

Oregon Dept. of Env. Quality - ODEQ

Sample Delivery Group: L869118
Samples Received: 10/28/2016
Project Number:
Description: Montezuma West

Report To: Kenneth Cameron (ODEQ)
2020 SW 4th Suite 400
Portland, OR 97201

Entire Report Reviewed By:



Brian Ford
Technical Service Representative

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 ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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TRIP BLANK L869118-01 GW

			Collected by Ken Cameron	Collected date/time 10/25/16 00:00	Received date/time 10/28/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG922004	1	11/04/16 05:42	11/04/16 05:42	JHH

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

MW-17 L869118-02 GW

			Collected by Ken Cameron	Collected date/time 10/25/16 11:10	Received date/time 10/28/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG922004	1	11/04/16 06:03	11/04/16 06:03	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG922004	10	11/07/16 19:21	11/07/16 19:21	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG922320	1	11/01/16 20:50	11/01/16 20:50	ACG

MW-11 L869118-03 GW

			Collected by Ken Cameron	Collected date/time 10/25/16 12:45	Received date/time 10/28/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG922004	1	11/04/16 06:24	11/04/16 06:24	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG922320	1	11/01/16 21:09	11/01/16 21:09	ACG

MW-14 L869118-04 GW

			Collected by Ken Cameron	Collected date/time 10/25/16 14:00	Received date/time 10/28/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG922004	1	11/04/16 06:45	11/04/16 06:45	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG922320	1	11/01/16 21:29	11/01/16 21:29	ACG

DW-25 L869118-05 GW

			Collected by Ken Cameron	Collected date/time 10/25/16 14:45	Received date/time 10/28/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG922004	1	11/04/16 07:06	11/04/16 07:06	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG922320	1	11/01/16 21:48	11/01/16 21:48	ACG

DW-25K L869118-06 GW

			Collected by Ken Cameron	Collected date/time 10/25/16 14:30	Received date/time 10/28/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG922004	1	11/04/16 07:27	11/04/16 07:27	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG922320	1	11/01/16 22:08	11/01/16 22:08	ACG

P-3K L869118-07 GW

			Collected by Ken Cameron	Collected date/time 10/26/16 08:45	Received date/time 10/28/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG922004	1	11/04/16 07:48	11/04/16 07:48	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG922320	1	11/01/16 22:27	11/01/16 22:27	ACG



P-3 L869118-08 GW

			Collected by Ken Cameron	Collected date/time 10/26/16 09:00	Received date/time 10/28/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG922004	1	11/04/16 08:10	11/04/16 08:10	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG922320	1	11/01/16 22:47	11/01/16 22:47	ACG

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

DW-27 L869118-09 GW

			Collected by Ken Cameron	Collected date/time 10/26/16 10:25	Received date/time 10/28/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG922004	1	11/04/16 08:31	11/04/16 08:31	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG922320	1	11/01/16 23:06	11/01/16 23:06	ACG

DW-21 L869118-10 GW

			Collected by Ken Cameron	Collected date/time 10/26/16 10:50	Received date/time 10/28/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG922004	1	11/04/16 08:52	11/04/16 08:52	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG922320	1	11/01/16 23:25	11/01/16 23:25	ACG

DW-18 L869118-11 GW

			Collected by Ken Cameron	Collected date/time 10/26/16 11:15	Received date/time 10/28/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG922004	1	11/04/16 09:13	11/04/16 09:13	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG922320	1	11/01/16 23:44	11/01/16 23:44	ACG

DW-19 L869118-12 GW

			Collected by Ken Cameron	Collected date/time 10/26/16 12:05	Received date/time 10/28/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG922004	1	11/04/16 09:34	11/04/16 09:34	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG922320	1	11/02/16 00:03	11/02/16 00:03	ACG

DW-23 L869118-13 GW

			Collected by Ken Cameron	Collected date/time 10/26/16 09:25	Received date/time 10/28/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG922004	1	11/04/16 09:55	11/04/16 09:55	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG922320	1	11/02/16 00:23	11/02/16 00:23	ACG

DW-20 L869118-14 GW

			Collected by Ken Cameron	Collected date/time 10/26/16 11:45	Received date/time 10/28/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG922004	1	11/04/16 13:21	11/04/16 13:21	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM	WG922320	1	11/02/16 00:42	11/02/16 00:42	ACG



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

Brian Ford
Technical Service Representative

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 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	11/04/2016 05:42	WG922004
Acrolein	U	J4	8.87	50.0	1	11/04/2016 05:42	WG922004
Acrylonitrile	U		1.87	10.0	1	11/04/2016 05:42	WG922004
Benzene	U		0.331	1.00	1	11/04/2016 05:42	WG922004
Bromobenzene	U		0.352	1.00	1	11/04/2016 05:42	WG922004
Bromodichloromethane	U		0.380	1.00	1	11/04/2016 05:42	WG922004
Bromoform	U		0.469	1.00	1	11/04/2016 05:42	WG922004
Bromomethane	U		0.866	5.00	1	11/04/2016 05:42	WG922004
n-Butylbenzene	U		0.361	1.00	1	11/04/2016 05:42	WG922004
sec-Butylbenzene	U		0.365	1.00	1	11/04/2016 05:42	WG922004
tert-Butylbenzene	U		0.399	1.00	1	11/04/2016 05:42	WG922004
Carbon disulfide	0.436	J	0.275	1.00	1	11/04/2016 05:42	WG922004
Carbon tetrachloride	U	J4	0.379	1.00	1	11/04/2016 05:42	WG922004
Chlorobenzene	U		0.348	1.00	1	11/04/2016 05:42	WG922004
Chlorodibromomethane	U		0.327	1.00	1	11/04/2016 05:42	WG922004
Chloroethane	U		0.453	5.00	1	11/04/2016 05:42	WG922004
Chloroform	U		0.324	5.00	1	11/04/2016 05:42	WG922004
Chloromethane	4.38		0.276	2.50	1	11/04/2016 05:42	WG922004
2-Chlorotoluene	U		0.375	1.00	1	11/04/2016 05:42	WG922004
4-Chlorotoluene	U		0.351	1.00	1	11/04/2016 05:42	WG922004
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	11/04/2016 05:42	WG922004
1,2-Dibromoethane	U		0.381	1.00	1	11/04/2016 05:42	WG922004
Dibromomethane	U		0.346	1.00	1	11/04/2016 05:42	WG922004
1,2-Dichlorobenzene	U		0.349	1.00	1	11/04/2016 05:42	WG922004
1,3-Dichlorobenzene	U		0.220	1.00	1	11/04/2016 05:42	WG922004
1,4-Dichlorobenzene	U		0.274	1.00	1	11/04/2016 05:42	WG922004
Dichlorodifluoromethane	U		0.551	5.00	1	11/04/2016 05:42	WG922004
1,1-Dichloroethane	U		0.259	1.00	1	11/04/2016 05:42	WG922004
1,2-Dichloroethane	U		0.361	1.00	1	11/04/2016 05:42	WG922004
1,1-Dichloroethene	U		0.398	1.00	1	11/04/2016 05:42	WG922004
cis-1,2-Dichloroethene	0.603	J	0.260	1.00	1	11/04/2016 05:42	WG922004
trans-1,2-Dichloroethene	U		0.396	1.00	1	11/04/2016 05:42	WG922004
1,2-Dichloropropane	U		0.306	1.00	1	11/04/2016 05:42	WG922004
1,1-Dichloropropene	U		0.352	1.00	1	11/04/2016 05:42	WG922004
1,3-Dichloropropane	U	J4	0.366	1.00	1	11/04/2016 05:42	WG922004
cis-1,3-Dichloropropene	U		0.418	1.00	1	11/04/2016 05:42	WG922004
trans-1,3-Dichloropropene	U		0.419	1.00	1	11/04/2016 05:42	WG922004
2,2-Dichloropropane	U		0.321	1.00	1	11/04/2016 05:42	WG922004
Di-isopropyl ether	U		0.320	1.00	1	11/04/2016 05:42	WG922004
Ethylbenzene	U		0.384	1.00	1	11/04/2016 05:42	WG922004
Hexachloro-1,3-butadiene	U		0.256	1.00	1	11/04/2016 05:42	WG922004
Isopropylbenzene	U		0.326	1.00	1	11/04/2016 05:42	WG922004
p-Isopropyltoluene	U		0.350	1.00	1	11/04/2016 05:42	WG922004
2-Butanone (MEK)	U		3.93	10.0	1	11/04/2016 05:42	WG922004
Methylene Chloride	U		1.00	5.00	1	11/04/2016 05:42	WG922004
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	11/04/2016 05:42	WG922004
Methyl tert-butyl ether	U		0.367	1.00	1	11/04/2016 05:42	WG922004
Naphthalene	U		1.00	5.00	1	11/04/2016 05:42	WG922004
n-Propylbenzene	U		0.349	1.00	1	11/04/2016 05:42	WG922004
Styrene	U		0.307	1.00	1	11/04/2016 05:42	WG922004
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	11/04/2016 05:42	WG922004
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	11/04/2016 05:42	WG922004
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	11/04/2016 05:42	WG922004
Tetrachloroethene	0.575	J	0.372	1.00	1	11/04/2016 05:42	WG922004
Toluene	U		0.780	5.00	1	11/04/2016 05:42	WG922004
1,2,3-Trichlorobenzene	U	J4	0.230	1.00	1	11/04/2016 05:42	WG922004

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/25/16 00:00

L869118

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.355	1.00	1	11/04/2016 05:42	WG922004
1,1,1-Trichloroethane	U		0.319	1.00	1	11/04/2016 05:42	WG922004
1,1,2-Trichloroethane	U		0.383	1.00	1	11/04/2016 05:42	WG922004
Trichloroethene	U		0.398	1.00	1	11/04/2016 05:42	WG922004
Trichlorofluoromethane	U		1.20	5.00	1	11/04/2016 05:42	WG922004
1,2,3-Trichloropropane	U		0.807	2.50	1	11/04/2016 05:42	WG922004
1,2,4-Trimethylbenzene	U		0.373	1.00	1	11/04/2016 05:42	WG922004
1,2,3-Trimethylbenzene	U		0.321	1.00	1	11/04/2016 05:42	WG922004
1,3,5-Trimethylbenzene	U		0.387	1.00	1	11/04/2016 05:42	WG922004
Vinyl chloride	U		0.259	1.00	1	11/04/2016 05:42	WG922004
Xylenes, Total	U		1.06	3.00	1	11/04/2016 05:42	WG922004
(S) Toluene-d8	101			90.0-115		11/04/2016 05:42	WG922004
(S) Dibromofluoromethane	87.5			79.0-121		11/04/2016 05:42	WG922004
(S) 4-Bromofluorobenzene	94.7			80.1-120		11/04/2016 05:42	WG922004

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

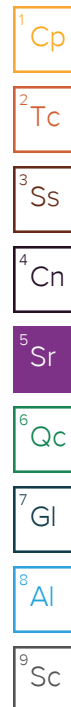


Collected date/time: 10/25/16 11:10

L869118

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	11/04/2016 06:03	WG922004
Acrolein	U	J4	8.87	50.0	1	11/04/2016 06:03	WG922004
Acrylonitrile	U		1.87	10.0	1	11/04/2016 06:03	WG922004
Benzene	U		0.331	1.00	1	11/04/2016 06:03	WG922004
Bromobenzene	U		0.352	1.00	1	11/04/2016 06:03	WG922004
Bromodichloromethane	U		0.380	1.00	1	11/04/2016 06:03	WG922004
Bromoform	U		0.469	1.00	1	11/04/2016 06:03	WG922004
Bromomethane	U		0.866	5.00	1	11/04/2016 06:03	WG922004
n-Butylbenzene	U		0.361	1.00	1	11/04/2016 06:03	WG922004
sec-Butylbenzene	U		0.365	1.00	1	11/04/2016 06:03	WG922004
tert-Butylbenzene	U		0.399	1.00	1	11/04/2016 06:03	WG922004
Carbon disulfide	U		0.275	1.00	1	11/04/2016 06:03	WG922004
Carbon tetrachloride	U	J4	0.379	1.00	1	11/04/2016 06:03	WG922004
Chlorobenzene	U		0.348	1.00	1	11/04/2016 06:03	WG922004
Chlorodibromomethane	U		0.327	1.00	1	11/04/2016 06:03	WG922004
Chloroethane	U		0.453	5.00	1	11/04/2016 06:03	WG922004
Chloroform	U		0.324	5.00	1	11/04/2016 06:03	WG922004
Chloromethane	U		0.276	2.50	1	11/04/2016 06:03	WG922004
2-Chlorotoluene	U		0.375	1.00	1	11/04/2016 06:03	WG922004
4-Chlorotoluene	U		0.351	1.00	1	11/04/2016 06:03	WG922004
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	11/04/2016 06:03	WG922004
1,2-Dibromoethane	U		0.381	1.00	1	11/04/2016 06:03	WG922004
Dibromomethane	U		0.346	1.00	1	11/04/2016 06:03	WG922004
1,2-Dichlorobenzene	U		0.349	1.00	1	11/04/2016 06:03	WG922004
1,3-Dichlorobenzene	U		0.220	1.00	1	11/04/2016 06:03	WG922004
1,4-Dichlorobenzene	U		0.274	1.00	1	11/04/2016 06:03	WG922004
Dichlorodifluoromethane	U		0.551	5.00	1	11/04/2016 06:03	WG922004
1,1-Dichloroethane	36.1		0.259	1.00	1	11/04/2016 06:03	WG922004
1,2-Dichloroethane	U		0.361	1.00	1	11/04/2016 06:03	WG922004
1,1-Dichloroethene	203		3.98	10.0	10	11/07/2016 19:21	WG922004
cis-1,2-Dichloroethene	U		0.260	1.00	1	11/04/2016 06:03	WG922004
trans-1,2-Dichloroethene	U		0.396	1.00	1	11/04/2016 06:03	WG922004
1,2-Dichloropropane	U		0.306	1.00	1	11/04/2016 06:03	WG922004
1,1-Dichloropropene	U		0.352	1.00	1	11/04/2016 06:03	WG922004
1,3-Dichloropropane	U	J4	0.366	1.00	1	11/04/2016 06:03	WG922004
cis-1,3-Dichloropropene	U		0.418	1.00	1	11/04/2016 06:03	WG922004
trans-1,3-Dichloropropene	U		0.419	1.00	1	11/04/2016 06:03	WG922004
2,2-Dichloropropane	U		0.321	1.00	1	11/04/2016 06:03	WG922004
Di-isopropyl ether	U		0.320	1.00	1	11/04/2016 06:03	WG922004
Ethylbenzene	U		0.384	1.00	1	11/04/2016 06:03	WG922004
Hexachloro-1,3-butadiene	U		0.256	1.00	1	11/04/2016 06:03	WG922004
Isopropylbenzene	U		0.326	1.00	1	11/04/2016 06:03	WG922004
p-Isopropyltoluene	U		0.350	1.00	1	11/04/2016 06:03	WG922004
2-Butanone (MEK)	U		3.93	10.0	1	11/04/2016 06:03	WG922004
Methylene Chloride	U		1.00	5.00	1	11/04/2016 06:03	WG922004
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	11/04/2016 06:03	WG922004
Methyl tert-butyl ether	U		0.367	1.00	1	11/04/2016 06:03	WG922004
Naphthalene	U		1.00	5.00	1	11/04/2016 06:03	WG922004
n-Propylbenzene	U		0.349	1.00	1	11/04/2016 06:03	WG922004
Styrene	U		0.307	1.00	1	11/04/2016 06:03	WG922004
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	11/04/2016 06:03	WG922004
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	11/04/2016 06:03	WG922004
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	11/04/2016 06:03	WG922004
Tetrachloroethene	U		0.372	1.00	1	11/04/2016 06:03	WG922004
Toluene	U		0.780	5.00	1	11/04/2016 06:03	WG922004
1,2,3-Trichlorobenzene	U	J4	0.230	1.00	1	11/04/2016 06:03	WG922004





Collected date/time: 10/25/16 11:10

L869118

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.355	1.00	1	11/04/2016 06:03	WG922004
1,1,1-Trichloroethane	451		3.19	10.0	10	11/07/2016 19:21	WG922004
1,1,2-Trichloroethane	U		0.383	1.00	1	11/04/2016 06:03	WG922004
Trichloroethene	U		0.398	1.00	1	11/04/2016 06:03	WG922004
Trichlorofluoromethane	U		1.20	5.00	1	11/04/2016 06:03	WG922004
1,2,3-Trichloropropane	U		0.807	2.50	1	11/04/2016 06:03	WG922004
1,2,4-Trimethylbenzene	U		0.373	1.00	1	11/04/2016 06:03	WG922004
1,2,3-Trimethylbenzene	U		0.321	1.00	1	11/04/2016 06:03	WG922004
1,3,5-Trimethylbenzene	U		0.387	1.00	1	11/04/2016 06:03	WG922004
Vinyl chloride	U		0.259	1.00	1	11/04/2016 06:03	WG922004
Xylenes, Total	U		1.06	3.00	1	11/04/2016 06:03	WG922004
(S) Toluene-d8	101			90.0-115		11/04/2016 06:03	WG922004
(S) Toluene-d8	103			90.0-115		11/07/2016 19:21	WG922004
(S) Dibromofluoromethane	95.5			79.0-121		11/07/2016 19:21	WG922004
(S) Dibromofluoromethane	88.7			79.0-121		11/04/2016 06:03	WG922004
(S) 4-Bromofluorobenzene	96.6			80.1-120		11/04/2016 06:03	WG922004
(S) 4-Bromofluorobenzene	99.6			80.1-120		11/07/2016 19:21	WG922004

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 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	44.5		0.597	3.00	1	11/01/2016 20:50	WG922320
(S) Toluene-d8	101			70.0-130		11/01/2016 20:50	WG922320



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	11/04/2016 06:24	WG922004
Acrolein	U	J4	8.87	50.0	1	11/04/2016 06:24	WG922004
Acrylonitrile	U		1.87	10.0	1	11/04/2016 06:24	WG922004
Benzene	U		0.331	1.00	1	11/04/2016 06:24	WG922004
Bromobenzene	U		0.352	1.00	1	11/04/2016 06:24	WG922004
Bromodichloromethane	U		0.380	1.00	1	11/04/2016 06:24	WG922004
Bromoform	U		0.469	1.00	1	11/04/2016 06:24	WG922004
Bromomethane	U		0.866	5.00	1	11/04/2016 06:24	WG922004
n-Butylbenzene	U		0.361	1.00	1	11/04/2016 06:24	WG922004
sec-Butylbenzene	U		0.365	1.00	1	11/04/2016 06:24	WG922004
tert-Butylbenzene	U		0.399	1.00	1	11/04/2016 06:24	WG922004
Carbon disulfide	U		0.275	1.00	1	11/04/2016 06:24	WG922004
Carbon tetrachloride	U	J4	0.379	1.00	1	11/04/2016 06:24	WG922004
Chlorobenzene	U		0.348	1.00	1	11/04/2016 06:24	WG922004
Chlorodibromomethane	U		0.327	1.00	1	11/04/2016 06:24	WG922004
Chloroethane	U		0.453	5.00	1	11/04/2016 06:24	WG922004
Chloroform	U		0.324	5.00	1	11/04/2016 06:24	WG922004
Chloromethane	U		0.276	2.50	1	11/04/2016 06:24	WG922004
2-Chlorotoluene	U		0.375	1.00	1	11/04/2016 06:24	WG922004
4-Chlorotoluene	U		0.351	1.00	1	11/04/2016 06:24	WG922004
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	11/04/2016 06:24	WG922004
1,2-Dibromoethane	U		0.381	1.00	1	11/04/2016 06:24	WG922004
Dibromomethane	U		0.346	1.00	1	11/04/2016 06:24	WG922004
1,2-Dichlorobenzene	U		0.349	1.00	1	11/04/2016 06:24	WG922004
1,3-Dichlorobenzene	U		0.220	1.00	1	11/04/2016 06:24	WG922004
1,4-Dichlorobenzene	U		0.274	1.00	1	11/04/2016 06:24	WG922004
Dichlorodifluoromethane	U		0.551	5.00	1	11/04/2016 06:24	WG922004
1,1-Dichloroethane	1.20		0.259	1.00	1	11/04/2016 06:24	WG922004
1,2-Dichloroethane	U		0.361	1.00	1	11/04/2016 06:24	WG922004
1,1-Dichloroethene	7.04		0.398	1.00	1	11/04/2016 06:24	WG922004
cis-1,2-Dichloroethene	U		0.260	1.00	1	11/04/2016 06:24	WG922004
trans-1,2-Dichloroethene	U		0.396	1.00	1	11/04/2016 06:24	WG922004
1,2-Dichloropropane	U		0.306	1.00	1	11/04/2016 06:24	WG922004
1,1-Dichloropropene	U		0.352	1.00	1	11/04/2016 06:24	WG922004
1,3-Dichloropropane	U	J4	0.366	1.00	1	11/04/2016 06:24	WG922004
cis-1,3-Dichloropropene	U		0.418	1.00	1	11/04/2016 06:24	WG922004
trans-1,3-Dichloropropene	U		0.419	1.00	1	11/04/2016 06:24	WG922004
2,2-Dichloropropane	U		0.321	1.00	1	11/04/2016 06:24	WG922004
Di-isopropyl ether	U		0.320	1.00	1	11/04/2016 06:24	WG922004
Ethylbenzene	U		0.384	1.00	1	11/04/2016 06:24	WG922004
Hexachloro-1,3-butadiene	U		0.256	1.00	1	11/04/2016 06:24	WG922004
Isopropylbenzene	U		0.326	1.00	1	11/04/2016 06:24	WG922004
p-Isopropyltoluene	U		0.350	1.00	1	11/04/2016 06:24	WG922004
2-Butanone (MEK)	U		3.93	10.0	1	11/04/2016 06:24	WG922004
Methylene Chloride	U		1.00	5.00	1	11/04/2016 06:24	WG922004
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	11/04/2016 06:24	WG922004
Methyl tert-butyl ether	U		0.367	1.00	1	11/04/2016 06:24	WG922004
Naphthalene	U		1.00	5.00	1	11/04/2016 06:24	WG922004
n-Propylbenzene	U		0.349	1.00	1	11/04/2016 06:24	WG922004
Styrene	U		0.307	1.00	1	11/04/2016 06:24	WG922004
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	11/04/2016 06:24	WG922004
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	11/04/2016 06:24	WG922004
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	11/04/2016 06:24	WG922004
Tetrachloroethene	U		0.372	1.00	1	11/04/2016 06:24	WG922004
Toluene	U		0.780	5.00	1	11/04/2016 06:24	WG922004
1,2,3-Trichlorobenzene	U	J4	0.230	1.00	1	11/04/2016 06:24	WG922004

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/25/16 12:45

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.355	1.00	1	11/04/2016 06:24	WG922004
1,1,1-Trichloroethane	9.88		0.319	1.00	1	11/04/2016 06:24	WG922004
1,1,2-Trichloroethane	U		0.383	1.00	1	11/04/2016 06:24	WG922004
Trichloroethene	U		0.398	1.00	1	11/04/2016 06:24	WG922004
Trichlorofluoromethane	U		1.20	5.00	1	11/04/2016 06:24	WG922004
1,2,3-Trichloropropane	U		0.807	2.50	1	11/04/2016 06:24	WG922004
1,2,4-Trimethylbenzene	U		0.373	1.00	1	11/04/2016 06:24	WG922004
1,2,3-Trimethylbenzene	U		0.321	1.00	1	11/04/2016 06:24	WG922004
1,3,5-Trimethylbenzene	U		0.387	1.00	1	11/04/2016 06:24	WG922004
Vinyl chloride	U		0.259	1.00	1	11/04/2016 06:24	WG922004
Xylenes, Total	U		1.06	3.00	1	11/04/2016 06:24	WG922004
(S) Toluene-d8	101			90.0-115		11/04/2016 06:24	WG922004
(S) Dibromofluoromethane	86.6			79.0-121		11/04/2016 06:24	WG922004
(S) 4-Bromofluorobenzene	94.7			80.1-120		11/04/2016 06:24	WG922004

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	3.16		0.597	3.00	1	11/01/2016 21:09	WG922320
(S) Toluene-d8	95.2			70.0-130		11/01/2016 21:09	WG922320

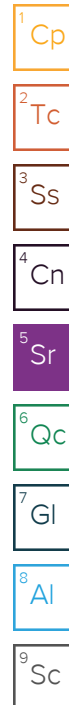


Collected date/time: 10/25/16 14:00

L869118

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	11/04/2016 06:45	WG922004
Acrolein	U	J4	8.87	50.0	1	11/04/2016 06:45	WG922004
Acrylonitrile	U		1.87	10.0	1	11/04/2016 06:45	WG922004
Benzene	U		0.331	1.00	1	11/04/2016 06:45	WG922004
Bromobenzene	U		0.352	1.00	1	11/04/2016 06:45	WG922004
Bromodichloromethane	U		0.380	1.00	1	11/04/2016 06:45	WG922004
Bromoform	U		0.469	1.00	1	11/04/2016 06:45	WG922004
Bromomethane	U		0.866	5.00	1	11/04/2016 06:45	WG922004
n-Butylbenzene	U		0.361	1.00	1	11/04/2016 06:45	WG922004
sec-Butylbenzene	U		0.365	1.00	1	11/04/2016 06:45	WG922004
tert-Butylbenzene	U		0.399	1.00	1	11/04/2016 06:45	WG922004
Carbon disulfide	U		0.275	1.00	1	11/04/2016 06:45	WG922004
Carbon tetrachloride	U	J4	0.379	1.00	1	11/04/2016 06:45	WG922004
Chlorobenzene	U		0.348	1.00	1	11/04/2016 06:45	WG922004
Chlorodibromomethane	U		0.327	1.00	1	11/04/2016 06:45	WG922004
Chloroethane	U		0.453	5.00	1	11/04/2016 06:45	WG922004
Chloroform	U		0.324	5.00	1	11/04/2016 06:45	WG922004
Chloromethane	U		0.276	2.50	1	11/04/2016 06:45	WG922004
2-Chlorotoluene	U		0.375	1.00	1	11/04/2016 06:45	WG922004
4-Chlorotoluene	U		0.351	1.00	1	11/04/2016 06:45	WG922004
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	11/04/2016 06:45	WG922004
1,2-Dibromoethane	U		0.381	1.00	1	11/04/2016 06:45	WG922004
Dibromomethane	U		0.346	1.00	1	11/04/2016 06:45	WG922004
1,2-Dichlorobenzene	U		0.349	1.00	1	11/04/2016 06:45	WG922004
1,3-Dichlorobenzene	U		0.220	1.00	1	11/04/2016 06:45	WG922004
1,4-Dichlorobenzene	U		0.274	1.00	1	11/04/2016 06:45	WG922004
Dichlorodifluoromethane	U		0.551	5.00	1	11/04/2016 06:45	WG922004
1,1-Dichloroethane	0.630	J	0.259	1.00	1	11/04/2016 06:45	WG922004
1,2-Dichloroethane	U		0.361	1.00	1	11/04/2016 06:45	WG922004
1,1-Dichloroethene	6.11		0.398	1.00	1	11/04/2016 06:45	WG922004
cis-1,2-Dichloroethene	U		0.260	1.00	1	11/04/2016 06:45	WG922004
trans-1,2-Dichloroethene	U		0.396	1.00	1	11/04/2016 06:45	WG922004
1,2-Dichloropropane	U		0.306	1.00	1	11/04/2016 06:45	WG922004
1,1-Dichloropropene	U		0.352	1.00	1	11/04/2016 06:45	WG922004
1,3-Dichloropropane	U	J4	0.366	1.00	1	11/04/2016 06:45	WG922004
cis-1,3-Dichloropropene	U		0.418	1.00	1	11/04/2016 06:45	WG922004
trans-1,3-Dichloropropene	U		0.419	1.00	1	11/04/2016 06:45	WG922004
2,2-Dichloropropane	U		0.321	1.00	1	11/04/2016 06:45	WG922004
Di-isopropyl ether	U		0.320	1.00	1	11/04/2016 06:45	WG922004
Ethylbenzene	U		0.384	1.00	1	11/04/2016 06:45	WG922004
Hexachloro-1,3-butadiene	U		0.256	1.00	1	11/04/2016 06:45	WG922004
Isopropylbenzene	U		0.326	1.00	1	11/04/2016 06:45	WG922004
p-Isopropyltoluene	U		0.350	1.00	1	11/04/2016 06:45	WG922004
2-Butanone (MEK)	U		3.93	10.0	1	11/04/2016 06:45	WG922004
Methylene Chloride	U		1.00	5.00	1	11/04/2016 06:45	WG922004
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	11/04/2016 06:45	WG922004
Methyl tert-butyl ether	U		0.367	1.00	1	11/04/2016 06:45	WG922004
Naphthalene	U		1.00	5.00	1	11/04/2016 06:45	WG922004
n-Propylbenzene	U		0.349	1.00	1	11/04/2016 06:45	WG922004
Styrene	U		0.307	1.00	1	11/04/2016 06:45	WG922004
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	11/04/2016 06:45	WG922004
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	11/04/2016 06:45	WG922004
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	11/04/2016 06:45	WG922004
Tetrachloroethene	U		0.372	1.00	1	11/04/2016 06:45	WG922004
Toluene	U		0.780	5.00	1	11/04/2016 06:45	WG922004
1,2,3-Trichlorobenzene	U	J4	0.230	1.00	1	11/04/2016 06:45	WG922004





Collected date/time: 10/25/16 14:00

L869118

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.355	1.00	1	11/04/2016 06:45	WG922004
1,1,1-Trichloroethane	5.67		0.319	1.00	1	11/04/2016 06:45	WG922004
1,1,2-Trichloroethane	U		0.383	1.00	1	11/04/2016 06:45	WG922004
Trichloroethene	U		0.398	1.00	1	11/04/2016 06:45	WG922004
Trichlorofluoromethane	U		1.20	5.00	1	11/04/2016 06:45	WG922004
1,2,3-Trichloropropane	U		0.807	2.50	1	11/04/2016 06:45	WG922004
1,2,4-Trimethylbenzene	U		0.373	1.00	1	11/04/2016 06:45	WG922004
1,2,3-Trimethylbenzene	U		0.321	1.00	1	11/04/2016 06:45	WG922004
1,3,5-Trimethylbenzene	U		0.387	1.00	1	11/04/2016 06:45	WG922004
Vinyl chloride	U		0.259	1.00	1	11/04/2016 06:45	WG922004
Xylenes, Total	U		1.06	3.00	1	11/04/2016 06:45	WG922004
(S) Toluene-d8	101			90.0-115		11/04/2016 06:45	WG922004
(S) Dibromofluoromethane	88.1			79.0-121		11/04/2016 06:45	WG922004
(S) 4-Bromofluorobenzene	93.7			80.1-120		11/04/2016 06:45	WG922004

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 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	4.02		0.597	3.00	1	11/01/2016 21:29	WG922320
(S) Toluene-d8	102			70.0-130		11/01/2016 21:29	WG922320



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	11/04/2016 07:06	WG922004
Acrolein	U	J4	8.87	50.0	1	11/04/2016 07:06	WG922004
Acrylonitrile	U		1.87	10.0	1	11/04/2016 07:06	WG922004
Benzene	U		0.331	1.00	1	11/04/2016 07:06	WG922004
Bromobenzene	U		0.352	1.00	1	11/04/2016 07:06	WG922004
Bromodichloromethane	U		0.380	1.00	1	11/04/2016 07:06	WG922004
Bromoform	U		0.469	1.00	1	11/04/2016 07:06	WG922004
Bromomethane	U		0.866	5.00	1	11/04/2016 07:06	WG922004
n-Butylbenzene	U		0.361	1.00	1	11/04/2016 07:06	WG922004
sec-Butylbenzene	U		0.365	1.00	1	11/04/2016 07:06	WG922004
tert-Butylbenzene	U		0.399	1.00	1	11/04/2016 07:06	WG922004
Carbon disulfide	U		0.275	1.00	1	11/04/2016 07:06	WG922004
Carbon tetrachloride	U	J4	0.379	1.00	1	11/04/2016 07:06	WG922004
Chlorobenzene	U		0.348	1.00	1	11/04/2016 07:06	WG922004
Chlorodibromomethane	U		0.327	1.00	1	11/04/2016 07:06	WG922004
Chloroethane	U		0.453	5.00	1	11/04/2016 07:06	WG922004
Chloroform	U		0.324	5.00	1	11/04/2016 07:06	WG922004
Chloromethane	U		0.276	2.50	1	11/04/2016 07:06	WG922004
2-Chlorotoluene	U		0.375	1.00	1	11/04/2016 07:06	WG922004
4-Chlorotoluene	U		0.351	1.00	1	11/04/2016 07:06	WG922004
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	11/04/2016 07:06	WG922004
1,2-Dibromoethane	U		0.381	1.00	1	11/04/2016 07:06	WG922004
Dibromomethane	U		0.346	1.00	1	11/04/2016 07:06	WG922004
1,2-Dichlorobenzene	U		0.349	1.00	1	11/04/2016 07:06	WG922004
1,3-Dichlorobenzene	U		0.220	1.00	1	11/04/2016 07:06	WG922004
1,4-Dichlorobenzene	U		0.274	1.00	1	11/04/2016 07:06	WG922004
Dichlorodifluoromethane	U		0.551	5.00	1	11/04/2016 07:06	WG922004
1,1-Dichloroethane	0.699	J	0.259	1.00	1	11/04/2016 07:06	WG922004
1,2-Dichloroethane	U		0.361	1.00	1	11/04/2016 07:06	WG922004
1,1-Dichloroethene	1.84		0.398	1.00	1	11/04/2016 07:06	WG922004
cis-1,2-Dichloroethene	U		0.260	1.00	1	11/04/2016 07:06	WG922004
trans-1,2-Dichloroethene	U		0.396	1.00	1	11/04/2016 07:06	WG922004
1,2-Dichloropropane	U		0.306	1.00	1	11/04/2016 07:06	WG922004
1,1-Dichloropropene	U		0.352	1.00	1	11/04/2016 07:06	WG922004
1,3-Dichloropropane	U	J4	0.366	1.00	1	11/04/2016 07:06	WG922004
cis-1,3-Dichloropropene	U		0.418	1.00	1	11/04/2016 07:06	WG922004
trans-1,3-Dichloropropene	U		0.419	1.00	1	11/04/2016 07:06	WG922004
2,2-Dichloropropane	U		0.321	1.00	1	11/04/2016 07:06	WG922004
Di-isopropyl ether	U		0.320	1.00	1	11/04/2016 07:06	WG922004
Ethylbenzene	U		0.384	1.00	1	11/04/2016 07:06	WG922004
Hexachloro-1,3-butadiene	U		0.256	1.00	1	11/04/2016 07:06	WG922004
Isopropylbenzene	U		0.326	1.00	1	11/04/2016 07:06	WG922004
p-Isopropyltoluene	U		0.350	1.00	1	11/04/2016 07:06	WG922004
2-Butanone (MEK)	U		3.93	10.0	1	11/04/2016 07:06	WG922004
Methylene Chloride	U		1.00	5.00	1	11/04/2016 07:06	WG922004
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	11/04/2016 07:06	WG922004
Methyl tert-butyl ether	U		0.367	1.00	1	11/04/2016 07:06	WG922004
Naphthalene	U		1.00	5.00	1	11/04/2016 07:06	WG922004
n-Propylbenzene	U		0.349	1.00	1	11/04/2016 07:06	WG922004
Styrene	U		0.307	1.00	1	11/04/2016 07:06	WG922004
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	11/04/2016 07:06	WG922004
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	11/04/2016 07:06	WG922004
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	11/04/2016 07:06	WG922004
Tetrachloroethene	U		0.372	1.00	1	11/04/2016 07:06	WG922004
Toluene	U		0.780	5.00	1	11/04/2016 07:06	WG922004
1,2,3-Trichlorobenzene	U	J4	0.230	1.00	1	11/04/2016 07:06	WG922004

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/25/16 14:45

L869118

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.355	1.00	1	11/04/2016 07:06	WG922004
1,1,1-Trichloroethane	1.30		0.319	1.00	1	11/04/2016 07:06	WG922004
1,1,2-Trichloroethane	U		0.383	1.00	1	11/04/2016 07:06	WG922004
Trichloroethene	U		0.398	1.00	1	11/04/2016 07:06	WG922004
Trichlorofluoromethane	U		1.20	5.00	1	11/04/2016 07:06	WG922004
1,2,3-Trichloropropane	U		0.807	2.50	1	11/04/2016 07:06	WG922004
1,2,4-Trimethylbenzene	U		0.373	1.00	1	11/04/2016 07:06	WG922004
1,2,3-Trimethylbenzene	U		0.321	1.00	1	11/04/2016 07:06	WG922004
1,3,5-Trimethylbenzene	U		0.387	1.00	1	11/04/2016 07:06	WG922004
Vinyl chloride	U		0.259	1.00	1	11/04/2016 07:06	WG922004
Xylenes, Total	U		1.06	3.00	1	11/04/2016 07:06	WG922004
(S) Toluene-d8	100			90.0-115		11/04/2016 07:06	WG922004
(S) Dibromofluoromethane	88.5			79.0-121		11/04/2016 07:06	WG922004
(S) 4-Bromofluorobenzene	92.6			80.1-120		11/04/2016 07:06	WG922004

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 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	4.76		0.597	3.00	1	11/01/2016 21:48	WG922320
(S) Toluene-d8	95.1			70.0-130		11/01/2016 21:48	WG922320



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	11/04/2016 07:27	WG922004
Acrolein	U	J4	8.87	50.0	1	11/04/2016 07:27	WG922004
Acrylonitrile	U		1.87	10.0	1	11/04/2016 07:27	WG922004
Benzene	U		0.331	1.00	1	11/04/2016 07:27	WG922004
Bromobenzene	U		0.352	1.00	1	11/04/2016 07:27	WG922004
Bromodichloromethane	U		0.380	1.00	1	11/04/2016 07:27	WG922004
Bromoform	U		0.469	1.00	1	11/04/2016 07:27	WG922004
Bromomethane	U		0.866	5.00	1	11/04/2016 07:27	WG922004
n-Butylbenzene	U		0.361	1.00	1	11/04/2016 07:27	WG922004
sec-Butylbenzene	U		0.365	1.00	1	11/04/2016 07:27	WG922004
tert-Butylbenzene	U		0.399	1.00	1	11/04/2016 07:27	WG922004
Carbon disulfide	U		0.275	1.00	1	11/04/2016 07:27	WG922004
Carbon tetrachloride	U	J4	0.379	1.00	1	11/04/2016 07:27	WG922004
Chlorobenzene	U		0.348	1.00	1	11/04/2016 07:27	WG922004
Chlorodibromomethane	U		0.327	1.00	1	11/04/2016 07:27	WG922004
Chloroethane	U		0.453	5.00	1	11/04/2016 07:27	WG922004
Chloroform	U		0.324	5.00	1	11/04/2016 07:27	WG922004
Chloromethane	U		0.276	2.50	1	11/04/2016 07:27	WG922004
2-Chlorotoluene	U		0.375	1.00	1	11/04/2016 07:27	WG922004
4-Chlorotoluene	U		0.351	1.00	1	11/04/2016 07:27	WG922004
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	11/04/2016 07:27	WG922004
1,2-Dibromoethane	U		0.381	1.00	1	11/04/2016 07:27	WG922004
Dibromomethane	U		0.346	1.00	1	11/04/2016 07:27	WG922004
1,2-Dichlorobenzene	U		0.349	1.00	1	11/04/2016 07:27	WG922004
1,3-Dichlorobenzene	U		0.220	1.00	1	11/04/2016 07:27	WG922004
1,4-Dichlorobenzene	U		0.274	1.00	1	11/04/2016 07:27	WG922004
Dichlorodifluoromethane	U		0.551	5.00	1	11/04/2016 07:27	WG922004
1,1-Dichloroethane	0.685	J	0.259	1.00	1	11/04/2016 07:27	WG922004
1,2-Dichloroethane	U		0.361	1.00	1	11/04/2016 07:27	WG922004
1,1-Dichloroethene	1.89		0.398	1.00	1	11/04/2016 07:27	WG922004
cis-1,2-Dichloroethene	U		0.260	1.00	1	11/04/2016 07:27	WG922004
trans-1,2-Dichloroethene	U		0.396	1.00	1	11/04/2016 07:27	WG922004
1,2-Dichloropropane	U		0.306	1.00	1	11/04/2016 07:27	WG922004
1,1-Dichloropropene	U		0.352	1.00	1	11/04/2016 07:27	WG922004
1,3-Dichloropropane	U	J4	0.366	1.00	1	11/04/2016 07:27	WG922004
cis-1,3-Dichloropropene	U		0.418	1.00	1	11/04/2016 07:27	WG922004
trans-1,3-Dichloropropene	U		0.419	1.00	1	11/04/2016 07:27	WG922004
2,2-Dichloropropane	U		0.321	1.00	1	11/04/2016 07:27	WG922004
Di-isopropyl ether	U		0.320	1.00	1	11/04/2016 07:27	WG922004
Ethylbenzene	U		0.384	1.00	1	11/04/2016 07:27	WG922004
Hexachloro-1,3-butadiene	U		0.256	1.00	1	11/04/2016 07:27	WG922004
Isopropylbenzene	U		0.326	1.00	1	11/04/2016 07:27	WG922004
p-Isopropyltoluene	U		0.350	1.00	1	11/04/2016 07:27	WG922004
2-Butanone (MEK)	U		3.93	10.0	1	11/04/2016 07:27	WG922004
Methylene Chloride	U		1.00	5.00	1	11/04/2016 07:27	WG922004
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	11/04/2016 07:27	WG922004
Methyl tert-butyl ether	U		0.367	1.00	1	11/04/2016 07:27	WG922004
Naphthalene	U		1.00	5.00	1	11/04/2016 07:27	WG922004
n-Propylbenzene	U		0.349	1.00	1	11/04/2016 07:27	WG922004
Styrene	U		0.307	1.00	1	11/04/2016 07:27	WG922004
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	11/04/2016 07:27	WG922004
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	11/04/2016 07:27	WG922004
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	11/04/2016 07:27	WG922004
Tetrachloroethene	U		0.372	1.00	1	11/04/2016 07:27	WG922004
Toluene	U		0.780	5.00	1	11/04/2016 07:27	WG922004
1,2,3-Trichlorobenzene	U	J4	0.230	1.00	1	11/04/2016 07:27	WG922004

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/25/16 14:30

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.355	1.00	1	11/04/2016 07:27	WG922004
1,1,1-Trichloroethane	1.37		0.319	1.00	1	11/04/2016 07:27	WG922004
1,1,2-Trichloroethane	U		0.383	1.00	1	11/04/2016 07:27	WG922004
Trichloroethene	U		0.398	1.00	1	11/04/2016 07:27	WG922004
Trichlorofluoromethane	U		1.20	5.00	1	11/04/2016 07:27	WG922004
1,2,3-Trichloropropane	U		0.807	2.50	1	11/04/2016 07:27	WG922004
1,2,4-Trimethylbenzene	U		0.373	1.00	1	11/04/2016 07:27	WG922004
1,2,3-Trimethylbenzene	U		0.321	1.00	1	11/04/2016 07:27	WG922004
1,3,5-Trimethylbenzene	U		0.387	1.00	1	11/04/2016 07:27	WG922004
Vinyl chloride	U		0.259	1.00	1	11/04/2016 07:27	WG922004
Xylenes, Total	U		1.06	3.00	1	11/04/2016 07:27	WG922004
(S) Toluene-d8	102			90.0-115		11/04/2016 07:27	WG922004
(S) Dibromofluoromethane	88.3			79.0-121		11/04/2016 07:27	WG922004
(S) 4-Bromofluorobenzene	95.4			80.1-120		11/04/2016 07:27	WG922004

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 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	5.32		0.597	3.00	1	11/01/2016 22:08	WG922320
(S) Toluene-d8	102			70.0-130		11/01/2016 22:08	WG922320



Collected date/time: 10/26/16 08:45

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	11/04/2016 07:48	WG922004
Acrolein	U	J4	8.87	50.0	1	11/04/2016 07:48	WG922004
Acrylonitrile	U		1.87	10.0	1	11/04/2016 07:48	WG922004
Benzene	U		0.331	1.00	1	11/04/2016 07:48	WG922004
Bromobenzene	U		0.352	1.00	1	11/04/2016 07:48	WG922004
Bromodichloromethane	U		0.380	1.00	1	11/04/2016 07:48	WG922004
Bromoform	U		0.469	1.00	1	11/04/2016 07:48	WG922004
Bromomethane	U		0.866	5.00	1	11/04/2016 07:48	WG922004
n-Butylbenzene	U		0.361	1.00	1	11/04/2016 07:48	WG922004
sec-Butylbenzene	U		0.365	1.00	1	11/04/2016 07:48	WG922004
tert-Butylbenzene	U		0.399	1.00	1	11/04/2016 07:48	WG922004
Carbon disulfide	U		0.275	1.00	1	11/04/2016 07:48	WG922004
Carbon tetrachloride	U	J4	0.379	1.00	1	11/04/2016 07:48	WG922004
Chlorobenzene	U		0.348	1.00	1	11/04/2016 07:48	WG922004
Chlorodibromomethane	U		0.327	1.00	1	11/04/2016 07:48	WG922004
Chloroethane	U		0.453	5.00	1	11/04/2016 07:48	WG922004
Chloroform	U		0.324	5.00	1	11/04/2016 07:48	WG922004
Chloromethane	U		0.276	2.50	1	11/04/2016 07:48	WG922004
2-Chlorotoluene	U		0.375	1.00	1	11/04/2016 07:48	WG922004
4-Chlorotoluene	U		0.351	1.00	1	11/04/2016 07:48	WG922004
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	11/04/2016 07:48	WG922004
1,2-Dibromoethane	U		0.381	1.00	1	11/04/2016 07:48	WG922004
Dibromomethane	U		0.346	1.00	1	11/04/2016 07:48	WG922004
1,2-Dichlorobenzene	U		0.349	1.00	1	11/04/2016 07:48	WG922004
1,3-Dichlorobenzene	U		0.220	1.00	1	11/04/2016 07:48	WG922004
1,4-Dichlorobenzene	U		0.274	1.00	1	11/04/2016 07:48	WG922004
Dichlorodifluoromethane	U		0.551	5.00	1	11/04/2016 07:48	WG922004
1,1-Dichloroethane	1.16		0.259	1.00	1	11/04/2016 07:48	WG922004
1,2-Dichloroethane	U		0.361	1.00	1	11/04/2016 07:48	WG922004
1,1-Dichloroethene	3.70		0.398	1.00	1	11/04/2016 07:48	WG922004
cis-1,2-Dichloroethene	U		0.260	1.00	1	11/04/2016 07:48	WG922004
trans-1,2-Dichloroethene	U		0.396	1.00	1	11/04/2016 07:48	WG922004
1,2-Dichloropropane	U		0.306	1.00	1	11/04/2016 07:48	WG922004
1,1-Dichloropropene	U		0.352	1.00	1	11/04/2016 07:48	WG922004
1,3-Dichloropropane	U	J4	0.366	1.00	1	11/04/2016 07:48	WG922004
cis-1,3-Dichloropropene	U		0.418	1.00	1	11/04/2016 07:48	WG922004
trans-1,3-Dichloropropene	U		0.419	1.00	1	11/04/2016 07:48	WG922004
2,2-Dichloropropane	U		0.321	1.00	1	11/04/2016 07:48	WG922004
Di-isopropyl ether	U		0.320	1.00	1	11/04/2016 07:48	WG922004
Ethylbenzene	U		0.384	1.00	1	11/04/2016 07:48	WG922004
Hexachloro-1,3-butadiene	U		0.256	1.00	1	11/04/2016 07:48	WG922004
Isopropylbenzene	U		0.326	1.00	1	11/04/2016 07:48	WG922004
p-Isopropyltoluene	U		0.350	1.00	1	11/04/2016 07:48	WG922004
2-Butanone (MEK)	U		3.93	10.0	1	11/04/2016 07:48	WG922004
Methylene Chloride	U		1.00	5.00	1	11/04/2016 07:48	WG922004
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	11/04/2016 07:48	WG922004
Methyl tert-butyl ether	U		0.367	1.00	1	11/04/2016 07:48	WG922004
Naphthalene	U		1.00	5.00	1	11/04/2016 07:48	WG922004
n-Propylbenzene	U		0.349	1.00	1	11/04/2016 07:48	WG922004
Styrene	U		0.307	1.00	1	11/04/2016 07:48	WG922004
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	11/04/2016 07:48	WG922004
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	11/04/2016 07:48	WG922004
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	11/04/2016 07:48	WG922004
Tetrachloroethene	0.417	J	0.372	1.00	1	11/04/2016 07:48	WG922004
Toluene	U		0.780	5.00	1	11/04/2016 07:48	WG922004
1,2,3-Trichlorobenzene	U	J4	0.230	1.00	1	11/04/2016 07:48	WG922004

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/26/16 08:45

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.355	1.00	1	11/04/2016 07:48	WG922004
1,1,1-Trichloroethane	0.815	J	0.319	1.00	1	11/04/2016 07:48	WG922004
1,1,2-Trichloroethane	U		0.383	1.00	1	11/04/2016 07:48	WG922004
Trichloroethene	U		0.398	1.00	1	11/04/2016 07:48	WG922004
Trichlorofluoromethane	U		1.20	5.00	1	11/04/2016 07:48	WG922004
1,2,3-Trichloropropane	U		0.807	2.50	1	11/04/2016 07:48	WG922004
1,2,4-Trimethylbenzene	U		0.373	1.00	1	11/04/2016 07:48	WG922004
1,2,3-Trimethylbenzene	U		0.321	1.00	1	11/04/2016 07:48	WG922004
1,3,5-Trimethylbenzene	U		0.387	1.00	1	11/04/2016 07:48	WG922004
Vinyl chloride	U		0.259	1.00	1	11/04/2016 07:48	WG922004
Xylenes, Total	U		1.06	3.00	1	11/04/2016 07:48	WG922004
(S) Toluene-d8	101			90.0-115		11/04/2016 07:48	WG922004
(S) Dibromofluoromethane	86.2			79.0-121		11/04/2016 07:48	WG922004
(S) 4-Bromofluorobenzene	96.5			80.1-120		11/04/2016 07:48	WG922004

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 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	6.86		0.597	3.00	1	11/01/2016 22:27	WG922320
(S) Toluene-d8	94.7			70.0-130		11/01/2016 22:27	WG922320



Collected date/time: 10/26/16 09:00

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	11/04/2016 08:10	WG922004
Acrolein	U	J4	8.87	50.0	1	11/04/2016 08:10	WG922004
Acrylonitrile	U		1.87	10.0	1	11/04/2016 08:10	WG922004
Benzene	U		0.331	1.00	1	11/04/2016 08:10	WG922004
Bromobenzene	U		0.352	1.00	1	11/04/2016 08:10	WG922004
Bromodichloromethane	U		0.380	1.00	1	11/04/2016 08:10	WG922004
Bromoform	U		0.469	1.00	1	11/04/2016 08:10	WG922004
Bromomethane	U		0.866	5.00	1	11/04/2016 08:10	WG922004
n-Butylbenzene	U		0.361	1.00	1	11/04/2016 08:10	WG922004
sec-Butylbenzene	U		0.365	1.00	1	11/04/2016 08:10	WG922004
tert-Butylbenzene	U		0.399	1.00	1	11/04/2016 08:10	WG922004
Carbon disulfide	U		0.275	1.00	1	11/04/2016 08:10	WG922004
Carbon tetrachloride	U	J4	0.379	1.00	1	11/04/2016 08:10	WG922004
Chlorobenzene	U		0.348	1.00	1	11/04/2016 08:10	WG922004
Chlorodibromomethane	U		0.327	1.00	1	11/04/2016 08:10	WG922004
Chloroethane	U		0.453	5.00	1	11/04/2016 08:10	WG922004
Chloroform	U		0.324	5.00	1	11/04/2016 08:10	WG922004
Chloromethane	U		0.276	2.50	1	11/04/2016 08:10	WG922004
2-Chlorotoluene	U		0.375	1.00	1	11/04/2016 08:10	WG922004
4-Chlorotoluene	U		0.351	1.00	1	11/04/2016 08:10	WG922004
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	11/04/2016 08:10	WG922004
1,2-Dibromoethane	U		0.381	1.00	1	11/04/2016 08:10	WG922004
Dibromomethane	U		0.346	1.00	1	11/04/2016 08:10	WG922004
1,2-Dichlorobenzene	U		0.349	1.00	1	11/04/2016 08:10	WG922004
1,3-Dichlorobenzene	U		0.220	1.00	1	11/04/2016 08:10	WG922004
1,4-Dichlorobenzene	U		0.274	1.00	1	11/04/2016 08:10	WG922004
Dichlorodifluoromethane	U		0.551	5.00	1	11/04/2016 08:10	WG922004
1,1-Dichloroethane	1.44		0.259	1.00	1	11/04/2016 08:10	WG922004
1,2-Dichloroethane	U		0.361	1.00	1	11/04/2016 08:10	WG922004
1,1-Dichloroethene	4.73		0.398	1.00	1	11/04/2016 08:10	WG922004
cis-1,2-Dichloroethene	U		0.260	1.00	1	11/04/2016 08:10	WG922004
trans-1,2-Dichloroethene	U		0.396	1.00	1	11/04/2016 08:10	WG922004
1,2-Dichloropropane	U		0.306	1.00	1	11/04/2016 08:10	WG922004
1,1-Dichloropropene	U		0.352	1.00	1	11/04/2016 08:10	WG922004
1,3-Dichloropropane	U	J4	0.366	1.00	1	11/04/2016 08:10	WG922004
cis-1,3-Dichloropropene	U		0.418	1.00	1	11/04/2016 08:10	WG922004
trans-1,3-Dichloropropene	U		0.419	1.00	1	11/04/2016 08:10	WG922004
2,2-Dichloropropane	U		0.321	1.00	1	11/04/2016 08:10	WG922004
Di-isopropyl ether	U		0.320	1.00	1	11/04/2016 08:10	WG922004
Ethylbenzene	U		0.384	1.00	1	11/04/2016 08:10	WG922004
Hexachloro-1,3-butadiene	U		0.256	1.00	1	11/04/2016 08:10	WG922004
Isopropylbenzene	U		0.326	1.00	1	11/04/2016 08:10	WG922004
p-Isopropyltoluene	U		0.350	1.00	1	11/04/2016 08:10	WG922004
2-Butanone (MEK)	U		3.93	10.0	1	11/04/2016 08:10	WG922004
Methylene Chloride	U		1.00	5.00	1	11/04/2016 08:10	WG922004
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	11/04/2016 08:10	WG922004
Methyl tert-butyl ether	U		0.367	1.00	1	11/04/2016 08:10	WG922004
Naphthalene	U		1.00	5.00	1	11/04/2016 08:10	WG922004
n-Propylbenzene	U		0.349	1.00	1	11/04/2016 08:10	WG922004
Styrene	U		0.307	1.00	1	11/04/2016 08:10	WG922004
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	11/04/2016 08:10	WG922004
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	11/04/2016 08:10	WG922004
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	11/04/2016 08:10	WG922004
Tetrachloroethene	0.396	J	0.372	1.00	1	11/04/2016 08:10	WG922004
Toluene	U		0.780	5.00	1	11/04/2016 08:10	WG922004
1,2,3-Trichlorobenzene	U	J4	0.230	1.00	1	11/04/2016 08:10	WG922004

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/26/16 09:00

L869118

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.355	1.00	1	11/04/2016 08:10	WG922004
1,1,1-Trichloroethane	0.988	J	0.319	1.00	1	11/04/2016 08:10	WG922004
1,1,2-Trichloroethane	U		0.383	1.00	1	11/04/2016 08:10	WG922004
Trichloroethene	U		0.398	1.00	1	11/04/2016 08:10	WG922004
Trichlorofluoromethane	U		1.20	5.00	1	11/04/2016 08:10	WG922004
1,2,3-Trichloropropane	U		0.807	2.50	1	11/04/2016 08:10	WG922004
1,2,4-Trimethylbenzene	U		0.373	1.00	1	11/04/2016 08:10	WG922004
1,2,3-Trimethylbenzene	U		0.321	1.00	1	11/04/2016 08:10	WG922004
1,3,5-Trimethylbenzene	U		0.387	1.00	1	11/04/2016 08:10	WG922004
Vinyl chloride	U		0.259	1.00	1	11/04/2016 08:10	WG922004
Xylenes, Total	U		1.06	3.00	1	11/04/2016 08:10	WG922004
(S) Toluene-d8	101			90.0-115		11/04/2016 08:10	WG922004
(S) Dibromofluoromethane	87.1			79.0-121		11/04/2016 08:10	WG922004
(S) 4-Bromofluorobenzene	94.8			80.1-120		11/04/2016 08:10	WG922004

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

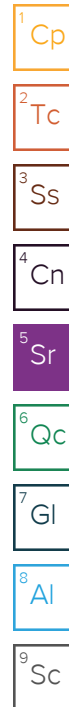
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	6.76		0.597	3.00	1	11/01/2016 22:47	WG922320
(S) Toluene-d8	102			70.0-130		11/01/2016 22:47	WG922320



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	11/04/2016 08:31	WG922004
Acrolein	U	J4	8.87	50.0	1	11/04/2016 08:31	WG922004
Acrylonitrile	U		1.87	10.0	1	11/04/2016 08:31	WG922004
Benzene	U		0.331	1.00	1	11/04/2016 08:31	WG922004
Bromobenzene	U		0.352	1.00	1	11/04/2016 08:31	WG922004
Bromodichloromethane	U		0.380	1.00	1	11/04/2016 08:31	WG922004
Bromoform	U		0.469	1.00	1	11/04/2016 08:31	WG922004
Bromomethane	U		0.866	5.00	1	11/04/2016 08:31	WG922004
n-Butylbenzene	U		0.361	1.00	1	11/04/2016 08:31	WG922004
sec-Butylbenzene	U		0.365	1.00	1	11/04/2016 08:31	WG922004
tert-Butylbenzene	U		0.399	1.00	1	11/04/2016 08:31	WG922004
Carbon disulfide	U		0.275	1.00	1	11/04/2016 08:31	WG922004
Carbon tetrachloride	U	J4	0.379	1.00	1	11/04/2016 08:31	WG922004
Chlorobenzene	U		0.348	1.00	1	11/04/2016 08:31	WG922004
Chlorodibromomethane	U		0.327	1.00	1	11/04/2016 08:31	WG922004
Chloroethane	U		0.453	5.00	1	11/04/2016 08:31	WG922004
Chloroform	U		0.324	5.00	1	11/04/2016 08:31	WG922004
Chloromethane	U		0.276	2.50	1	11/04/2016 08:31	WG922004
2-Chlorotoluene	U		0.375	1.00	1	11/04/2016 08:31	WG922004
4-Chlorotoluene	U		0.351	1.00	1	11/04/2016 08:31	WG922004
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	11/04/2016 08:31	WG922004
1,2-Dibromoethane	U		0.381	1.00	1	11/04/2016 08:31	WG922004
Dibromomethane	U		0.346	1.00	1	11/04/2016 08:31	WG922004
1,2-Dichlorobenzene	U		0.349	1.00	1	11/04/2016 08:31	WG922004
1,3-Dichlorobenzene	U		0.220	1.00	1	11/04/2016 08:31	WG922004
1,4-Dichlorobenzene	U		0.274	1.00	1	11/04/2016 08:31	WG922004
Dichlorodifluoromethane	U		0.551	5.00	1	11/04/2016 08:31	WG922004
1,1-Dichloroethane	U		0.259	1.00	1	11/04/2016 08:31	WG922004
1,2-Dichloroethane	U		0.361	1.00	1	11/04/2016 08:31	WG922004
1,1-Dichloroethene	U		0.398	1.00	1	11/04/2016 08:31	WG922004
cis-1,2-Dichloroethene	U		0.260	1.00	1	11/04/2016 08:31	WG922004
trans-1,2-Dichloroethene	U		0.396	1.00	1	11/04/2016 08:31	WG922004
1,2-Dichloropropane	U		0.306	1.00	1	11/04/2016 08:31	WG922004
1,1-Dichloropropene	U		0.352	1.00	1	11/04/2016 08:31	WG922004
1,3-Dichloropropane	U	J4	0.366	1.00	1	11/04/2016 08:31	WG922004
cis-1,3-Dichloropropene	U		0.418	1.00	1	11/04/2016 08:31	WG922004
trans-1,3-Dichloropropene	U		0.419	1.00	1	11/04/2016 08:31	WG922004
2,2-Dichloropropane	U		0.321	1.00	1	11/04/2016 08:31	WG922004
Di-isopropyl ether	U		0.320	1.00	1	11/04/2016 08:31	WG922004
Ethylbenzene	U		0.384	1.00	1	11/04/2016 08:31	WG922004
Hexachloro-1,3-butadiene	U		0.256	1.00	1	11/04/2016 08:31	WG922004
Isopropylbenzene	U		0.326	1.00	1	11/04/2016 08:31	WG922004
p-Isopropyltoluene	U		0.350	1.00	1	11/04/2016 08:31	WG922004
2-Butanone (MEK)	U		3.93	10.0	1	11/04/2016 08:31	WG922004
Methylene Chloride	U		1.00	5.00	1	11/04/2016 08:31	WG922004
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	11/04/2016 08:31	WG922004
Methyl tert-butyl ether	U		0.367	1.00	1	11/04/2016 08:31	WG922004
Naphthalene	U		1.00	5.00	1	11/04/2016 08:31	WG922004
n-Propylbenzene	U		0.349	1.00	1	11/04/2016 08:31	WG922004
Styrene	U		0.307	1.00	1	11/04/2016 08:31	WG922004
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	11/04/2016 08:31	WG922004
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	11/04/2016 08:31	WG922004
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	11/04/2016 08:31	WG922004
Tetrachloroethene	U		0.372	1.00	1	11/04/2016 08:31	WG922004
Toluene	U		0.780	5.00	1	11/04/2016 08:31	WG922004
1,2,3-Trichlorobenzene	U	J4	0.230	1.00	1	11/04/2016 08:31	WG922004





Collected date/time: 10/26/16 10:25

L869118

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.355	1.00	1	11/04/2016 08:31	WG922004
1,1,1-Trichloroethane	U		0.319	1.00	1	11/04/2016 08:31	WG922004
1,1,2-Trichloroethane	U		0.383	1.00	1	11/04/2016 08:31	WG922004
Trichloroethene	U		0.398	1.00	1	11/04/2016 08:31	WG922004
Trichlorofluoromethane	U		1.20	5.00	1	11/04/2016 08:31	WG922004
1,2,3-Trichloropropane	U		0.807	2.50	1	11/04/2016 08:31	WG922004
1,2,4-Trimethylbenzene	U		0.373	1.00	1	11/04/2016 08:31	WG922004
1,2,3-Trimethylbenzene	U		0.321	1.00	1	11/04/2016 08:31	WG922004
1,3,5-Trimethylbenzene	U		0.387	1.00	1	11/04/2016 08:31	WG922004
Vinyl chloride	U		0.259	1.00	1	11/04/2016 08:31	WG922004
Xylenes, Total	U		1.06	3.00	1	11/04/2016 08:31	WG922004
(S) Toluene-d8	101			90.0-115		11/04/2016 08:31	WG922004
(S) Dibromofluoromethane	87.5			79.0-121		11/04/2016 08:31	WG922004
(S) 4-Bromofluorobenzene	94.9			80.1-120		11/04/2016 08:31	WG922004

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 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	1.01	J	0.597	3.00	1	11/01/2016 23:06	WG922320
(S) Toluene-d8	101			70.0-130		11/01/2016 23:06	WG922320



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	11/04/2016 08:52	WG922004
Acrolein	U	J4	8.87	50.0	1	11/04/2016 08:52	WG922004
Acrylonitrile	U		1.87	10.0	1	11/04/2016 08:52	WG922004
Benzene	U		0.331	1.00	1	11/04/2016 08:52	WG922004
Bromobenzene	U		0.352	1.00	1	11/04/2016 08:52	WG922004
Bromodichloromethane	U		0.380	1.00	1	11/04/2016 08:52	WG922004
Bromoform	U		0.469	1.00	1	11/04/2016 08:52	WG922004
Bromomethane	U		0.866	5.00	1	11/04/2016 08:52	WG922004
n-Butylbenzene	U		0.361	1.00	1	11/04/2016 08:52	WG922004
sec-Butylbenzene	U		0.365	1.00	1	11/04/2016 08:52	WG922004
tert-Butylbenzene	U		0.399	1.00	1	11/04/2016 08:52	WG922004
Carbon disulfide	U		0.275	1.00	1	11/04/2016 08:52	WG922004
Carbon tetrachloride	U	J4	0.379	1.00	1	11/04/2016 08:52	WG922004
Chlorobenzene	U		0.348	1.00	1	11/04/2016 08:52	WG922004
Chlorodibromomethane	U		0.327	1.00	1	11/04/2016 08:52	WG922004
Chloroethane	U		0.453	5.00	1	11/04/2016 08:52	WG922004
Chloroform	0.794	J	0.324	5.00	1	11/04/2016 08:52	WG922004
Chloromethane	U		0.276	2.50	1	11/04/2016 08:52	WG922004
2-Chlorotoluene	U		0.375	1.00	1	11/04/2016 08:52	WG922004
4-Chlorotoluene	U		0.351	1.00	1	11/04/2016 08:52	WG922004
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	11/04/2016 08:52	WG922004
1,2-Dibromoethane	U		0.381	1.00	1	11/04/2016 08:52	WG922004
Dibromomethane	U		0.346	1.00	1	11/04/2016 08:52	WG922004
1,2-Dichlorobenzene	U		0.349	1.00	1	11/04/2016 08:52	WG922004
1,3-Dichlorobenzene	U		0.220	1.00	1	11/04/2016 08:52	WG922004
1,4-Dichlorobenzene	U		0.274	1.00	1	11/04/2016 08:52	WG922004
Dichlorodifluoromethane	U		0.551	5.00	1	11/04/2016 08:52	WG922004
1,1-Dichloroethane	0.478	J	0.259	1.00	1	11/04/2016 08:52	WG922004
1,2-Dichloroethane	U		0.361	1.00	1	11/04/2016 08:52	WG922004
1,1-Dichloroethene	2.93		0.398	1.00	1	11/04/2016 08:52	WG922004
cis-1,2-Dichloroethene	U		0.260	1.00	1	11/04/2016 08:52	WG922004
trans-1,2-Dichloroethene	U		0.396	1.00	1	11/04/2016 08:52	WG922004
1,2-Dichloropropane	U		0.306	1.00	1	11/04/2016 08:52	WG922004
1,1-Dichloropropene	U		0.352	1.00	1	11/04/2016 08:52	WG922004
1,3-Dichloropropane	U	J4	0.366	1.00	1	11/04/2016 08:52	WG922004
cis-1,3-Dichloropropene	U		0.418	1.00	1	11/04/2016 08:52	WG922004
trans-1,3-Dichloropropene	U		0.419	1.00	1	11/04/2016 08:52	WG922004
2,2-Dichloropropane	U		0.321	1.00	1	11/04/2016 08:52	WG922004
Di-isopropyl ether	U		0.320	1.00	1	11/04/2016 08:52	WG922004
Ethylbenzene	U		0.384	1.00	1	11/04/2016 08:52	WG922004
Hexachloro-1,3-butadiene	U		0.256	1.00	1	11/04/2016 08:52	WG922004
Isopropylbenzene	U		0.326	1.00	1	11/04/2016 08:52	WG922004
p-Isopropyltoluene	U		0.350	1.00	1	11/04/2016 08:52	WG922004
2-Butanone (MEK)	U		3.93	10.0	1	11/04/2016 08:52	WG922004
Methylene Chloride	U		1.00	5.00	1	11/04/2016 08:52	WG922004
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	11/04/2016 08:52	WG922004
Methyl tert-butyl ether	U		0.367	1.00	1	11/04/2016 08:52	WG922004
Naphthalene	U		1.00	5.00	1	11/04/2016 08:52	WG922004
n-Propylbenzene	U		0.349	1.00	1	11/04/2016 08:52	WG922004
Styrene	U		0.307	1.00	1	11/04/2016 08:52	WG922004
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	11/04/2016 08:52	WG922004
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	11/04/2016 08:52	WG922004
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	11/04/2016 08:52	WG922004
Tetrachloroethene	U		0.372	1.00	1	11/04/2016 08:52	WG922004
Toluene	U		0.780	5.00	1	11/04/2016 08:52	WG922004
1,2,3-Trichlorobenzene	U	J4	0.230	1.00	1	11/04/2016 08:52	WG922004

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/26/16 10:50

L869118

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.355	1.00	1	11/04/2016 08:52	WG922004
1,1,1-Trichloroethane	5.88		0.319	1.00	1	11/04/2016 08:52	WG922004
1,1,2-Trichloroethane	U		0.383	1.00	1	11/04/2016 08:52	WG922004
Trichloroethene	U		0.398	1.00	1	11/04/2016 08:52	WG922004
Trichlorofluoromethane	U		1.20	5.00	1	11/04/2016 08:52	WG922004
1,2,3-Trichloropropane	U		0.807	2.50	1	11/04/2016 08:52	WG922004
1,2,4-Trimethylbenzene	U		0.373	1.00	1	11/04/2016 08:52	WG922004
1,2,3-Trimethylbenzene	U		0.321	1.00	1	11/04/2016 08:52	WG922004
1,3,5-Trimethylbenzene	U		0.387	1.00	1	11/04/2016 08:52	WG922004
Vinyl chloride	U		0.259	1.00	1	11/04/2016 08:52	WG922004
Xylenes, Total	U		1.06	3.00	1	11/04/2016 08:52	WG922004
(S) Toluene-d8	101			90.0-115		11/04/2016 08:52	WG922004
(S) Dibromofluoromethane	86.8			79.0-121		11/04/2016 08:52	WG922004
(S) 4-Bromofluorobenzene	94.0			80.1-120		11/04/2016 08:52	WG922004

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 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	3.73		0.597	3.00	1	11/01/2016 23:25	WG922320
(S) Toluene-d8	94.9			70.0-130		11/01/2016 23:25	WG922320



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	11/04/2016 09:13	WG922004
Acrolein	U	J4	8.87	50.0	1	11/04/2016 09:13	WG922004
Acrylonitrile	U		1.87	10.0	1	11/04/2016 09:13	WG922004
Benzene	U		0.331	1.00	1	11/04/2016 09:13	WG922004
Bromobenzene	U		0.352	1.00	1	11/04/2016 09:13	WG922004
Bromodichloromethane	U		0.380	1.00	1	11/04/2016 09:13	WG922004
Bromoform	U		0.469	1.00	1	11/04/2016 09:13	WG922004
Bromomethane	U		0.866	5.00	1	11/04/2016 09:13	WG922004
n-Butylbenzene	U		0.361	1.00	1	11/04/2016 09:13	WG922004
sec-Butylbenzene	U		0.365	1.00	1	11/04/2016 09:13	WG922004
tert-Butylbenzene	U		0.399	1.00	1	11/04/2016 09:13	WG922004
Carbon disulfide	U		0.275	1.00	1	11/04/2016 09:13	WG922004
Carbon tetrachloride	U	J4	0.379	1.00	1	11/04/2016 09:13	WG922004
Chlorobenzene	U		0.348	1.00	1	11/04/2016 09:13	WG922004
Chlorodibromomethane	U		0.327	1.00	1	11/04/2016 09:13	WG922004
Chloroethane	U		0.453	5.00	1	11/04/2016 09:13	WG922004
Chloroform	U		0.324	5.00	1	11/04/2016 09:13	WG922004
Chloromethane	U		0.276	2.50	1	11/04/2016 09:13	WG922004
2-Chlorotoluene	U		0.375	1.00	1	11/04/2016 09:13	WG922004
4-Chlorotoluene	U		0.351	1.00	1	11/04/2016 09:13	WG922004
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	11/04/2016 09:13	WG922004
1,2-Dibromoethane	U		0.381	1.00	1	11/04/2016 09:13	WG922004
Dibromomethane	U		0.346	1.00	1	11/04/2016 09:13	WG922004
1,2-Dichlorobenzene	U		0.349	1.00	1	11/04/2016 09:13	WG922004
1,3-Dichlorobenzene	U		0.220	1.00	1	11/04/2016 09:13	WG922004
1,4-Dichlorobenzene	U		0.274	1.00	1	11/04/2016 09:13	WG922004
Dichlorodifluoromethane	U		0.551	5.00	1	11/04/2016 09:13	WG922004
1,1-Dichloroethane	U		0.259	1.00	1	11/04/2016 09:13	WG922004
1,2-Dichloroethane	U		0.361	1.00	1	11/04/2016 09:13	WG922004
1,1-Dichloroethene	U		0.398	1.00	1	11/04/2016 09:13	WG922004
cis-1,2-Dichloroethene	U		0.260	1.00	1	11/04/2016 09:13	WG922004
trans-1,2-Dichloroethene	U		0.396	1.00	1	11/04/2016 09:13	WG922004
1,2-Dichloropropane	U		0.306	1.00	1	11/04/2016 09:13	WG922004
1,1-Dichloropropene	U		0.352	1.00	1	11/04/2016 09:13	WG922004
1,3-Dichloropropane	U	J4	0.366	1.00	1	11/04/2016 09:13	WG922004
cis-1,3-Dichloropropene	U		0.418	1.00	1	11/04/2016 09:13	WG922004
trans-1,3-Dichloropropene	U		0.419	1.00	1	11/04/2016 09:13	WG922004
2,2-Dichloropropane	U		0.321	1.00	1	11/04/2016 09:13	WG922004
Di-isopropyl ether	U		0.320	1.00	1	11/04/2016 09:13	WG922004
Ethylbenzene	U		0.384	1.00	1	11/04/2016 09:13	WG922004
Hexachloro-1,3-butadiene	U		0.256	1.00	1	11/04/2016 09:13	WG922004
Isopropylbenzene	U		0.326	1.00	1	11/04/2016 09:13	WG922004
p-Isopropyltoluene	U		0.350	1.00	1	11/04/2016 09:13	WG922004
2-Butanone (MEK)	U		3.93	10.0	1	11/04/2016 09:13	WG922004
Methylene Chloride	U		1.00	5.00	1	11/04/2016 09:13	WG922004
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	11/04/2016 09:13	WG922004
Methyl tert-butyl ether	U		0.367	1.00	1	11/04/2016 09:13	WG922004
Naphthalene	U		1.00	5.00	1	11/04/2016 09:13	WG922004
n-Propylbenzene	U		0.349	1.00	1	11/04/2016 09:13	WG922004
Styrene	U		0.307	1.00	1	11/04/2016 09:13	WG922004
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	11/04/2016 09:13	WG922004
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	11/04/2016 09:13	WG922004
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	11/04/2016 09:13	WG922004
Tetrachloroethene	U		0.372	1.00	1	11/04/2016 09:13	WG922004
Toluene	U		0.780	5.00	1	11/04/2016 09:13	WG922004
1,2,3-Trichlorobenzene	U	J4	0.230	1.00	1	11/04/2016 09:13	WG922004

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/26/16 11:15

L869118

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.355	1.00	1	11/04/2016 09:13	WG922004
1,1,1-Trichloroethane	U		0.319	1.00	1	11/04/2016 09:13	WG922004
1,1,2-Trichloroethane	U		0.383	1.00	1	11/04/2016 09:13	WG922004
Trichloroethene	U		0.398	1.00	1	11/04/2016 09:13	WG922004
Trichlorofluoromethane	U		1.20	5.00	1	11/04/2016 09:13	WG922004
1,2,3-Trichloropropane	U		0.807	2.50	1	11/04/2016 09:13	WG922004
1,2,4-Trimethylbenzene	U		0.373	1.00	1	11/04/2016 09:13	WG922004
1,2,3-Trimethylbenzene	U		0.321	1.00	1	11/04/2016 09:13	WG922004
1,3,5-Trimethylbenzene	U		0.387	1.00	1	11/04/2016 09:13	WG922004
Vinyl chloride	U		0.259	1.00	1	11/04/2016 09:13	WG922004
Xylenes, Total	U		1.06	3.00	1	11/04/2016 09:13	WG922004
(S) Toluene-d8	101			90.0-115		11/04/2016 09:13	WG922004
(S) Dibromofluoromethane	86.0			79.0-121		11/04/2016 09:13	WG922004
(S) 4-Bromofluorobenzene	93.9			80.1-120		11/04/2016 09:13	WG922004

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 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	11/01/2016 23:44	WG922320
(S) Toluene-d8	94.2			70.0-130		11/01/2016 23:44	WG922320



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	11/04/2016 09:34	WG922004
Acrolein	U	J4	8.87	50.0	1	11/04/2016 09:34	WG922004
Acrylonitrile	U		1.87	10.0	1	11/04/2016 09:34	WG922004
Benzene	U		0.331	1.00	1	11/04/2016 09:34	WG922004
Bromobenzene	U		0.352	1.00	1	11/04/2016 09:34	WG922004
Bromodichloromethane	U		0.380	1.00	1	11/04/2016 09:34	WG922004
Bromoform	U		0.469	1.00	1	11/04/2016 09:34	WG922004
Bromomethane	U		0.866	5.00	1	11/04/2016 09:34	WG922004
n-Butylbenzene	U		0.361	1.00	1	11/04/2016 09:34	WG922004
sec-Butylbenzene	U		0.365	1.00	1	11/04/2016 09:34	WG922004
tert-Butylbenzene	U		0.399	1.00	1	11/04/2016 09:34	WG922004
Carbon disulfide	U		0.275	1.00	1	11/04/2016 09:34	WG922004
Carbon tetrachloride	U	J4	0.379	1.00	1	11/04/2016 09:34	WG922004
Chlorobenzene	U		0.348	1.00	1	11/04/2016 09:34	WG922004
Chlorodibromomethane	U		0.327	1.00	1	11/04/2016 09:34	WG922004
Chloroethane	U		0.453	5.00	1	11/04/2016 09:34	WG922004
Chloroform	U		0.324	5.00	1	11/04/2016 09:34	WG922004
Chloromethane	U		0.276	2.50	1	11/04/2016 09:34	WG922004
2-Chlorotoluene	U		0.375	1.00	1	11/04/2016 09:34	WG922004
4-Chlorotoluene	U		0.351	1.00	1	11/04/2016 09:34	WG922004
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	11/04/2016 09:34	WG922004
1,2-Dibromoethane	U		0.381	1.00	1	11/04/2016 09:34	WG922004
Dibromomethane	U		0.346	1.00	1	11/04/2016 09:34	WG922004
1,2-Dichlorobenzene	U		0.349	1.00	1	11/04/2016 09:34	WG922004
1,3-Dichlorobenzene	U		0.220	1.00	1	11/04/2016 09:34	WG922004
1,4-Dichlorobenzene	U		0.274	1.00	1	11/04/2016 09:34	WG922004
Dichlorodifluoromethane	U		0.551	5.00	1	11/04/2016 09:34	WG922004
1,1-Dichloroethane	U		0.259	1.00	1	11/04/2016 09:34	WG922004
1,2-Dichloroethane	U		0.361	1.00	1	11/04/2016 09:34	WG922004
1,1-Dichloroethene	U		0.398	1.00	1	11/04/2016 09:34	WG922004
cis-1,2-Dichloroethene	U		0.260	1.00	1	11/04/2016 09:34	WG922004
trans-1,2-Dichloroethene	U		0.396	1.00	1	11/04/2016 09:34	WG922004
1,2-Dichloropropane	U		0.306	1.00	1	11/04/2016 09:34	WG922004
1,1-Dichloropropene	U		0.352	1.00	1	11/04/2016 09:34	WG922004
1,3-Dichloropropane	U	J4	0.366	1.00	1	11/04/2016 09:34	WG922004
cis-1,3-Dichloropropene	U		0.418	1.00	1	11/04/2016 09:34	WG922004
trans-1,3-Dichloropropene	U		0.419	1.00	1	11/04/2016 09:34	WG922004
2,2-Dichloropropane	U		0.321	1.00	1	11/04/2016 09:34	WG922004
Di-isopropyl ether	U		0.320	1.00	1	11/04/2016 09:34	WG922004
Ethylbenzene	U		0.384	1.00	1	11/04/2016 09:34	WG922004
Hexachloro-1,3-butadiene	U		0.256	1.00	1	11/04/2016 09:34	WG922004
Isopropylbenzene	U		0.326	1.00	1	11/04/2016 09:34	WG922004
p-Isopropyltoluene	U		0.350	1.00	1	11/04/2016 09:34	WG922004
2-Butanone (MEK)	U		3.93	10.0	1	11/04/2016 09:34	WG922004
Methylene Chloride	U		1.00	5.00	1	11/04/2016 09:34	WG922004
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	11/04/2016 09:34	WG922004
Methyl tert-butyl ether	U		0.367	1.00	1	11/04/2016 09:34	WG922004
Naphthalene	U		1.00	5.00	1	11/04/2016 09:34	WG922004
n-Propylbenzene	U		0.349	1.00	1	11/04/2016 09:34	WG922004
Styrene	U		0.307	1.00	1	11/04/2016 09:34	WG922004
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	11/04/2016 09:34	WG922004
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	11/04/2016 09:34	WG922004
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	11/04/2016 09:34	WG922004
Tetrachloroethene	U		0.372	1.00	1	11/04/2016 09:34	WG922004
Toluene	U		0.780	5.00	1	11/04/2016 09:34	WG922004
1,2,3-Trichlorobenzene	U	J4	0.230	1.00	1	11/04/2016 09:34	WG922004

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/26/16 12:05

L869118

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.355	1.00	1	11/04/2016 09:34	WG922004
1,1,1-Trichloroethane	0.668	J	0.319	1.00	1	11/04/2016 09:34	WG922004
1,1,2-Trichloroethane	U		0.383	1.00	1	11/04/2016 09:34	WG922004
Trichloroethene	U		0.398	1.00	1	11/04/2016 09:34	WG922004
Trichlorofluoromethane	U		1.20	5.00	1	11/04/2016 09:34	WG922004
1,2,3-Trichloropropane	U		0.807	2.50	1	11/04/2016 09:34	WG922004
1,2,4-Trimethylbenzene	U		0.373	1.00	1	11/04/2016 09:34	WG922004
1,2,3-Trimethylbenzene	U		0.321	1.00	1	11/04/2016 09:34	WG922004
1,3,5-Trimethylbenzene	U		0.387	1.00	1	11/04/2016 09:34	WG922004
Vinyl chloride	U		0.259	1.00	1	11/04/2016 09:34	WG922004
Xylenes, Total	U		1.06	3.00	1	11/04/2016 09:34	WG922004
(S) Toluene-d8	101			90.0-115		11/04/2016 09:34	WG922004
(S) Dibromofluoromethane	86.1			79.0-121		11/04/2016 09:34	WG922004
(S) 4-Bromofluorobenzene	93.4			80.1-120		11/04/2016 09:34	WG922004

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

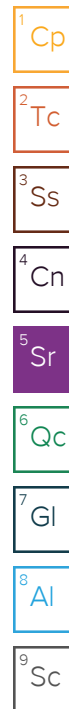
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	11/02/2016 00:03	WG922320
(S) Toluene-d8	101			70.0-130		11/02/2016 00:03	WG922320



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	11/04/2016 09:55	WG922004
Acrolein	U	J4	8.87	50.0	1	11/04/2016 09:55	WG922004
Acrylonitrile	U		1.87	10.0	1	11/04/2016 09:55	WG922004
Benzene	U		0.331	1.00	1	11/04/2016 09:55	WG922004
Bromobenzene	U		0.352	1.00	1	11/04/2016 09:55	WG922004
Bromodichloromethane	U		0.380	1.00	1	11/04/2016 09:55	WG922004
Bromoform	U		0.469	1.00	1	11/04/2016 09:55	WG922004
Bromomethane	U		0.866	5.00	1	11/04/2016 09:55	WG922004
n-Butylbenzene	U		0.361	1.00	1	11/04/2016 09:55	WG922004
sec-Butylbenzene	U		0.365	1.00	1	11/04/2016 09:55	WG922004
tert-Butylbenzene	U		0.399	1.00	1	11/04/2016 09:55	WG922004
Carbon disulfide	U		0.275	1.00	1	11/04/2016 09:55	WG922004
Carbon tetrachloride	U	J4	0.379	1.00	1	11/04/2016 09:55	WG922004
Chlorobenzene	U		0.348	1.00	1	11/04/2016 09:55	WG922004
Chlorodibromomethane	U		0.327	1.00	1	11/04/2016 09:55	WG922004
Chloroethane	U		0.453	5.00	1	11/04/2016 09:55	WG922004
Chloroform	U		0.324	5.00	1	11/04/2016 09:55	WG922004
Chloromethane	U		0.276	2.50	1	11/04/2016 09:55	WG922004
2-Chlorotoluene	U		0.375	1.00	1	11/04/2016 09:55	WG922004
4-Chlorotoluene	U		0.351	1.00	1	11/04/2016 09:55	WG922004
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	11/04/2016 09:55	WG922004
1,2-Dibromoethane	U		0.381	1.00	1	11/04/2016 09:55	WG922004
Dibromomethane	U		0.346	1.00	1	11/04/2016 09:55	WG922004
1,2-Dichlorobenzene	U		0.349	1.00	1	11/04/2016 09:55	WG922004
1,3-Dichlorobenzene	U		0.220	1.00	1	11/04/2016 09:55	WG922004
1,4-Dichlorobenzene	U		0.274	1.00	1	11/04/2016 09:55	WG922004
Dichlorodifluoromethane	U		0.551	5.00	1	11/04/2016 09:55	WG922004
1,1-Dichloroethane	0.652	J	0.259	1.00	1	11/04/2016 09:55	WG922004
1,2-Dichloroethane	U		0.361	1.00	1	11/04/2016 09:55	WG922004
1,1-Dichloroethene	5.28		0.398	1.00	1	11/04/2016 09:55	WG922004
cis-1,2-Dichloroethene	U		0.260	1.00	1	11/04/2016 09:55	WG922004
trans-1,2-Dichloroethene	U		0.396	1.00	1	11/04/2016 09:55	WG922004
1,2-Dichloropropane	U		0.306	1.00	1	11/04/2016 09:55	WG922004
1,1-Dichloropropene	U		0.352	1.00	1	11/04/2016 09:55	WG922004
1,3-Dichloropropane	U	J4	0.366	1.00	1	11/04/2016 09:55	WG922004
cis-1,3-Dichloropropene	U		0.418	1.00	1	11/04/2016 09:55	WG922004
trans-1,3-Dichloropropene	U		0.419	1.00	1	11/04/2016 09:55	WG922004
2,2-Dichloropropane	U		0.321	1.00	1	11/04/2016 09:55	WG922004
Di-isopropyl ether	U		0.320	1.00	1	11/04/2016 09:55	WG922004
Ethylbenzene	U		0.384	1.00	1	11/04/2016 09:55	WG922004
Hexachloro-1,3-butadiene	U		0.256	1.00	1	11/04/2016 09:55	WG922004
Isopropylbenzene	U		0.326	1.00	1	11/04/2016 09:55	WG922004
p-Isopropyltoluene	U		0.350	1.00	1	11/04/2016 09:55	WG922004
2-Butanone (MEK)	U		3.93	10.0	1	11/04/2016 09:55	WG922004
Methylene Chloride	U		1.00	5.00	1	11/04/2016 09:55	WG922004
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	11/04/2016 09:55	WG922004
Methyl tert-butyl ether	U		0.367	1.00	1	11/04/2016 09:55	WG922004
Naphthalene	U		1.00	5.00	1	11/04/2016 09:55	WG922004
n-Propylbenzene	U		0.349	1.00	1	11/04/2016 09:55	WG922004
Styrene	U		0.307	1.00	1	11/04/2016 09:55	WG922004
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	11/04/2016 09:55	WG922004
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	11/04/2016 09:55	WG922004
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	11/04/2016 09:55	WG922004
Tetrachloroethene	U		0.372	1.00	1	11/04/2016 09:55	WG922004
Toluene	U		0.780	5.00	1	11/04/2016 09:55	WG922004
1,2,3-Trichlorobenzene	U	J4	0.230	1.00	1	11/04/2016 09:55	WG922004





Collected date/time: 10/26/16 09:25

L869118

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.355	1.00	1	11/04/2016 09:55	WG922004
1,1,1-Trichloroethane	5.31		0.319	1.00	1	11/04/2016 09:55	WG922004
1,1,2-Trichloroethane	U		0.383	1.00	1	11/04/2016 09:55	WG922004
Trichloroethene	U		0.398	1.00	1	11/04/2016 09:55	WG922004
Trichlorofluoromethane	U		1.20	5.00	1	11/04/2016 09:55	WG922004
1,2,3-Trichloropropane	U		0.807	2.50	1	11/04/2016 09:55	WG922004
1,2,4-Trimethylbenzene	U		0.373	1.00	1	11/04/2016 09:55	WG922004
1,2,3-Trimethylbenzene	U		0.321	1.00	1	11/04/2016 09:55	WG922004
1,3,5-Trimethylbenzene	U		0.387	1.00	1	11/04/2016 09:55	WG922004
Vinyl chloride	U		0.259	1.00	1	11/04/2016 09:55	WG922004
Xylenes, Total	U		1.06	3.00	1	11/04/2016 09:55	WG922004
(S) Toluene-d8	102			90.0-115		11/04/2016 09:55	WG922004
(S) Dibromofluoromethane	86.5			79.0-121		11/04/2016 09:55	WG922004
(S) 4-Bromofluorobenzene	93.3			80.1-120		11/04/2016 09:55	WG922004

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

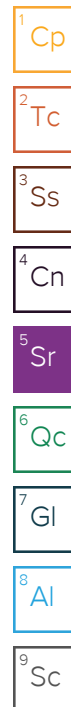
Volatile Organic Compounds (GC/MS) by Method 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	4.37		0.597	3.00	1	11/02/2016 00:23	WG922320
(S) Toluene-d8	101			70.0-130		11/02/2016 00:23	WG922320



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	11/04/2016 13:21	WG922004
Acrolein	U	J4	8.87	50.0	1	11/04/2016 13:21	WG922004
Acrylonitrile	U		1.87	10.0	1	11/04/2016 13:21	WG922004
Benzene	U		0.331	1.00	1	11/04/2016 13:21	WG922004
Bromobenzene	U		0.352	1.00	1	11/04/2016 13:21	WG922004
Bromodichloromethane	U		0.380	1.00	1	11/04/2016 13:21	WG922004
Bromoform	U		0.469	1.00	1	11/04/2016 13:21	WG922004
Bromomethane	U		0.866	5.00	1	11/04/2016 13:21	WG922004
n-Butylbenzene	U		0.361	1.00	1	11/04/2016 13:21	WG922004
sec-Butylbenzene	U		0.365	1.00	1	11/04/2016 13:21	WG922004
tert-Butylbenzene	U		0.399	1.00	1	11/04/2016 13:21	WG922004
Carbon disulfide	U		0.275	1.00	1	11/04/2016 13:21	WG922004
Carbon tetrachloride	U	J4	0.379	1.00	1	11/04/2016 13:21	WG922004
Chlorobenzene	U		0.348	1.00	1	11/04/2016 13:21	WG922004
Chlorodibromomethane	U		0.327	1.00	1	11/04/2016 13:21	WG922004
Chloroethane	U		0.453	5.00	1	11/04/2016 13:21	WG922004
Chloroform	U		0.324	5.00	1	11/04/2016 13:21	WG922004
Chloromethane	U		0.276	2.50	1	11/04/2016 13:21	WG922004
2-Chlorotoluene	U		0.375	1.00	1	11/04/2016 13:21	WG922004
4-Chlorotoluene	U		0.351	1.00	1	11/04/2016 13:21	WG922004
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	11/04/2016 13:21	WG922004
1,2-Dibromoethane	U		0.381	1.00	1	11/04/2016 13:21	WG922004
Dibromomethane	U		0.346	1.00	1	11/04/2016 13:21	WG922004
1,2-Dichlorobenzene	U		0.349	1.00	1	11/04/2016 13:21	WG922004
1,3-Dichlorobenzene	U		0.220	1.00	1	11/04/2016 13:21	WG922004
1,4-Dichlorobenzene	U		0.274	1.00	1	11/04/2016 13:21	WG922004
Dichlorodifluoromethane	U		0.551	5.00	1	11/04/2016 13:21	WG922004
1,1-Dichloroethane	U		0.259	1.00	1	11/04/2016 13:21	WG922004
1,2-Dichloroethane	U		0.361	1.00	1	11/04/2016 13:21	WG922004
1,1-Dichloroethene	U		0.398	1.00	1	11/04/2016 13:21	WG922004
cis-1,2-Dichloroethene	U		0.260	1.00	1	11/04/2016 13:21	WG922004
trans-1,2-Dichloroethene	U		0.396	1.00	1	11/04/2016 13:21	WG922004
1,2-Dichloropropane	U		0.306	1.00	1	11/04/2016 13:21	WG922004
1,1-Dichloropropene	U		0.352	1.00	1	11/04/2016 13:21	WG922004
1,3-Dichloropropane	U	J4	0.366	1.00	1	11/04/2016 13:21	WG922004
cis-1,3-Dichloropropene	U		0.418	1.00	1	11/04/2016 13:21	WG922004
trans-1,3-Dichloropropene	U		0.419	1.00	1	11/04/2016 13:21	WG922004
2,2-Dichloropropane	U		0.321	1.00	1	11/04/2016 13:21	WG922004
Di-isopropyl ether	U		0.320	1.00	1	11/04/2016 13:21	WG922004
Ethylbenzene	U		0.384	1.00	1	11/04/2016 13:21	WG922004
Hexachloro-1,3-butadiene	U		0.256	1.00	1	11/04/2016 13:21	WG922004
Isopropylbenzene	U		0.326	1.00	1	11/04/2016 13:21	WG922004
p-Isopropyltoluene	U		0.350	1.00	1	11/04/2016 13:21	WG922004
2-Butanone (MEK)	U		3.93	10.0	1	11/04/2016 13:21	WG922004
Methylene Chloride	U		1.00	5.00	1	11/04/2016 13:21	WG922004
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	11/04/2016 13:21	WG922004
Methyl tert-butyl ether	U		0.367	1.00	1	11/04/2016 13:21	WG922004
Naphthalene	U		1.00	5.00	1	11/04/2016 13:21	WG922004
n-Propylbenzene	U		0.349	1.00	1	11/04/2016 13:21	WG922004
Styrene	U		0.307	1.00	1	11/04/2016 13:21	WG922004
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	11/04/2016 13:21	WG922004
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	11/04/2016 13:21	WG922004
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	11/04/2016 13:21	WG922004
Tetrachloroethene	U		0.372	1.00	1	11/04/2016 13:21	WG922004
Toluene	U		0.780	5.00	1	11/04/2016 13:21	WG922004
1,2,3-Trichlorobenzene	U	J4	0.230	1.00	1	11/04/2016 13:21	WG922004





Collected date/time: 10/26/16 11:45

L869118

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.355	1.00	1	11/04/2016 13:21	WG922004
1,1,1-Trichloroethane	U		0.319	1.00	1	11/04/2016 13:21	WG922004
1,1,2-Trichloroethane	U		0.383	1.00	1	11/04/2016 13:21	WG922004
Trichloroethene	U		0.398	1.00	1	11/04/2016 13:21	WG922004
Trichlorofluoromethane	U		1.20	5.00	1	11/04/2016 13:21	WG922004
1,2,3-Trichloropropane	U		0.807	2.50	1	11/04/2016 13:21	WG922004
1,2,4-Trimethylbenzene	U		0.373	1.00	1	11/04/2016 13:21	WG922004
1,2,3-Trimethylbenzene	U		0.321	1.00	1	11/04/2016 13:21	WG922004
1,3,5-Trimethylbenzene	U		0.387	1.00	1	11/04/2016 13:21	WG922004
Vinyl chloride	U		0.259	1.00	1	11/04/2016 13:21	WG922004
Xylenes, Total	U		1.06	3.00	1	11/04/2016 13:21	WG922004
(S) Toluene-d8	101			90.0-115		11/04/2016 13:21	WG922004
(S) Dibromofluoromethane	88.4			79.0-121		11/04/2016 13:21	WG922004
(S) 4-Bromofluorobenzene	94.0			80.1-120		11/04/2016 13:21	WG922004

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 8260B-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.597	3.00	1	11/02/2016 00:42	WG922320
(S) Toluene-d8	101			70.0-130		11/02/2016 00:42	WG922320

[L869118-01,02,03,04,05,06,07,08,09,10,11,12,13,14](#)

Method Blank (MB)

(MB) R3176236-3 11/04/16 00:34

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Acrolein	U		8.87	50.0
Acrylonitrile	U		1.87	10.0
Benzene	U		0.331	1.00
Bromobenzene	U		0.352	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
n-Butylbenzene	U		0.361	1.00
sec-Butylbenzene	U		0.365	1.00
tert-Butylbenzene	U		0.399	1.00
Carbon disulfide	U		0.275	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
2-Chlorotoluene	U		0.375	1.00
4-Chlorotoluene	U		0.351	1.00
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
Dibromomethane	U		0.346	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
Dichlorodifluoromethane	U		0.551	5.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
1,1-Dichloropropene	U		0.352	1.00
1,3-Dichloropropane	U		0.366	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
2,2-Dichloropropane	U		0.321	1.00
Di-isopropyl ether	U		0.320	1.00
Ethylbenzene	U		0.384	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

[L869118-01,02,03,04,05,06,07,08,09,10,11,12,13,14](#)

Method Blank (MB)

(MB) R3176236-3 11/04/16 00:34

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.256	1.00
Isopropylbenzene	U		0.326	1.00
p-Isopropyltoluene	U		0.350	1.00
2-Butanone (MEK)	U		3.93	10.0
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.349	1.00
Styrene	U		0.307	1.00
1,1,1,2-Tetrachloroethane	U		0.385	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.780	5.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.355	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00
Trichloroethene	U		0.398	1.00
Trichlorofluoromethane	U		1.20	5.00
1,2,3-Trichloropropane	U		0.807	2.50
1,2,3-Trimethylbenzene	U		0.321	1.00
1,2,4-Trimethylbenzene	U		0.373	1.00
1,3,5-Trimethylbenzene	U		0.387	1.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	101			90.0-115
(S) Dibromofluoromethane	86.3			79.0-121
(S) 4-Bromofluorobenzene	95.5			80.1-120

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

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

(LCS) R3176236-1 11/03/16 23:31 • (LCSD) R3176236-2 11/03/16 23:52

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	160	166	128	133	28.7-175			3.96	20.9
Acrolein	125	302	321	242	257	40.4-172	J4	J4	5.96	20
Acrylonitrile	125	118	123	94.5	98.2	58.2-145			3.85	20

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

(LCS) R3176236-1 11/03/16 23:31 • (LCSD) R3176236-2 11/03/16 23:52

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	25.0	24.4	23.8	97.5	95.3	73.0-122			2.34	20
Bromobenzene	25.0	26.5	26.5	106	106	81.5-115			0.160	20
Bromodichloromethane	25.0	24.4	23.9	97.6	95.7	75.5-121			1.93	20
Bromoform	25.0	23.9	23.9	95.4	95.7	71.5-131			0.320	20
Bromomethane	25.0	22.7	23.1	90.8	92.5	22.4-187			1.85	20
n-Butylbenzene	25.0	25.3	24.6	101	98.4	75.9-134			2.91	20
sec-Butylbenzene	25.0	26.1	26.1	104	104	80.6-126			0.0200	20
tert-Butylbenzene	25.0	26.6	26.6	106	106	79.3-127			0.160	20
Carbon disulfide	25.0	25.0	24.3	100	97.3	53.0-134			2.77	20
Carbon tetrachloride	25.0	17.8	17.2	71.2	68.7	70.9-129		J4	3.48	20
Chlorobenzene	25.0	28.3	27.9	113	112	79.7-122			1.67	20
Chlorodibromomethane	25.0	26.2	25.8	105	103	78.2-124			1.38	20
Chloroethane	25.0	25.7	25.3	103	101	41.2-153			1.56	20
Chloroform	25.0	24.2	23.6	96.7	94.3	73.2-125			2.56	20
Chloromethane	25.0	30.5	30.0	122	120	55.8-134			1.66	20
2-Chlorotoluene	25.0	26.6	26.5	106	106	76.4-125			0.280	20
4-Chlorotoluene	25.0	26.3	26.0	105	104	81.5-121			1.24	20
1,2-Dibromo-3-Chloropropane	25.0	21.7	23.0	86.8	92.1	64.8-131			5.88	20
1,2-Dibromoethane	25.0	26.2	26.2	105	105	79.8-122			0.120	20
Dibromomethane	25.0	26.4	26.2	105	105	79.5-118			0.600	20
1,2-Dichlorobenzene	25.0	26.6	26.3	106	105	84.7-118			0.960	20
1,3-Dichlorobenzene	25.0	26.0	25.9	104	104	77.6-127			0.0600	20
1,4-Dichlorobenzene	25.0	26.7	26.4	107	106	82.2-114			1.04	20
Dichlorodifluoromethane	25.0	26.3	24.8	105	99.3	56.0-134			5.91	20
1,1-Dichloroethane	25.0	25.3	24.7	101	98.7	71.7-127			2.37	20
1,2-Dichloroethane	25.0	23.4	23.0	93.5	91.8	65.3-126			1.78	20
1,1-Dichloroethene	25.0	25.6	25.7	102	103	59.9-137			0.490	20
cis-1,2-Dichloroethene	25.0	23.5	23.0	94.0	92.1	77.3-122			2.10	20
trans-1,2-Dichloroethene	25.0	24.5	23.6	97.8	94.5	72.6-125			3.48	20
1,2-Dichloropropane	25.0	30.3	29.1	121	116	77.4-125			4.02	20
1,1-Dichloropropene	25.0	26.3	25.4	105	102	72.5-127			3.31	20
1,3-Dichloropropane	25.0	29.0	28.6	116	114	80.6-115	J4		1.39	20
cis-1,3-Dichloropropene	25.0	25.4	24.8	102	99.3	77.7-124			2.45	20
trans-1,3-Dichloropropene	25.0	25.5	25.2	102	101	73.5-127			1.26	20
2,2-Dichloropropane	25.0	22.6	21.9	90.3	87.4	61.3-134			3.20	20
Di-isopropyl ether	25.0	26.2	25.9	105	104	65.1-135			1.18	20
Ethylbenzene	25.0	27.5	27.0	110	108	80.9-121			1.73	20
Hexachloro-1,3-butadiene	25.0	19.6	19.4	78.6	77.5	73.7-133			1.30	20
Isopropylbenzene	25.0	28.0	27.6	112	110	81.6-124			1.64	20
p-Isopropyltoluene	25.0	26.5	26.2	106	105	77.6-129			1.22	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

[L869118-01,02,03,04,05,06,07,08,09,10,11,12,13,14](#)

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

(LCS) R3176236-1 11/03/16 23:31 • (LCSD) R3176236-2 11/03/16 23:52

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Butanone (MEK)	125	113	115	90.1	92.4	46.4-155			2.55	20
Methylene Chloride	25.0	23.1	22.8	92.5	91.1	69.5-120			1.59	20
4-Methyl-2-pentanone (MIBK)	125	128	131	102	105	63.3-138			2.75	20
Methyl tert-butyl ether	25.0	21.9	21.8	87.5	87.3	70.1-125			0.230	20
Naphthalene	25.0	18.8	19.1	75.3	76.6	69.7-134			1.63	20
n-Propylbenzene	25.0	27.8	27.3	111	109	81.9-122			1.71	20
Styrene	25.0	26.9	26.7	107	107	79.9-124			0.410	20
1,1,1,2-Tetrachloroethane	25.0	25.6	25.2	102	101	78.5-125			1.59	20
1,1,2,2-Tetrachloroethane	25.0	25.6	26.8	102	107	79.3-123			4.70	20
Tetrachloroethene	25.0	30.1	29.5	120	118	73.5-130			2.02	20
Toluene	25.0	26.8	26.4	107	106	77.9-116			1.44	20
1,1,2-Trichlorotrifluoroethane	25.0	23.4	22.5	93.6	90.2	62.0-141			3.77	20
1,2,3-Trichlorobenzene	25.0	17.9	18.2	71.6	72.9	75.7-134	J4	J4	1.79	20
1,2,4-Trichlorobenzene	25.0	21.1	21.3	84.4	85.4	76.1-136			1.12	20
1,1,1-Trichloroethane	25.0	24.5	23.8	98.0	95.3	71.1-129			2.78	20
1,1,2-Trichloroethane	25.0	27.1	27.0	108	108	81.6-120			0.410	20
Trichloroethene	25.0	27.8	26.9	111	107	79.5-121			3.46	20
Trichlorofluoromethane	25.0	24.6	23.6	98.6	94.4	49.1-157			4.33	20
1,2,3-Trichloropropane	25.0	25.6	26.6	102	107	74.9-124			3.90	20
1,2,3-Trimethylbenzene	25.0	26.7	26.3	107	105	79.9-118			1.75	20
1,2,4-Trimethylbenzene	25.0	26.0	25.9	104	104	79.0-122			0.420	20
1,3,5-Trimethylbenzene	25.0	26.6	26.1	106	105	81.0-123			1.62	20
Vinyl chloride	25.0	27.0	25.9	108	104	61.5-134			4.06	20
Xylenes, Total	75.0	82.7	80.9	110	108	79.2-122			2.10	20
(S) Toluene-d8				102	103	90.0-115				
(S) Dibromofluoromethane				85.8	85.3	79.0-121				
(S) 4-Bromofluorobenzene				96.6	97.7	80.1-120				

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3175294-3 11/01/16 17:42

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
1,4-Dioxane	U		0.597	3.00
(S) Toluene-d8	102			70.0-130

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

(LCS) R3175294-1 11/01/16 16:44 • (LCSD) R3175294-2 11/01/16 17:03

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
1,4-Dioxane	50.0	46.4	46.3	92.8	92.6	70.0-130			0.130	25
(S) Toluene-d8				94.9	94.8	70.0-130				

L869236-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L869236-03 11/01/16 19:13 • (MS) R3175294-4 11/01/16 18:15 • (MSD) R3175294-5 11/01/16 18:34

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
1,4-Dioxane	50.0	U	44.6	53.7	89.2	107	1	0.000-200			18.5	42
(S) Toluene-d8					102	101		70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
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.
(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.
Rec.	Recovery.

Qualifier	Description
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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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

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

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

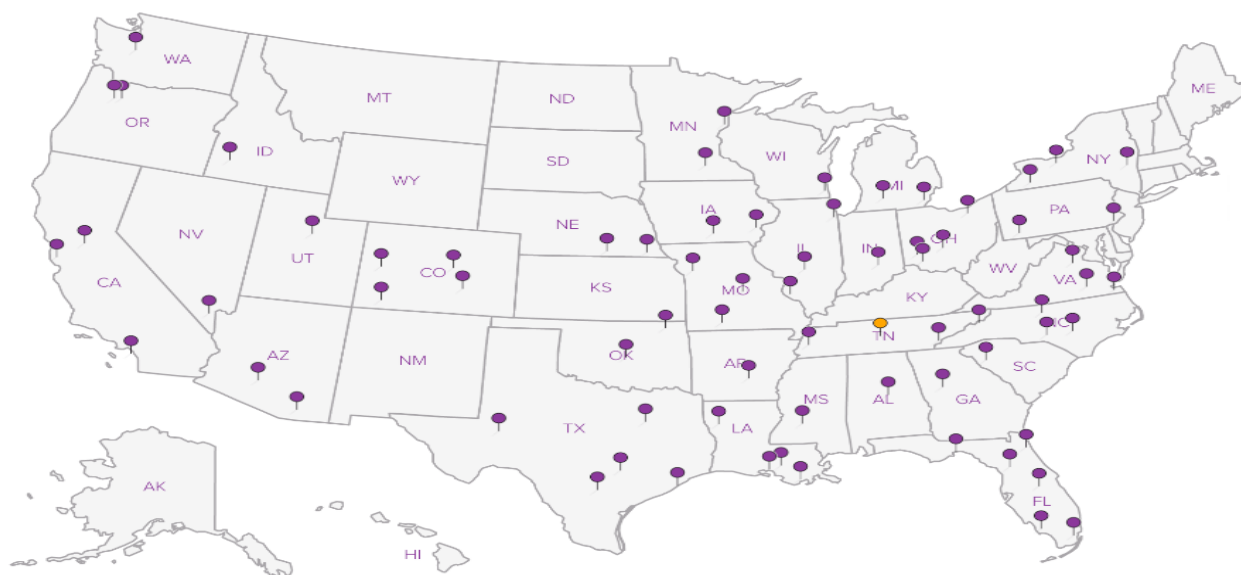
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

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

Our Locations

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



OREGONDEQ State of Oregon Sample Chain of Custody OREGONDEQ

Agency, Authorized Purchaser or Agent: DEQ	Contract Laboratory Name: ESC	Lab Selection Criteria: ☐ Proximity (if TAT < 48 hrs) ☐ Prior work on same project ☐ Cost (for anticipated analyses) ☐ Other labs disqualified or unable to perform requested services ☐ Emergency work	Turn Around Time: ☒ 10 days (std.) ☐ 5 days ☐ 72 hours ☐ 48 hours ☐ 24 hours ☐ Other
Send Lab Report To: DEQ Kenneth Cameron Address: 2020 SW 4 th Ste. 400 Portland, OR. 97201 Tel. #: 503-229-5257	Lab Batch #: ESC Invoice To: Don Hansen Address: hansen.don@deq.state.or.us Tel. #:		

Project Name: Montezuma West ODEQ - Montezuma West Project #: Sampler Name: Ken Cameron				Sample Preservative				Requested Analyses				Comments			
Sample ID#	Collection Date/Time	Matrix	Number of Containers												
TRIP Blank	10/25/16 1110	Water	1	876	876									L869118-01	
✓ MW-17	10/25/16 1110		4											02	
✓ MW-11	1245													03	
✓ MW-14	1400													04	
✓ DW-25	1445		3											05	
✓ DW-25K	1430		4											06	
✓ P-3K	10/26/16 0845													07	
✓ P-3	0900													08	
✓ DW-23	1025													09	
✓ DW-21	1050													10	
✓ DW-18	1115													11	
✓ DW-19	1205	✓	✓	✓	✓									12	

Notes:			
Relinquished By: Ken Cameron	Agency/Agent: DEQ	Received By:	Agency/Agent:
Signature: Ken Cameron	Time & Date: 10/27/16 1400	Signature:	Time & Date:
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature: Don Hansen	Time & Date: 10/28/16 0900

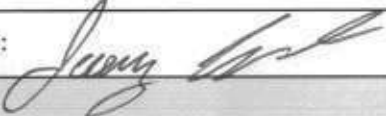
THIS PURCHASE IS SUBMITTED PURSUANT TO STATE OF OREGON SOLICITATION #102-1093-07 AND PRICE AGREEMENT # 1. THE PRICE AGREEMENT INCLUDING CONTRACT TERMS AND CONDITIONS AND SPECIAL CONTRACT TERMS AND CONDITIONS (T'S & C'S) CONTAINED IN THE PRICE AGREEMENT ARE HEREBY INCORPORATED BY REFERENCE AND SHALL APPLY TO THIS PURCHASE AND SHALL TAKE PRECEDENCE OVER ALL OTHER CONFLICTING T'S AND C'S, EXPRESS OR IMPLIED.

OREGONDEQ State of Oregon Sample Chain of Custody OREGONDEQ

Agency, Authorized Purchaser or Agent: DEQ				Contract Laboratory Name: ESC				Lab Selection Criteria: ☐ Proximity (if TAT < 48 hrs) ☒ Prior work on same project ☐ Cost (for anticipated analyses) ☐ Other labs disqualified or unable to perform requested services ☐ Emergency work				Turn Around Time: ☒ 10 days (std.) ☐ 5 days ☐ 72 hours ☐ 48 hours ☐ 24 hours ☐ Other			
Send Lab Report To: DEQ Kenneth Cameron Address: 2020 SW 4 th Ste. 400 Portland, OR. 97201 Tel #: 503-229-5251				Lab Batch #:				Invoice To: Don Hanson Address: Hanson.Don@deq.state.or.us Tel. #:							
Project Name: ODEQ - Montezuma West Project #:				Sample Preservative				OREGONDEQ							
Sampler Name: Ken Cameron				Requested Analyses											
Sample ID#		Collection Date/Time		Matrix		Number of Containers								Comments	
DW-27 DW-20		10/26/16 0925 1145		W		4		8260 ↓		8260 ↓		51MLL		LB69118-13 14	
Notes:															
Relinquished By: Ken Cameron				Agency/Agent: DEQ				Received By:				Agency/Agent:			
Signature: Karl L. Cam				Time & Date: 10/27/16 1400				Signature:				Time & Date:			
Relinquished By:				Agency/Agent:				Received By:				Agency/Agent:			
Signature:				Time & Date:				Signature: [Signature]				Time & Date: 10/28/16 0900			

THIS PURCHASE IS SUBMITTED PURSUANT TO STATE OF OREGON SOLICITATION #102-1098-07 AND PRICE AGREEMENT # 1. THE PRICE AGREEMENT INCLUDING CONTRACT TERMS AND CONDITIONS AND SPECIAL CONTRACT TERMS AND CONDITIONS (T'S & C'S) CONTAINED IN THE PRICE AGREEMENT ARE HEREBY INCORPORATED BY REFERENCE AND SHALL APPLY TO THIS PURCHASE AND SHALL TAKE PRECEDENCE OVER ALL OTHER CONFLICTING T'S AND C'S, EXPRESS OR IMPLIED.



Cooler Receipt Form				
Client:	OREGONDEA	SDG#	2869118	
Cooler Received/Opened On: 10-28-16	Temperature Upon Receipt:		3.1 °C	
Received By: Jeremy Watkins				
Signature: 				
Receipt Check List		Yes	No	N/A
Were custody seals on outside of cooler and intact?				✓
Were custody papers properly filled out?		✓		
Did all bottles arrive in good condition?		✓		
Were correct bottles used for the analyses requested?		✓		
Was sufficient amount of sample sent in each bottle?		✓		
Were all applicable sample containers correctly preserved and checked for preservation? (Any not in accepted range noted on COC)				✓
If applicable, was an observable VOA headspace present?			✓	
Non Conformance Generated. (If yes see attached NCF)				

Andy Vann

ESC Lab Sciences
Non-Conformance Form

Login #: L869118	Client: OREGONDEQ	Date: 10/28/16	Evaluated by: Jeremy
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Non-Conformance (check applicable items)

Sample Integrity	Chain of Custody Clarification	If Broken Container:
Parameter(s) past holding time ☒	Login Clarification Needed	
Improper temperature	Chain of custody is incomplete	Insufficient packing material around container
Improper container type	Please specify Metals requested.	Insufficient packing material inside cooler
Improper preservation	Please specify TCLP requested.	Improper handling by carrier (FedEx / UPS / Courier)
Insufficient sample volume.	Received additional samples not listed on coc.	Sample was frozen
Sample is biphasic.	Sample ids on containers do not match ids on coc	Container lid not intact
Vials received with headspace.	Trip Blank not received.	If no Chain of Custody:
Broken container	Client did not "X" analysis.	Received by:
Broken container:	Chain of Custody is missing	Date/Time:
☒ Broken container remains		Temp./Cont. Rec./pH:
		Carrier:
		Tracking#

Login Comments:

1. Received 1 vial broken for DW-25. Three Remains
2. Received samples labeled as DW-27 at 1025. Did not receive DW-23 @ 1025. Logged per COC.

Client informed by:	Call	Email	☒ Voice Mail	Date: 10/31/16	Time: 1300
TSR Initials: bjf	Client Contact: Ken Cameron				

Login Instructions:

- 1) Proceed with remaining vials
- 2) Log as DW-27 at 1025.

This E-mail and any attached files are confidential, and may be copyright protected. If you are not the addressee, any dissemination of this communication is strictly prohibited. If you have received this message in error, please contact the sender immediately and delete/destroy all information received.

Brian Ford

From: OTT Mallory <mallory.ott@state.or.us>
Sent: Wednesday, November 09, 2016 1:53 PM
To: Brian Ford
Subject: RE: ESC Lab Sciences Report for Montezuma West L869118

Thanks Brian, I clarified with Ken and DW-27 was sampled at 1025. It is the DW-27 sample collected at 0925 that needs to be changed to say DW-23.

Thanks,
Mallory

-----Original Message-----

From: Brian Ford [<mailto:BFord@esclabsciences.com>]
Sent: Wednesday, November 09, 2016 9:07 AM
To: 'OTT Mallory'
Subject: RE: ESC Lab Sciences Report for Montezuma West L869118

Mallory,

See the attached e-mail and the NCF on the last page of the report. Let me know if we need to change this sample ID back to DW-23 at 1025.

Thanks,
Brian Ford
ESC Lab Sciences
Office: (615)773-9772
Cell: (931)510-2229
bford@esclabsciences.com

Notice: This communication and any attached files may contain privileged or other confidential information. If you have received this in error, please contact the sender immediately via reply email and immediately delete the message and any attachments without copying or disclosing the contents. Thank you.

-----Original Message-----

From: OTT Mallory [<mailto:mallory.ott@state.or.us>]
Sent: Wednesday, November 09, 2016 10:42 AM
To: Brian Ford
Subject: FW: ESC Lab Sciences Report for Montezuma West L869118
Importance: High

Hi Brian,

It looks like the sample from DW-23 got mislabeled in the lab report as DW-27. The one with a sample time of 1025 should be DW-23. Can you please revise the lab report and send back to me?

Thanks,
Mallory

-----Original Message-----

From: CAMERON Kenneth A
Sent: Tuesday, November 08, 2016 9:27 AM
To: HANSON Don; KELLEY Eric; OTT Mallory
Subject: FW: ESC Lab Sciences Report for Montezuma West L869118
Importance: High

Greetings

The results for MZW arrived yesterday. I haven't had a chance to look over them, but there was a note that came separately that described contamination in the trip blank (attached below). The blank was in a single VOA inside a plastic bag and was never removed from the cooler. I don't know where the contamination came from.

Ken,

You will be receiving this lab report shortly. Just a heads up, there appeared to be contamination present in the trip blank. The contamination is not due to instrument contamination or carryover. There are low level J qualified mdl hits for carbon disulfide, cis-1,2-dichloroethene, and tetrachloroethene. There is an RDL hit for chloromethane.

This seems to have little impact on the sample data. All samples are non-detect for carbon disulfide, cis-1,2-dichloroethene, and chloromethane. L869118-07 (P-3K) and L869118-08 (P-3) have low level J qualified MDL hits for tetrachloroethene. All other samples are non-detect for tetrachloroethene. Let me know if you have any questions or concerns.

-----Original Message-----

From: bford@esclabsciences.com [<mailto:bford@esclabsciences.com>]
Sent: Tuesday, November 08, 2016 8:58 AM
To: CAMERON Kenneth A
Subject: ESC Lab Sciences Report for Montezuma West L869118
Importance: High

Thank you for choosing ESC Lab Sciences!

Please find enclosed PDF files containing your laboratory analysis and chain of custody.

ESC is pleased to announce that we are accepting samples from 21 states for the new 3511 prep technique for PAHs by 8270 and 8270SIM. This technique allows for a 98% reduction in solvent usage, and requires only 2 to 3 40 mL non-preserved amber vials vs. the traditional 1 or 2 amber liter jars. Please contact your Technical Service Representative for details.

ESC is leading the laboratory industry with our On-line Data Management tools. Please contact your Technical Service Representative to learn how to create historical Excel tables or access data in real time using powerful and intuitive software that is only available at <http://www.esclabsciences.com>.

How are we doing? ESC would like to hear from you. Please take a moment and complete our customer feedback survey at <https://www.surveymonkey.com/s/TCGLB7T>.

ESC ... "Your Lab of Choice"

Brian Ford
Technical Service Representative
615-773-9772
bford@esclabsciences.com

ESC Lab Sciences
12065 Lebanon Rd
Mount Juliet, TN 37122
www.esclabsciences.com

Recipients configured to receive report file: CAMERON.Kenneth@deq.state.or.us

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