 23:27	WG2405418
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2024 23:27	WG2405418
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2024 23:27	WG2405418
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2024 23:27	WG2405418
Trichloroethene	0.240	B	0.0160	0.0400	1	11/19/2024 23:27	WG2405418
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2024 23:27	WG2405418
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2024 23:27	WG2405418
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2024 23:27	WG2405418
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2024 23:27	WG2405418
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2024 23:27	WG2405418
Vinyl acetate	U		0.141	0.500	1	11/19/2024 23:27	WG2405418
Vinyl chloride	92.7		0.273	1.00	10	11/24/2024 14:05	WG2406076
Xylenes, Total	U		0.191	0.260	1	11/19/2024 23:27	WG2405418
(S) Toluene-d8	*100*			*75.0-131*		*11/19/2024 23:27*	WG2405418
(S) Toluene-d8	*100*			*75.0-131*		*11/24/2024 14:05*	WG2406076
(S) 4-Bromofluorobenzene	*87.7*			*67.0-138*		*11/19/2024 23:27*	WG2405418
(S) 4-Bromofluorobenzene	*93.5*			*67.0-138*		*11/24/2024 14:05*	WG2406076
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/19/2024 23:27*	WG2405418
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/24/2024 14:05*	WG2406076

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	11/19/2024 23:07	WG2405418
Acrylonitrile	U		0.0760	0.500	1	11/19/2024 23:07	WG2405418
Benzene	U		0.0160	0.0400	1	11/19/2024 23:07	WG2405418
Bromobenzene	U		0.0420	0.500	1	11/19/2024 23:07	WG2405418
Bromochloromethane	U		0.0452	0.200	1	11/19/2024 23:07	WG2405418
Bromodichloromethane	U		0.0315	0.100	1	11/19/2024 23:07	WG2405418
Bromoform	U		0.239	1.00	1	11/19/2024 23:07	WG2405418
Bromomethane	U		0.148	0.500	1	11/19/2024 23:07	WG2405418
n-Butylbenzene	U		0.153	0.500	1	11/19/2024 23:07	WG2405418
sec-Butylbenzene	U		0.101	0.500	1	11/19/2024 23:07	WG2405418
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2024 23:07	WG2405418
Carbon disulfide	U		0.162	0.500	1	11/19/2024 23:07	WG2405418
Carbon tetrachloride	U		0.0432	0.200	1	11/19/2024 23:07	WG2405418
Chlorobenzene	U		0.0229	0.100	1	11/19/2024 23:07	WG2405418
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2024 23:07	WG2405418
Chloroethane	U		0.0432	0.200	1	11/19/2024 23:07	WG2405418
Chloroform	U		0.0166	0.100	1	11/19/2024 23:07	WG2405418
Chloromethane	U	J3	0.0556	0.500	1	11/19/2024 23:07	WG2405418
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2024 23:07	WG2405418
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2024 23:07	WG2405418
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2024 23:07	WG2405418
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2024 23:07	WG2405418
Dibromomethane	U		0.0400	0.200	1	11/19/2024 23:07	WG2405418
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2024 23:07	WG2405418
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2024 23:07	WG2405418
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2024 23:07	WG2405418
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2024 23:07	WG2405418
Dichlorodifluoromethane	U	C3	0.0327	0.200	1	11/19/2024 23:07	WG2405418
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2024 23:07	WG2405418
1,2-Dichloroethane	U		0.0190	0.100	1	11/19/2024 23:07	WG2405418
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2024 23:07	WG2405418
cis-1,2-Dichloroethene	0.161		0.0276	0.100	1	11/19/2024 23:07	WG2405418
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2024 23:07	WG2405418
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2024 23:07	WG2405418
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2024 23:07	WG2405418
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2024 23:07	WG2405418
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2024 23:07	WG2405418
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2024 23:07	WG2405418
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2024 23:07	WG2405418
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2024 23:07	WG2405418
Ethylbenzene	U		0.0212	0.100	1	11/19/2024 23:07	WG2405418
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/19/2024 23:07	WG2405418
2-Hexanone	U		0.400	1.00	1	11/19/2024 23:07	WG2405418
n-Hexane	U		0.0424	0.200	1	11/19/2024 23:07	WG2405418
Iodomethane	U		0.242	0.500	1	11/19/2024 23:07	WG2405418
Isopropylbenzene	U		0.0345	0.100	1	11/19/2024 23:07	WG2405418
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2024 23:07	WG2405418
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/19/2024 23:07	WG2405418
Methylene Chloride	U		0.265	1.00	1	11/19/2024 23:07	WG2405418
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/19/2024 23:07	WG2405418
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2024 23:07	WG2405418
Naphthalene	U		0.124	0.500	1	11/19/2024 23:07	WG2405418
n-Propylbenzene	U		0.0472	0.200	1	11/19/2024 23:07	WG2405418
Styrene	U		0.109	0.500	1	11/19/2024 23:07	WG2405418
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2024 23:07	WG2405418
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2024 23:07	WG2405418

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2024 23:07	WG2405418
Tetrachloroethene	U		0.0280	0.100	1	11/19/2024 23:07	WG2405418
Toluene	U		0.0500	0.200	1	11/19/2024 23:07	WG2405418
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2024 23:07	WG2405418
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2024 23:07	WG2405418
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2024 23:07	WG2405418
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2024 23:07	WG2405418
Trichloroethene	0.0830	B	0.0160	0.0400	1	11/19/2024 23:07	WG2405418
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2024 23:07	WG2405418
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2024 23:07	WG2405418
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2024 23:07	WG2405418
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2024 23:07	WG2405418
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2024 23:07	WG2405418
Vinyl acetate	U		0.141	0.500	1	11/19/2024 23:07	WG2405418
Vinyl chloride	0.220		0.0273	0.100	1	11/19/2024 23:07	WG2405418
Xylenes, Total	U		0.191	0.260	1	11/19/2024 23:07	WG2405418
(S) Toluene-d8	*99.9*			*75.0-131*		*11/19/2024 23:07*	WG2405418
(S) 4-Bromofluorobenzene	*89.9*			*67.0-138*		*11/19/2024 23:07*	WG2405418
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/19/2024 23:07*	WG2405418

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	12.4		0.548	1.00	1	11/19/2024 20:49	WG2405418
Acrylonitrile	U		0.0760	0.500	1	11/19/2024 20:49	WG2405418
Benzene	U		0.0160	0.0400	1	11/19/2024 20:49	WG2405418
Bromobenzene	U		0.0420	0.500	1	11/19/2024 20:49	WG2405418
Bromochloromethane	U		0.0452	0.200	1	11/19/2024 20:49	WG2405418
Bromodichloromethane	U		0.0315	0.100	1	11/19/2024 20:49	WG2405418
Bromoform	U		0.239	1.00	1	11/19/2024 20:49	WG2405418
Bromomethane	U		0.148	0.500	1	11/19/2024 20:49	WG2405418
n-Butylbenzene	U		0.153	0.500	1	11/19/2024 20:49	WG2405418
sec-Butylbenzene	U		0.101	0.500	1	11/19/2024 20:49	WG2405418
tert-Butylbenzene	U		0.0620	0.200	1	11/19/2024 20:49	WG2405418
Carbon disulfide	U		0.162	0.500	1	11/19/2024 20:49	WG2405418
Carbon tetrachloride	U		0.0432	0.200	1	11/19/2024 20:49	WG2405418
Chlorobenzene	U		0.0229	0.100	1	11/19/2024 20:49	WG2405418
Chlorodibromomethane	U		0.0180	0.100	1	11/19/2024 20:49	WG2405418
Chloroethane	U		0.0432	0.200	1	11/19/2024 20:49	WG2405418
Chloroform	0.0180	J	0.0166	0.100	1	11/19/2024 20:49	WG2405418
Chloromethane	U	J3	0.0556	0.500	1	11/19/2024 20:49	WG2405418
2-Chlorotoluene	U		0.0368	0.100	1	11/19/2024 20:49	WG2405418
4-Chlorotoluene	U		0.0452	0.200	1	11/19/2024 20:49	WG2405418
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	11/19/2024 20:49	WG2405418
1,2-Dibromoethane	U		0.0210	0.100	1	11/19/2024 20:49	WG2405418
Dibromomethane	U		0.0400	0.200	1	11/19/2024 20:49	WG2405418
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/19/2024 20:49	WG2405418
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/19/2024 20:49	WG2405418
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/19/2024 20:49	WG2405418
trans-1,4-Dichloro-2-butene	U	C3	0.0560	0.200	1	11/19/2024 20:49	WG2405418
Dichlorodifluoromethane	U	C3	0.0327	0.200	1	11/19/2024 20:49	WG2405418
1,1-Dichloroethane	U		0.0230	0.100	1	11/19/2024 20:49	WG2405418
1,2-Dichloroethane	0.0250	J	0.0190	0.100	1	11/19/2024 20:49	WG2405418
1,1-Dichloroethene	U		0.0200	0.100	1	11/19/2024 20:49	WG2405418
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/19/2024 20:49	WG2405418
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/19/2024 20:49	WG2405418
1,2-Dichloropropane	U		0.0508	0.200	1	11/19/2024 20:49	WG2405418
1,1-Dichloropropene	U		0.0280	0.100	1	11/19/2024 20:49	WG2405418
1,3-Dichloropropane	U		0.0700	0.200	1	11/19/2024 20:49	WG2405418
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/19/2024 20:49	WG2405418
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/19/2024 20:49	WG2405418
2,2-Dichloropropane	U		0.0317	0.100	1	11/19/2024 20:49	WG2405418
Di-isopropyl ether	U		0.0140	0.0400	1	11/19/2024 20:49	WG2405418
Ethylbenzene	U		0.0212	0.100	1	11/19/2024 20:49	WG2405418
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/19/2024 20:49	WG2405418
2-Hexanone	U		0.400	1.00	1	11/19/2024 20:49	WG2405418
n-Hexane	U		0.0424	0.200	1	11/19/2024 20:49	WG2405418
Iodomethane	U		0.242	0.500	1	11/19/2024 20:49	WG2405418
Isopropylbenzene	U		0.0345	0.100	1	11/19/2024 20:49	WG2405418
p-Isopropyltoluene	U		0.0932	0.200	1	11/19/2024 20:49	WG2405418
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/19/2024 20:49	WG2405418
Methylene Chloride	U		0.265	1.00	1	11/19/2024 20:49	WG2405418
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/19/2024 20:49	WG2405418
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/19/2024 20:49	WG2405418
Naphthalene	U		0.124	0.500	1	11/19/2024 20:49	WG2405418
n-Propylbenzene	U		0.0472	0.200	1	11/19/2024 20:49	WG2405418
Styrene	U		0.109	0.500	1	11/19/2024 20:49	WG2405418
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/19/2024 20:49	WG2405418
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/19/2024 20:49	WG2405418

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/19/2024 20:49	WG2405418
Tetrachloroethene	U		0.0280	0.100	1	11/19/2024 20:49	WG2405418
Toluene	0.0690	J	0.0500	0.200	1	11/19/2024 20:49	WG2405418
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/19/2024 20:49	WG2405418
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/19/2024 20:49	WG2405418
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/19/2024 20:49	WG2405418
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/19/2024 20:49	WG2405418
Trichloroethene	0.0370	B J	0.0160	0.0400	1	11/19/2024 20:49	WG2405418
Trichlorofluoromethane	U		0.0200	0.100	1	11/19/2024 20:49	WG2405418
1,2,3-Trichloropropane	U		0.204	0.500	1	11/19/2024 20:49	WG2405418
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/19/2024 20:49	WG2405418
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/19/2024 20:49	WG2405418
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/19/2024 20:49	WG2405418
Vinyl acetate	U		0.141	0.500	1	11/19/2024 20:49	WG2405418
Vinyl chloride	U		0.0273	0.100	1	11/19/2024 20:49	WG2405418
Xylenes, Total	U		0.191	0.260	1	11/19/2024 20:49	WG2405418
(S) Toluene-d8	*101*			*75.0-131*		*11/19/2024 20:49*	WG2405418
(S) 4-Bromofluorobenzene	*85.7*			*67.0-138*		*11/19/2024 20:49*	WG2405418
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/19/2024 20:49*	WG2405418

Method Blank (MB)

(MB) R4146130-2 11/14/24 09:19

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1799011-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1799011-01 11/14/24 09:48 • (DUP) R4146130-4 11/14/24 09:53

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	358000	354000	1	0.889		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1799074-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1799074-05 11/14/24 11:30 • (DUP) R4146130-6 11/14/24 11:33

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	21900	22400	1	2.18		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4146130-1 11/14/24 09:11

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

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4146131-2 11/14/24 12:17

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1798913-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1798913-01 11/14/24 12:28 • (DUP) R4146131-4 11/14/24 12:33

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	102000	102000	1	0.0754		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1799149-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1799149-01 11/14/24 14:31 • (DUP) R4146131-6 11/14/24 14:36

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	195000	197000	1	0.970		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4146131-1 11/14/24 12:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	104000	104	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4147883-2 11/19/24 09:08

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1799027-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1799027-01 11/19/24 09:29 • (DUP) R4147883-3 11/19/24 09:34

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	109000	110000	1	0.963		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1800977-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1800977-04 11/19/24 11:29 • (DUP) R4147883-4 11/19/24 11:34

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	500000	510000	1	2.00		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4147883-1 11/19/24 09:00

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

Sample Narrative:

LCS: Endpoint pH 4.5

QUALITY CONTROL SUMMARY

L1799093-03,04

Method Blank (MB)

(MB) R4146226-1 11/13/24 22:06

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

L1799028-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1799028-02 11/13/24 23:54 • (DUP) R4146226-3 11/14/24 05:59

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	215000	213000	1	0.523	E	15
Nitrate as (N)	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1799068-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1799068-01 11/14/24 02:23 • (DUP) R4146226-6 11/14/24 06:40

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	64200	64600	1	0.541		15
Nitrate as (N)	246	250	1	1.62		15
Sulfate	190000	191000	1	0.799	E	15

Laboratory Control Sample (LCS)

(LCS) R4146226-2 11/13/24 22:20

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	40900	102	80.0-120	
Nitrate as (N)	8000	8470	106	80.0-120	
Sulfate	40000	41400	103	80.0-120	

L1799028-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799028-02 11/13/24 23:54 • (MS) R4146226-4 11/14/24 06:13 • (MSD) R4146226-5 11/14/24 06:26

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 %
Chloride	40000	215000	211000	211000	0.000	0.000	1	80.0-120	E V	E V	0.182	15
Nitrate as (N)	8000	U	8550	8570	107	107	1	80.0-120			0.180	15
Sulfate	40000	U	41300	41300	103	103	1	80.0-120			0.0114	15

L1799068-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1799068-01 11/14/24 02:23 • (MS) R4146226-7 11/14/24 06:53

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	64200	93100	72.3	1	80.0-120	J6
Nitrate as (N)	8000	246	8920	108	1	80.0-120	
Sulfate	40000	190000	189000	0.000	1	80.0-120	E V

Method Blank (MB)

(MB) R4146260-1 11/14/24 03:37

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

Method Blank (MB)

(MB) R4148441-1 11/19/24 12:24

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

L1799028-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1799028-10 11/14/24 04:58 • (DUP) R4146260-3 11/14/24 05:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	117000	119000	1	1.50		15
Nitrate as (N)	U	U	1	0.000		15

L1799029-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1799029-01 11/14/24 05:52 • (DUP) R4146260-6 11/14/24 06:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Nitrate as (N)	2200	2190	1	0.337		15

L1799028-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1799028-10 11/19/24 14:09 • (DUP) R4148441-3 11/19/24 14:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Sulfate	32100	31500	1	2.02		15

L1799029-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1799029-01 11/19/24 15:19 • (DUP) R4148441-6 11/19/24 15:36

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	57400	58800	1	2.42		15

Laboratory Control Sample (LCS)

(LCS) R4146260-2 11/14/24 03:50

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	39600	98.9	80.0-120	
Nitrate as (N)	8000	8070	101	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4148441-2 11/19/24 12:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40000	42200	105	80.0-120	

L1799028-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799028-10 11/14/24 04:58 • (MS) R4146260-4 11/14/24 05:25 • (MSD) R4146260-5 11/14/24 05:38

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	117000	136000	135000	47.0	44.0	1	80.0-120	J6	J6	0.874	15
Nitrate as (N)	8000	U	8030	8000	100	100	1	80.0-120			0.353	15

L1799029-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1799029-01 11/14/24 05:52 • (MS) R4146260-7 11/14/24 06:19

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	238000	231000	0.000	1	80.0-120	E V
Nitrate as (N)	8000	2200	10000	97.8	1	80.0-120	

L1799028-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799028-10 11/19/24 14:09 • (MS) R4148441-4 11/19/24 14:44 • (MSD) R4148441-5 11/19/24 15:01

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	40000	32100	69100	69600	92.3	93.8	1	80.0-120			0.853	15

L1799029-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1799029-01 11/19/24 15:19 • (MS) R4148441-7 11/19/24 15:58

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	40000	57400	89600	80.5	1	80.0-120	

Method Blank (MB)

(MB) R4147575-2 11/16/24 21:04

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

L1799014-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1799014-07 11/16/24 23:04 • (DUP) R4147575-5 11/16/24 23:23

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	3210	2820	1	12.9		20

L1799045-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1799045-10 11/17/24 04:21 • (DUP) R4147575-8 11/17/24 04:40

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	5070	4400	1	14.1		20

Laboratory Control Sample (LCS)

(LCS) R4147575-1 11/16/24 20:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25000	23700	94.8	85.0-115	

L1799014-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799014-06 11/16/24 21:47 • (MS) R4147575-3 11/16/24 22:16 • (MSD) R4147575-4 11/16/24 22:44

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	7150	28100	28600	83.9	85.9	1	85.0-115	J6		1.77	20

L1799029-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799029-09 11/17/24 03:05 • (MS) R4147575-6 11/17/24 03:34 • (MSD) R4147575-7 11/17/24 04:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	9960	34200	35600	97.1	102	1	85.0-115			3.80	20

QUALITY CONTROL SUMMARY

L1799093-04

Method Blank (MB)

(MB) R4148196-2 11/19/24 17:35

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

L1799098-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1799098-03 11/19/24 19:20 • (DUP) R4148196-3 11/19/24 19:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	4790	4230	1	12.4		20

L1799523-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1799523-07 11/20/24 01:54 • (DUP) R4148196-8 11/20/24 02:12

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	927	789	1	16.1	J	20

Laboratory Control Sample (LCS)

(LCS) R4148196-1 11/19/24 17:16

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	25000	23400	93.6	85.0-115	

L1799098-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799098-13 11/19/24 20:20 • (MS) R4148196-4 11/19/24 20:51 • (MSD) R4148196-5 11/19/24 21:21

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	3880	28100	28400	97.0	98.1	1	85.0-115			0.959	20

L1799523-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799523-02 11/20/24 00:35 • (MS) R4148196-6 11/20/24 01:04 • (MSD) R4148196-7 11/20/24 01:32

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	974	24900	25100	95.7	96.6	1	85.0-115			0.898	20

Method Blank (MB)

(MB) R4149108-1 11/21/24 14:55

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

Laboratory Control Sample (LCS)

(LCS) R4149108-2 11/21/24 14:59

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	1000	1020	102	80.0-120	
Manganese	50.0	50.4	101	80.0-120	

L1799026-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799026-07 11/21/24 15:02 • (MS) R4149108-4 11/21/24 15:08 • (MSD) R4149108-5 11/21/24 15:12

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	367	1370	1380	100	102	1	75.0-125			1.22	20
Manganese	50.0	4750	4780	4790	48.1	75.2	1	75.0-125	V		0.283	20

Method Blank (MB)

(MB) R4147014-2 11/17/24 14:01

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

L1799037-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1799037-02 11/17/24 15:35 • (DUP) R4147014-3 11/17/24 16:03

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

L1799093-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1799093-03 11/17/24 16:43 • (DUP) R4147014-4 11/17/24 17:19

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

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

(LCS) R4147014-1 11/17/24 13:55 • (LCSD) R4147014-5 11/17/24 17:28

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	64.2	71.8	94.7	106	85.0-115			11.2	20
Ethane	129	121	124	93.8	96.1	85.0-115			2.45	20
Ethene	127	120	125	94.5	98.4	85.0-115			4.08	20

Method Blank (MB)

(MB) R4147087-2 11/17/24 18:41

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

L1799037-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1799037-04 11/17/24 19:03 • (DUP) R4147087-3 11/17/24 23:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	20600	21300	10	3.34		20

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

(LCS) R4147087-1 11/17/24 18:23 • (LCSD) R4147087-6 11/18/24 01:00

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	65.7	66.5	96.9	98.1	85.0-115			1.21	20

L1799037-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799037-01 11/17/24 18:52 • (MS) R4147087-4 11/17/24 23:57 • (MSD) R4147087-5 11/18/24 00:44

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	%	%		%			%	%
Methane	678	21600	23700	23500	310	280	10	85.0-115	V	V	0.847	20

Method Blank (MB)

(MB) R4149037-2 11/17/24 14:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	0.754	J	0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromochloromethane	U		0.0452	0.200
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon disulfide	U		0.162	0.500
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	0.0240	J	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

Method Blank (MB)

(MB) R4149037-2 11/17/24 14:21

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	0.0360	J	0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-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	*95.5*			*75.0-131*
(S) 4-Bromofluorobenzene	*92.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*91.3*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4149037-1 11/17/24 13:23

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	35.4	142	10.0-160	
Acrylonitrile	25.0	41.3	165	45.0-153	J4
Benzene	5.00	5.44	109	70.0-123	
Bromobenzene	5.00	5.47	109	73.0-121	
Bromochloromethane	5.00	5.49	110	77.0-128	
Bromodichloromethane	5.00	4.88	97.6	73.0-121	
Bromoform	5.00	5.49	110	64.0-132	
Bromomethane	5.00	4.62	92.4	56.0-147	
n-Butylbenzene	5.00	4.79	95.8	68.0-135	
sec-Butylbenzene	5.00	5.03	101	74.0-130	
tert-Butylbenzene	5.00	5.08	102	75.0-127	
Carbon disulfide	5.00	5.87	117	56.0-133	
Carbon tetrachloride	5.00	6.04	121	66.0-128	
Chlorobenzene	5.00	5.16	103	76.0-128	
Chlorodibromomethane	5.00	5.18	104	74.0-127	
Chloroethane	5.00	4.90	98.0	61.0-134	
Chloroform	5.00	5.22	104	72.0-123	
Chloromethane	5.00	3.92	78.4	51.0-138	
2-Chlorotoluene	5.00	5.37	107	75.0-124	
4-Chlorotoluene	5.00	4.83	96.6	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	5.39	108	59.0-130	
1,2-Dibromoethane	5.00	5.16	103	74.0-128	
Dibromomethane	5.00	5.20	104	75.0-122	
1,2-Dichlorobenzene	5.00	4.82	96.4	76.0-124	
1,3-Dichlorobenzene	5.00	4.76	95.2	76.0-125	
1,4-Dichlorobenzene	5.00	4.87	97.4	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	5.70	114	45.0-143	
Dichlorodifluoromethane	5.00	6.58	132	43.0-156	
1,1-Dichloroethane	5.00	5.52	110	70.0-127	
1,2-Dichloroethane	5.00	4.95	99.0	65.0-131	
1,1-Dichloroethene	5.00	5.45	109	65.0-131	
cis-1,2-Dichloroethene	5.00	5.35	107	73.0-125	
trans-1,2-Dichloroethene	5.00	5.52	110	71.0-125	
1,2-Dichloropropane	5.00	5.35	107	74.0-125	
1,1-Dichloropropene	5.00	5.59	112	73.0-125	
1,3-Dichloropropane	5.00	5.19	104	80.0-125	
cis-1,3-Dichloropropene	5.00	5.39	108	76.0-127	
trans-1,3-Dichloropropene	5.00	5.22	104	73.0-127	
2,2-Dichloropropane	5.00	7.00	140	59.0-135	J4
Di-isopropyl ether	5.00	5.51	110	60.0-136	

Laboratory Control Sample (LCS)

(LCS) R4149037-1 11/17/24 13:23

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	5.00	5.29	106	74.0-126	
Hexachloro-1,3-butadiene	5.00	4.63	92.6	57.0-150	
2-Hexanone	25.0	29.1	116	54.0-147	
n-Hexane	5.00	6.15	123	55.0-137	
Iodomethane	25.0	26.6	106	74.0-134	
Isopropylbenzene	5.00	5.25	105	72.0-127	
p-Isopropyltoluene	5.00	5.08	102	72.0-133	
2-Butanone (MEK)	25.0	27.7	111	30.0-160	
Methylene Chloride	5.00	5.42	108	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	30.5	122	56.0-143	
Methyl tert-butyl ether	5.00	5.43	109	66.0-132	
Naphthalene	5.00	4.09	81.8	59.0-130	
n-Propylbenzene	5.00	5.42	108	74.0-126	
Styrene	5.00	5.46	109	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	6.09	122	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	6.01	120	68.0-128	
1,1,2-Trichlorotrifluoroethane	5.00	5.29	106	61.0-139	
Tetrachloroethene	5.00	5.69	114	70.0-136	
Toluene	5.00	5.46	109	75.0-121	
1,2,3-Trichlorobenzene	5.00	4.11	82.2	59.0-139	
1,2,4-Trichlorobenzene	5.00	4.07	81.4	62.0-137	
1,1,1-Trichloroethane	5.00	5.65	113	69.0-126	
1,1,2-Trichloroethane	5.00	5.27	105	78.0-123	
Trichloroethene	5.00	5.57	111	76.0-126	
Trichlorofluoromethane	5.00	4.63	92.6	61.0-142	J
1,2,3-Trichloropropane	5.00	5.60	112	67.0-129	
1,2,4-Trimethylbenzene	5.00	4.83	96.6	70.0-126	
1,2,3-Trimethylbenzene	5.00	4.85	97.0	74.0-124	
1,3,5-Trimethylbenzene	5.00	5.22	104	73.0-127	
Vinyl acetate	25.0	35.3	141	43.0-159	
Vinyl chloride	5.00	5.14	103	63.0-134	
Xylenes, Total	15.0	16.7	111	72.0-127	
(S) Toluene-d8			*105*	*75.0-131*	
(S) 4-Bromofluorobenzene			*103*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*94.6*	*70.0-130*	

Method Blank (MB)

(MB) R4148969-3 11/19/24 19:39

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	0.182	J	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

Method Blank (MB)

(MB) R4148969-3 11/19/24 19:39

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	0.0640		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	*87.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*

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

(LCS) R4148969-1 11/19/24 18:20 • (LCSD) R4148969-2 11/19/24 18:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	21.9	23.8	87.6	95.2	10.0-160			8.32	31
Acrylonitrile	25.0	25.0	25.2	100	101	45.0-153			0.797	22
Benzene	5.00	4.89	5.01	97.8	100	70.0-123			2.42	20
Bromobenzene	5.00	5.25	5.53	105	111	73.0-121			5.19	20
Bromochloromethane	5.00	5.21	5.17	104	103	77.0-128			0.771	20
Bromodichloromethane	5.00	5.17	5.26	103	105	73.0-121			1.73	20
Bromoform	5.00	4.02	4.11	80.4	82.2	64.0-132			2.21	20
Bromomethane	5.00	5.56	5.66	111	113	56.0-147			1.78	20
n-Butylbenzene	5.00	4.59	4.93	91.8	98.6	68.0-135			7.14	20
sec-Butylbenzene	5.00	5.06	5.32	101	106	74.0-130			5.01	20
tert-Butylbenzene	5.00	5.03	5.27	101	105	75.0-127			4.66	20
Carbon disulfide	5.00	4.87	5.03	97.4	101	56.0-133			3.23	20
Carbon tetrachloride	5.00	5.22	5.28	104	106	66.0-128			1.14	20
Chlorobenzene	5.00	4.79	4.80	95.8	96.0	76.0-128			0.209	20
Chlorodibromomethane	5.00	4.73	4.71	94.6	94.2	74.0-127			0.424	20
Chloroethane	5.00	6.26	6.50	125	130	61.0-134			3.76	20
Chloroform	5.00	4.85	4.82	97.0	96.4	72.0-123			0.620	20
Chloromethane	5.00	6.11	4.65	122	93.0	51.0-138		J3	27.1	20
2-Chlorotoluene	5.00	5.14	5.62	103	112	75.0-124			8.92	20
4-Chlorotoluene	5.00	5.25	5.37	105	107	75.0-124			2.26	20
1,2-Dibromo-3-Chloropropane	5.00	4.27	4.54	85.4	90.8	59.0-130			6.13	20
1,2-Dibromoethane	5.00	4.74	4.71	94.8	94.2	74.0-128			0.635	20
Dibromomethane	5.00	4.83	5.08	96.6	102	75.0-122			5.05	20
1,2-Dichlorobenzene	5.00	4.92	5.16	98.4	103	76.0-124			4.76	20
1,3-Dichlorobenzene	5.00	4.89	5.15	97.8	103	76.0-125			5.18	20
1,4-Dichlorobenzene	5.00	5.06	5.36	101	107	77.0-121			5.76	20
trans-1,4-Dichloro-2-butene	5.00	3.51	3.77	70.2	75.4	45.0-143			7.14	20
Dichlorodifluoromethane	5.00	3.83	4.04	76.6	80.8	43.0-156			5.34	20
1,1-Dichloroethane	5.00	4.90	5.06	98.0	101	70.0-127			3.21	20
1,2-Dichloroethane	5.00	4.93	5.01	98.6	100	65.0-131			1.61	20
1,1-Dichloroethene	5.00	5.14	5.48	103	110	65.0-131			6.40	20
cis-1,2-Dichloroethene	5.00	4.84	4.88	96.8	97.6	73.0-125			0.823	20
trans-1,2-Dichloroethene	5.00	4.32	4.63	86.4	92.6	71.0-125			6.93	20
1,2-Dichloropropane	5.00	5.31	5.34	106	107	74.0-125			0.563	20
1,1-Dichloropropene	5.00	5.25	5.40	105	108	73.0-125			2.82	20
1,3-Dichloropropane	5.00	5.05	5.08	101	102	80.0-125			0.592	20
cis-1,3-Dichloropropene	5.00	5.05	5.12	101	102	76.0-127			1.38	20
trans-1,3-Dichloropropene	5.00	4.82	4.82	96.4	96.4	73.0-127			0.000	20
2,2-Dichloropropane	5.00	4.66	4.54	93.2	90.8	59.0-135			2.61	20
Di-isopropyl ether	5.00	4.75	4.84	95.0	96.8	60.0-136			1.88	20

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

(LCS) R4148969-1 11/19/24 18:20 • (LCSD) R4148969-2 11/19/24 18:39

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	4.72	4.79	94.4	95.8	74.0-126			1.47	20
Hexachloro-1,3-butadiene	5.00	3.88	4.23	77.6	84.6	57.0-150			8.63	20
2-Hexanone	25.0	20.3	19.9	81.2	79.6	54.0-147			1.99	20
n-Hexane	5.00	4.65	4.68	93.0	93.6	55.0-137			0.643	20
Iodomethane	25.0	24.3	25.5	97.2	102	74.0-134			4.82	20
Isopropylbenzene	5.00	4.70	4.90	94.0	98.0	72.0-127			4.17	20
p-Isopropyltoluene	5.00	4.97	5.26	99.4	105	72.0-133			5.67	20
2-Butanone (MEK)	25.0	18.8	18.8	75.2	75.2	30.0-160			0.000	24
Methylene Chloride	5.00	5.04	5.37	101	107	68.0-123			6.34	20
4-Methyl-2-pentanone (MIBK)	25.0	26.1	25.8	104	103	56.0-143			1.16	20
Methyl tert-butyl ether	5.00	4.55	4.69	91.0	93.8	66.0-132			3.03	20
Naphthalene	5.00	4.39	4.70	87.8	94.0	59.0-130			6.82	20
n-Propylbenzene	5.00	4.97	5.36	99.4	107	74.0-126			7.55	20
Styrene	5.00	4.61	4.75	92.2	95.0	72.0-127			2.99	20
1,1,1,2-Tetrachloroethane	5.00	4.82	4.84	96.4	96.8	74.0-129			0.414	20
1,1,2,2-Tetrachloroethane	5.00	5.16	5.19	103	104	68.0-128			0.580	20
1,1,2-Trichlorotrifluoroethane	5.00	5.42	5.62	108	112	61.0-139			3.62	20
Tetrachloroethene	5.00	5.15	5.18	103	104	70.0-136			0.581	20
Toluene	5.00	4.97	5.05	99.4	101	75.0-121			1.60	20
1,2,3-Trichlorobenzene	5.00	4.81	5.16	96.2	103	59.0-139			7.02	20
1,2,4-Trichlorobenzene	5.00	4.25	4.59	85.0	91.8	62.0-137			7.69	20
1,1,1-Trichloroethane	5.00	5.19	5.26	104	105	69.0-126			1.34	20
1,1,2-Trichloroethane	5.00	5.23	5.15	105	103	78.0-123			1.54	20
Trichloroethene	5.00	5.27	5.41	105	108	76.0-126			2.62	20
Trichlorofluoromethane	5.00	5.48	5.84	110	117	61.0-142	J	J	6.36	20
1,2,3-Trichloropropane	5.00	5.39	5.64	108	113	67.0-129			4.53	20
1,2,4-Trimethylbenzene	5.00	5.05	5.30	101	106	70.0-126			4.83	20
1,2,3-Trimethylbenzene	5.00	4.90	5.12	98.0	102	74.0-124			4.39	20
1,3,5-Trimethylbenzene	5.00	5.08	5.16	102	103	73.0-127			1.56	20
Vinyl acetate	25.0	20.1	17.6	80.4	70.4	43.0-159			13.3	20
Vinyl chloride	5.00	5.16	5.43	103	109	63.0-134			5.10	20
Xylenes, Total	15.0	13.6	13.8	90.7	92.0	72.0-127			1.46	20
(S) Toluene-d8				*99.2*	*98.4*	*75.0-131*				
(S) 4-Bromofluorobenzene				*90.3*	*90.3*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*105*	*106*	*70.0-130*				

Method Blank (MB)

(MB) R4150412-3 11/24/24 11:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Bromobenzene	U		0.0420	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
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-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
cis-1,2-Dichloroethene	U		0.0276	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
p-Isopropyltoluene	U		0.0932	0.200
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
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 chloride	U		0.0273	0.100
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*92.1*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*96.6*			*70.0-130*

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

(LCS) R4150412-1 11/24/24 10:31 • (LCSD) R4150412-2 11/24/24 10:50

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromobenzene	5.00	4.69	5.12	93.8	102	73.0-121			8.77	20
n-Butylbenzene	5.00	4.15	4.05	83.0	81.0	68.0-135			2.44	20
sec-Butylbenzene	5.00	4.13	4.48	82.6	89.6	74.0-130			8.13	20
tert-Butylbenzene	5.00	4.03	4.40	80.6	88.0	75.0-127			8.78	20
2-Chlorotoluene	5.00	4.15	4.89	83.0	97.8	75.0-124			16.4	20
4-Chlorotoluene	5.00	4.32	4.65	86.4	93.0	75.0-124			7.36	20

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

(LCS) R4150412-1 11/24/24 10:31 • (LCSD) R4150412-2 11/24/24 10:50

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,2-Dibromo-3-Chloropropane	5.00	4.85	4.88	97.0	97.6	59.0-130			0.617	20
1,2-Dichlorobenzene	5.00	4.69	4.81	93.8	96.2	76.0-124			2.53	20
1,3-Dichlorobenzene	5.00	4.55	4.84	91.0	96.8	76.0-125			6.18	20
1,4-Dichlorobenzene	5.00	4.32	4.72	86.4	94.4	77.0-121			8.85	20
trans-1,4-Dichloro-2-butene	5.00	5.77	6.52	115	130	45.0-143			12.2	20
cis-1,2-Dichloroethene	5.00	4.32	4.73	86.4	94.6	73.0-125			9.06	20
Hexachloro-1,3-butadiene	5.00	4.37	4.63	87.4	92.6	57.0-150			5.78	20
p-Isopropyltoluene	5.00	4.05	4.40	81.0	88.0	72.0-133			8.28	20
Naphthalene	5.00	3.77	4.00	75.4	80.0	59.0-130			5.92	20
n-Propylbenzene	5.00	4.40	4.71	88.0	94.2	74.0-126			6.81	20
1,1,2,2-Tetrachloroethane	5.00	4.78	5.06	95.6	101	68.0-128			5.69	20
1,2,3-Trichlorobenzene	5.00	3.81	3.91	76.2	78.2	59.0-139			2.59	20
1,2,4-Trichlorobenzene	5.00	4.10	4.07	82.0	81.4	62.0-137			0.734	20
1,2,3-Trichloropropane	5.00	4.65	5.22	93.0	104	67.0-129			11.6	20
1,2,4-Trimethylbenzene	5.00	4.27	4.57	85.4	91.4	70.0-126			6.79	20
1,2,3-Trimethylbenzene	5.00	4.06	4.45	81.2	89.0	74.0-124			9.17	20
1,3,5-Trimethylbenzene	5.00	4.23	4.61	84.6	92.2	73.0-127			8.60	20
Vinyl chloride	5.00	5.90	6.05	118	121	63.0-134			2.51	20
(S) Toluene-d8				*102*	*101*	*75.0-131*				
(S) 4-Bromofluorobenzene				*97.1*	*94.0*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*100*	*103*	*70.0-130*				

Method Blank (MB)

(MB) R4150458-2 11/23/24 11:35

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

Method Blank (MB)

(MB) R4150458-2 11/23/24 11:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	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	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*92.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*91.4*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4150458-1 11/23/24 10:38

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	46.2	185	10.0-160	J4
Acrylonitrile	25.0	40.4	162	45.0-153	J4
Benzene	5.00	4.76	95.2	70.0-123	
Bromobenzene	5.00	4.03	80.6	73.0-121	
Bromochloromethane	5.00	4.81	96.2	77.0-128	
Bromodichloromethane	5.00	4.28	85.6	73.0-121	
Bromoform	5.00	4.98	99.6	64.0-132	
Bromomethane	5.00	3.56	71.2	56.0-147	
n-Butylbenzene	5.00	4.79	95.8	68.0-135	
sec-Butylbenzene	5.00	4.61	92.2	74.0-130	
tert-Butylbenzene	5.00	4.04	80.8	75.0-127	
Carbon disulfide	5.00	4.96	99.2	56.0-133	
Carbon tetrachloride	5.00	5.46	109	66.0-128	
Chlorobenzene	5.00	4.67	93.4	76.0-128	
Chlorodibromomethane	5.00	4.64	92.8	74.0-127	
Chloroethane	5.00	4.15	83.0	61.0-134	
Chloroform	5.00	4.48	89.6	72.0-123	
Chloromethane	5.00	4.48	89.6	51.0-138	
2-Chlorotoluene	5.00	3.90	78.0	75.0-124	
4-Chlorotoluene	5.00	3.73	74.6	75.0-124	J4
1,2-Dibromo-3-Chloropropane	5.00	5.59	112	59.0-130	
1,2-Dibromoethane	5.00	4.72	94.4	74.0-128	
Dibromomethane	5.00	4.79	95.8	75.0-122	
1,2-Dichlorobenzene	5.00	4.49	89.8	76.0-124	
1,3-Dichlorobenzene	5.00	4.22	84.4	76.0-125	
1,4-Dichlorobenzene	5.00	4.40	88.0	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	4.34	86.8	45.0-143	
Dichlorodifluoromethane	5.00	5.74	115	43.0-156	
1,1-Dichloroethane	5.00	4.86	97.2	70.0-127	
1,2-Dichloroethane	5.00	4.56	91.2	65.0-131	
1,1-Dichloroethene	5.00	4.85	97.0	65.0-131	
cis-1,2-Dichloroethene	5.00	4.66	93.2	73.0-125	
trans-1,2-Dichloroethene	5.00	4.81	96.2	71.0-125	
1,2-Dichloropropane	5.00	4.77	95.4	74.0-125	
1,1-Dichloropropene	5.00	5.00	100	73.0-125	
1,3-Dichloropropane	5.00	4.62	92.4	80.0-125	
cis-1,3-Dichloropropene	5.00	4.69	93.8	76.0-127	
trans-1,3-Dichloropropene	5.00	4.81	96.2	73.0-127	
2,2-Dichloropropane	5.00	6.42	128	59.0-135	
Di-isopropyl ether	5.00	4.92	98.4	60.0-136	

Laboratory Control Sample (LCS)

(LCS) R4150458-1 11/23/24 10:38

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	5.00	4.71	94.2	74.0-126	
Hexachloro-1,3-butadiene	5.00	5.09	102	57.0-150	
2-Hexanone	25.0	28.6	114	54.0-147	
n-Hexane	5.00	5.40	108	55.0-137	
Iodomethane	25.0	22.8	91.2	74.0-134	
Isopropylbenzene	5.00	4.66	93.2	72.0-127	
p-Isopropyltoluene	5.00	4.61	92.2	72.0-133	
2-Butanone (MEK)	25.0	29.5	118	30.0-160	
Methylene Chloride	5.00	4.68	93.6	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	29.5	118	56.0-143	
Methyl tert-butyl ether	5.00	5.14	103	66.0-132	
Naphthalene	5.00	4.33	86.6	59.0-130	
n-Propylbenzene	5.00	4.27	85.4	74.0-126	
Styrene	5.00	4.42	88.4	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	5.13	103	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	4.48	89.6	68.0-128	
1,1,2-Trichlorotrifluoroethane	5.00	3.62	72.4	61.0-139	
Tetrachloroethene	5.00	5.08	102	70.0-136	
Toluene	5.00	4.94	98.8	75.0-121	
1,2,3-Trichlorobenzene	5.00	4.89	97.8	59.0-139	
1,2,4-Trichlorobenzene	5.00	4.80	96.0	62.0-137	
1,1,1-Trichloroethane	5.00	5.11	102	69.0-126	
1,1,2-Trichloroethane	5.00	4.70	94.0	78.0-123	
Trichloroethene	5.00	4.89	97.8	76.0-126	
Trichlorofluoromethane	5.00	4.03	80.6	61.0-142	J
1,2,3-Trichloropropane	5.00	4.37	87.4	67.0-129	
1,2,4-Trimethylbenzene	5.00	4.03	80.6	70.0-126	
1,2,3-Trimethylbenzene	5.00	4.39	87.8	74.0-124	
1,3,5-Trimethylbenzene	5.00	3.91	78.2	73.0-127	
Vinyl acetate	25.0	30.5	122	43.0-159	
Vinyl chloride	5.00	5.01	100	63.0-134	
Xylenes, Total	15.0	13.9	92.7	72.0-127	
(S) Toluene-d8			*105*	*75.0-131*	
(S) 4-Bromofluorobenzene			*99.9*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*94.6*	*70.0-130*	

Method Blank (MB)

(MB) R4150358-2 11/25/24 11:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	0.0570	J	0.0276	0.100
Tetrachloroethene	U		0.0280	0.100
Trichloroethene	U		0.0160	0.0400
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*99.4*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.0*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4150358-1 11/25/24 09:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	5.00	5.07	101	73.0-125	
Tetrachloroethene	5.00	4.96	99.2	70.0-136	
Trichloroethene	5.00	4.99	99.8	76.0-126	
Vinyl chloride	5.00	5.40	108	63.0-134	
(S) Toluene-d8			*97.2*	*75.0-131*	
(S) 4-Bromofluorobenzene			*92.8*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*108*	*70.0-130*	

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.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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	LAO000356
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

Report to: **Daniel Balbiani**

Email To: **Daniel.balbiani@nv5.com;sam.graber@nv5.com**

Project Description: **American Linen**

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project # **1413001.10.701.02**

Lab Project # **PESENVSWA-ALP**

Collected by (print): D. Del Giudice

Site/Facility ID #

P.O. # **443022-1413001.10.701**

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace PEOPLE ADVANCING SCIENCE

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

SDG # L1799093
J161

Acctnum: **PESENVSWA**
Template: **T262759**
Prelogin: **P1110133**
PM: **3768 - Jordan Dozier**
PB: LM 10/23/24
Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**Nitr,chl,sulf 9056 250mlHDPE-NoPres	ALK 2320B 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	FE,MN total 6020 250mlHDPE-HNO3 C2	TOC 9060 250mlAmb-HCl	VOCS 8260ULL 40mlAmb-HCl	Remarks	Sample # (lab only)
MW122-111224	G	GW	—	11/12/24	1027	3						X		-08
MW-310-111224		GW			1137	3						XX		-09
MW108-111224		GW			1250	9	X	X	X	X	X	XX		-01
MW-997-111224		GW			1212	9	X	X	X	X	X	XX		02
MW-313-111224		GW			805	3						XX		-10
MW-314-111224		GW			833	9	X	X	X	X	X	XX		03
MW110-111224		GW			912	9	X	X	X	X	X	X		04
MW127-111224		GW			1044	3						XX		-11
FMW-141-111224		GW			1141	3						XX		-12
MW-311-111224	↓	GW	↓	↓	1220	3						X		-13

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

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

PH - 10BDH0941
TRC - 3327A333

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 421264727550

Sample Receipt Checklist

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	11/12/24	1533			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.0=1.1 °C Bottles Received: 59	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/13/24 Time: 900	Hold: Condition: NCF / OK

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

Report to:
Daniel Balbiani

Email To:
Daniel.balbiani@nv5.com;sam.graber@nv5.com

Project Description:
American Linen

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413001.10.701.02

Lab Project #
PESENVSWA-ALP

Collected by (print):
D. Del Grosso

Site/Facility ID #

P.O. #
443022-1413001.10.701

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**Nitr,chl,sulf 9056 250mlHDPE-NoPres	ALK 2320B 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	FE,MN total 6020 250mlHDPE-HNO3	TOC 9060 250mlAmb-HCl	VOCS 8260ULL 40mlAmb-HCl					Remarks	Sample # (lab only)
MW-179-111224	G	GW	—	11/12/24	1408	9	X	X	X	X	X	X						-05
MW-177-111224	↓	GW	↓	↓	1447	9	X	X	X	X	X	X						06
MW-180-111224		GW			1520	9	X	X	X	X	X	X						07
TB-111224	↓	GW	↓	↓	—	1						X						-14
		GW																
		GW																
		GW																
		GW																
		GW																
		GW																

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

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

SDG # L1799093

Table #

Acctnum: **PESENVSWA**
Template: **T262759**
Prelogin: **P1110133**
PM: **3768 - Jordan Dozier**
PB: LM 10/23/24
Shipped Via: **FedEX Ground**

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

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

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 42|264727550

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	11/12/24	1533			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
				1.1+0=1.1 54	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
				11/13/24 900	

ANALYTICAL REPORT

November 27, 2024

PES Environmental, Inc.- WA

Sample Delivery Group:	L1799205
Samples Received:	11/13/2024
Project Number:	1413001.10.603.04
Description:	American Linen

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

Entire Report Reviewed By:

J Dozier

Jordan Dozier
Project Manager

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

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

FMW-129-111224 L1799205-01 GW

Collected by: D. Del G
Collected date/time: 11/12/24 14:33
Received date/time: 11/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405389	1	11/20/24 21:24	11/20/24 21:24	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406846	1	11/24/24 17:16	11/24/24 17:16	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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3	0.548	1.00	1	11/20/2024 21:24	WG2405389
Acrylonitrile	U	C3	0.0760	0.500	1	11/20/2024 21:24	WG2405389
Benzene	0.0310	J	0.0160	0.0400	1	11/20/2024 21:24	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 21:24	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 21:24	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 21:24	WG2405389
Bromoform	U	C3	0.239	1.00	1	11/20/2024 21:24	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 21:24	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 21:24	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 21:24	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 21:24	WG2405389
Carbon disulfide	U	C3	0.162	0.500	1	11/20/2024 21:24	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 21:24	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 21:24	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 21:24	WG2405389
Chloroethane	U		0.0432	0.200	1	11/20/2024 21:24	WG2405389
Chloroform	U		0.0166	0.100	1	11/20/2024 21:24	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 21:24	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 21:24	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 21:24	WG2405389
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	11/20/2024 21:24	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 21:24	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 21:24	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 21:24	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 21:24	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 21:24	WG2405389
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 17:16	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 21:24	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 21:24	WG2405389
1,2-Dichloroethane	0.0250	J	0.0190	0.100	1	11/20/2024 21:24	WG2405389
1,1-Dichloroethene	U		0.0200	0.100	1	11/20/2024 21:24	WG2405389
cis-1,2-Dichloroethene	17.8		0.0276	0.100	1	11/20/2024 21:24	WG2405389
trans-1,2-Dichloroethene	0.211		0.0572	0.200	1	11/20/2024 21:24	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 21:24	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 21:24	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 21:24	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 21:24	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 21:24	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 21:24	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 21:24	WG2405389
Ethylbenzene	U		0.0212	0.100	1	11/20/2024 21:24	WG2405389
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/20/2024 21:24	WG2405389
2-Hexanone	U	C3	0.400	1.00	1	11/20/2024 21:24	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 21:24	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 21:24	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 21:24	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 21:24	WG2405389
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/20/2024 21:24	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 21:24	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 21:24	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 21:24	WG2405389
Naphthalene	U		0.124	0.500	1	11/20/2024 21:24	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 21:24	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 21:24	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 21:24	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 21:24	WG2405389

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 21:24	WG2405389
Tetrachloroethene	2.73		0.0280	0.100	1	11/20/2024 21:24	WG2405389
Toluene	U		0.0500	0.200	1	11/20/2024 21:24	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 21:24	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 21:24	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 21:24	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 21:24	WG2405389
Trichloroethene	6.36		0.0160	0.0400	1	11/20/2024 21:24	WG2405389
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 21:24	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 21:24	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 21:24	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 21:24	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 21:24	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 21:24	WG2405389
Vinyl chloride	U		0.0273	0.100	1	11/20/2024 21:24	WG2405389
Xylenes, Total	U		0.191	0.260	1	11/20/2024 21:24	WG2405389
(S) Toluene-d8	*99.6*			*75.0-131*		*11/20/2024 21:24*	WG2405389
(S) Toluene-d8	*102*			*75.0-131*		*11/24/2024 17:16*	WG2406846
(S) 4-Bromofluorobenzene	*88.9*			*67.0-138*		*11/20/2024 21:24*	WG2405389
(S) 4-Bromofluorobenzene	*95.1*			*67.0-138*		*11/24/2024 17:16*	WG2406846
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/20/2024 21:24*	WG2405389
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/24/2024 17:16*	WG2406846

Method Blank (MB)

(MB) R4149504-2 11/20/24 18:08

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
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
Ethylbenzene	U		0.0212	0.100

Method Blank (MB)

(MB) R4149504-2 11/20/24 18:08

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
2-Hexanone	U		0.400	1.00
n-Hexane	U		0.0424	0.200
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl acetate	U		0.141	0.500
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	*97.1*			*75.0-131*
(S) 4-Bromofluorobenzene	*89.1*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4149504-1 11/20/24 16:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	24.5	98.0	10.0-160	
Acrylonitrile	25.0	25.8	103	45.0-153	
Benzene	5.00	4.54	90.8	70.0-123	
Bromobenzene	5.00	4.49	89.8	73.0-121	
Bromochloromethane	5.00	4.83	96.6	77.0-128	
Bromodichloromethane	5.00	4.67	93.4	73.0-121	
Bromoform	5.00	3.62	72.4	64.0-132	
Bromomethane	5.00	5.47	109	56.0-147	
n-Butylbenzene	5.00	4.32	86.4	68.0-135	
sec-Butylbenzene	5.00	4.34	86.8	74.0-130	
tert-Butylbenzene	5.00	4.33	86.6	75.0-127	
Carbon disulfide	5.00	3.99	79.8	56.0-133	
Carbon tetrachloride	5.00	4.64	92.8	66.0-128	
Chlorobenzene	5.00	4.24	84.8	76.0-128	
Chlorodibromomethane	5.00	4.08	81.6	74.0-127	
Chloroethane	5.00	5.73	115	61.0-134	
Chloroform	5.00	4.60	92.0	72.0-123	
Chloromethane	5.00	3.97	79.4	51.0-138	
2-Chlorotoluene	5.00	4.51	90.2	75.0-124	
4-Chlorotoluene	5.00	4.50	90.0	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	3.79	75.8	59.0-130	
1,2-Dibromoethane	5.00	4.37	87.4	74.0-128	
Dibromomethane	5.00	4.61	92.2	75.0-122	
1,2-Dichlorobenzene	5.00	4.21	84.2	76.0-124	
1,3-Dichlorobenzene	5.00	4.36	87.2	76.0-125	
1,4-Dichlorobenzene	5.00	4.33	86.6	77.0-121	
Dichlorodifluoromethane	5.00	3.90	78.0	43.0-156	
1,1-Dichloroethane	5.00	4.81	96.2	70.0-127	
1,2-Dichloroethane	5.00	4.54	90.8	65.0-131	
1,1-Dichloroethene	5.00	4.84	96.8	65.0-131	
cis-1,2-Dichloroethene	5.00	4.68	93.6	73.0-125	
trans-1,2-Dichloroethene	5.00	4.35	87.0	71.0-125	
1,2-Dichloropropane	5.00	4.89	97.8	74.0-125	
1,1-Dichloropropene	5.00	4.64	92.8	73.0-125	
1,3-Dichloropropane	5.00	4.54	90.8	80.0-125	
cis-1,3-Dichloropropene	5.00	4.65	93.0	76.0-127	
trans-1,3-Dichloropropene	5.00	4.34	86.8	73.0-127	
2,2-Dichloropropane	5.00	5.35	107	59.0-135	
Di-isopropyl ether	5.00	4.64	92.8	60.0-136	
Ethylbenzene	5.00	4.30	86.0	74.0-126	

Laboratory Control Sample (LCS)

(LCS) R4149504-1 11/20/24 16:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexachloro-1,3-butadiene	5.00	4.02	80.4	57.0-150	
2-Hexanone	25.0	20.7	82.8	54.0-147	
n-Hexane	5.00	4.04	80.8	55.0-137	
Iodomethane	25.0	21.3	85.2	74.0-134	
Isopropylbenzene	5.00	4.37	87.4	72.0-127	
p-Isopropyltoluene	5.00	4.42	88.4	72.0-133	
2-Butanone (MEK)	25.0	20.5	82.0	30.0-160	
Methylene Chloride	5.00	4.71	94.2	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	26.0	104	56.0-143	
Methyl tert-butyl ether	5.00	4.52	90.4	66.0-132	
Naphthalene	5.00	3.84	76.8	59.0-130	
n-Propylbenzene	5.00	4.45	89.0	74.0-126	
Styrene	5.00	4.35	87.0	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	4.28	85.6	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	4.56	91.2	68.0-128	
1,1,2-Trichlorotrifluoroethane	5.00	4.58	91.6	61.0-139	
Tetrachloroethene	5.00	4.35	87.0	70.0-136	
Toluene	5.00	4.44	88.8	75.0-121	
1,2,3-Trichlorobenzene	5.00	4.24	84.8	59.0-139	
1,2,4-Trichlorobenzene	5.00	3.97	79.4	62.0-137	
1,1,1-Trichloroethane	5.00	4.79	95.8	69.0-126	
1,1,2-Trichloroethane	5.00	4.67	93.4	78.0-123	
Trichloroethene	5.00	4.53	90.6	76.0-126	
Trichlorofluoromethane	5.00	4.97	99.4	61.0-142	J
1,2,3-Trichloropropane	5.00	4.84	96.8	67.0-129	
1,2,4-Trimethylbenzene	5.00	4.41	88.2	70.0-126	
1,2,3-Trimethylbenzene	5.00	4.22	84.4	74.0-124	
1,3,5-Trimethylbenzene	5.00	4.38	87.6	73.0-127	
Vinyl acetate	25.0	19.8	79.2	43.0-159	
Vinyl chloride	5.00	4.77	95.4	63.0-134	
Xylenes, Total	15.0	12.5	83.3	72.0-127	
(S) Toluene-d8			*96.3*	*75.0-131*	
(S) 4-Bromofluorobenzene			*94.2*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*110*	*70.0-130*	

Method Blank (MB)

(MB) R4150414-3 11/24/24 11:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*92.1*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*96.6*			*70.0-130*

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

(LCS) R4150414-1 11/24/24 10:31 • (LCSD) R4150414-2 11/24/24 10:50

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,4-Dichloro-2-butene	5.00	5.77	6.52	115	130	45.0-143			12.2	20
(S) Toluene-d8				*102*	*101*	*75.0-131*				
(S) 4-Bromofluorobenzene				*97.1*	*94.0*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*100*	*103*	*70.0-130*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.

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	LAO000356
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

Report to: **Daniel Balbiani**

Email To: **Daniel.balbiani@nv5.com;sam.graber@nv5.com**

Project Description: **American Linen**

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project # **1413001.10.603.04**

Lab Project # **PESENVSWA-ALP**

Collected by (print): D. Del Giudice

Site/Facility ID #

P.O. # **1413001.10.603.04**

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**Nitr,chl,sulf 9056 250mlHDPE NoPres	ALK 2320B 125mlHDPE NoPres	EEM RSK175LL 40mlAmb HCl	FE,MN total 6020 250mlHDPE HNO3	TOC 9060 250mlAmb-HCl	VOCS 8260ULL 40mlAmb-HCl					Remarks	Sample # (lab only)
FMW-129-111224	G	GW	—	11/12/24	1433	3						X						-01
		GW																
		GW																
		GW																
		GW																
		GW																
		GW																
		GW																
		GW																
		GW																

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

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

SDG # 1799205
A171

Acctnum: **PESENVSWA**
Template: **T262759**
Prelogin: **P1112668**
PM: **3768 - Jordan Dozier**
PB:
Shipped Via: **FedEX Ground**

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

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

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4212 6472 7560

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	11/12/24	1505	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 4.1 °C Bottles Received: 4.1 +0= 4.1

Date: 11-13-24 Time: 900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Sample Receipt Checklist

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

ANALYTICAL REPORT

December 13, 2024

Revised Report

PES Environmental, Inc.- WA

Sample Delivery Group:	L1799514
Samples Received:	11/14/2024
Project Number:	1413001.10.701.02
Description:	American Linen

Report To:

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

Entire Report Reviewed By:

J Dozier

Jordan Dozier
Project Manager

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

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-138-111324 L1799514-01 GW

Collected by: D. Del G | Collected date/time: 11/13/24 10:10 | Received date/time: 11/14/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405389	1	11/20/24 21:43	11/20/24 21:43	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406846	1	11/24/24 17:35	11/24/24 17:35	JAH	Mt. Juliet, TN

MW-302-111324 L1799514-02 GW

Collected by: D. Del G | Collected date/time: 11/13/24 11:01 | Received date/time: 11/14/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405389	1	11/20/24 22:02	11/20/24 22:02	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406846	1	11/24/24 17:54	11/24/24 17:54	JAH	Mt. Juliet, TN

MW-304-111324 L1799514-03 GW

Collected by: D. Del G | Collected date/time: 11/13/24 12:20 | Received date/time: 11/14/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405389	1	11/20/24 22:22	11/20/24 22:22	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406846	1	11/24/24 18:13	11/24/24 18:13	JAH	Mt. Juliet, TN

BB-8-111324 L1799514-04 GW

Collected by: D. Del G | Collected date/time: 11/13/24 13:46 | Received date/time: 11/14/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2403590	1	11/18/24 12:28	11/18/24 12:28	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401790	1	11/15/24 04:14	11/15/24 04:14	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2403655	1	11/18/24 19:07	11/18/24 19:07	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404355	20	11/21/24 11:00	11/22/24 23:15	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403060	1	11/17/24 21:02	11/17/24 21:02	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403774	10	11/18/24 12:40	11/18/24 12:40	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405389	1	11/20/24 22:41	11/20/24 22:41	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406846	10	11/24/24 19:49	11/24/24 19:49	JAH	Mt. Juliet, TN

R-MW5-111324 L1799514-05 GW

Collected by: D. Del G | Collected date/time: 11/13/24 10:54 | Received date/time: 11/14/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2403590	1	11/18/24 12:34	11/18/24 12:34	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401790	1	11/15/24 04:32	11/15/24 04:32	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2403655	1	11/18/24 20:02	11/18/24 20:02	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404355	1	11/21/24 11:00	11/22/24 21:42	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403060	1	11/17/24 22:23	11/17/24 22:23	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405389	1	11/20/24 23:00	11/20/24 23:00	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406846	1	11/24/24 18:32	11/24/24 18:32	JAH	Mt. Juliet, TN

MW-303-111324 L1799514-06 GW

Collected by: D. Del G | Collected date/time: 11/13/24 12:19 | Received date/time: 11/14/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405389	1	11/20/24 23:19	11/20/24 23:19	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406846	1	11/24/24 18:51	11/24/24 18:51	JAH	Mt. Juliet, TN

MW105-111324 L1799514-07 GW

Collected by: D. Del G | Collected date/time: 11/13/24 14:43 | Received date/time: 11/14/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405389	1	11/20/24 23:39	11/20/24 23:39	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406846	1	11/24/24 19:11	11/24/24 19:11	JAH	Mt. Juliet, TN

MW-182-111324 L1799514-08 GW

Collected by: D. Del G | Collected date/time: 11/13/24 10:50 | Received date/time: 11/14/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2403590	1	11/18/24 12:40	11/18/24 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401790	1	11/15/24 04:49	11/15/24 04:49	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401790	5	11/15/24 09:32	11/15/24 09:32	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2403655	1	11/18/24 21:05	11/18/24 21:05	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404355	10	11/21/24 11:00	11/22/24 23:18	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403060	1	11/17/24 22:29	11/17/24 22:29	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403774	10	11/18/24 12:46	11/18/24 12:46	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405389	1	11/20/24 23:58	11/20/24 23:58	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406846	200	11/24/24 20:08	11/24/24 20:08	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2408378	1000	11/27/24 10:33	11/27/24 10:33	ACG	Mt. Juliet, TN

MW-169-111324 L1799514-09 GW

Collected by: D. Del G | Collected date/time: 11/13/24 13:41 | Received date/time: 11/14/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2403590	1	11/18/24 12:45	11/18/24 12:45	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401790	1	11/15/24 05:06	11/15/24 05:06	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2403655	1	11/18/24 21:46	11/18/24 21:46	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404355	1	11/21/24 11:00	11/22/24 21:49	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404355	5	11/21/24 11:00	11/22/24 23:21	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403060	1	11/17/24 22:46	11/17/24 22:46	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403774	10	11/18/24 12:54	11/18/24 12:54	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405389	1	11/21/24 00:17	11/21/24 00:17	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406846	1	11/24/24 19:30	11/24/24 19:30	JAH	Mt. Juliet, TN

MW-172-111324 L1799514-10 GW

Collected by: D. Del G | Collected date/time: 11/13/24 15:17 | Received date/time: 11/14/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2403599	1	11/18/24 11:47	11/18/24 11:47	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2401790	1	11/15/24 05:24	11/15/24 05:24	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2404168	1	11/19/24 14:55	11/19/24 14:55	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404355	1	11/21/24 11:00	11/22/24 21:52	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2404355	20	11/21/24 11:00	11/22/24 23:24	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403060	1	11/17/24 22:51	11/17/24 22:51	KHM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG2403774	10	11/18/24 13:01	11/18/24 13:01	CCM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2405389	1	11/21/24 00:36	11/21/24 00:36	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2406846	100	11/24/24 20:27	11/24/24 20:27	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: 11/30/24 11:15

Project Narrative

ID

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3	0.548	1.00	1	11/20/2024 21:43	WG2405389
Acrylonitrile	U	C3	0.0760	0.500	1	11/20/2024 21:43	WG2405389
Benzene	U		0.0160	0.0400	1	11/20/2024 21:43	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 21:43	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 21:43	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 21:43	WG2405389
Bromoform	U	C3	0.239	1.00	1	11/20/2024 21:43	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 21:43	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 21:43	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 21:43	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 21:43	WG2405389
Carbon disulfide	0.186	C3 J	0.162	0.500	1	11/20/2024 21:43	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 21:43	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 21:43	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 21:43	WG2405389
Chloroethane	U		0.0432	0.200	1	11/20/2024 21:43	WG2405389
Chloroform	U		0.0166	0.100	1	11/20/2024 21:43	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 21:43	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 21:43	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 21:43	WG2405389
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	11/20/2024 21:43	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 21:43	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 21:43	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 21:43	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 21:43	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 21:43	WG2405389
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 17:35	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 21:43	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 21:43	WG2405389
1,2-Dichloroethane	0.561		0.0190	0.100	1	11/20/2024 21:43	WG2405389
1,1-Dichloroethene	U		0.0200	0.100	1	11/20/2024 21:43	WG2405389
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/20/2024 21:43	WG2405389
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/20/2024 21:43	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 21:43	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 21:43	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 21:43	WG2405389
cis-1,3-Dichloropropene	0.0330	J	0.0271	0.100	1	11/20/2024 21:43	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 21:43	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 21:43	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 21:43	WG2405389
Ethylbenzene	0.0400	J	0.0212	0.100	1	11/20/2024 21:43	WG2405389
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/20/2024 21:43	WG2405389
2-Hexanone	U	C3	0.400	1.00	1	11/20/2024 21:43	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 21:43	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 21:43	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 21:43	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 21:43	WG2405389
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/20/2024 21:43	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 21:43	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 21:43	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 21:43	WG2405389
Naphthalene	U		0.124	0.500	1	11/20/2024 21:43	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 21:43	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 21:43	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 21:43	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 21:43	WG2405389

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 21:43	WG2405389
Tetrachloroethene	U		0.0280	0.100	1	11/20/2024 21:43	WG2405389
Toluene	U		0.0500	0.200	1	11/20/2024 21:43	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 21:43	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 21:43	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 21:43	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 21:43	WG2405389
Trichloroethene	0.0270	J	0.0160	0.0400	1	11/20/2024 21:43	WG2405389
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 21:43	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 21:43	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 21:43	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 21:43	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 21:43	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 21:43	WG2405389
Vinyl chloride	U		0.0273	0.100	1	11/20/2024 21:43	WG2405389
Xylenes, Total	0.254	J	0.191	0.260	1	11/20/2024 21:43	WG2405389
(S) Toluene-d8	*96.8*			*75.0-131*		*11/20/2024 21:43*	WG2405389
(S) Toluene-d8	*103*			*75.0-131*		*11/24/2024 17:35*	WG2406846
(S) 4-Bromofluorobenzene	*91.3*			*67.0-138*		*11/20/2024 21:43*	WG2405389
(S) 4-Bromofluorobenzene	*96.1*			*67.0-138*		*11/24/2024 17:35*	WG2406846
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*11/20/2024 21:43*	WG2405389
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/24/2024 17:35*	WG2406846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3	0.548	1.00	1	11/20/2024 22:02	WG2405389
Acrylonitrile	U	C3	0.0760	0.500	1	11/20/2024 22:02	WG2405389
Benzene	U		0.0160	0.0400	1	11/20/2024 22:02	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 22:02	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 22:02	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 22:02	WG2405389
Bromoform	U	C3	0.239	1.00	1	11/20/2024 22:02	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 22:02	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 22:02	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 22:02	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 22:02	WG2405389
Carbon disulfide	0.202	C3 J	0.162	0.500	1	11/20/2024 22:02	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 22:02	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 22:02	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 22:02	WG2405389
Chloroethane	U		0.0432	0.200	1	11/20/2024 22:02	WG2405389
Chloroform	U		0.0166	0.100	1	11/20/2024 22:02	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 22:02	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 22:02	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 22:02	WG2405389
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	11/20/2024 22:02	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 22:02	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 22:02	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 22:02	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 22:02	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 22:02	WG2405389
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 17:54	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 22:02	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 22:02	WG2405389
1,2-Dichloroethane	U		0.0190	0.100	1	11/20/2024 22:02	WG2405389
1,1-Dichloroethene	U		0.0200	0.100	1	11/20/2024 22:02	WG2405389
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/20/2024 22:02	WG2405389
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/20/2024 22:02	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 22:02	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 22:02	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 22:02	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 22:02	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 22:02	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 22:02	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 22:02	WG2405389
Ethylbenzene	0.0300	J	0.0212	0.100	1	11/20/2024 22:02	WG2405389
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/20/2024 22:02	WG2405389
2-Hexanone	U	C3	0.400	1.00	1	11/20/2024 22:02	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 22:02	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 22:02	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 22:02	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 22:02	WG2405389
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/20/2024 22:02	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 22:02	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 22:02	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 22:02	WG2405389
Naphthalene	U		0.124	0.500	1	11/20/2024 22:02	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 22:02	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 22:02	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 22:02	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 22:02	WG2405389

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 22:02	WG2405389
Tetrachloroethene	U		0.0280	0.100	1	11/20/2024 22:02	WG2405389
Toluene	U		0.0500	0.200	1	11/20/2024 22:02	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 22:02	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 22:02	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 22:02	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 22:02	WG2405389
Trichloroethene	U		0.0160	0.0400	1	11/20/2024 22:02	WG2405389
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 22:02	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 22:02	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 22:02	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 22:02	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 22:02	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 22:02	WG2405389
Vinyl chloride	U		0.0273	0.100	1	11/20/2024 22:02	WG2405389
Xylenes, Total	0.214	J	0.191	0.260	1	11/20/2024 22:02	WG2405389
(S) Toluene-d8	*98.1*			*75.0-131*		*11/20/2024 22:02*	WG2405389
(S) Toluene-d8	*101*			*75.0-131*		*11/24/2024 17:54*	WG2406846
(S) 4-Bromofluorobenzene	*88.3*			*67.0-138*		*11/20/2024 22:02*	WG2405389
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*		*11/24/2024 17:54*	WG2406846
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/20/2024 22:02*	WG2405389
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/24/2024 17:54*	WG2406846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3	0.548	1.00	1	11/20/2024 22:22	WG2405389
Acrylonitrile	U	C3	0.0760	0.500	1	11/20/2024 22:22	WG2405389
Benzene	U		0.0160	0.0400	1	11/20/2024 22:22	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 22:22	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 22:22	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 22:22	WG2405389
Bromoform	U	C3	0.239	1.00	1	11/20/2024 22:22	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 22:22	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 22:22	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 22:22	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 22:22	WG2405389
Carbon disulfide	0.203	C3 J	0.162	0.500	1	11/20/2024 22:22	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 22:22	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 22:22	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 22:22	WG2405389
Chloroethane	U		0.0432	0.200	1	11/20/2024 22:22	WG2405389
Chloroform	U		0.0166	0.100	1	11/20/2024 22:22	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 22:22	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 22:22	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 22:22	WG2405389
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	11/20/2024 22:22	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 22:22	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 22:22	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 22:22	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 22:22	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 22:22	WG2405389
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 18:13	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 22:22	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 22:22	WG2405389
1,2-Dichloroethane	U		0.0190	0.100	1	11/20/2024 22:22	WG2405389
1,1-Dichloroethene	U		0.0200	0.100	1	11/20/2024 22:22	WG2405389
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/20/2024 22:22	WG2405389
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/20/2024 22:22	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 22:22	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 22:22	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 22:22	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 22:22	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 22:22	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 22:22	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 22:22	WG2405389
Ethylbenzene	U		0.0212	0.100	1	11/20/2024 22:22	WG2405389
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/20/2024 22:22	WG2405389
2-Hexanone	U	C3	0.400	1.00	1	11/20/2024 22:22	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 22:22	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 22:22	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 22:22	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 22:22	WG2405389
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/20/2024 22:22	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 22:22	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 22:22	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 22:22	WG2405389
Naphthalene	U		0.124	0.500	1	11/20/2024 22:22	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 22:22	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 22:22	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 22:22	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 22:22	WG2405389

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 22:22	WG2405389
Tetrachloroethene	U		0.0280	0.100	1	11/20/2024 22:22	WG2405389
Toluene	U		0.0500	0.200	1	11/20/2024 22:22	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 22:22	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 22:22	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 22:22	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 22:22	WG2405389
Trichloroethene	U		0.0160	0.0400	1	11/20/2024 22:22	WG2405389
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 22:22	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 22:22	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 22:22	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 22:22	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 22:22	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 22:22	WG2405389
Vinyl chloride	U		0.0273	0.100	1	11/20/2024 22:22	WG2405389
Xylenes, Total	U		0.191	0.260	1	11/20/2024 22:22	WG2405389
(S) Toluene-d8	*95.7*			*75.0-131*		*11/20/2024 22:22*	WG2405389
(S) Toluene-d8	*103*			*75.0-131*		*11/24/2024 18:13*	WG2406846
(S) 4-Bromofluorobenzene	*88.4*			*67.0-138*		*11/20/2024 22:22*	WG2405389
(S) 4-Bromofluorobenzene	*92.1*			*67.0-138*		*11/24/2024 18:13*	WG2406846
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*11/20/2024 22:22*	WG2405389
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*11/24/2024 18:13*	WG2406846

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	323000		4750	20000	1	11/18/2024 12:28	WG2403590

Sample Narrative:
L1799514-04 WG2403590: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	26300		547	1000	1	11/15/2024 04:14	WG2401790
Nitrate as (N)	U		88.4	100	1	11/15/2024 04:14	WG2401790
Sulfate	127000		637	5000	1	11/15/2024 04:14	WG2401790

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2890		495	1000	1	11/18/2024 19:07	WG2403655

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	10500		452	2000	20	11/22/2024 23:15	WG2404355
Manganese	4850		14.0	100	20	11/22/2024 23:15	WG2404355

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	25800		2.87	6.78	10	11/18/2024 12:40	WG2403774
Ethane	U		0.296	1.29	1	11/17/2024 21:02	WG2403060
Ethene	U		0.422	1.27	1	11/17/2024 21:02	WG2403060

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3	0.548	1.00	1	11/20/2024 22:41	WG2405389
Acrylonitrile	U	C3	0.0760	0.500	1	11/20/2024 22:41	WG2405389
Benzene	0.0960		0.0160	0.0400	1	11/20/2024 22:41	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 22:41	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 22:41	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 22:41	WG2405389
Bromoform	U	C3	0.239	1.00	1	11/20/2024 22:41	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 22:41	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 22:41	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 22:41	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 22:41	WG2405389
Carbon disulfide	U	C3	0.162	0.500	1	11/20/2024 22:41	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 22:41	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 22:41	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 22:41	WG2405389
Chloroethane	U		0.0432	0.200	1	11/20/2024 22:41	WG2405389
Chloroform	U		0.0166	0.100	1	11/20/2024 22:41	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 22:41	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 22:41	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 22:41	WG2405389

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	11/20/2024 22:41	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 22:41	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 22:41	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 22:41	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 22:41	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 22:41	WG2405389
trans-1,4-Dichloro-2-butene	U		0.560	2.00	10	11/24/2024 19:49	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 22:41	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 22:41	WG2405389
1,2-Dichloroethane	U		0.0190	0.100	1	11/20/2024 22:41	WG2405389
1,1-Dichloroethene	0.609		0.0200	0.100	1	11/20/2024 22:41	WG2405389
cis-1,2-Dichloroethene	186		0.276	1.00	10	11/24/2024 19:49	WG2406846
trans-1,2-Dichloroethene	0.734		0.0572	0.200	1	11/20/2024 22:41	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 22:41	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 22:41	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 22:41	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 22:41	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 22:41	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 22:41	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 22:41	WG2405389
Ethylbenzene	U		0.0212	0.100	1	11/20/2024 22:41	WG2405389
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/20/2024 22:41	WG2405389
2-Hexanone	U	C3	0.400	1.00	1	11/20/2024 22:41	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 22:41	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 22:41	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 22:41	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 22:41	WG2405389
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/20/2024 22:41	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 22:41	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 22:41	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 22:41	WG2405389
Naphthalene	U		0.124	0.500	1	11/20/2024 22:41	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 22:41	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 22:41	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 22:41	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 22:41	WG2405389
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 22:41	WG2405389
Tetrachloroethene	12.6		0.0280	0.100	1	11/20/2024 22:41	WG2405389
Toluene	U		0.0500	0.200	1	11/20/2024 22:41	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 22:41	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 22:41	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 22:41	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 22:41	WG2405389
Trichloroethene	32.2		0.0160	0.0400	1	11/20/2024 22:41	WG2405389
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 22:41	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 22:41	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 22:41	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 22:41	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 22:41	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 22:41	WG2405389
Vinyl chloride	1.67		0.0273	0.100	1	11/20/2024 22:41	WG2405389
Xylenes, Total	U		0.191	0.260	1	11/20/2024 22:41	WG2405389
(S) Toluene-d8	*97.9*			*75.0-131*		*11/20/2024 22:41*	WG2405389
(S) Toluene-d8	*101*			*75.0-131*		*11/24/2024 19:49*	WG2406846
(S) 4-Bromofluorobenzene	*91.2*			*67.0-138*		*11/20/2024 22:41*	WG2405389
(S) 4-Bromofluorobenzene	*93.2*			*67.0-138*		*11/24/2024 19:49*	WG2406846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*11/20/2024 22:41*	WG2405389
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/24/2024 19:49*	WG2406846

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	93400		4750	20000	1	11/18/2024 12:34	WG2403590

Sample Narrative:

L1799514-05 WG2403590: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	5650		547	1000	1	11/15/2024 04:32	WG2401790
Nitrate as (N)	317		88.4	100	1	11/15/2024 04:32	WG2401790
Sulfate	6760		637	5000	1	11/15/2024 04:32	WG2401790

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1690		495	1000	1	11/18/2024 20:02	WG2403655

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2390		22.6	100	1	11/22/2024 21:42	WG2404355
Manganese	326		0.700	5.00	1	11/22/2024 21:42	WG2404355

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	907		0.287	0.678	1	11/17/2024 22:23	WG2403060
Ethane	U		0.296	1.29	1	11/17/2024 22:23	WG2403060
Ethene	U		0.422	1.27	1	11/17/2024 22:23	WG2403060

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	0.548	1.00	1	11/20/2024 23:00	WG2405389
Acrylonitrile	U	C3	0.0760	0.500	1	11/20/2024 23:00	WG2405389
Benzene	U		0.0160	0.0400	1	11/20/2024 23:00	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 23:00	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 23:00	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 23:00	WG2405389
Bromoform	U	C3	0.239	1.00	1	11/20/2024 23:00	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 23:00	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 23:00	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 23:00	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 23:00	WG2405389
Carbon disulfide	U	C3	0.162	0.500	1	11/20/2024 23:00	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 23:00	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 23:00	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 23:00	WG2405389
Chloroethane	U		0.0432	0.200	1	11/20/2024 23:00	WG2405389
Chloroform	0.162		0.0166	0.100	1	11/20/2024 23:00	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 23:00	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 23:00	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 23:00	WG2405389

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	11/20/2024 23:00	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 23:00	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 23:00	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 23:00	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 23:00	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 23:00	WG2405389
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 18:32	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 23:00	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 23:00	WG2405389
1,2-Dichloroethane	U		0.0190	0.100	1	11/20/2024 23:00	WG2405389
1,1-Dichloroethene	U		0.0200	0.100	1	11/20/2024 23:00	WG2405389
cis-1,2-Dichloroethene	0.190		0.0276	0.100	1	11/24/2024 18:32	WG2406846
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/20/2024 23:00	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 23:00	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 23:00	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 23:00	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 23:00	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 23:00	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 23:00	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 23:00	WG2405389
Ethylbenzene	U		0.0212	0.100	1	11/20/2024 23:00	WG2405389
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/20/2024 23:00	WG2405389
2-Hexanone	U	C3	0.400	1.00	1	11/20/2024 23:00	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 23:00	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 23:00	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 23:00	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 23:00	WG2405389
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/20/2024 23:00	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 23:00	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 23:00	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 23:00	WG2405389
Naphthalene	U		0.124	0.500	1	11/20/2024 23:00	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 23:00	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 23:00	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 23:00	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 23:00	WG2405389
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 23:00	WG2405389
Tetrachloroethene	0.483		0.0280	0.100	1	11/20/2024 23:00	WG2405389
Toluene	U		0.0500	0.200	1	11/20/2024 23:00	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 23:00	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 23:00	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 23:00	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 23:00	WG2405389
Trichloroethene	0.280		0.0160	0.0400	1	11/20/2024 23:00	WG2405389
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 23:00	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 23:00	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 23:00	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 23:00	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 23:00	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 23:00	WG2405389
Vinyl chloride	U		0.0273	0.100	1	11/20/2024 23:00	WG2405389
Xylenes, Total	U		0.191	0.260	1	11/20/2024 23:00	WG2405389
(S) Toluene-d8	*97.6*			*75.0-131*		*11/20/2024 23:00*	WG2405389
(S) Toluene-d8	*101*			*75.0-131*		*11/24/2024 18:32*	WG2406846
(S) 4-Bromofluorobenzene	*88.7*			*67.0-138*		*11/20/2024 23:00*	WG2405389
(S) 4-Bromofluorobenzene	*94.6*			*67.0-138*		*11/24/2024 18:32*	WG2406846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/20/2024 23:00*	WG2405389
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/24/2024 18:32*	WG2406846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3	0.548	1.00	1	11/20/2024 23:19	WG2405389
Acrylonitrile	U	C3	0.0760	0.500	1	11/20/2024 23:19	WG2405389
Benzene	U		0.0160	0.0400	1	11/20/2024 23:19	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 23:19	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 23:19	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 23:19	WG2405389
Bromoform	U	C3	0.239	1.00	1	11/20/2024 23:19	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 23:19	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 23:19	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 23:19	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 23:19	WG2405389
Carbon disulfide	U	C3	0.162	0.500	1	11/20/2024 23:19	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 23:19	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 23:19	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 23:19	WG2405389
Chloroethane	U		0.0432	0.200	1	11/20/2024 23:19	WG2405389
Chloroform	U		0.0166	0.100	1	11/20/2024 23:19	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 23:19	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 23:19	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 23:19	WG2405389
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	11/20/2024 23:19	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 23:19	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 23:19	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 23:19	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 23:19	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 23:19	WG2405389
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 18:51	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 23:19	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 23:19	WG2405389
1,2-Dichloroethane	U		0.0190	0.100	1	11/20/2024 23:19	WG2405389
1,1-Dichloroethene	U		0.0200	0.100	1	11/20/2024 23:19	WG2405389
cis-1,2-Dichloroethene	U		0.0276	0.100	1	11/24/2024 18:51	WG2406846
trans-1,2-Dichloroethene	U		0.0572	0.200	1	11/20/2024 23:19	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 23:19	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 23:19	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 23:19	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 23:19	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 23:19	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 23:19	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 23:19	WG2405389
Ethylbenzene	U		0.0212	0.100	1	11/20/2024 23:19	WG2405389
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/20/2024 23:19	WG2405389
2-Hexanone	U	C3	0.400	1.00	1	11/20/2024 23:19	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 23:19	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 23:19	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 23:19	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 23:19	WG2405389
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/20/2024 23:19	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 23:19	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 23:19	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 23:19	WG2405389
Naphthalene	U		0.124	0.500	1	11/20/2024 23:19	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 23:19	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 23:19	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 23:19	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 23:19	WG2405389

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 23:19	WG2405389
Tetrachloroethene	U		0.0280	0.100	1	11/20/2024 23:19	WG2405389
Toluene	U		0.0500	0.200	1	11/20/2024 23:19	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 23:19	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 23:19	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 23:19	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 23:19	WG2405389
Trichloroethene	U		0.0160	0.0400	1	11/20/2024 23:19	WG2405389
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 23:19	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 23:19	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 23:19	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 23:19	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 23:19	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 23:19	WG2405389
Vinyl chloride	U		0.0273	0.100	1	11/20/2024 23:19	WG2405389
Xylenes, Total	U		0.191	0.260	1	11/20/2024 23:19	WG2405389
(S) Toluene-d8	*97.9*			*75.0-131*		*11/20/2024 23:19*	WG2405389
(S) Toluene-d8	*103*			*75.0-131*		*11/24/2024 18:51*	WG2406846
(S) 4-Bromofluorobenzene	*89.1*			*67.0-138*		*11/20/2024 23:19*	WG2405389
(S) 4-Bromofluorobenzene	*92.3*			*67.0-138*		*11/24/2024 18:51*	WG2406846
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*11/20/2024 23:19*	WG2405389
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/24/2024 18:51*	WG2406846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3	0.548	1.00	1	11/20/2024 23:39	WG2405389
Acrylonitrile	U	C3	0.0760	0.500	1	11/20/2024 23:39	WG2405389
Benzene	U		0.0160	0.0400	1	11/20/2024 23:39	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 23:39	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 23:39	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 23:39	WG2405389
Bromoform	U	C3	0.239	1.00	1	11/20/2024 23:39	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 23:39	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 23:39	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 23:39	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 23:39	WG2405389
Carbon disulfide	U	C3	0.162	0.500	1	11/20/2024 23:39	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 23:39	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/20/2024 23:39	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 23:39	WG2405389
Chloroethane	U		0.0432	0.200	1	11/20/2024 23:39	WG2405389
Chloroform	U		0.0166	0.100	1	11/20/2024 23:39	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 23:39	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 23:39	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 23:39	WG2405389
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	11/20/2024 23:39	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 23:39	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 23:39	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 23:39	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 23:39	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 23:39	WG2405389
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 19:11	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 23:39	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 23:39	WG2405389
1,2-Dichloroethane	0.549		0.0190	0.100	1	11/20/2024 23:39	WG2405389
1,1-Dichloroethene	0.601		0.0200	0.100	1	11/20/2024 23:39	WG2405389
cis-1,2-Dichloroethene	4.84		0.0276	0.100	1	11/20/2024 23:39	WG2405389
trans-1,2-Dichloroethene	0.114	J	0.0572	0.200	1	11/20/2024 23:39	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 23:39	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 23:39	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 23:39	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 23:39	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 23:39	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 23:39	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 23:39	WG2405389
Ethylbenzene	0.0520	J	0.0212	0.100	1	11/20/2024 23:39	WG2405389
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/20/2024 23:39	WG2405389
2-Hexanone	U	C3	0.400	1.00	1	11/20/2024 23:39	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 23:39	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 23:39	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/20/2024 23:39	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 23:39	WG2405389
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/20/2024 23:39	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 23:39	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 23:39	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 23:39	WG2405389
Naphthalene	U		0.124	0.500	1	11/20/2024 23:39	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/20/2024 23:39	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 23:39	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 23:39	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 23:39	WG2405389

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 23:39	WG2405389
Tetrachloroethene	U		0.0280	0.100	1	11/20/2024 23:39	WG2405389
Toluene	U		0.0500	0.200	1	11/20/2024 23:39	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 23:39	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 23:39	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 23:39	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 23:39	WG2405389
Trichloroethene	0.0690		0.0160	0.0400	1	11/20/2024 23:39	WG2405389
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 23:39	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 23:39	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/20/2024 23:39	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/20/2024 23:39	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/20/2024 23:39	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 23:39	WG2405389
Vinyl chloride	1.94		0.0273	0.100	1	11/20/2024 23:39	WG2405389
Xylenes, Total	0.233	J	0.191	0.260	1	11/20/2024 23:39	WG2405389
(S) Toluene-d8	*97.1*			*75.0-131*		*11/20/2024 23:39*	WG2405389
(S) Toluene-d8	*102*			*75.0-131*		*11/24/2024 19:11*	WG2406846
(S) 4-Bromofluorobenzene	*91.9*			*67.0-138*		*11/20/2024 23:39*	WG2405389
(S) 4-Bromofluorobenzene	*93.4*			*67.0-138*		*11/24/2024 19:11*	WG2406846
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*11/20/2024 23:39*	WG2405389
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/24/2024 19:11*	WG2406846

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	702000		4750	20000	1	11/18/2024 12:40	WG2403590

Sample Narrative:

L1799514-08 WG2403590: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	365000		2740	5000	5	11/15/2024 09:32	WG2401790
Nitrate as (N)	U		88.4	100	1	11/15/2024 04:49	WG2401790
Sulfate	795	J	637	5000	1	11/15/2024 04:49	WG2401790

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	28000		495	1000	1	11/18/2024 21:05	WG2403655

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	18800		226	1000	10	11/22/2024 23:18	WG2404355
Manganese	3100		7.00	50.0	10	11/22/2024 23:18	WG2404355

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	26700		2.87	6.78	10	11/18/2024 12:46	WG2403774
Ethane	272		0.296	1.29	1	11/17/2024 22:29	WG2403060
Ethene	2960		0.422	1.27	1	11/17/2024 22:29	WG2403060

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	0.548	1.00	1	11/20/2024 23:58	WG2405389
Acrylonitrile	U	C3	0.0760	0.500	1	11/20/2024 23:58	WG2405389
Benzene	0.362		0.0160	0.0400	1	11/20/2024 23:58	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/20/2024 23:58	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/20/2024 23:58	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/20/2024 23:58	WG2405389
Bromoform	U	C3	0.239	1.00	1	11/20/2024 23:58	WG2405389
Bromomethane	U		0.148	0.500	1	11/20/2024 23:58	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/20/2024 23:58	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/20/2024 23:58	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/20/2024 23:58	WG2405389
Carbon disulfide	17.0	C3	0.162	0.500	1	11/20/2024 23:58	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/20/2024 23:58	WG2405389
Chlorobenzene	0.0240	J	0.0229	0.100	1	11/20/2024 23:58	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/20/2024 23:58	WG2405389
Chloroethane	6.93		0.0432	0.200	1	11/20/2024 23:58	WG2405389
Chloroform	U		0.0166	0.100	1	11/20/2024 23:58	WG2405389
Chloromethane	U		0.0556	0.500	1	11/20/2024 23:58	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/20/2024 23:58	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/20/2024 23:58	WG2405389

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	11/20/2024 23:58	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/20/2024 23:58	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/20/2024 23:58	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/20/2024 23:58	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/20/2024 23:58	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/20/2024 23:58	WG2405389
trans-1,4-Dichloro-2-butene	U		11.2	40.0	200	11/24/2024 20:08	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/20/2024 23:58	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/20/2024 23:58	WG2405389
1,2-Dichloroethane	U		0.0190	0.100	1	11/20/2024 23:58	WG2405389
1,1-Dichloroethene	40.5		0.0200	0.100	1	11/20/2024 23:58	WG2405389
cis-1,2-Dichloroethene	30500		27.6	100	1000	11/27/2024 10:33	WG2408378
trans-1,2-Dichloroethene	67.4		0.0572	0.200	1	11/20/2024 23:58	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/20/2024 23:58	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/20/2024 23:58	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/20/2024 23:58	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/20/2024 23:58	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/20/2024 23:58	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/20/2024 23:58	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/20/2024 23:58	WG2405389
Ethylbenzene	0.262		0.0212	0.100	1	11/20/2024 23:58	WG2405389
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/20/2024 23:58	WG2405389
2-Hexanone	U	C3	0.400	1.00	1	11/20/2024 23:58	WG2405389
n-Hexane	U		0.0424	0.200	1	11/20/2024 23:58	WG2405389
Iodomethane	U		0.242	0.500	1	11/20/2024 23:58	WG2405389
Isopropylbenzene	0.0410	J	0.0345	0.100	1	11/20/2024 23:58	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/20/2024 23:58	WG2405389
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/20/2024 23:58	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/20/2024 23:58	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/20/2024 23:58	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/20/2024 23:58	WG2405389
Naphthalene	0.739		0.124	0.500	1	11/20/2024 23:58	WG2405389
n-Propylbenzene	0.0980	J	0.0472	0.200	1	11/20/2024 23:58	WG2405389
Styrene	U		0.109	0.500	1	11/20/2024 23:58	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/20/2024 23:58	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/20/2024 23:58	WG2405389
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/20/2024 23:58	WG2405389
Tetrachloroethene	246		5.60	20.0	200	11/24/2024 20:08	WG2406846
Toluene	0.778		0.0500	0.200	1	11/20/2024 23:58	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/20/2024 23:58	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/20/2024 23:58	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/20/2024 23:58	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/20/2024 23:58	WG2405389
Trichloroethene	303		3.20	8.00	200	11/24/2024 20:08	WG2406846
Trichlorofluoromethane	U		0.0200	0.100	1	11/20/2024 23:58	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/20/2024 23:58	WG2405389
1,2,4-Trimethylbenzene	1.74		0.0464	0.200	1	11/20/2024 23:58	WG2405389
1,2,3-Trimethylbenzene	1.26		0.0460	0.200	1	11/20/2024 23:58	WG2405389
1,3,5-Trimethylbenzene	0.443		0.0432	0.200	1	11/20/2024 23:58	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/20/2024 23:58	WG2405389
Vinyl chloride	18900		5.46	20.0	200	11/24/2024 20:08	WG2406846
Xylenes, Total	1.43		0.191	0.260	1	11/20/2024 23:58	WG2405389
(S) Toluene-d8	*98.9*			*75.0-131*		*11/20/2024 23:58*	WG2405389
(S) Toluene-d8	*103*			*75.0-131*		*11/24/2024 20:08*	WG2406846
(S) Toluene-d8	*98.8*			*75.0-131*		*11/27/2024 10:33*	WG2408378
(S) 4-Bromofluorobenzene	*96.6*			*67.0-138*		*11/20/2024 23:58*	WG2405389

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 4-Bromofluorobenzene	*93.0*			*67.0-138*		*11/24/2024 20:08*	WG2406846
(S) 4-Bromofluorobenzene	*84.6*			*67.0-138*		*11/27/2024 10:33*	WG2408378
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/20/2024 23:58*	WG2405389
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*11/24/2024 20:08*	WG2406846
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/27/2024 10:33*	WG2408378

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	549000		4750	20000	1	11/18/2024 12:45	WG2403590

Sample Narrative:

L1799514-09 WG2403590: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	92400		547	1000	1	11/15/2024 05:06	WG2401790
Nitrate as (N)	128		88.4	100	1	11/15/2024 05:06	WG2401790
Sulfate	U		637	5000	1	11/15/2024 05:06	WG2401790

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	14800		495	1000	1	11/18/2024 21:46	WG2403655

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	3700		22.6	100	1	11/22/2024 21:49	WG2404355
Manganese	851		3.50	25.0	5	11/22/2024 23:21	WG2404355

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	26900		2.87	6.78	10	11/18/2024 12:54	WG2403774
Ethane	219		0.296	1.29	1	11/17/2024 22:46	WG2403060
Ethene	43.3		0.422	1.27	1	11/17/2024 22:46	WG2403060

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3	0.548	1.00	1	11/21/2024 00:17	WG2405389
Acrylonitrile	U	C3	0.0760	0.500	1	11/21/2024 00:17	WG2405389
Benzene	0.101		0.0160	0.0400	1	11/21/2024 00:17	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/21/2024 00:17	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/21/2024 00:17	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/21/2024 00:17	WG2405389
Bromoform	U	C3	0.239	1.00	1	11/21/2024 00:17	WG2405389
Bromomethane	U		0.148	0.500	1	11/21/2024 00:17	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/21/2024 00:17	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/21/2024 00:17	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/21/2024 00:17	WG2405389
Carbon disulfide	24.6	C3	0.162	0.500	1	11/21/2024 00:17	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/21/2024 00:17	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/21/2024 00:17	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/21/2024 00:17	WG2405389
Chloroethane	0.454		0.0432	0.200	1	11/21/2024 00:17	WG2405389
Chloroform	U		0.0166	0.100	1	11/21/2024 00:17	WG2405389
Chloromethane	U		0.0556	0.500	1	11/21/2024 00:17	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/21/2024 00:17	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/21/2024 00:17	WG2405389

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	11/21/2024 00:17	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/21/2024 00:17	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/21/2024 00:17	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/21/2024 00:17	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/21/2024 00:17	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/21/2024 00:17	WG2405389
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	11/24/2024 19:30	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/21/2024 00:17	WG2405389
1,1-Dichloroethane	U		0.0230	0.100	1	11/21/2024 00:17	WG2405389
1,2-Dichloroethane	0.0260	J	0.0190	0.100	1	11/21/2024 00:17	WG2405389
1,1-Dichloroethene	0.791		0.0200	0.100	1	11/21/2024 00:17	WG2405389
cis-1,2-Dichloroethene	3.00		0.0276	0.100	1	11/24/2024 19:30	WG2406846
trans-1,2-Dichloroethene	0.762		0.0572	0.200	1	11/21/2024 00:17	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/21/2024 00:17	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/21/2024 00:17	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/21/2024 00:17	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/21/2024 00:17	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/21/2024 00:17	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/21/2024 00:17	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/21/2024 00:17	WG2405389
Ethylbenzene	U		0.0212	0.100	1	11/21/2024 00:17	WG2405389
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/21/2024 00:17	WG2405389
2-Hexanone	U	C3	0.400	1.00	1	11/21/2024 00:17	WG2405389
n-Hexane	U		0.0424	0.200	1	11/21/2024 00:17	WG2405389
Iodomethane	U		0.242	0.500	1	11/21/2024 00:17	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/21/2024 00:17	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/21/2024 00:17	WG2405389
2-Butanone (MEK)	1.82	C3	0.500	1.00	1	11/21/2024 00:17	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/21/2024 00:17	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/21/2024 00:17	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/21/2024 00:17	WG2405389
Naphthalene	U		0.124	0.500	1	11/21/2024 00:17	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/21/2024 00:17	WG2405389
Styrene	U		0.109	0.500	1	11/21/2024 00:17	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/21/2024 00:17	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/21/2024 00:17	WG2405389
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/21/2024 00:17	WG2405389
Tetrachloroethene	13.0		0.0280	0.100	1	11/24/2024 19:30	WG2406846
Toluene	U		0.0500	0.200	1	11/21/2024 00:17	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/21/2024 00:17	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/21/2024 00:17	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/21/2024 00:17	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/21/2024 00:17	WG2405389
Trichloroethene	1.02		0.0160	0.0400	1	11/24/2024 19:30	WG2406846
Trichlorofluoromethane	U		0.0200	0.100	1	11/21/2024 00:17	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/21/2024 00:17	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/21/2024 00:17	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/21/2024 00:17	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/21/2024 00:17	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/21/2024 00:17	WG2405389
Vinyl chloride	47.6		0.0273	0.100	1	11/24/2024 19:30	WG2406846
Xylenes, Total	U		0.191	0.260	1	11/21/2024 00:17	WG2405389
(S) Toluene-d8	*97.9*			*75.0-131*		*11/21/2024 00:17*	WG2405389
(S) Toluene-d8	*103*			*75.0-131*		*11/24/2024 19:30*	WG2406846
(S) 4-Bromofluorobenzene	*89.8*			*67.0-138*		*11/21/2024 00:17*	WG2405389
(S) 4-Bromofluorobenzene	*90.9*			*67.0-138*		*11/24/2024 19:30*	WG2406846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/21/2024 00:17*	WG2405389
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*11/24/2024 19:30*	WG2406846

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	438000		4750	20000	1	11/18/2024 11:47	WG2403599

Sample Narrative:

L1799514-10 WG2403599: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	34500		547	1000	1	11/15/2024 05:24	WG2401790
Nitrate as (N)	U		88.4	100	1	11/15/2024 05:24	WG2401790
Sulfate	32500		637	5000	1	11/15/2024 05:24	WG2401790

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	14200		495	1000	1	11/19/2024 14:55	WG2404168

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2230		22.6	100	1	11/22/2024 21:52	WG2404355
Manganese	4620		14.0	100	20	11/22/2024 23:24	WG2404355

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	7550		2.87	6.78	10	11/18/2024 13:01	WG2403774
Ethane	77.9		0.296	1.29	1	11/17/2024 22:51	WG2403060
Ethene	2.46		0.422	1.27	1	11/17/2024 22:51	WG2403060

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	0.548	1.00	1	11/21/2024 00:36	WG2405389
Acrylonitrile	U	C3	0.0760	0.500	1	11/21/2024 00:36	WG2405389
Benzene	0.0330	J	0.0160	0.0400	1	11/21/2024 00:36	WG2405389
Bromobenzene	U		0.0420	0.500	1	11/21/2024 00:36	WG2405389
Bromochloromethane	U		0.0452	0.200	1	11/21/2024 00:36	WG2405389
Bromodichloromethane	U		0.0315	0.100	1	11/21/2024 00:36	WG2405389
Bromoform	U	C3	0.239	1.00	1	11/21/2024 00:36	WG2405389
Bromomethane	U		0.148	0.500	1	11/21/2024 00:36	WG2405389
n-Butylbenzene	U		0.153	0.500	1	11/21/2024 00:36	WG2405389
sec-Butylbenzene	U		0.101	0.500	1	11/21/2024 00:36	WG2405389
tert-Butylbenzene	U		0.0620	0.200	1	11/21/2024 00:36	WG2405389
Carbon disulfide	0.346	C3 J	0.162	0.500	1	11/21/2024 00:36	WG2405389
Carbon tetrachloride	U		0.0432	0.200	1	11/21/2024 00:36	WG2405389
Chlorobenzene	U		0.0229	0.100	1	11/21/2024 00:36	WG2405389
Chlorodibromomethane	U		0.0180	0.100	1	11/21/2024 00:36	WG2405389
Chloroethane	0.122	J	0.0432	0.200	1	11/21/2024 00:36	WG2405389
Chloroform	U		0.0166	0.100	1	11/21/2024 00:36	WG2405389
Chloromethane	U		0.0556	0.500	1	11/21/2024 00:36	WG2405389
2-Chlorotoluene	U		0.0368	0.100	1	11/21/2024 00:36	WG2405389
4-Chlorotoluene	U		0.0452	0.200	1	11/21/2024 00:36	WG2405389

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	11/21/2024 00:36	WG2405389
1,2-Dibromoethane	U		0.0210	0.100	1	11/21/2024 00:36	WG2405389
Dibromomethane	U		0.0400	0.200	1	11/21/2024 00:36	WG2405389
1,2-Dichlorobenzene	U		0.0580	0.200	1	11/21/2024 00:36	WG2405389
1,3-Dichlorobenzene	U		0.0680	0.200	1	11/21/2024 00:36	WG2405389
1,4-Dichlorobenzene	U		0.0788	0.200	1	11/21/2024 00:36	WG2405389
trans-1,4-Dichloro-2-butene	U		5.60	20.0	100	11/24/2024 20:27	WG2406846
Dichlorodifluoromethane	U		0.0327	0.200	1	11/21/2024 00:36	WG2405389
1,1-Dichloroethane	0.0930	J	0.0230	0.100	1	11/21/2024 00:36	WG2405389
1,2-Dichloroethane	U		0.0190	0.100	1	11/21/2024 00:36	WG2405389
1,1-Dichloroethene	70.8		0.0200	0.100	1	11/21/2024 00:36	WG2405389
cis-1,2-Dichloroethene	909		2.76	10.0	100	11/24/2024 20:27	WG2406846
trans-1,2-Dichloroethene	38.6		0.0572	0.200	1	11/21/2024 00:36	WG2405389
1,2-Dichloropropane	U		0.0508	0.200	1	11/21/2024 00:36	WG2405389
1,1-Dichloropropene	U		0.0280	0.100	1	11/21/2024 00:36	WG2405389
1,3-Dichloropropane	U		0.0700	0.200	1	11/21/2024 00:36	WG2405389
cis-1,3-Dichloropropene	U		0.0271	0.100	1	11/21/2024 00:36	WG2405389
trans-1,3-Dichloropropene	U		0.0612	0.200	1	11/21/2024 00:36	WG2405389
2,2-Dichloropropane	U		0.0317	0.100	1	11/21/2024 00:36	WG2405389
Di-isopropyl ether	U		0.0140	0.0400	1	11/21/2024 00:36	WG2405389
Ethylbenzene	U		0.0212	0.100	1	11/21/2024 00:36	WG2405389
Hexachloro-1,3-butadiene	U	C3	0.508	1.00	1	11/21/2024 00:36	WG2405389
2-Hexanone	U	C3	0.400	1.00	1	11/21/2024 00:36	WG2405389
n-Hexane	U		0.0424	0.200	1	11/21/2024 00:36	WG2405389
Iodomethane	U		0.242	0.500	1	11/21/2024 00:36	WG2405389
Isopropylbenzene	U		0.0345	0.100	1	11/21/2024 00:36	WG2405389
p-Isopropyltoluene	U		0.0932	0.200	1	11/21/2024 00:36	WG2405389
2-Butanone (MEK)	U	C3	0.500	1.00	1	11/21/2024 00:36	WG2405389
Methylene Chloride	U		0.265	1.00	1	11/21/2024 00:36	WG2405389
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	11/21/2024 00:36	WG2405389
Methyl tert-butyl ether	U		0.0118	0.0400	1	11/21/2024 00:36	WG2405389
Naphthalene	U		0.124	0.500	1	11/21/2024 00:36	WG2405389
n-Propylbenzene	U		0.0472	0.200	1	11/21/2024 00:36	WG2405389
Styrene	U		0.109	0.500	1	11/21/2024 00:36	WG2405389
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	11/21/2024 00:36	WG2405389
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	11/21/2024 00:36	WG2405389
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	11/21/2024 00:36	WG2405389
Tetrachloroethene	1350		2.80	10.0	100	11/24/2024 20:27	WG2406846
Toluene	0.173	J	0.0500	0.200	1	11/21/2024 00:36	WG2405389
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	11/21/2024 00:36	WG2405389
1,2,4-Trichlorobenzene	U		0.193	0.500	1	11/21/2024 00:36	WG2405389
1,1,1-Trichloroethane	U		0.0110	0.100	1	11/21/2024 00:36	WG2405389
1,1,2-Trichloroethane	U		0.0353	0.100	1	11/21/2024 00:36	WG2405389
Trichloroethene	1860		1.60	4.00	100	11/24/2024 20:27	WG2406846
Trichlorofluoromethane	U		0.0200	0.100	1	11/21/2024 00:36	WG2405389
1,2,3-Trichloropropane	U		0.204	0.500	1	11/21/2024 00:36	WG2405389
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	11/21/2024 00:36	WG2405389
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	11/21/2024 00:36	WG2405389
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	11/21/2024 00:36	WG2405389
Vinyl acetate	U		0.141	0.500	1	11/21/2024 00:36	WG2405389
Vinyl chloride	14.2		2.73	10.0	100	11/24/2024 20:27	WG2406846
Xylenes, Total	U		0.191	0.260	1	11/21/2024 00:36	WG2405389
(S) Toluene-d8	*100*			*75.0-131*		*11/21/2024 00:36*	WG2405389
(S) Toluene-d8	*103*			*75.0-131*		*11/24/2024 20:27*	WG2406846
(S) 4-Bromofluorobenzene	*89.6*			*67.0-138*		*11/21/2024 00:36*	WG2405389
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*		*11/24/2024 20:27*	WG2406846

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/21/2024 00:36*	WG2405389
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/24/2024 20:27*	WG2406846

Method Blank (MB)

(MB) R4147339-2 11/18/24 10:57

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

Sample Narrative:

BLANK: Endpoint pH 4.5

L1799000-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1799000-02 11/18/24 11:14 • (DUP) R4147339-3 11/18/24 11:20

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	136000	135000	1	0.452		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1799518-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1799518-04 11/18/24 13:22 • (DUP) R4147339-4 11/18/24 13:29

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	453000	457000	1	1.00		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4147339-1 11/18/24 10:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	102000	102	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4147345-2 11/18/24 10:45

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

Sample Narrative:
BLANK: Endpoint pH 4.5

L1799000-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1799000-01 11/18/24 10:56 • (DUP) R4147345-4 11/18/24 11:02

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	138000	138000	1	0.0565		20

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

L1799931-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1799931-01 11/18/24 12:38 • (DUP) R4147345-6 11/18/24 12:43

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	41800	42900	1	2.60		20

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

Laboratory Control Sample (LCS)

(LCS) R4147345-1 11/18/24 10:40

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

Sample Narrative:
LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4148515-1 11/14/24 23:36

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

L1799507-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1799507-01 11/15/24 00:45 • (DUP) R4148515-3 11/15/24 01:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	37100	36600	1	1.42		15
Nitrate as (N)	3840	3800	1	1.16		15
Sulfate	100000	100000	1	0.415		15

Sample Narrative:

OS: NO2 Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

L1799518-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1799518-01 11/15/24 05:41 • (DUP) R4148515-5 11/15/24 05:59

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Nitrate as (N)	4840	4830	1	0.126		15

L1799518-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1799518-01 11/15/24 09:49 • (DUP) R4148515-8 11/15/24 10:07

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	353000	353000	5	0.145		15
Sulfate	208000	208000	5	0.319		15

Laboratory Control Sample (LCS)

(LCS) R4148515-2 11/14/24 23:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	40700	102	80.0-120	
Nitrate as (N)	8000	8170	102	80.0-120	
Sulfate	40000	41200	103	80.0-120	

L1799507-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1799507-01 11/15/24 00:45 • (MS) R4148515-4 11/15/24 01:20

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	37100	69300	80.5	1	80.0-120	
Nitrate as (N)	8000	3840	11200	92.4	1	80.0-120	
Sulfate	40000	100000	119000	45.4	1	80.0-120	J6

Sample Narrative:

OS: NO2 Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

L1799518-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799518-01 11/15/24 05:41 • (MS) R4148515-6 11/15/24 06:16 • (MSD) R4148515-7 11/15/24 06:33

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate as (N)	8000	4840	6300	6250	18.3	17.7	1	80.0-120	J6	J6	0.753	15
Sulfate	40000	213000	213000	212000	1.33	0.000	1	80.0-120	E V	E V	0.343	15

Method Blank (MB)

(MB) R4147568-2 11/18/24 12:49

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

L1799084-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1799084-07 11/18/24 16:27 • (DUP) R4147568-5 11/18/24 16:44

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

L1799514-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1799514-08 11/18/24 21:05 • (DUP) R4147568-8 11/18/24 21:26

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	28000	28000	1	0.107		20

Laboratory Control Sample (LCS)

(LCS) R4147568-1 11/18/24 12:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25000	24000	96.0	85.0-115	

L1799084-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799084-02 11/18/24 15:24 • (MS) R4147568-3 11/18/24 15:49 • (MSD) R4147568-4 11/18/24 16:10

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	U	24500	24700	98.0	98.7	1	85.0-115			0.651	20

L1799514-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799514-05 11/18/24 20:02 • (MS) R4147568-6 11/18/24 20:23 • (MSD) R4147568-7 11/18/24 20:44

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	1690	25900	25800	96.8	96.4	1	85.0-115			0.464	20

Method Blank (MB)

(MB) R4148164-2 11/19/24 10:11

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

L1799430-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1799430-01 11/19/24 13:33 • (DUP) R4148164-5 11/19/24 13:50

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	671	U	1	200	P1	20

L1799540-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1799540-08 11/19/24 17:55 • (DUP) R4148164-8 11/19/24 18:13

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	2070	2080	1	0.675		20

Laboratory Control Sample (LCS)

(LCS) R4148164-1 11/19/24 09:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25000	24000	95.8	85.0-115	

L1799422-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799422-02 11/19/24 12:11 • (MS) R4148164-3 11/19/24 12:32 • (MSD) R4148164-4 11/19/24 12:53

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	2190	27300	26300	100	96.3	1	85.0-115			3.77	20

L1799540-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799540-07 11/19/24 16:51 • (MS) R4148164-6 11/19/24 17:14 • (MSD) R4148164-7 11/19/24 17:36

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	824	25200	25100	97.5	96.9	1	85.0-115			0.637	20

Method Blank (MB)

(MB) R4149754-1 11/22/24 20:56

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

Laboratory Control Sample (LCS)

(LCS) R4149754-2 11/22/24 20:59

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	1000	997	99.7	80.0-120	
Manganese	50.0	51.3	103	80.0-120	

L1799540-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799540-06 11/22/24 21:02 • (MS) R4149754-4 11/22/24 21:08 • (MSD) R4149754-5 11/22/24 21:11

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	1000	64.2	1040	1040	97.9	97.6	1	75.0-125			0.327	20
Manganese	50.0	964	1010	1000	92.3	76.1	1	75.0-125			0.803	20

Method Blank (MB)

(MB) R4147090-2 11/17/24 20:41

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

L1799518-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1799518-01 11/17/24 22:58 • (DUP) R4147090-3 11/18/24 00:08

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

L1799525-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1799525-01 11/18/24 00:24 • (DUP) R4147090-4 11/18/24 02:34

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

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

(LCS) R4147090-1 11/17/24 19:00 • (LCSD) R4147090-9 11/18/24 03:39

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	74.5	76.9	110	113	85.0-115			3.17	20
Ethane	129	139	137	108	106	85.0-115			1.45	20
Ethene	127	137	134	108	106	85.0-115			2.21	20

L1799499-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799499-01 11/17/24 20:46 • (MS) R4147090-5 11/18/24 03:01 • (MSD) R4147090-6 11/18/24 03:10

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methane	67.8	U	90.8	99.2	134	146	1	85.0-115	J5	J5	8.84	20
Ethane	129	U	159	162	123	126	1	85.0-115	J5	J5	1.87	20
Ethene	127	U	156	158	123	124	1	85.0-115	J5	J5	1.27	20

L1799518-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1799518-01 11/17/24 22:58 • (MS) R4147090-7 11/18/24 03:23 • (MSD) R4147090-8 11/18/24 03:34

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methane	67.8	U	87.8	71.9	129	106	1	85.0-115	J5		19.9	20
Ethane	129	U	162	130	126	101	1	85.0-115	J5	J3	21.9	20
Ethene	127	U	157	127	124	100	1	85.0-115	J5	J3	21.1	20

Method Blank (MB)

(MB) R4147240-2 11/18/24 12:33

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

L1799514-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1799514-04 11/18/24 12:40 • (DUP) R4147240-3 11/18/24 13:19

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	25800	26100	10	1.16		20

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

(LCS) R4147240-1 11/18/24 12:26 • (LCSD) R4147240-4 11/18/24 13:23

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methane	67.8	63.2	67.0	93.2	98.8	85.0-115			5.84	20

Method Blank (MB)

(MB) R4149504-2 11/20/24 18:08

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
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
Ethylbenzene	U		0.0212	0.100

Method Blank (MB)

(MB) R4149504-2 11/20/24 18:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
2-Hexanone	U		0.400	1.00
n-Hexane	U		0.0424	0.200
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl acetate	U		0.141	0.500
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	*97.1*			*75.0-131*
(S) 4-Bromofluorobenzene	*89.1*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4149504-1 11/20/24 16:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	24.5	98.0	10.0-160	
Acrylonitrile	25.0	25.8	103	45.0-153	
Benzene	5.00	4.54	90.8	70.0-123	
Bromobenzene	5.00	4.49	89.8	73.0-121	
Bromochloromethane	5.00	4.83	96.6	77.0-128	
Bromodichloromethane	5.00	4.67	93.4	73.0-121	
Bromoform	5.00	3.62	72.4	64.0-132	
Bromomethane	5.00	5.47	109	56.0-147	
n-Butylbenzene	5.00	4.32	86.4	68.0-135	
sec-Butylbenzene	5.00	4.34	86.8	74.0-130	
tert-Butylbenzene	5.00	4.33	86.6	75.0-127	
Carbon disulfide	5.00	3.99	79.8	56.0-133	
Carbon tetrachloride	5.00	4.64	92.8	66.0-128	
Chlorobenzene	5.00	4.24	84.8	76.0-128	
Chlorodibromomethane	5.00	4.08	81.6	74.0-127	
Chloroethane	5.00	5.73	115	61.0-134	
Chloroform	5.00	4.60	92.0	72.0-123	
Chloromethane	5.00	3.97	79.4	51.0-138	
2-Chlorotoluene	5.00	4.51	90.2	75.0-124	
4-Chlorotoluene	5.00	4.50	90.0	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	3.79	75.8	59.0-130	
1,2-Dibromoethane	5.00	4.37	87.4	74.0-128	
Dibromomethane	5.00	4.61	92.2	75.0-122	
1,2-Dichlorobenzene	5.00	4.21	84.2	76.0-124	
1,3-Dichlorobenzene	5.00	4.36	87.2	76.0-125	
1,4-Dichlorobenzene	5.00	4.33	86.6	77.0-121	
Dichlorodifluoromethane	5.00	3.90	78.0	43.0-156	
1,1-Dichloroethane	5.00	4.81	96.2	70.0-127	
1,2-Dichloroethane	5.00	4.54	90.8	65.0-131	
1,1-Dichloroethene	5.00	4.84	96.8	65.0-131	
cis-1,2-Dichloroethene	5.00	4.68	93.6	73.0-125	
trans-1,2-Dichloroethene	5.00	4.35	87.0	71.0-125	
1,2-Dichloropropane	5.00	4.89	97.8	74.0-125	
1,1-Dichloropropene	5.00	4.64	92.8	73.0-125	
1,3-Dichloropropane	5.00	4.54	90.8	80.0-125	
cis-1,3-Dichloropropene	5.00	4.65	93.0	76.0-127	
trans-1,3-Dichloropropene	5.00	4.34	86.8	73.0-127	
2,2-Dichloropropane	5.00	5.35	107	59.0-135	
Di-isopropyl ether	5.00	4.64	92.8	60.0-136	
Ethylbenzene	5.00	4.30	86.0	74.0-126	

Laboratory Control Sample (LCS)

(LCS) R4149504-1 11/20/24 16:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexachloro-1,3-butadiene	5.00	4.02	80.4	57.0-150	
2-Hexanone	25.0	20.7	82.8	54.0-147	
n-Hexane	5.00	4.04	80.8	55.0-137	
Iodomethane	25.0	21.3	85.2	74.0-134	
Isopropylbenzene	5.00	4.37	87.4	72.0-127	
p-Isopropyltoluene	5.00	4.42	88.4	72.0-133	
2-Butanone (MEK)	25.0	20.5	82.0	30.0-160	
Methylene Chloride	5.00	4.71	94.2	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	26.0	104	56.0-143	
Methyl tert-butyl ether	5.00	4.52	90.4	66.0-132	
Naphthalene	5.00	3.84	76.8	59.0-130	
n-Propylbenzene	5.00	4.45	89.0	74.0-126	
Styrene	5.00	4.35	87.0	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	4.28	85.6	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	4.56	91.2	68.0-128	
1,1,2-Trichlorotrifluoroethane	5.00	4.58	91.6	61.0-139	
Tetrachloroethene	5.00	4.35	87.0	70.0-136	
Toluene	5.00	4.44	88.8	75.0-121	
1,2,3-Trichlorobenzene	5.00	4.24	84.8	59.0-139	
1,2,4-Trichlorobenzene	5.00	3.97	79.4	62.0-137	
1,1,1-Trichloroethane	5.00	4.79	95.8	69.0-126	
1,1,2-Trichloroethane	5.00	4.67	93.4	78.0-123	
Trichloroethene	5.00	4.53	90.6	76.0-126	
Trichlorofluoromethane	5.00	4.97	99.4	61.0-142	J
1,2,3-Trichloropropane	5.00	4.84	96.8	67.0-129	
1,2,4-Trimethylbenzene	5.00	4.41	88.2	70.0-126	
1,2,3-Trimethylbenzene	5.00	4.22	84.4	74.0-124	
1,3,5-Trimethylbenzene	5.00	4.38	87.6	73.0-127	
Vinyl acetate	25.0	19.8	79.2	43.0-159	
Vinyl chloride	5.00	4.77	95.4	63.0-134	
Xylenes, Total	15.0	12.5	83.3	72.0-127	
(S) Toluene-d8			*96.3*	*75.0-131*	
(S) 4-Bromofluorobenzene			*94.2*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*110*	*70.0-130*	

Method Blank (MB)

(MB) R4150414-3 11/24/24 11:48

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
cis-1,2-Dichloroethene	U		0.0276	0.100
Tetrachloroethene	U		0.0280	0.100
Trichloroethene	U		0.0160	0.0400
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*92.1*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*96.6*			*70.0-130*

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

(LCS) R4150414-1 11/24/24 10:31 • (LCSD) R4150414-2 11/24/24 10:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
trans-1,4-Dichloro-2-butene	5.00	5.77	6.52	115	130	45.0-143			12.2	20
cis-1,2-Dichloroethene	5.00	4.32	4.73	86.4	94.6	73.0-125			9.06	20
Tetrachloroethene	5.00	5.08	5.11	102	102	70.0-136			0.589	20
Trichloroethene	5.00	4.52	4.86	90.4	97.2	76.0-126			7.25	20
Vinyl chloride	5.00	5.90	6.05	118	121	63.0-134			2.51	20
(S) Toluene-d8				*102*	*101*	*75.0-131*				
(S) 4-Bromofluorobenzene				*97.1*	*94.0*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*100*	*103*	*70.0-130*				

Method Blank (MB)

(MB) R4151827-3 11/27/24 03:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	0.0350	J	0.0276	0.100
(S) Toluene-d8	*98.5*			*75.0-131*
(S) 4-Bromofluorobenzene	*83.4*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*

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

(LCS) R4151827-1 11/27/24 02:22 • (LCSD) R4151827-2 11/27/24 02:42

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 %
cis-1,2-Dichloroethene	5.00	4.62	4.99	92.4	99.8	73.0-125			7.70	20
(S) Toluene-d8				*96.8*	*98.2*	*75.0-131*				
(S) 4-Bromofluorobenzene				*87.8*	*91.4*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*106*	*105*	*70.0-130*				

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

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
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	LAO000356
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

Report to:
Daniel Balbiani

Email To:
Daniel.balbiani@nv5.com;sam.graber@nv5.com

Project Description:
American Linen

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413001.10.701.02

Lab Project #
PESENVSWA-ALP

Collected by (print):
D. Del Giudice

Site/Facility ID #

P.O. #
443022-1413001.10.701

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**Nitr,chl,sulf 9056 250mlHDPE-NoPres	ALK 2320B 125mlHDPE-NoPres	EEM RSK175LL 40mlAmb-HCl	FE,MN total 6020 250mlHDPE-HNO3	TOC 9060 250mlAmb-HCl	VOCS 8260ULL 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-158-111324	G	GW	—	11/13/24	1010	3						X		01
MW-302-111324		GW			1101	3						X		02
MW-304-111324		GW			1220	3						X		03
BB-8-111324		GW			1346	9	X	X	X	X	X	X		04
R-MW5-111324		GW			1054	9	X	X	X	X	X	X		05
MW-303-111324		GW			1219	3						X		06
MW105-111324		GW			1443	3						X		07
MW-182-111324		GW			1050	9	X	X	X	X	X	X		08
(NEW) ~~MW-169~~ MW-169-111324		GW			1341	9	X	X	X	X	X	X		09
MW-172-111324		GW			1517	9	X	X	X	X	X	X		10

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

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

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4212 6472 7571

Relinquished by : (Signature) — Date: 11/13/24 — Time: 1544 — Received by: (Signature)

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

Relinquished by : (Signature) — Date: — Time: — Received for lab by: (Signature) — Date: 11/14/24 — Time: 9:00

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

Temp: 3.0 °C Bottles Received: 60

Hold:

Condition: NCF / OK

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

PH – 10BDH0941
TRC – 3327A333

Chain of Custody Page 1 of 1

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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://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1799514
H209

Acctnum: **PESENVSWA**
Template: **T262759**
Prelogin: **P1110133**
PM: **3768 - Jordan Dozier**
PB: LM 10/23/24
Shipped Via: **FedEx Ground**