

ZipperGeo

Geoprofessional Consultants

August 1, 2018

Mill Creek Crossing LLC
22833 Bothell Everett Highway, Suite 207
Bothell, Washington 98021

Attn: Mr. Nicholas Echelbarger

Re: February 2018 Groundwater Monitoring Report – Former Prime Cleaners
18001 Bothell Everett Highway
Bothell, Snohomish County, Washington
ZGA Project No. 1001.25
VCP #NW2571

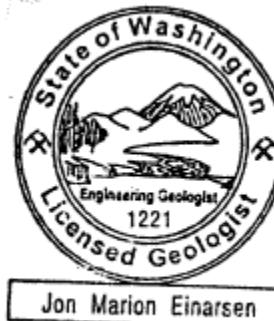
Dear Mr. Echelbarger:

Zipper Geo Associates, LLC (ZGA) is pleased to submit this Groundwater Monitoring Report for the above referenced site. This investigation was performed in general accordance with ZGA's Proposal No. P14297R, dated July 2, 2015 and includes results for sampling events completed in February 2018.

We appreciate the opportunity to perform these services for Mill Creek Crossing LLC. Please contact the undersigned at (425) 582-9928 if you have questions regarding the information provided in the report.

Sincerely,
Zipper Geo Associates, LLC

Evelyn Conrado
Evelyn Conrado, GIT
Staff Geologist



JE
Jon Einarsen, LG
Principal

Attachments: Appendix A – Figures

Figure 1 – Groundwater Contour Map (February 2018)
Appendix B – Laboratory Report

Introduction

A dual-phase extraction (DPE) system has been installed at the Site to treat soil and groundwater that has been impacted by tetrachloroethylene (PCE) due to historical use of two adjoining tenant spaces for dry cleaning activities. The DPE system was first started on February 1, 2017. After troubleshooting several electrical and mechanical issues that were causing the system to automatically shut down, the system has been running more or less continuously since June of 2017, with periodic shutdowns for maintenance and groundwater sampling.

This groundwater monitoring report presents a summary of a groundwater sampling event completed in February of 2018, which is the third quarterly sampling event since system startup. The scope of the monitoring study is to sample 10 groundwater wells located proximal to the former dry cleaning facilities located on the southwest part of the Mill Creek Crossing Retail Center. Results from the monitoring study are used to assess trends in concentrations of volatile organic compounds (VOC), particularly tetrachloroethylene (PCE), and its degradational products trichloroethylene (TCE), 1,1-dichlorethene, cis-1,2-dichloroethylene (cis-1,2-DCE), and trans-1,2-dichloroethylene (trans-1,2-DCE), and vinyl chloride. 1,1-dichlorethene and the end-member degradational product vinyl chloride have never been detected at the Site.

Table 1. Project Information

Site Name	Former Prime Cleaners
Site Location/Address	18001 Bothell-Everett Highway
VCP #	NW2571
Sampling Schedule	Quarterly
Sampling Dates (this report)	February 13-14, 2018
Wells Sounded	MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10
Wells Sampled	MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10
Next Sampling Event	May 2018

Groundwater Flow

Ten dedicated groundwater monitoring wells are present on or adjoining the Site (MW-1 through MW-10). We measured depth to groundwater in each well on February 13, 2018. Depth to groundwater was measured in relation to the north side of the PVC casing of each well. Generally, we observed a southerly trend to groundwater flow, consistent with previous sampling events. Relative groundwater elevations measured during previous sampling events and the event discussed in this report are presented in Table 2. A groundwater contour map for the February 2018 sampling event is attached in Appendix A as Figure 1.

Table 2. Groundwater Elevations

Well ID	Relative Casing Elevation (ft.)	Date of Measurement	Depth to Groundwater (ft.)	Relative Groundwater Elevation (ft.)
MW-1	296.31	08-25-2010	25.22	271.09
		05-09-2011	21.18	275.13
		05-23-2012	22.73	273.58
		03-05-2014	23.95	272.36
		01-09-2017	22.85	273.46
		08-17-2017	24.87	271.44
		11-14-2017	24.66	271.65
		02-13-2018	21.65	274.66
MW-2	296.47	88-25-2010	25.58	270.89
		05-09-2011	21.61	274.86
		05-23-2012	22.97	273.50
		03-05-2014	24.28	272.19
		01-09-2017	23.14	273.33
		08-17-2017	25.57	270.90
		11-14-2017	25.15	271.32
		02-13-2018	22.00	274.47
MW-3	296.96	08-25-2010	26.17	270.79
		05-09-2011	22.21	274.75
		05-23-2012	23.49	273.47
		03-05-2014	24.88	272.08
		01-09-2017	23.66	273.30
		08-17-2017	26.10	270.86
		11-14-2017	25.69	271.27
		02-13-2018	22.45	274.51
MW-4	296.56	08-25-2010	25.76	270.80
		05-09-2011	21.77	274.79
		05-23-2012	23.10	273.46
		03-05-2014	24.47	272.09
		01-09-2017	23.21	273.35
		08-17-2017	25.67	270.89
		11-14-2017	25.32	271.24
		02-13-2018	22.10	274.46
MW-5	289.85	08-25-2010	18.71	271.14
		05-09-2011	14.96	274.89
		05-23-2012	16.18	273.67
		03-05-2014	17.49	272.36
		01-09-2017	17.36	272.49
		08-17-2017	18.71	271.14
		11-14-2017	18.51	271.34
		02-13-2018	15.52	274.33

Well ID	Relative Casing Elevation (ft.)	Date of Measurement	Depth to Groundwater (ft.)	Relative Groundwater Elevation (ft.)
MW-6	289.94	08-25-2010	18.91	271.03
		05-09-2011	15.06	274.88
		05-23-2012	16.30	273.64
		03-05-2014	17.54	272.40
		01-09-2017	16.44	273.50
		08-17-2017	18.81	271.13
		11-14-2017	18.71	271.23
		02-13-2018	15.53	274.41
MW-7	289.72	08-25-2010	19.14	270.58
		05-09-2011	15.22	274.50
		05-23-2012	16.41	273.31
		03-05-2014	17.85	271.87
		01-09-2017	16.61	273.11
		08-17-2017	19.11	270.61
		11-14-2017	18.68	271.04
		02-13-2018	15.51	274.21
MW-8	290.56	08-25-2010	Not Installed	
		05-09-2011	16.02	274.54
		05-23-2012	17.21	273.35
		03-05-2014	18.69	271.87
		01-09-2017	17.47	273.09
		08-17-2017	19.91	270.65
		11-14-2017	19.46	271.10
		02-13-2018	16.30	274.26
MW-9	298.90	08-25-2010	Not Installed	
		05-09-2011		
		05-23-2012		
		03-05-2014	26.30	272.60
		01-09-2017	25.10	273.80
		08-17-2017	27.55	271.35
		11-14-2017	27.52	271.38
		02-13-2018	24.35	274.55
MW-10	297.49	08-25-2010	Not Installed	
		05-09-2011		
		05-23-2012		
		03-05-2014	25.19	272.30
		01-12-2017	24.17	273.32
		08-18-2017	26.21	271.28
		11-14-2017	25.91	271.58
		02-13-2018	22.85	274.64

Groundwater Sampling and Analysis

The DPE system was shut down on February 9, 2018 and groundwater was sampled by ZGA on February 13 to February 14, 2018. Each groundwater monitoring well was purged using a portable bladder pump equipped with a disposable bladder and dedicated tubing. The pump was lowered gently into the water column to a depth that corresponded with the highest concentration of PCE observed in that well in soil

during the remedial investigation (ZGA Project No. 1001.22). If no PCE was measured in soil in a well, the pump was set at the mid-point of the screen. Flow rates were maintained at approximately 0.1 to 0.3 liters per minute. During the purging process, groundwater quality parameters including temperature, electrical conductivity (EC), pH, turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured at regular intervals using a Horiba U-22 water-quality meter equipped with a flow cell. Purging at a given well was considered complete when: DO and turbidity were within +/- 10% variance; pH was within +/- 0.1 variance; EC was with +/- 3% variance; and ORP was within +/- 10 mV. All non-disposable pump components were decontaminated after sampling by rinsing with potable water, scrubbing in a solution of Alconox™ and potable water, and a final rinse with distilled water. Purge water and decontamination water were stored in a sealed, labeled 50-gallon drum at the Site and are awaiting classification and off-site disposal.

Groundwater samples were collected after parameter stabilization into laboratory supplied glass 40 mL VOA vials preserved with hydrochloric acid. Sample containers were labeled with the well ID, the project name, the project number, the date, and the time of collection. Sample containers were immediately stored in a chilled cooler and were later transferred to a dedicated refrigerator in our office. Sample containers were transported to Field Environmental Instruments (FEI) in Woodinville in a chilled cooler under chain of custody procedures. FEI functioned as an intermediary to the analytical laboratory: Environmental Science Corporation (ESC), a Washington State accredited laboratory. All samples were analyzed by ESC at their central laboratory, located in Tennessee.

The analytical results are summarized in Table 3, and are compared to cleanup levels defined in the Model Toxics Control Act (WAC 173-340).

Groundwater Sampling Analytical Results (February 2018)

The following results were drawn from the analysis of 10 groundwater samples. The executed chain-of-custody forms and laboratory analytical certificates are provided in Appendix B.

- PCE was detected at concentrations that exceeded the applicable cleanup level (5 µg/L) in three wells: MW-3 (6.78 µg/L), MW-4 (28.5 µg/L), and MW-8 (16.1 µg/L and duplicate 14.7 µg/L).
- PCE was detected at concentrations above the laboratory reporting limit (RDL) but below the applicable cleanup level in five wells: MW-1 (0.300 µg/L), MW-5 (0.220 µg/L), MW-6 (3.21 µg/L), and MW-7 (1.93 µg/L).
- PCE was not detected above the RDL in three wells: MW-2, MW-9, and MW-10.

Chloroform was reported at concentrations of 9.49 µg/L (MW-1) and 1.57 µg/L (MW-7) which exceed the MTCA Method B cleanup level (1.41 µg/L). Chloroform was reported above the RDL but below the cleanup level in MW-3, MW-8, MW-9, and MW-10. Bromodichloromethane was reported at a concentration of 0.527 µg/L in MW-1, which is below the MTCA Method B cleanup level (0.706 µg/L). No other VOC were reported above laboratory RDLS.

Chloroform and bromodichloromethane are disinfection by-products commonly produced during the chlorination of drinking water and wastewater (Ivahnenko and Zogorski, 2006; Centers for Disease Control¹). Potable water to the Site and vicinity is provided by the Alderwood Water and Waste Water District (AWWD). According to the 2016 AWWD Water Quality Report, the average concentration of chloroform and bromodichloromethane measured in the public water supply was 37.2 µg/L and 1.9 µg/L.

¹ <https://www.atsdr.cdc.gov/phs/phs.asp?id=706&tid=127>

Based on these results, the presence of chloroform and bromodichloromethane in groundwater at the Site is likely derived from leaky public water supply piping and irrigation.

Table 3. Groundwater Analytical Results

Monitoring Well	Date	Volatile Organic Compounds (µg/L)			
		PCE	TCE	Cis-1,2-DCE	Trans-1,2-DCE
MW-1	06-17-09	12	ND<1	4.8	ND<1
	08-10-10	ND<1	3.2	1.4	ND<1
	05-10-11	1.3	ND<1	ND<1	ND<1
	05-23-12	ND<2	ND<2	ND<2	ND<2
	03-05-14	ND<2	ND<2	ND<2	ND<2
	01-11-17	0.508	ND<1	ND<1	ND<1
	08-18-17	0.431	ND<1	ND<1	ND<1
	11-15-17	0.231	ND<0.5	ND<0.5	ND<0.5
	02-13-18	0.300	ND<0.5	ND<0.5	ND<0.5
MW-2	06-16-09	ND<1	ND<1	ND<1	ND<1
	08-12-10	ND<1	ND<1	ND<1	ND<1
	05-10-11	ND<1	ND<1	ND<1	ND<1
	05-24-12	ND<2	ND<2	ND<2	ND<2
	03-05-14	ND<2	ND<2	ND<2	ND<2
	01-11-17	ND<1	ND<1	ND<1	ND<1
	08-17-17	ND<1	ND<1	ND<1	ND<1
	11-14-17	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	02-13-18	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-3	06-17-09	6.6	ND<1	ND<1	ND<1
	08-12-10	6.4	ND<1	ND<1	ND<1
	05-10-11	9.3	ND<1	ND<1	ND<1
	05-24-12	15	ND<2	ND<2	ND<2
	03-07-14	5.6	ND<2	ND<2	ND<2
	01-12-17	9.28	ND<1	ND<1	ND<1
	08-21-17	2.81	ND<1	ND<1	ND<1
	11-16-17	4.96	ND<0.5	ND<0.5	ND<0.5
	02-14-18	6.78	ND<0.5	ND<0.5	ND<0.5

Monitoring Well	Date	Volatile Organic Compounds (µg/L)			
		PCE	TCE	Cis-1,2-DCE	Trans-1,2-DCE
MW-4	10-31-07	45	ND<1	ND<1	ND<1
	06-16-09	170	ND<1	ND<1	ND<1
	08-12-10	140	ND<1	ND<1	ND<1
	05-10-11	110	ND<1	ND<1	ND<1
	05-24-12	140	ND<2	ND<2	ND<2
	03-07-14	44	ND<2	ND<2	ND<2
	01-13-17	96.1	ND<1	ND<1	ND<1
	01-13-17 DUP	95.8	ND<1	ND<1	ND<1
	08-21-17	76.5	ND<1	ND<1	ND<1
	11-16-17	50.8	ND<0.5	ND<0.5	ND<0.5
	11-16-17 DUP	56.9	ND<0.5	ND<0.5	ND<0.5
	02-14-18	28.5	ND<0.5	ND<0.5	ND<0.5
	08-10-10	0.61	ND<1	ND<1	ND<1
MW-5	05-09-11	0.60	ND<1	ND<1	ND<1
	03-06-14	ND<2	ND<2	ND<2	ND<2
	01-12-17	ND<1	ND<1	ND<1	ND<1
	08-18-17	0.281	ND<1	ND<1	ND<1
	11-15-17	0.259	ND<0.5	ND<0.5	ND<0.5
	02-13-18	0.220	ND<0.5	ND<0.5	ND<0.5
	08-10-10	ND<1	ND<1	ND<1	ND<1
MW-6	05-09-11	2.2	ND<1	ND<1	ND<1
	03-06-14	4.7	ND<2	ND<2	ND<2
	01-12-17	1.07	ND<1	ND<1	ND<1
	08-21-17	0.674	ND<1	ND<1	ND<1
	11-15-17	2.37	ND<0.5	ND<0.5	ND<0.5
	02-14-18	3.21	ND<0.5	ND<0.5	ND<0.5
	08-10-10	0.55	ND<1	ND<1	ND<1
MW-7	05-09-11	ND<1	ND<1	ND<1	ND<1
	03-06-14	8.0	ND<2	ND<2	ND<2
	01-12-17	0.948	ND<1	ND<1	ND<1
	08-21-17	1.49	ND<1	ND<1	ND<1
	11-15-17	3.8	ND<0.5	ND<0.5	ND<0.5
	02-14-18	1.93	ND<0.5	ND<0.5	ND<0.5
	05-10-11	22	ND<1	ND<1	ND<1
MW-8	05-24-12	36	ND<2	ND<2	ND<2
	03-07-14	13	ND<2	ND<2	ND<2
	01-13-17	26.4	ND<1	ND<1	ND<1
	08-21-17	25.1	ND<1	ND<1	0.250
	11-16-17	19.2	ND<0.5	ND<0.5	ND<0.5
	02-14-18	16.1	ND<0.5	ND<0.5	ND<0.5
	02-14-18 DUP	14.7	ND<0.5	ND<0.5	ND<0.5
MW-9	03-05-14	ND<2	ND<2	ND<2	ND<2
	01-11-17	ND<1	ND<1	ND<1	ND<1
	08-18-17	ND<1	ND<1	ND<1	ND<1
	11-14-17	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	03-06-14	ND<2	ND<2	ND<2	ND<2
	02-13-18	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Monitoring Well	Date	Volatile Organic Compounds (µg/L)			
		PCE	TCE	Cis-1,2-DCE	Trans-1,2-DCE
MW-10	01-12-17	ND<1	ND<1	ND<1	ND<1
	08-18-17	ND<1	ND<1	ND<1	ND<1
	11-14-17	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	06-16-09	ND<1	ND<1	ND<1	ND<1
	02-13-18	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Equipment Blank	08-12-10	ND<1	ND<1	ND<1	ND<1
	01-13-17	ND<1	ND<1	ND<1	ND<1
	11-16-17	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	02-14-18	ND<0.5	ND<0.5	ND<0.5	ND<0.5
DPE Effluent	03-08-17	0.748	ND<1	ND<1	ND<1
	11-12-17	0.286	ND<0.5	ND<0.5	ND<0.5
MTCA Cleanup Level		5	5	16	160

ug/L: micrograms per liter (parts-per-billion); ND<: Not detected above indicated laboratory reporting detection limit; Shaded values exceed MTCA Method A cleanup levels. ^A: Method A cleanup level. ^B: Method B cleanup level. Please refer to Appendix C for the complete set of analytes and analytical results for VOC.

Conclusions

ZGA completed a groundwater monitoring sampling event in February 2018. Historically, PCE has exceeded cleanup levels in MW-3, MW-4 and MW-8. The concentration of PCE fell to a concentration below the cleanup level in MW-3 for the two previous sampling events, but slightly exceeded the cleanup level in the February 2018 sampling event. The concentrations of PCE in MW-4 and MW-8 remain above cleanup levels but appear to be declining.

ZGA will continue to monitor the effectiveness of the DPE system by completing additional groundwater monitoring events on a quarterly basis going forward.

References

Ivahnenko, T. and Zogorski, J.S., 2006, Sources and occurrence of Chloroform and Other Trihalomethanes in Drinking-Water Supply Wells in the United States, 1986-2001, U.S. Geological Survey, Scientific Investigations Report 2006-5015.

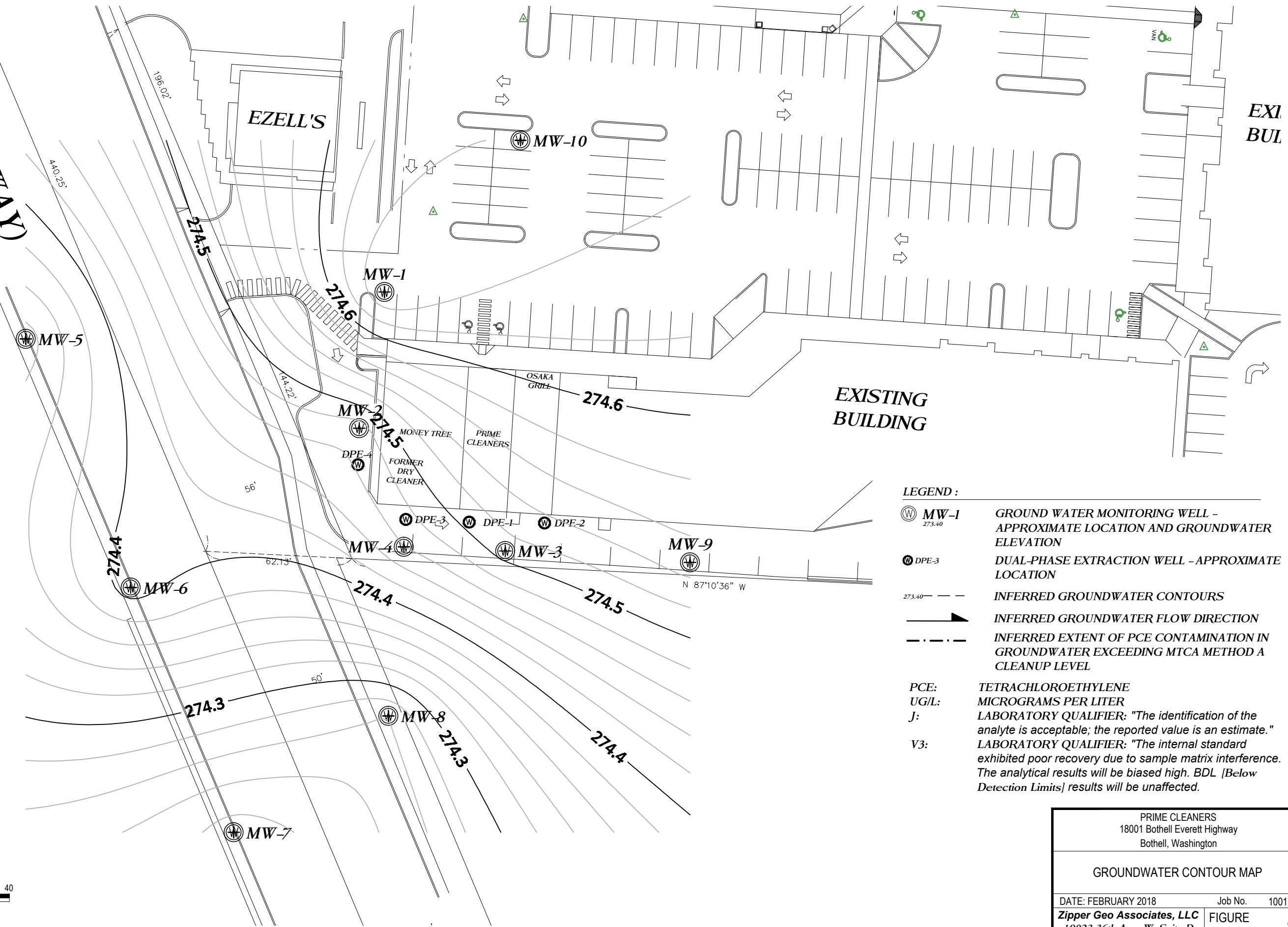
APPENDIX A

Figures

RETT HIGHWAY



40 0 20 40
SCALE IN FEET



Appendix B

Laboratory Report

February 21, 2018

Zipper Geo Associates - Lynnwood, WA

Sample Delivery Group: L971022
Samples Received: 02/16/2018
Project Number: 1001.25
Description: Prime Cleaners

Report To: Jon Einarsen
19019 36th Ave. W.
Ste. E
Lynnwood, WA 98036

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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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-1 L971022-01 GW		Collected by Evelyn Conrado	Collected date/time 02/13/18 13:30	Received date/time 02/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1074633	1	02/17/18 02:16	02/17/18 02:16
				LRL
MW-2 L971022-02 GW		Collected by Evelyn Conrado	Collected date/time 02/13/18 12:10	Received date/time 02/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1074633	1	02/17/18 02:38	02/17/18 02:38
				LRL
MW-3 L971022-03 GW		Collected by Evelyn Conrado	Collected date/time 02/14/18 12:15	Received date/time 02/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1074633	1	02/17/18 02:59	02/17/18 02:59
				LRL
MW-4 L971022-04 GW		Collected by Evelyn Conrado	Collected date/time 02/14/18 15:15	Received date/time 02/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1074633	1	02/17/18 03:21	02/17/18 03:21
				LRL
MW-5 L971022-05 GW		Collected by Evelyn Conrado	Collected date/time 02/13/18 14:50	Received date/time 02/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1074633	1	02/17/18 03:43	02/17/18 03:43
				LRL
MW-6 L971022-06 GW		Collected by Evelyn Conrado	Collected date/time 02/14/18 08:55	Received date/time 02/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1074633	1	02/17/18 04:04	02/17/18 04:04
				LRL
MW-7 L971022-07 GW		Collected by Evelyn Conrado	Collected date/time 02/14/18 10:40	Received date/time 02/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1074633	1	02/17/18 04:26	02/17/18 04:26
				LRL
MW-8 L971022-08 GW		Collected by Evelyn Conrado	Collected date/time 02/14/18 13:35	Received date/time 02/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1074633	1	02/17/18 04:47	02/17/18 04:47
				LRL

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

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



			Collected by Evelyn Conrado	Collected date/time 02/13/18 08:57	Received date/time 02/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1074633	1	02/17/18 05:09	02/17/18 05:09	LRL
			Collected by Evelyn Conrado	Collected date/time 02/13/18 10:40	Received date/time 02/16/18 08:45
MW-10 L971022-10 GW					
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1074633	1	02/17/18 05:31	02/17/18 05:31	LRL
			Collected by Evelyn Conrado	Collected date/time 02/14/18 00:00	Received date/time 02/16/18 08:45
DUPLICATE L971022-11 GW					
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1074633	1	02/17/18 06:19	02/17/18 06:19	LRL
			Collected by Evelyn Conrado	Collected date/time 02/14/18 14:14	Received date/time 02/16/18 08:45
EQUIPMENT BLANK L971022-12 GW					
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1074633	1	02/17/18 06:40	02/17/18 06:40	LRL

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



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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 GI
- ⁸ AI
- ⁹ SC



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U		1.05	25.0	1	02/17/2018 02:16	WG1074633	¹ Cp
Acrylonitrile	U		0.873	5.00	1	02/17/2018 02:16	WG1074633	² Tc
Benzene	U		0.0896	0.500	1	02/17/2018 02:16	WG1074633	³ Ss
Bromobenzene	U		0.133	0.500	1	02/17/2018 02:16	WG1074633	⁴ Cn
Bromodichloromethane	0.527		0.0800	0.500	1	02/17/2018 02:16	WG1074633	⁵ Sr
Bromoform	U		0.145	0.500	1	02/17/2018 02:16	WG1074633	⁶ Qc
Bromomethane	U		0.157	2.50	1	02/17/2018 02:16	WG1074633	⁷ Gl
n-Butylbenzene	U		0.143	0.500	1	02/17/2018 02:16	WG1074633	⁸ Al
sec-Butylbenzene	U		0.134	0.500	1	02/17/2018 02:16	WG1074633	⁹ Sc
tert-Butylbenzene	U		0.183	0.500	1	02/17/2018 02:16	WG1074633	
Carbon disulfide	U	<u>J0</u>	0.101	0.500	1	02/17/2018 02:16	WG1074633	
Carbon tetrachloride	U		0.159	0.500	1	02/17/2018 02:16	WG1074633	
Chlorobenzene	U		0.140	0.500	1	02/17/2018 02:16	WG1074633	
Chlorodibromomethane	U		0.128	0.500	1	02/17/2018 02:16	WG1074633	
Chloroethane	U		0.141	2.50	1	02/17/2018 02:16	WG1074633	
Chloroform	9.49		0.0860	0.500	1	02/17/2018 02:16	WG1074633	
Chloromethane	U		0.153	1.25	1	02/17/2018 02:16	WG1074633	
2-Chlorotoluene	U		0.111	0.500	1	02/17/2018 02:16	WG1074633	
4-Chlorotoluene	U		0.0972	0.500	1	02/17/2018 02:16	WG1074633	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/17/2018 02:16	WG1074633	
1,2-Dibromoethane	U		0.193	0.500	1	02/17/2018 02:16	WG1074633	
Dibromomethane	U		0.117	0.500	1	02/17/2018 02:16	WG1074633	
1,2-Dichlorobenzene	U		0.101	0.500	1	02/17/2018 02:16	WG1074633	
1,3-Dichlorobenzene	U		0.130	0.500	1	02/17/2018 02:16	WG1074633	
1,4-Dichlorobenzene	U		0.121	0.500	1	02/17/2018 02:16	WG1074633	
Dichlorodifluoromethane	U		0.127	2.50	1	02/17/2018 02:16	WG1074633	
1,1-Dichloroethane	U		0.114	0.500	1	02/17/2018 02:16	WG1074633	
1,2-Dichloroethane	U		0.108	0.500	1	02/17/2018 02:16	WG1074633	
1,1-Dichloroethene	U		0.188	0.500	1	02/17/2018 02:16	WG1074633	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/17/2018 02:16	WG1074633	
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/17/2018 02:16	WG1074633	
1,2-Dichloropropane	U		0.190	0.500	1	02/17/2018 02:16	WG1074633	
1,1-Dichloropropene	U		0.128	0.500	1	02/17/2018 02:16	WG1074633	
1,3-Dichloropropane	U		0.147	1.00	1	02/17/2018 02:16	WG1074633	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/17/2018 02:16	WG1074633	
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/17/2018 02:16	WG1074633	
trans-1,4-Dichloro-2-butene	U	<u>J0</u>	0.257	5.00	1	02/17/2018 02:16	WG1074633	
2,2-Dichloropropane	U		0.0929	0.500	1	02/17/2018 02:16	WG1074633	
Di-isopropyl ether	U		0.0924	0.500	1	02/17/2018 02:16	WG1074633	
Ethylbenzene	U		0.158	0.500	1	02/17/2018 02:16	WG1074633	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/17/2018 02:16	WG1074633	
2-Hexanone	U		0.757	5.00	1	02/17/2018 02:16	WG1074633	
n-Hexane	U		0.305	5.00	1	02/17/2018 02:16	WG1074633	
Iodomethane	U		0.377	10.0	1	02/17/2018 02:16	WG1074633	
Isopropylbenzene	U		0.126	0.500	1	02/17/2018 02:16	WG1074633	
p-Isopropyltoluene	U		0.138	0.500	1	02/17/2018 02:16	WG1074633	
2-Butanone (MEK)	U		1.28	5.00	1	02/17/2018 02:16	WG1074633	
Methylene Chloride	U		1.07	2.50	1	02/17/2018 02:16	WG1074633	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/17/2018 02:16	WG1074633	
Methyl tert-butyl ether	U		0.102	0.500	1	02/17/2018 02:16	WG1074633	
Naphthalene	U		0.174	2.50	1	02/17/2018 02:16	WG1074633	
n-Propylbenzene	U		0.162	0.500	1	02/17/2018 02:16	WG1074633	
Styrene	U		0.117	0.500	1	02/17/2018 02:16	WG1074633	
1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/17/2018 02:16	WG1074633	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/17/2018 02:16	WG1074633	



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/17/2018 02:16	WG1074633	¹ Cp
Tetrachloroethene	0.300	J	0.199	0.500	1	02/17/2018 02:16	WG1074633	² Tc
Toluene	U		0.412	0.500	1	02/17/2018 02:16	WG1074633	³ Ss
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/17/2018 02:16	WG1074633	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/17/2018 02:16	WG1074633	⁴ Cn
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/17/2018 02:16	WG1074633	
1,1,2-Trichloroethane	U		0.186	0.500	1	02/17/2018 02:16	WG1074633	
Trichloroethene	U		0.153	0.500	1	02/17/2018 02:16	WG1074633	
Trichlorofluoromethane	U		0.130	2.50	1	02/17/2018 02:16	WG1074633	
1,2,3-Trichloropropane	U		0.247	2.50	1	02/17/2018 02:16	WG1074633	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/17/2018 02:16	WG1074633	⁵ Sr
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/17/2018 02:16	WG1074633	⁶ Qc
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/17/2018 02:16	WG1074633	
Vinyl acetate	U		0.645	5.00	1	02/17/2018 02:16	WG1074633	⁷ Gl
Vinyl chloride	U		0.118	0.500	1	02/17/2018 02:16	WG1074633	
Xylenes, Total	U		0.316	1.50	1	02/17/2018 02:16	WG1074633	⁸ Al
(S) Toluene-d8	107			80.0-120		02/17/2018 02:16	WG1074633	
(S) Dibromofluoromethane	86.2			76.0-123		02/17/2018 02:16	WG1074633	
(S) 4-Bromofluorobenzene	102			80.0-120		02/17/2018 02:16	WG1074633	⁹ Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U		1.05	25.0	1	02/17/2018 02:38	WG1074633	¹ Cp
Acrylonitrile	U		0.873	5.00	1	02/17/2018 02:38	WG1074633	² Tc
Benzene	U		0.0896	0.500	1	02/17/2018 02:38	WG1074633	³ Ss
Bromobenzene	U		0.133	0.500	1	02/17/2018 02:38	WG1074633	⁴ Cn
Bromodichloromethane	U		0.0800	0.500	1	02/17/2018 02:38	WG1074633	⁵ Sr
Bromoform	U		0.145	0.500	1	02/17/2018 02:38	WG1074633	⁶ Qc
Bromomethane	U		0.157	2.50	1	02/17/2018 02:38	WG1074633	⁷ Gl
n-Butylbenzene	U		0.143	0.500	1	02/17/2018 02:38	WG1074633	⁸ Al
sec-Butylbenzene	U		0.134	0.500	1	02/17/2018 02:38	WG1074633	⁹ Sc
tert-Butylbenzene	U		0.183	0.500	1	02/17/2018 02:38	WG1074633	
Carbon disulfide	U	<u>J0</u>	0.101	0.500	1	02/17/2018 02:38	WG1074633	
Carbon tetrachloride	U		0.159	0.500	1	02/17/2018 02:38	WG1074633	
Chlorobenzene	U		0.140	0.500	1	02/17/2018 02:38	WG1074633	
Chlorodibromomethane	U		0.128	0.500	1	02/17/2018 02:38	WG1074633	
Chloroethane	U		0.141	2.50	1	02/17/2018 02:38	WG1074633	
Chloroform	U		0.0860	0.500	1	02/17/2018 02:38	WG1074633	
Chloromethane	U		0.153	1.25	1	02/17/2018 02:38	WG1074633	
2-Chlorotoluene	U		0.111	0.500	1	02/17/2018 02:38	WG1074633	
4-Chlorotoluene	U		0.0972	0.500	1	02/17/2018 02:38	WG1074633	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/17/2018 02:38	WG1074633	
1,2-Dibromoethane	U		0.193	0.500	1	02/17/2018 02:38	WG1074633	
Dibromomethane	U		0.117	0.500	1	02/17/2018 02:38	WG1074633	
1,2-Dichlorobenzene	U		0.101	0.500	1	02/17/2018 02:38	WG1074633	
1,3-Dichlorobenzene	U		0.130	0.500	1	02/17/2018 02:38	WG1074633	
1,4-Dichlorobenzene	U		0.121	0.500	1	02/17/2018 02:38	WG1074633	
Dichlorodifluoromethane	U		0.127	2.50	1	02/17/2018 02:38	WG1074633	
1,1-Dichloroethane	U		0.114	0.500	1	02/17/2018 02:38	WG1074633	
1,2-Dichloroethane	U		0.108	0.500	1	02/17/2018 02:38	WG1074633	
1,1-Dichloroethene	U		0.188	0.500	1	02/17/2018 02:38	WG1074633	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/17/2018 02:38	WG1074633	
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/17/2018 02:38	WG1074633	
1,2-Dichloropropane	U		0.190	0.500	1	02/17/2018 02:38	WG1074633	
1,1-Dichloropropene	U		0.128	0.500	1	02/17/2018 02:38	WG1074633	
1,3-Dichloropropane	U		0.147	1.00	1	02/17/2018 02:38	WG1074633	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/17/2018 02:38	WG1074633	
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/17/2018 02:38	WG1074633	
trans-1,4-Dichloro-2-butene	U	<u>J0</u>	0.257	5.00	1	02/17/2018 02:38	WG1074633	
2,2-Dichloropropane	U		0.0929	0.500	1	02/17/2018 02:38	WG1074633	
Di-isopropyl ether	U		0.0924	0.500	1	02/17/2018 02:38	WG1074633	
Ethylbenzene	U		0.158	0.500	1	02/17/2018 02:38	WG1074633	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/17/2018 02:38	WG1074633	
2-Hexanone	U		0.757	5.00	1	02/17/2018 02:38	WG1074633	
n-Hexane	U		0.305	5.00	1	02/17/2018 02:38	WG1074633	
Iodomethane	U		0.377	10.0	1	02/17/2018 02:38	WG1074633	
Isopropylbenzene	U		0.126	0.500	1	02/17/2018 02:38	WG1074633	
p-Isopropyltoluene	U		0.138	0.500	1	02/17/2018 02:38	WG1074633	
2-Butanone (MEK)	U		1.28	5.00	1	02/17/2018 02:38	WG1074633	
Methylene Chloride	U		1.07	2.50	1	02/17/2018 02:38	WG1074633	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/17/2018 02:38	WG1074633	
Methyl tert-butyl ether	U		0.102	0.500	1	02/17/2018 02:38	WG1074633	
Naphthalene	U		0.174	2.50	1	02/17/2018 02:38	WG1074633	
n-Propylbenzene	U		0.162	0.500	1	02/17/2018 02:38	WG1074633	
Styrene	U		0.117	0.500	1	02/17/2018 02:38	WG1074633	
1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/17/2018 02:38	WG1074633	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/17/2018 02:38	WG1074633	



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/17/2018 02:38	WG1074633	¹ Cp
Tetrachloroethene	U		0.199	0.500	1	02/17/2018 02:38	WG1074633	² Tc
Toluene	U		0.412	0.500	1	02/17/2018 02:38	WG1074633	³ Ss
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/17/2018 02:38	WG1074633	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/17/2018 02:38	WG1074633	⁴ Cn
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/17/2018 02:38	WG1074633	
1,1,2-Trichloroethane	U		0.186	0.500	1	02/17/2018 02:38	WG1074633	
Trichloroethene	U		0.153	0.500	1	02/17/2018 02:38	WG1074633	
Trichlorofluoromethane	U		0.130	2.50	1	02/17/2018 02:38	WG1074633	
1,2,3-Trichloropropane	U		0.247	2.50	1	02/17/2018 02:38	WG1074633	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/17/2018 02:38	WG1074633	⁵ Sr
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/17/2018 02:38	WG1074633	⁶ Qc
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/17/2018 02:38	WG1074633	
Vinyl acetate	U		0.645	5.00	1	02/17/2018 02:38	WG1074633	⁷ Gl
Vinyl chloride	U		0.118	0.500	1	02/17/2018 02:38	WG1074633	
Xylenes, Total	U		0.316	1.50	1	02/17/2018 02:38	WG1074633	⁸ Al
(S) Toluene-d8	107			80.0-120		02/17/2018 02:38	WG1074633	
(S) Dibromofluoromethane	83.5			76.0-123		02/17/2018 02:38	WG1074633	
(S) 4-Bromofluorobenzene	103			80.0-120		02/17/2018 02:38	WG1074633	⁹ Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U		1.05	25.0	1	02/17/2018 02:59	WG1074633	¹ Cp
Acrylonitrile	U		0.873	5.00	1	02/17/2018 02:59	WG1074633	² Tc
Benzene	U		0.0896	0.500	1	02/17/2018 02:59	WG1074633	³ Ss
Bromobenzene	U		0.133	0.500	1	02/17/2018 02:59	WG1074633	⁴ Cn
Bromodichloromethane	U		0.0800	0.500	1	02/17/2018 02:59	WG1074633	⁵ Sr
Bromoform	U		0.145	0.500	1	02/17/2018 02:59	WG1074633	⁶ Qc
Bromomethane	U		0.157	2.50	1	02/17/2018 02:59	WG1074633	⁷ Gl
n-Butylbenzene	U		0.143	0.500	1	02/17/2018 02:59	WG1074633	⁸ Al
sec-Butylbenzene	U		0.134	0.500	1	02/17/2018 02:59	WG1074633	⁹ Sc
tert-Butylbenzene	U		0.183	0.500	1	02/17/2018 02:59	WG1074633	
Carbon disulfide	U	<u>J0</u>	0.101	0.500	1	02/17/2018 02:59	WG1074633	
Carbon tetrachloride	U		0.159	0.500	1	02/17/2018 02:59	WG1074633	
Chlorobenzene	U		0.140	0.500	1	02/17/2018 02:59	WG1074633	
Chlorodibromomethane	U		0.128	0.500	1	02/17/2018 02:59	WG1074633	
Chloroethane	U		0.141	2.50	1	02/17/2018 02:59	WG1074633	
Chloroform	0.214	<u>J</u>	0.0860	0.500	1	02/17/2018 02:59	WG1074633	
Chloromethane	U		0.153	1.25	1	02/17/2018 02:59	WG1074633	
2-Chlorotoluene	U		0.111	0.500	1	02/17/2018 02:59	WG1074633	
4-Chlorotoluene	U		0.0972	0.500	1	02/17/2018 02:59	WG1074633	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/17/2018 02:59	WG1074633	
1,2-Dibromoethane	U		0.193	0.500	1	02/17/2018 02:59	WG1074633	
Dibromomethane	U		0.117	0.500	1	02/17/2018 02:59	WG1074633	
1,2-Dichlorobenzene	U		0.101	0.500	1	02/17/2018 02:59	WG1074633	
1,3-Dichlorobenzene	U		0.130	0.500	1	02/17/2018 02:59	WG1074633	
1,4-Dichlorobenzene	U		0.121	0.500	1	02/17/2018 02:59	WG1074633	
Dichlorodifluoromethane	U		0.127	2.50	1	02/17/2018 02:59	WG1074633	
1,1-Dichloroethane	U		0.114	0.500	1	02/17/2018 02:59	WG1074633	
1,2-Dichloroethane	U		0.108	0.500	1	02/17/2018 02:59	WG1074633	
1,1-Dichloroethene	U		0.188	0.500	1	02/17/2018 02:59	WG1074633	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/17/2018 02:59	WG1074633	
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/17/2018 02:59	WG1074633	
1,2-Dichloropropane	U		0.190	0.500	1	02/17/2018 02:59	WG1074633	
1,1-Dichloropropene	U		0.128	0.500	1	02/17/2018 02:59	WG1074633	
1,3-Dichloropropane	U		0.147	1.00	1	02/17/2018 02:59	WG1074633	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/17/2018 02:59	WG1074633	
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/17/2018 02:59	WG1074633	
trans-1,4-Dichloro-2-butene	U	<u>J0</u>	0.257	5.00	1	02/17/2018 02:59	WG1074633	
2,2-Dichloropropane	U		0.0929	0.500	1	02/17/2018 02:59	WG1074633	
Di-isopropyl ether	U		0.0924	0.500	1	02/17/2018 02:59	WG1074633	
Ethylbenzene	U		0.158	0.500	1	02/17/2018 02:59	WG1074633	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/17/2018 02:59	WG1074633	
2-Hexanone	U		0.757	5.00	1	02/17/2018 02:59	WG1074633	
n-Hexane	U		0.305	5.00	1	02/17/2018 02:59	WG1074633	
Iodomethane	U		0.377	10.0	1	02/17/2018 02:59	WG1074633	
Isopropylbenzene	U		0.126	0.500	1	02/17/2018 02:59	WG1074633	
p-Isopropyltoluene	U		0.138	0.500	1	02/17/2018 02:59	WG1074633	
2-Butanone (MEK)	U		1.28	5.00	1	02/17/2018 02:59	WG1074633	
Methylene Chloride	U		1.07	2.50	1	02/17/2018 02:59	WG1074633	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/17/2018 02:59	WG1074633	
Methyl tert-butyl ether	U		0.102	0.500	1	02/17/2018 02:59	WG1074633	
Naphthalene	U		0.174	2.50	1	02/17/2018 02:59	WG1074633	
n-Propylbenzene	U		0.162	0.500	1	02/17/2018 02:59	WG1074633	
Styrene	U		0.117	0.500	1	02/17/2018 02:59	WG1074633	
1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/17/2018 02:59	WG1074633	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/17/2018 02:59	WG1074633	



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/17/2018 02:59	WG1074633	¹ Cp
Tetrachloroethene	6.78		0.199	0.500	1	02/17/2018 02:59	WG1074633	² Tc
Toluene	U		0.412	0.500	1	02/17/2018 02:59	WG1074633	³ Ss
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/17/2018 02:59	WG1074633	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/17/2018 02:59	WG1074633	⁴ Cn
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/17/2018 02:59	WG1074633	
1,1,2-Trichloroethane	U		0.186	0.500	1	02/17/2018 02:59	WG1074633	
Trichloroethene	U		0.153	0.500	1	02/17/2018 02:59	WG1074633	
Trichlorofluoromethane	U		0.130	2.50	1	02/17/2018 02:59	WG1074633	
1,2,3-Trichloropropane	U		0.247	2.50	1	02/17/2018 02:59	WG1074633	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/17/2018 02:59	WG1074633	⁵ Sr
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/17/2018 02:59	WG1074633	⁶ Qc
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/17/2018 02:59	WG1074633	
Vinyl acetate	U		0.645	5.00	1	02/17/2018 02:59	WG1074633	⁷ Gl
Vinyl chloride	U		0.118	0.500	1	02/17/2018 02:59	WG1074633	
Xylenes, Total	U		0.316	1.50	1	02/17/2018 02:59	WG1074633	⁸ Al
(S) Toluene-d8	109			80.0-120		02/17/2018 02:59	WG1074633	
(S) Dibromofluoromethane	81.4			76.0-123		02/17/2018 02:59	WG1074633	
(S) 4-Bromofluorobenzene	104			80.0-120		02/17/2018 02:59	WG1074633	⁹ Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U		1.05	25.0	1	02/17/2018 03:21	WG1074633	¹ Cp
Acrylonitrile	U		0.873	5.00	1	02/17/2018 03:21	WG1074633	² Tc
Benzene	U		0.0896	0.500	1	02/17/2018 03:21	WG1074633	³ Ss
Bromobenzene	U		0.133	0.500	1	02/17/2018 03:21	WG1074633	⁴ Cn
Bromodichloromethane	U		0.0800	0.500	1	02/17/2018 03:21	WG1074633	⁵ Sr
Bromoform	U		0.145	0.500	1	02/17/2018 03:21	WG1074633	⁶ Qc
Bromomethane	U		0.157	2.50	1	02/17/2018 03:21	WG1074633	⁷ Gl
n-Butylbenzene	U		0.143	0.500	1	02/17/2018 03:21	WG1074633	⁸ Al
sec-Butylbenzene	U		0.134	0.500	1	02/17/2018 03:21	WG1074633	⁹ Sc
tert-Butylbenzene	U		0.183	0.500	1	02/17/2018 03:21	WG1074633	
Carbon disulfide	U	<u>J0</u>	0.101	0.500	1	02/17/2018 03:21	WG1074633	
Carbon tetrachloride	U		0.159	0.500	1	02/17/2018 03:21	WG1074633	
Chlorobenzene	U		0.140	0.500	1	02/17/2018 03:21	WG1074633	
Chlorodibromomethane	U		0.128	0.500	1	02/17/2018 03:21	WG1074633	
Chloroethane	U		0.141	2.50	1	02/17/2018 03:21	WG1074633	
Chloroform	U		0.0860	0.500	1	02/17/2018 03:21	WG1074633	
Chloromethane	U		0.153	1.25	1	02/17/2018 03:21	WG1074633	
2-Chlorotoluene	U		0.111	0.500	1	02/17/2018 03:21	WG1074633	
4-Chlorotoluene	U		0.0972	0.500	1	02/17/2018 03:21	WG1074633	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/17/2018 03:21	WG1074633	
1,2-Dibromoethane	U		0.193	0.500	1	02/17/2018 03:21	WG1074633	
Dibromomethane	U		0.117	0.500	1	02/17/2018 03:21	WG1074633	
1,2-Dichlorobenzene	U		0.101	0.500	1	02/17/2018 03:21	WG1074633	
1,3-Dichlorobenzene	U		0.130	0.500	1	02/17/2018 03:21	WG1074633	
1,4-Dichlorobenzene	U		0.121	0.500	1	02/17/2018 03:21	WG1074633	
Dichlorodifluoromethane	U		0.127	2.50	1	02/17/2018 03:21	WG1074633	
1,1-Dichloroethane	U		0.114	0.500	1	02/17/2018 03:21	WG1074633	
1,2-Dichloroethane	U		0.108	0.500	1	02/17/2018 03:21	WG1074633	
1,1-Dichloroethene	U		0.188	0.500	1	02/17/2018 03:21	WG1074633	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/17/2018 03:21	WG1074633	
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/17/2018 03:21	WG1074633	
1,2-Dichloropropane	U		0.190	0.500	1	02/17/2018 03:21	WG1074633	
1,1-Dichloropropene	U		0.128	0.500	1	02/17/2018 03:21	WG1074633	
1,3-Dichloropropane	U		0.147	1.00	1	02/17/2018 03:21	WG1074633	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/17/2018 03:21	WG1074633	
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/17/2018 03:21	WG1074633	
trans-1,4-Dichloro-2-butene	U	<u>J0</u>	0.257	5.00	1	02/17/2018 03:21	WG1074633	
2,2-Dichloropropane	U		0.0929	0.500	1	02/17/2018 03:21	WG1074633	
Di-isopropyl ether	U		0.0924	0.500	1	02/17/2018 03:21	WG1074633	
Ethylbenzene	U		0.158	0.500	1	02/17/2018 03:21	WG1074633	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/17/2018 03:21	WG1074633	
2-Hexanone	U		0.757	5.00	1	02/17/2018 03:21	WG1074633	
n-Hexane	U		0.305	5.00	1	02/17/2018 03:21	WG1074633	
Iodomethane	U		0.377	10.0	1	02/17/2018 03:21	WG1074633	
Isopropylbenzene	U		0.126	0.500	1	02/17/2018 03:21	WG1074633	
p-Isopropyltoluene	U		0.138	0.500	1	02/17/2018 03:21	WG1074633	
2-Butanone (MEK)	U		1.28	5.00	1	02/17/2018 03:21	WG1074633	
Methylene Chloride	U		1.07	2.50	1	02/17/2018 03:21	WG1074633	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/17/2018 03:21	WG1074633	
Methyl tert-butyl ether	U		0.102	0.500	1	02/17/2018 03:21	WG1074633	
Naphthalene	U		0.174	2.50	1	02/17/2018 03:21	WG1074633	
n-Propylbenzene	U		0.162	0.500	1	02/17/2018 03:21	WG1074633	
Styrene	U		0.117	0.500	1	02/17/2018 03:21	WG1074633	
1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/17/2018 03:21	WG1074633	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/17/2018 03:21	WG1074633	



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/17/2018 03:21	WG1074633	¹ Cp
Tetrachloroethene	28.5		0.199	0.500	1	02/17/2018 03:21	WG1074633	² Tc
Toluene	U		0.412	0.500	1	02/17/2018 03:21	WG1074633	³ Ss
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/17/2018 03:21	WG1074633	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/17/2018 03:21	WG1074633	⁴ Cn
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/17/2018 03:21	WG1074633	
1,1,2-Trichloroethane	U		0.186	0.500	1	02/17/2018 03:21	WG1074633	
Trichloroethene	U		0.153	0.500	1	02/17/2018 03:21	WG1074633	
Trichlorofluoromethane	U		0.130	2.50	1	02/17/2018 03:21	WG1074633	
1,2,3-Trichloropropane	U		0.247	2.50	1	02/17/2018 03:21	WG1074633	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/17/2018 03:21	WG1074633	⁵ Sr
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/17/2018 03:21	WG1074633	⁶ Qc
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/17/2018 03:21	WG1074633	
Vinyl acetate	U		0.645	5.00	1	02/17/2018 03:21	WG1074633	⁷ Gl
Vinyl chloride	U		0.118	0.500	1	02/17/2018 03:21	WG1074633	
Xylenes, Total	U		0.316	1.50	1	02/17/2018 03:21	WG1074633	⁸ Al
(S) Toluene-d8	108			80.0-120		02/17/2018 03:21	WG1074633	
(S) Dibromofluoromethane	87.0			76.0-123		02/17/2018 03:21	WG1074633	
(S) 4-Bromofluorobenzene	104			80.0-120		02/17/2018 03:21	WG1074633	⁹ Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U		1.05	25.0	1	02/17/2018 03:43	WG1074633	¹ Cp
Acrylonitrile	U		0.873	5.00	1	02/17/2018 03:43	WG1074633	² Tc
Benzene	U		0.0896	0.500	1	02/17/2018 03:43	WG1074633	³ Ss
Bromobenzene	U		0.133	0.500	1	02/17/2018 03:43	WG1074633	⁴ Cn
Bromodichloromethane	U		0.0800	0.500	1	02/17/2018 03:43	WG1074633	⁵ Sr
Bromoform	U		0.145	0.500	1	02/17/2018 03:43	WG1074633	⁶ Qc
Bromomethane	U		0.157	2.50	1	02/17/2018 03:43	WG1074633	⁷ Gl
n-Butylbenzene	U		0.143	0.500	1	02/17/2018 03:43	WG1074633	⁸ Al
sec-Butylbenzene	U		0.134	0.500	1	02/17/2018 03:43	WG1074633	⁹ Sc
tert-Butylbenzene	U		0.183	0.500	1	02/17/2018 03:43	WG1074633	
Carbon disulfide	U	<u>J0</u>	0.101	0.500	1	02/17/2018 03:43	WG1074633	
Carbon tetrachloride	U		0.159	0.500	1	02/17/2018 03:43	WG1074633	
Chlorobenzene	U		0.140	0.500	1	02/17/2018 03:43	WG1074633	
Chlorodibromomethane	U		0.128	0.500	1	02/17/2018 03:43	WG1074633	
Chloroethane	U		0.141	2.50	1	02/17/2018 03:43	WG1074633	
Chloroform	U		0.0860	0.500	1	02/17/2018 03:43	WG1074633	
Chloromethane	U		0.153	1.25	1	02/17/2018 03:43	WG1074633	
2-Chlorotoluene	U		0.111	0.500	1	02/17/2018 03:43	WG1074633	
4-Chlorotoluene	U		0.0972	0.500	1	02/17/2018 03:43	WG1074633	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/17/2018 03:43	WG1074633	
1,2-Dibromoethane	U		0.193	0.500	1	02/17/2018 03:43	WG1074633	
Dibromomethane	U		0.117	0.500	1	02/17/2018 03:43	WG1074633	
1,2-Dichlorobenzene	U		0.101	0.500	1	02/17/2018 03:43	WG1074633	
1,3-Dichlorobenzene	U		0.130	0.500	1	02/17/2018 03:43	WG1074633	
1,4-Dichlorobenzene	U		0.121	0.500	1	02/17/2018 03:43	WG1074633	
Dichlorodifluoromethane	U		0.127	2.50	1	02/17/2018 03:43	WG1074633	
1,1-Dichloroethane	U		0.114	0.500	1	02/17/2018 03:43	WG1074633	
1,2-Dichloroethane	U		0.108	0.500	1	02/17/2018 03:43	WG1074633	
1,1-Dichloroethene	U		0.188	0.500	1	02/17/2018 03:43	WG1074633	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/17/2018 03:43	WG1074633	
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/17/2018 03:43	WG1074633	
1,2-Dichloropropane	U		0.190	0.500	1	02/17/2018 03:43	WG1074633	
1,1-Dichloropropene	U		0.128	0.500	1	02/17/2018 03:43	WG1074633	
1,3-Dichloropropane	U		0.147	1.00	1	02/17/2018 03:43	WG1074633	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/17/2018 03:43	WG1074633	
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/17/2018 03:43	WG1074633	
trans-1,4-Dichloro-2-butene	U	<u>J0</u>	0.257	5.00	1	02/17/2018 03:43	WG1074633	
2,2-Dichloropropane	U		0.0929	0.500	1	02/17/2018 03:43	WG1074633	
Di-isopropyl ether	U		0.0924	0.500	1	02/17/2018 03:43	WG1074633	
Ethylbenzene	U		0.158	0.500	1	02/17/2018 03:43	WG1074633	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/17/2018 03:43	WG1074633	
2-Hexanone	U		0.757	5.00	1	02/17/2018 03:43	WG1074633	
n-Hexane	U		0.305	5.00	1	02/17/2018 03:43	WG1074633	
Iodomethane	U		0.377	10.0	1	02/17/2018 03:43	WG1074633	
Isopropylbenzene	U		0.126	0.500	1	02/17/2018 03:43	WG1074633	
p-Isopropyltoluene	U		0.138	0.500	1	02/17/2018 03:43	WG1074633	
2-Butanone (MEK)	U		1.28	5.00	1	02/17/2018 03:43	WG1074633	
Methylene Chloride	U		1.07	2.50	1	02/17/2018 03:43	WG1074633	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/17/2018 03:43	WG1074633	
Methyl tert-butyl ether	U		0.102	0.500	1	02/17/2018 03:43	WG1074633	
Naphthalene	U		0.174	2.50	1	02/17/2018 03:43	WG1074633	
n-Propylbenzene	U		0.162	0.500	1	02/17/2018 03:43	WG1074633	
Styrene	U		0.117	0.500	1	02/17/2018 03:43	WG1074633	
1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/17/2018 03:43	WG1074633	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/17/2018 03:43	WG1074633	



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/17/2018 03:43	WG1074633	¹ Cp
Tetrachloroethene	0.220	J	0.199	0.500	1	02/17/2018 03:43	WG1074633	² Tc
Toluene	U		0.412	0.500	1	02/17/2018 03:43	WG1074633	³ Ss
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/17/2018 03:43	WG1074633	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/17/2018 03:43	WG1074633	⁴ Cn
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/17/2018 03:43	WG1074633	
1,1,2-Trichloroethane	U		0.186	0.500	1	02/17/2018 03:43	WG1074633	
Trichloroethene	U		0.153	0.500	1	02/17/2018 03:43	WG1074633	
Trichlorofluoromethane	U		0.130	2.50	1	02/17/2018 03:43	WG1074633	
1,2,3-Trichloropropane	U		0.247	2.50	1	02/17/2018 03:43	WG1074633	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/17/2018 03:43	WG1074633	⁵ Sr
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/17/2018 03:43	WG1074633	⁶ Qc
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/17/2018 03:43	WG1074633	
Vinyl acetate	U		0.645	5.00	1	02/17/2018 03:43	WG1074633	⁷ Gl
Vinyl chloride	U		0.118	0.500	1	02/17/2018 03:43	WG1074633	
Xylenes, Total	U		0.316	1.50	1	02/17/2018 03:43	WG1074633	⁸ Al
(S) Toluene-d8	107			80.0-120		02/17/2018 03:43	WG1074633	
(S) Dibromofluoromethane	85.8			76.0-123		02/17/2018 03:43	WG1074633	
(S) 4-Bromofluorobenzene	102			80.0-120		02/17/2018 03:43	WG1074633	⁹ Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U		1.05	25.0	1	02/17/2018 04:04	WG1074633	¹ Cp
Acrylonitrile	U		0.873	5.00	1	02/17/2018 04:04	WG1074633	² Tc
Benzene	U		0.0896	0.500	1	02/17/2018 04:04	WG1074633	³ Ss
Bromobenzene	U		0.133	0.500	1	02/17/2018 04:04	WG1074633	⁴ Cn
Bromodichloromethane	U		0.0800	0.500	1	02/17/2018 04:04	WG1074633	⁵ Sr
Bromoform	U		0.145	0.500	1	02/17/2018 04:04	WG1074633	⁶ Qc
Bromomethane	U		0.157	2.50	1	02/17/2018 04:04	WG1074633	⁷ Gl
n-Butylbenzene	U		0.143	0.500	1	02/17/2018 04:04	WG1074633	⁸ Al
sec-Butylbenzene	U		0.134	0.500	1	02/17/2018 04:04	WG1074633	⁹ Sc
tert-Butylbenzene	U		0.183	0.500	1	02/17/2018 04:04	WG1074633	
Carbon disulfide	U	<u>J0</u>	0.101	0.500	1	02/17/2018 04:04	WG1074633	
Carbon tetrachloride	U		0.159	0.500	1	02/17/2018 04:04	WG1074633	
Chlorobenzene	U		0.140	0.500	1	02/17/2018 04:04	WG1074633	
Chlorodibromomethane	U		0.128	0.500	1	02/17/2018 04:04	WG1074633	
Chloroethane	U		0.141	2.50	1	02/17/2018 04:04	WG1074633	
Chloroform	U		0.0860	0.500	1	02/17/2018 04:04	WG1074633	
Chloromethane	U		0.153	1.25	1	02/17/2018 04:04	WG1074633	
2-Chlorotoluene	U		0.111	0.500	1	02/17/2018 04:04	WG1074633	
4-Chlorotoluene	U		0.0972	0.500	1	02/17/2018 04:04	WG1074633	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/17/2018 04:04	WG1074633	
1,2-Dibromoethane	U		0.193	0.500	1	02/17/2018 04:04	WG1074633	
Dibromomethane	U		0.117	0.500	1	02/17/2018 04:04	WG1074633	
1,2-Dichlorobenzene	U		0.101	0.500	1	02/17/2018 04:04	WG1074633	
1,3-Dichlorobenzene	U		0.130	0.500	1	02/17/2018 04:04	WG1074633	
1,4-Dichlorobenzene	U		0.121	0.500	1	02/17/2018 04:04	WG1074633	
Dichlorodifluoromethane	U		0.127	2.50	1	02/17/2018 04:04	WG1074633	
1,1-Dichloroethane	U		0.114	0.500	1	02/17/2018 04:04	WG1074633	
1,2-Dichloroethane	U		0.108	0.500	1	02/17/2018 04:04	WG1074633	
1,1-Dichloroethene	U		0.188	0.500	1	02/17/2018 04:04	WG1074633	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/17/2018 04:04	WG1074633	
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/17/2018 04:04	WG1074633	
1,2-Dichloropropane	U		0.190	0.500	1	02/17/2018 04:04	WG1074633	
1,1-Dichloropropene	U		0.128	0.500	1	02/17/2018 04:04	WG1074633	
1,3-Dichloropropane	U		0.147	1.00	1	02/17/2018 04:04	WG1074633	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/17/2018 04:04	WG1074633	
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/17/2018 04:04	WG1074633	
trans-1,4-Dichloro-2-butene	U	<u>J0</u>	0.257	5.00	1	02/17/2018 04:04	WG1074633	
2,2-Dichloropropane	U		0.0929	0.500	1	02/17/2018 04:04	WG1074633	
Di-isopropyl ether	U		0.0924	0.500	1	02/17/2018 04:04	WG1074633	
Ethylbenzene	U		0.158	0.500	1	02/17/2018 04:04	WG1074633	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/17/2018 04:04	WG1074633	
2-Hexanone	U		0.757	5.00	1	02/17/2018 04:04	WG1074633	
n-Hexane	U		0.305	5.00	1	02/17/2018 04:04	WG1074633	
Iodomethane	U		0.377	10.0	1	02/17/2018 04:04	WG1074633	
Isopropylbenzene	U		0.126	0.500	1	02/17/2018 04:04	WG1074633	
p-Isopropyltoluene	U		0.138	0.500	1	02/17/2018 04:04	WG1074633	
2-Butanone (MEK)	U		1.28	5.00	1	02/17/2018 04:04	WG1074633	
Methylene Chloride	U		1.07	2.50	1	02/17/2018 04:04	WG1074633	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/17/2018 04:04	WG1074633	
Methyl tert-butyl ether	U		0.102	0.500	1	02/17/2018 04:04	WG1074633	
Naphthalene	U		0.174	2.50	1	02/17/2018 04:04	WG1074633	
n-Propylbenzene	U		0.162	0.500	1	02/17/2018 04:04	WG1074633	
Styrene	U		0.117	0.500	1	02/17/2018 04:04	WG1074633	
1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/17/2018 04:04	WG1074633	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/17/2018 04:04	WG1074633	



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/17/2018 04:04	WG1074633	¹ Cp
Tetrachloroethene	3.21		0.199	0.500	1	02/17/2018 04:04	WG1074633	² Tc
Toluene	U		0.412	0.500	1	02/17/2018 04:04	WG1074633	³ Ss
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/17/2018 04:04	WG1074633	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/17/2018 04:04	WG1074633	⁴ Cn
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/17/2018 04:04	WG1074633	
1,1,2-Trichloroethane	U		0.186	0.500	1	02/17/2018 04:04	WG1074633	
Trichloroethene	U		0.153	0.500	1	02/17/2018 04:04	WG1074633	
Trichlorofluoromethane	U		0.130	2.50	1	02/17/2018 04:04	WG1074633	
1,2,3-Trichloropropane	U		0.247	2.50	1	02/17/2018 04:04	WG1074633	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/17/2018 04:04	WG1074633	⁵ Sr
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/17/2018 04:04	WG1074633	⁶ Qc
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/17/2018 04:04	WG1074633	
Vinyl acetate	U		0.645	5.00	1	02/17/2018 04:04	WG1074633	⁷ Gl
Vinyl chloride	U		0.118	0.500	1	02/17/2018 04:04	WG1074633	
Xylenes, Total	U		0.316	1.50	1	02/17/2018 04:04	WG1074633	⁸ Al
(S) Toluene-d8	105			80.0-120		02/17/2018 04:04	WG1074633	
(S) Dibromofluoromethane	86.8			76.0-123		02/17/2018 04:04	WG1074633	
(S) 4-Bromofluorobenzene	101			80.0-120		02/17/2018 04:04	WG1074633	⁹ Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	02/17/2018 04:26	WG1074633
Acrylonitrile	U		0.873	5.00	1	02/17/2018 04:26	WG1074633
Benzene	U		0.0896	0.500	1	02/17/2018 04:26	WG1074633
Bromobenzene	U		0.133	0.500	1	02/17/2018 04:26	WG1074633
Bromodichloromethane	U		0.0800	0.500	1	02/17/2018 04:26	WG1074633
Bromoform	U		0.145	0.500	1	02/17/2018 04:26	WG1074633
Bromomethane	U		0.157	2.50	1	02/17/2018 04:26	WG1074633
n-Butylbenzene	U		0.143	0.500	1	02/17/2018 04:26	WG1074633
sec-Butylbenzene	U		0.134	0.500	1	02/17/2018 04:26	WG1074633
tert-Butylbenzene	U		0.183	0.500	1	02/17/2018 04:26	WG1074633
Carbon disulfide	U	JO	0.101	0.500	1	02/17/2018 04:26	WG1074633
Carbon tetrachloride	U		0.159	0.500	1	02/17/2018 04:26	WG1074633
Chlorobenzene	U		0.140	0.500	1	02/17/2018 04:26	WG1074633
Chlorodibromomethane	U		0.128	0.500	1	02/17/2018 04:26	WG1074633
Chloroethane	U		0.141	2.50	1	02/17/2018 04:26	WG1074633
Chloroform	1.57		0.0860	0.500	1	02/17/2018 04:26	WG1074633
Chloromethane	U		0.153	1.25	1	02/17/2018 04:26	WG1074633
2-Chlorotoluene	U		0.111	0.500	1	02/17/2018 04:26	WG1074633
4-Chlorotoluene	U		0.0972	0.500	1	02/17/2018 04:26	WG1074633
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/17/2018 04:26	WG1074633
1,2-Dibromoethane	U		0.193	0.500	1	02/17/2018 04:26	WG1074633
Dibromomethane	U		0.117	0.500	1	02/17/2018 04:26	WG1074633
1,2-Dichlorobenzene	U		0.101	0.500	1	02/17/2018 04:26	WG1074633
1,3-Dichlorobenzene	U		0.130	0.500	1	02/17/2018 04:26	WG1074633
1,4-Dichlorobenzene	U		0.121	0.500	1	02/17/2018 04:26	WG1074633
Dichlorodifluoromethane	U		0.127	2.50	1	02/17/2018 04:26	WG1074633
1,1-Dichloroethane	U		0.114	0.500	1	02/17/2018 04:26	WG1074633
1,2-Dichloroethane	U		0.108	0.500	1	02/17/2018 04:26	WG1074633
1,1-Dichloroethene	U		0.188	0.500	1	02/17/2018 04:26	WG1074633
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/17/2018 04:26	WG1074633
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/17/2018 04:26	WG1074633
1,2-Dichloropropane	U		0.190	0.500	1	02/17/2018 04:26	WG1074633
1,1-Dichloropropene	U		0.128	0.500	1	02/17/2018 04:26	WG1074633
1,3-Dichloropropane	U		0.147	1.00	1	02/17/2018 04:26	WG1074633
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/17/2018 04:26	WG1074633
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/17/2018 04:26	WG1074633
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	02/17/2018 04:26	WG1074633
2,2-Dichloropropane	U		0.0929	0.500	1	02/17/2018 04:26	WG1074633
Di-isopropyl ether	U		0.0924	0.500	1	02/17/2018 04:26	WG1074633
Ethylbenzene	U		0.158	0.500	1	02/17/2018 04:26	WG1074633
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/17/2018 04:26	WG1074633
2-Hexanone	U		0.757	5.00	1	02/17/2018 04:26	WG1074633
n-Hexane	U		0.305	5.00	1	02/17/2018 04:26	WG1074633
Iodomethane	U		0.377	10.0	1	02/17/2018 04:26	WG1074633
Isopropylbenzene	U		0.126	0.500	1	02/17/2018 04:26	WG1074633
p-Isopropyltoluene	U		0.138	0.500	1	02/17/2018 04:26	WG1074633
2-Butanone (MEK)	U		1.28	5.00	1	02/17/2018 04:26	WG1074633
Methylene Chloride	U		1.07	2.50	1	02/17/2018 04:26	WG1074633
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/17/2018 04:26	WG1074633
Methyl tert-butyl ether	U		0.102	0.500	1	02/17/2018 04:26	WG1074633
Naphthalene	U		0.174	2.50	1	02/17/2018 04:26	WG1074633
n-Propylbenzene	U		0.162	0.500	1	02/17/2018 04:26	WG1074633
Styrene	U		0.117	0.500	1	02/17/2018 04:26	WG1074633
1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/17/2018 04:26	WG1074633
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/17/2018 04:26	WG1074633

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 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/17/2018 04:26	WG1074633	¹ Cp
Tetrachloroethene	1.93		0.199	0.500	1	02/17/2018 04:26	WG1074633	² Tc
Toluene	U		0.412	0.500	1	02/17/2018 04:26	WG1074633	³ Ss
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/17/2018 04:26	WG1074633	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/17/2018 04:26	WG1074633	⁴ Cn
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/17/2018 04:26	WG1074633	
1,1,2-Trichloroethane	U		0.186	0.500	1	02/17/2018 04:26	WG1074633	
Trichloroethene	U		0.153	0.500	1	02/17/2018 04:26	WG1074633	
Trichlorofluoromethane	U		0.130	2.50	1	02/17/2018 04:26	WG1074633	
1,2,3-Trichloropropane	U		0.247	2.50	1	02/17/2018 04:26	WG1074633	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/17/2018 04:26	WG1074633	⁵ Sr
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/17/2018 04:26	WG1074633	⁶ Qc
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/17/2018 04:26	WG1074633	
Vinyl acetate	U		0.645	5.00	1	02/17/2018 04:26	WG1074633	⁷ Gl
Vinyl chloride	U		0.118	0.500	1	02/17/2018 04:26	WG1074633	
Xylenes, Total	U		0.316	1.50	1	02/17/2018 04:26	WG1074633	⁸ Al
(S) Toluene-d8	106			80.0-120		02/17/2018 04:26	WG1074633	
(S) Dibromofluoromethane	86.4			76.0-123		02/17/2018 04:26	WG1074633	
(S) 4-Bromofluorobenzene	103			80.0-120		02/17/2018 04:26	WG1074633	⁹ Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U		1.05	25.0	1	02/17/2018 04:47	WG1074633	¹ Cp
Acrylonitrile	U		0.873	5.00	1	02/17/2018 04:47	WG1074633	² Tc
Benzene	U		0.0896	0.500	1	02/17/2018 04:47	WG1074633	³ Ss
Bromobenzene	U		0.133	0.500	1	02/17/2018 04:47	WG1074633	⁴ Cn
Bromodichloromethane	U		0.0800	0.500	1	02/17/2018 04:47	WG1074633	⁵ Sr
Bromoform	U		0.145	0.500	1	02/17/2018 04:47	WG1074633	⁶ Qc
Bromomethane	U		0.157	2.50	1	02/17/2018 04:47	WG1074633	⁷ Gl
n-Butylbenzene	U		0.143	0.500	1	02/17/2018 04:47	WG1074633	⁸ Al
sec-Butylbenzene	U		0.134	0.500	1	02/17/2018 04:47	WG1074633	⁹ Sc
tert-Butylbenzene	U		0.183	0.500	1	02/17/2018 04:47	WG1074633	
Carbon disulfide	U	<u>J0</u>	0.101	0.500	1	02/17/2018 04:47	WG1074633	
Carbon tetrachloride	U		0.159	0.500	1	02/17/2018 04:47	WG1074633	
Chlorobenzene	U		0.140	0.500	1	02/17/2018 04:47	WG1074633	
Chlorodibromomethane	U		0.128	0.500	1	02/17/2018 04:47	WG1074633	
Chloroethane	U		0.141	2.50	1	02/17/2018 04:47	WG1074633	
Chloroform	1.06		0.0860	0.500	1	02/17/2018 04:47	WG1074633	
Chloromethane	U		0.153	1.25	1	02/17/2018 04:47	WG1074633	
2-Chlorotoluene	U		0.111	0.500	1	02/17/2018 04:47	WG1074633	
4-Chlorotoluene	U		0.0972	0.500	1	02/17/2018 04:47	WG1074633	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/17/2018 04:47	WG1074633	
1,2-Dibromoethane	U		0.193	0.500	1	02/17/2018 04:47	WG1074633	
Dibromomethane	U		0.117	0.500	1	02/17/2018 04:47	WG1074633	
1,2-Dichlorobenzene	U		0.101	0.500	1	02/17/2018 04:47	WG1074633	
1,3-Dichlorobenzene	U		0.130	0.500	1	02/17/2018 04:47	WG1074633	
1,4-Dichlorobenzene	U		0.121	0.500	1	02/17/2018 04:47	WG1074633	
Dichlorodifluoromethane	U		0.127	2.50	1	02/17/2018 04:47	WG1074633	
1,1-Dichloroethane	U		0.114	0.500	1	02/17/2018 04:47	WG1074633	
1,2-Dichloroethane	U		0.108	0.500	1	02/17/2018 04:47	WG1074633	
1,1-Dichloroethene	U		0.188	0.500	1	02/17/2018 04:47	WG1074633	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/17/2018 04:47	WG1074633	
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/17/2018 04:47	WG1074633	
1,2-Dichloropropane	U		0.190	0.500	1	02/17/2018 04:47	WG1074633	
1,1-Dichloropropene	U		0.128	0.500	1	02/17/2018 04:47	WG1074633	
1,3-Dichloropropane	U		0.147	1.00	1	02/17/2018 04:47	WG1074633	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/17/2018 04:47	WG1074633	
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/17/2018 04:47	WG1074633	
trans-1,4-Dichloro-2-butene	U	<u>J0</u>	0.257	5.00	1	02/17/2018 04:47	WG1074633	
2,2-Dichloropropane	U		0.0929	0.500	1	02/17/2018 04:47	WG1074633	
Di-isopropyl ether	U		0.0924	0.500	1	02/17/2018 04:47	WG1074633	
Ethylbenzene	U		0.158	0.500	1	02/17/2018 04:47	WG1074633	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/17/2018 04:47	WG1074633	
2-Hexanone	U		0.757	5.00	1	02/17/2018 04:47	WG1074633	
n-Hexane	U		0.305	5.00	1	02/17/2018 04:47	WG1074633	
Iodomethane	U		0.377	10.0	1	02/17/2018 04:47	WG1074633	
Isopropylbenzene	U		0.126	0.500	1	02/17/2018 04:47	WG1074633	
p-Isopropyltoluene	U		0.138	0.500	1	02/17/2018 04:47	WG1074633	
2-Butanone (MEK)	U		1.28	5.00	1	02/17/2018 04:47	WG1074633	
Methylene Chloride	U		1.07	2.50	1	02/17/2018 04:47	WG1074633	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/17/2018 04:47	WG1074633	
Methyl tert-butyl ether	U		0.102	0.500	1	02/17/2018 04:47	WG1074633	
Naphthalene	U		0.174	2.50	1	02/17/2018 04:47	WG1074633	
n-Propylbenzene	U		0.162	0.500	1	02/17/2018 04:47	WG1074633	
Styrene	U		0.117	0.500	1	02/17/2018 04:47	WG1074633	
1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/17/2018 04:47	WG1074633	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/17/2018 04:47	WG1074633	



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/17/2018 04:47	WG1074633	¹ Cp
Tetrachloroethene	16.1		0.199	0.500	1	02/17/2018 04:47	WG1074633	² Tc
Toluene	U		0.412	0.500	1	02/17/2018 04:47	WG1074633	³ Ss
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/17/2018 04:47	WG1074633	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/17/2018 04:47	WG1074633	⁴ Cn
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/17/2018 04:47	WG1074633	
1,1,2-Trichloroethane	U		0.186	0.500	1	02/17/2018 04:47	WG1074633	
Trichloroethene	U		0.153	0.500	1	02/17/2018 04:47	WG1074633	
Trichlorofluoromethane	U		0.130	2.50	1	02/17/2018 04:47	WG1074633	
1,2,3-Trichloropropane	U		0.247	2.50	1	02/17/2018 04:47	WG1074633	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/17/2018 04:47	WG1074633	⁵ Sr
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/17/2018 04:47	WG1074633	⁶ Qc
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/17/2018 04:47	WG1074633	
Vinyl acetate	U		0.645	5.00	1	02/17/2018 04:47	WG1074633	⁷ Gl
Vinyl chloride	U		0.118	0.500	1	02/17/2018 04:47	WG1074633	
Xylenes, Total	U		0.316	1.50	1	02/17/2018 04:47	WG1074633	
(S) Toluene-d8	108			80.0-120		02/17/2018 04:47	WG1074633	⁸ Al
(S) Dibromofluoromethane	83.9			76.0-123		02/17/2018 04:47	WG1074633	
(S) 4-Bromofluorobenzene	102			80.0-120		02/17/2018 04:47	WG1074633	⁹ Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U		1.05	25.0	1	02/17/2018 05:09	WG1074633	¹ Cp
Acrylonitrile	U		0.873	5.00	1	02/17/2018 05:09	WG1074633	² Tc
Benzene	U		0.0896	0.500	1	02/17/2018 05:09	WG1074633	³ Ss
Bromobenzene	U		0.133	0.500	1	02/17/2018 05:09	WG1074633	⁴ Cn
Bromodichloromethane	U		0.0800	0.500	1	02/17/2018 05:09	WG1074633	⁵ Sr
Bromoform	U		0.145	0.500	1	02/17/2018 05:09	WG1074633	⁶ Qc
Bromomethane	U		0.157	2.50	1	02/17/2018 05:09	WG1074633	⁷ Gl
n-Butylbenzene	U		0.143	0.500	1	02/17/2018 05:09	WG1074633	⁸ Al
sec-Butylbenzene	U		0.134	0.500	1	02/17/2018 05:09	WG1074633	⁹ Sc
tert-Butylbenzene	U		0.183	0.500	1	02/17/2018 05:09	WG1074633	
Carbon disulfide	U	<u>J0</u>	0.101	0.500	1	02/17/2018 05:09	WG1074633	
Carbon tetrachloride	U		0.159	0.500	1	02/17/2018 05:09	WG1074633	
Chlorobenzene	U		0.140	0.500	1	02/17/2018 05:09	WG1074633	
Chlorodibromomethane	U		0.128	0.500	1	02/17/2018 05:09	WG1074633	
Chloroethane	U		0.141	2.50	1	02/17/2018 05:09	WG1074633	
Chloroform	0.677		0.0860	0.500	1	02/17/2018 05:09	WG1074633	
Chloromethane	U		0.153	1.25	1	02/17/2018 05:09	WG1074633	
2-Chlorotoluene	U		0.111	0.500	1	02/17/2018 05:09	WG1074633	
4-Chlorotoluene	U		0.0972	0.500	1	02/17/2018 05:09	WG1074633	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/17/2018 05:09	WG1074633	
1,2-Dibromoethane	U		0.193	0.500	1	02/17/2018 05:09	WG1074633	
Dibromomethane	U		0.117	0.500	1	02/17/2018 05:09	WG1074633	
1,2-Dichlorobenzene	U		0.101	0.500	1	02/17/2018 05:09	WG1074633	
1,3-Dichlorobenzene	U		0.130	0.500	1	02/17/2018 05:09	WG1074633	
1,4-Dichlorobenzene	U		0.121	0.500	1	02/17/2018 05:09	WG1074633	
Dichlorodifluoromethane	U		0.127	2.50	1	02/17/2018 05:09	WG1074633	
1,1-Dichloroethane	U		0.114	0.500	1	02/17/2018 05:09	WG1074633	
1,2-Dichloroethane	U		0.108	0.500	1	02/17/2018 05:09	WG1074633	
1,1-Dichloroethene	U		0.188	0.500	1	02/17/2018 05:09	WG1074633	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/17/2018 05:09	WG1074633	
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/17/2018 05:09	WG1074633	
1,2-Dichloropropane	U		0.190	0.500	1	02/17/2018 05:09	WG1074633	
1,1-Dichloropropene	U		0.128	0.500	1	02/17/2018 05:09	WG1074633	
1,3-Dichloropropane	U		0.147	1.00	1	02/17/2018 05:09	WG1074633	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/17/2018 05:09	WG1074633	
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/17/2018 05:09	WG1074633	
trans-1,4-Dichloro-2-butene	U	<u>J0</u>	0.257	5.00	1	02/17/2018 05:09	WG1074633	
2,2-Dichloropropane	U		0.0929	0.500	1	02/17/2018 05:09	WG1074633	
Di-isopropyl ether	U		0.0924	0.500	1	02/17/2018 05:09	WG1074633	
Ethylbenzene	U		0.158	0.500	1	02/17/2018 05:09	WG1074633	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/17/2018 05:09	WG1074633	
2-Hexanone	U		0.757	5.00	1	02/17/2018 05:09	WG1074633	
n-Hexane	U		0.305	5.00	1	02/17/2018 05:09	WG1074633	
Iodomethane	U		0.377	10.0	1	02/17/2018 05:09	WG1074633	
Isopropylbenzene	U		0.126	0.500	1	02/17/2018 05:09	WG1074633	
p-Isopropyltoluene	U		0.138	0.500	1	02/17/2018 05:09	WG1074633	
2-Butanone (MEK)	U		1.28	5.00	1	02/17/2018 05:09	WG1074633	
Methylene Chloride	U		1.07	2.50	1	02/17/2018 05:09	WG1074633	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/17/2018 05:09	WG1074633	
Methyl tert-butyl ether	U		0.102	0.500	1	02/17/2018 05:09	WG1074633	
Naphthalene	U		0.174	2.50	1	02/17/2018 05:09	WG1074633	
n-Propylbenzene	U		0.162	0.500	1	02/17/2018 05:09	WG1074633	
Styrene	U		0.117	0.500	1	02/17/2018 05:09	WG1074633	
1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/17/2018 05:09	WG1074633	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/17/2018 05:09	WG1074633	



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/17/2018 05:09	WG1074633	¹ Cp
Tetrachloroethene	U		0.199	0.500	1	02/17/2018 05:09	WG1074633	² Tc
Toluene	U		0.412	0.500	1	02/17/2018 05:09	WG1074633	³ Ss
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/17/2018 05:09	WG1074633	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/17/2018 05:09	WG1074633	⁴ Cn
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/17/2018 05:09	WG1074633	
1,1,2-Trichloroethane	U		0.186	0.500	1	02/17/2018 05:09	WG1074633	
Trichloroethene	U		0.153	0.500	1	02/17/2018 05:09	WG1074633	
Trichlorofluoromethane	U		0.130	2.50	1	02/17/2018 05:09	WG1074633	
1,2,3-Trichloropropane	U		0.247	2.50	1	02/17/2018 05:09	WG1074633	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/17/2018 05:09	WG1074633	⁵ Sr
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/17/2018 05:09	WG1074633	⁶ Qc
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/17/2018 05:09	WG1074633	
Vinyl acetate	U		0.645	5.00	1	02/17/2018 05:09	WG1074633	⁷ Gl
Vinyl chloride	U		0.118	0.500	1	02/17/2018 05:09	WG1074633	
Xylenes, Total	U		0.316	1.50	1	02/17/2018 05:09	WG1074633	
(S) Toluene-d8	108			80.0-120		02/17/2018 05:09	WG1074633	⁸ Al
(S) Dibromofluoromethane	85.8			76.0-123		02/17/2018 05:09	WG1074633	
(S) 4-Bromofluorobenzene	102			80.0-120		02/17/2018 05:09	WG1074633	⁹ Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	02/17/2018 05:31	WG1074633
Acrylonitrile	U		0.873	5.00	1	02/17/2018 05:31	WG1074633
Benzene	U		0.0896	0.500	1	02/17/2018 05:31	WG1074633
Bromobenzene	U		0.133	0.500	1	02/17/2018 05:31	WG1074633
Bromodichloromethane	U		0.0800	0.500	1	02/17/2018 05:31	WG1074633
Bromoform	U		0.145	0.500	1	02/17/2018 05:31	WG1074633
Bromomethane	U		0.157	2.50	1	02/17/2018 05:31	WG1074633
n-Butylbenzene	U		0.143	0.500	1	02/17/2018 05:31	WG1074633
sec-Butylbenzene	U		0.134	0.500	1	02/17/2018 05:31	WG1074633
tert-Butylbenzene	U		0.183	0.500	1	02/17/2018 05:31	WG1074633
Carbon disulfide	U	JO	0.101	0.500	1	02/17/2018 05:31	WG1074633
Carbon tetrachloride	U		0.159	0.500	1	02/17/2018 05:31	WG1074633
Chlorobenzene	U		0.140	0.500	1	02/17/2018 05:31	WG1074633
Chlorodibromomethane	U		0.128	0.500	1	02/17/2018 05:31	WG1074633
Chloroethane	U		0.141	2.50	1	02/17/2018 05:31	WG1074633
Chloroform	1.39		0.0860	0.500	1	02/17/2018 05:31	WG1074633
Chloromethane	U		0.153	1.25	1	02/17/2018 05:31	WG1074633
2-Chlorotoluene	U		0.111	0.500	1	02/17/2018 05:31	WG1074633
4-Chlorotoluene	U		0.0972	0.500	1	02/17/2018 05:31	WG1074633
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/17/2018 05:31	WG1074633
1,2-Dibromoethane	U		0.193	0.500	1	02/17/2018 05:31	WG1074633
Dibromomethane	U		0.117	0.500	1	02/17/2018 05:31	WG1074633
1,2-Dichlorobenzene	U		0.101	0.500	1	02/17/2018 05:31	WG1074633
1,3-Dichlorobenzene	U		0.130	0.500	1	02/17/2018 05:31	WG1074633
1,4-Dichlorobenzene	U		0.121	0.500	1	02/17/2018 05:31	WG1074633
Dichlorodifluoromethane	U		0.127	2.50	1	02/17/2018 05:31	WG1074633
1,1-Dichloroethane	U		0.114	0.500	1	02/17/2018 05:31	WG1074633
1,2-Dichloroethane	U		0.108	0.500	1	02/17/2018 05:31	WG1074633
1,1-Dichloroethene	U		0.188	0.500	1	02/17/2018 05:31	WG1074633
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/17/2018 05:31	WG1074633
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/17/2018 05:31	WG1074633
1,2-Dichloropropane	U		0.190	0.500	1	02/17/2018 05:31	WG1074633
1,1-Dichloropropene	U		0.128	0.500	1	02/17/2018 05:31	WG1074633
1,3-Dichloropropane	U		0.147	1.00	1	02/17/2018 05:31	WG1074633
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/17/2018 05:31	WG1074633
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/17/2018 05:31	WG1074633
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	02/17/2018 05:31	WG1074633
2,2-Dichloropropane	U		0.0929	0.500	1	02/17/2018 05:31	WG1074633
Di-isopropyl ether	U		0.0924	0.500	1	02/17/2018 05:31	WG1074633
Ethylbenzene	U		0.158	0.500	1	02/17/2018 05:31	WG1074633
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/17/2018 05:31	WG1074633
2-Hexanone	U		0.757	5.00	1	02/17/2018 05:31	WG1074633
n-Hexane	U		0.305	5.00	1	02/17/2018 05:31	WG1074633
Iodomethane	U		0.377	10.0	1	02/17/2018 05:31	WG1074633
Isopropylbenzene	U		0.126	0.500	1	02/17/2018 05:31	WG1074633
p-Isopropyltoluene	U		0.138	0.500	1	02/17/2018 05:31	WG1074633
2-Butanone (MEK)	U		1.28	5.00	1	02/17/2018 05:31	WG1074633
Methylene Chloride	U		1.07	2.50	1	02/17/2018 05:31	WG1074633
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/17/2018 05:31	WG1074633
Methyl tert-butyl ether	U		0.102	0.500	1	02/17/2018 05:31	WG1074633
Naphthalene	U		0.174	2.50	1	02/17/2018 05:31	WG1074633
n-Propylbenzene	U		0.162	0.500	1	02/17/2018 05:31	WG1074633
Styrene	U		0.117	0.500	1	02/17/2018 05:31	WG1074633
1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/17/2018 05:31	WG1074633
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/17/2018 05:31	WG1074633

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 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/17/2018 05:31	WG1074633	¹ Cp
Tetrachloroethene	U		0.199	0.500	1	02/17/2018 05:31	WG1074633	² Tc
Toluene	U		0.412	0.500	1	02/17/2018 05:31	WG1074633	³ Ss
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/17/2018 05:31	WG1074633	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/17/2018 05:31	WG1074633	⁴ Cn
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/17/2018 05:31	WG1074633	
1,1,2-Trichloroethane	U		0.186	0.500	1	02/17/2018 05:31	WG1074633	
Trichloroethene	U		0.153	0.500	1	02/17/2018 05:31	WG1074633	
Trichlorofluoromethane	U		0.130	2.50	1	02/17/2018 05:31	WG1074633	
1,2,3-Trichloropropane	U		0.247	2.50	1	02/17/2018 05:31	WG1074633	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/17/2018 05:31	WG1074633	⁵ Sr
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/17/2018 05:31	WG1074633	⁶ Qc
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/17/2018 05:31	WG1074633	
Vinyl acetate	U		0.645	5.00	1	02/17/2018 05:31	WG1074633	⁷ Gl
Vinyl chloride	U		0.118	0.500	1	02/17/2018 05:31	WG1074633	
Xylenes, Total	U		0.316	1.50	1	02/17/2018 05:31	WG1074633	⁸ Al
(S) Toluene-d8	107			80.0-120		02/17/2018 05:31	WG1074633	
(S) Dibromofluoromethane	86.2			76.0-123		02/17/2018 05:31	WG1074633	
(S) 4-Bromofluorobenzene	99.0			80.0-120		02/17/2018 05:31	WG1074633	⁹ Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	U		1.05	25.0	1	02/17/2018 06:19	WG1074633	¹ Cp
Acrylonitrile	U		0.873	5.00	1	02/17/2018 06:19	WG1074633	² Tc
Benzene	U		0.0896	0.500	1	02/17/2018 06:19	WG1074633	³ Ss
Bromobenzene	U		0.133	0.500	1	02/17/2018 06:19	WG1074633	⁴ Cn
Bromodichloromethane	U		0.0800	0.500	1	02/17/2018 06:19	WG1074633	⁵ Sr
Bromoform	U		0.145	0.500	1	02/17/2018 06:19	WG1074633	⁶ Qc
Bromomethane	U		0.157	2.50	1	02/17/2018 06:19	WG1074633	⁷ Gl
n-Butylbenzene	U		0.143	0.500	1	02/17/2018 06:19	WG1074633	⁸ Al
sec-Butylbenzene	U		0.134	0.500	1	02/17/2018 06:19	WG1074633	⁹ Sc
tert-Butylbenzene	U		0.183	0.500	1	02/17/2018 06:19	WG1074633	
Carbon disulfide	U	<u>J0</u>	0.101	0.500	1	02/17/2018 06:19	WG1074633	
Carbon tetrachloride	U		0.159	0.500	1	02/17/2018 06:19	WG1074633	
Chlorobenzene	U		0.140	0.500	1	02/17/2018 06:19	WG1074633	
Chlorodibromomethane	U		0.128	0.500	1	02/17/2018 06:19	WG1074633	
Chloroethane	U		0.141	2.50	1	02/17/2018 06:19	WG1074633	
Chloroform	1.06		0.0860	0.500	1	02/17/2018 06:19	WG1074633	
Chloromethane	U		0.153	1.25	1	02/17/2018 06:19	WG1074633	
2-Chlorotoluene	U		0.111	0.500	1	02/17/2018 06:19	WG1074633	
4-Chlorotoluene	U		0.0972	0.500	1	02/17/2018 06:19	WG1074633	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/17/2018 06:19	WG1074633	
1,2-Dibromoethane	U		0.193	0.500	1	02/17/2018 06:19	WG1074633	
Dibromomethane	U		0.117	0.500	1	02/17/2018 06:19	WG1074633	
1,2-Dichlorobenzene	U		0.101	0.500	1	02/17/2018 06:19	WG1074633	
1,3-Dichlorobenzene	U		0.130	0.500	1	02/17/2018 06:19	WG1074633	
1,4-Dichlorobenzene	U		0.121	0.500	1	02/17/2018 06:19	WG1074633	
Dichlorodifluoromethane	U		0.127	2.50	1	02/17/2018 06:19	WG1074633	
1,1-Dichloroethane	U		0.114	0.500	1	02/17/2018 06:19	WG1074633	
1,2-Dichloroethane	U		0.108	0.500	1	02/17/2018 06:19	WG1074633	
1,1-Dichloroethene	U		0.188	0.500	1	02/17/2018 06:19	WG1074633	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/17/2018 06:19	WG1074633	
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/17/2018 06:19	WG1074633	
1,2-Dichloropropane	U		0.190	0.500	1	02/17/2018 06:19	WG1074633	
1,1-Dichloropropene	U		0.128	0.500	1	02/17/2018 06:19	WG1074633	
1,3-Dichloropropane	U		0.147	1.00	1	02/17/2018 06:19	WG1074633	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/17/2018 06:19	WG1074633	
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/17/2018 06:19	WG1074633	
trans-1,4-Dichloro-2-butene	U	<u>J0</u>	0.257	5.00	1	02/17/2018 06:19	WG1074633	
2,2-Dichloropropane	U		0.0929	0.500	1	02/17/2018 06:19	WG1074633	
Di-isopropyl ether	U		0.0924	0.500	1	02/17/2018 06:19	WG1074633	
Ethylbenzene	U		0.158	0.500	1	02/17/2018 06:19	WG1074633	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/17/2018 06:19	WG1074633	
2-Hexanone	U		0.757	5.00	1	02/17/2018 06:19	WG1074633	
n-Hexane	U		0.305	5.00	1	02/17/2018 06:19	WG1074633	
Iodomethane	U		0.377	10.0	1	02/17/2018 06:19	WG1074633	
Isopropylbenzene	U		0.126	0.500	1	02/17/2018 06:19	WG1074633	
p-Isopropyltoluene	U		0.138	0.500	1	02/17/2018 06:19	WG1074633	
2-Butanone (MEK)	U		1.28	5.00	1	02/17/2018 06:19	WG1074633	
Methylene Chloride	U		1.07	2.50	1	02/17/2018 06:19	WG1074633	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/17/2018 06:19	WG1074633	
Methyl tert-butyl ether	U		0.102	0.500	1	02/17/2018 06:19	WG1074633	
Naphthalene	U		0.174	2.50	1	02/17/2018 06:19	WG1074633	
n-Propylbenzene	U		0.162	0.500	1	02/17/2018 06:19	WG1074633	
Styrene	U		0.117	0.500	1	02/17/2018 06:19	WG1074633	
1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/17/2018 06:19	WG1074633	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/17/2018 06:19	WG1074633	



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/17/2018 06:19	WG1074633	¹ Cp
Tetrachloroethene	14.7		0.199	0.500	1	02/17/2018 06:19	WG1074633	² Tc
Toluene	U		0.412	0.500	1	02/17/2018 06:19	WG1074633	³ Ss
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/17/2018 06:19	WG1074633	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/17/2018 06:19	WG1074633	⁴ Cn
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/17/2018 06:19	WG1074633	
1,1,2-Trichloroethane	U		0.186	0.500	1	02/17/2018 06:19	WG1074633	
Trichloroethene	U		0.153	0.500	1	02/17/2018 06:19	WG1074633	
Trichlorofluoromethane	U		0.130	2.50	1	02/17/2018 06:19	WG1074633	
1,2,3-Trichloropropane	U		0.247	2.50	1	02/17/2018 06:19	WG1074633	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/17/2018 06:19	WG1074633	⁵ Sr
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/17/2018 06:19	WG1074633	⁶ Qc
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/17/2018 06:19	WG1074633	
Vinyl acetate	U		0.645	5.00	1	02/17/2018 06:19	WG1074633	⁷ Gl
Vinyl chloride	U		0.118	0.500	1	02/17/2018 06:19	WG1074633	
Xylenes, Total	U		0.316	1.50	1	02/17/2018 06:19	WG1074633	⁸ Al
(S) Toluene-d8	107			80.0-120		02/17/2018 06:19	WG1074633	
(S) Dibromofluoromethane	84.0			76.0-123		02/17/2018 06:19	WG1074633	
(S) 4-Bromofluorobenzene	101			80.0-120		02/17/2018 06:19	WG1074633	⁹ Sc



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	1.34	J	1.05	25.0	1	02/17/2018 06:40	WG1074633	¹ Cp
Acrylonitrile	U		0.873	5.00	1	02/17/2018 06:40	WG1074633	² Tc
Benzene	U		0.0896	0.500	1	02/17/2018 06:40	WG1074633	³ Ss
Bromobenzene	U		0.133	0.500	1	02/17/2018 06:40	WG1074633	⁴ Cn
Bromodichloromethane	U		0.0800	0.500	1	02/17/2018 06:40	WG1074633	⁵ Sr
Bromoform	U		0.145	0.500	1	02/17/2018 06:40	WG1074633	⁶ Qc
Bromomethane	U		0.157	2.50	1	02/17/2018 06:40	WG1074633	⁷ Gl
n-Butylbenzene	U		0.143	0.500	1	02/17/2018 06:40	WG1074633	⁸ Al
sec-Butylbenzene	U		0.134	0.500	1	02/17/2018 06:40	WG1074633	⁹ Sc
tert-Butylbenzene	U		0.183	0.500	1	02/17/2018 06:40	WG1074633	
Carbon disulfide	U	JO	0.101	0.500	1	02/17/2018 06:40	WG1074633	
Carbon tetrachloride	U		0.159	0.500	1	02/17/2018 06:40	WG1074633	
Chlorobenzene	U		0.140	0.500	1	02/17/2018 06:40	WG1074633	
Chlorodibromomethane	U		0.128	0.500	1	02/17/2018 06:40	WG1074633	
Chloroethane	U		0.141	2.50	1	02/17/2018 06:40	WG1074633	
Chloroform	U		0.0860	0.500	1	02/17/2018 06:40	WG1074633	
Chloromethane	U		0.153	1.25	1	02/17/2018 06:40	WG1074633	
2-Chlorotoluene	U		0.111	0.500	1	02/17/2018 06:40	WG1074633	
4-Chlorotoluene	U		0.0972	0.500	1	02/17/2018 06:40	WG1074633	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/17/2018 06:40	WG1074633	
1,2-Dibromoethane	U		0.193	0.500	1	02/17/2018 06:40	WG1074633	
Dibromomethane	U		0.117	0.500	1	02/17/2018 06:40	WG1074633	
1,2-Dichlorobenzene	U		0.101	0.500	1	02/17/2018 06:40	WG1074633	
1,3-Dichlorobenzene	U		0.130	0.500	1	02/17/2018 06:40	WG1074633	
1,4-Dichlorobenzene	U		0.121	0.500	1	02/17/2018 06:40	WG1074633	
Dichlorodifluoromethane	U		0.127	2.50	1	02/17/2018 06:40	WG1074633	
1,1-Dichloroethane	U		0.114	0.500	1	02/17/2018 06:40	WG1074633	
1,2-Dichloroethane	U		0.108	0.500	1	02/17/2018 06:40	WG1074633	
1,1-Dichloroethene	U		0.188	0.500	1	02/17/2018 06:40	WG1074633	
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/17/2018 06:40	WG1074633	
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/17/2018 06:40	WG1074633	
1,2-Dichloropropane	U		0.190	0.500	1	02/17/2018 06:40	WG1074633	
1,1-Dichloropropene	U		0.128	0.500	1	02/17/2018 06:40	WG1074633	
1,3-Dichloropropane	U		0.147	1.00	1	02/17/2018 06:40	WG1074633	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/17/2018 06:40	WG1074633	
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/17/2018 06:40	WG1074633	
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	02/17/2018 06:40	WG1074633	
2,2-Dichloropropane	U		0.0929	0.500	1	02/17/2018 06:40	WG1074633	
Di-isopropyl ether	U		0.0924	0.500	1	02/17/2018 06:40	WG1074633	
Ethylbenzene	U		0.158	0.500	1	02/17/2018 06:40	WG1074633	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/17/2018 06:40	WG1074633	
2-Hexanone	U		0.757	5.00	1	02/17/2018 06:40	WG1074633	
n-Hexane	U		0.305	5.00	1	02/17/2018 06:40	WG1074633	
Iodomethane	U		0.377	10.0	1	02/17/2018 06:40	WG1074633	
Isopropylbenzene	U		0.126	0.500	1	02/17/2018 06:40	WG1074633	
p-Isopropyltoluene	U		0.138	0.500	1	02/17/2018 06:40	WG1074633	
2-Butanone (MEK)	U		1.28	5.00	1	02/17/2018 06:40	WG1074633	
Methylene Chloride	U		1.07	2.50	1	02/17/2018 06:40	WG1074633	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/17/2018 06:40	WG1074633	
Methyl tert-butyl ether	U		0.102	0.500	1	02/17/2018 06:40	WG1074633	
Naphthalene	U		0.174	2.50	1	02/17/2018 06:40	WG1074633	
n-Propylbenzene	U		0.162	0.500	1	02/17/2018 06:40	WG1074633	
Styrene	U		0.117	0.500	1	02/17/2018 06:40	WG1074633	
1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/17/2018 06:40	WG1074633	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/17/2018 06:40	WG1074633	



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/17/2018 06:40	WG1074633	¹ Cp
Tetrachloroethene	U		0.199	0.500	1	02/17/2018 06:40	WG1074633	² Tc
Toluene	0.652		0.412	0.500	1	02/17/2018 06:40	WG1074633	³ Ss
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/17/2018 06:40	WG1074633	
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/17/2018 06:40	WG1074633	⁴ Cn
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/17/2018 06:40	WG1074633	
1,1,2-Trichloroethane	U		0.186	0.500	1	02/17/2018 06:40	WG1074633	
Trichloroethene	U		0.153	0.500	1	02/17/2018 06:40	WG1074633	
Trichlorofluoromethane	U		0.130	2.50	1	02/17/2018 06:40	WG1074633	
1,2,3-Trichloropropane	U		0.247	2.50	1	02/17/2018 06:40	WG1074633	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/17/2018 06:40	WG1074633	⁵ Sr
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/17/2018 06:40	WG1074633	⁶ Qc
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/17/2018 06:40	WG1074633	
Vinyl acetate	U		0.645	5.00	1	02/17/2018 06:40	WG1074633	⁷ Gl
Vinyl chloride	U		0.118	0.500	1	02/17/2018 06:40	WG1074633	
Xylenes, Total	U		0.316	1.50	1	02/17/2018 06:40	WG1074633	⁸ Al
(S) Toluene-d8	107			80.0-120		02/17/2018 06:40	WG1074633	
(S) Dibromofluoromethane	85.4			76.0-123		02/17/2018 06:40	WG1074633	
(S) 4-Bromofluorobenzene	103			80.0-120		02/17/2018 06:40	WG1074633	⁹ Sc



Method Blank (MB)

(MB) R3287486-3 02/16/18 23:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l	
Acetone	U		1.05	25.0	¹ Cp
Acrylonitrile	U		0.873	5.00	² Tc
Bromobenzene	U		0.133	0.500	³ Ss
Benzene	U		0.0896	0.500	⁴ Cn
Bromodichloromethane	U		0.0800	0.500	⁵ Sr
Bromochloromethane	U		0.145	0.500	⁶ Qc
Bromoform	U		0.186	0.500	⁷ Gl
Bromomethane	U		0.157	2.50	⁸ Al
n-Butylbenzene	U		0.143	0.500	⁹ Sc
sec-Butylbenzene	U		0.134	0.500	
tert-Butylbenzene	U		0.183	0.500	
Carbon disulfide	U		0.101	0.500	
Carbon tetrachloride	U		0.159	0.500	
Chlorobenzene	U		0.140	0.500	
Chlorodibromomethane	U		0.128	0.500	
Chloroethane	U		0.141	2.50	
Chloroform	U		0.0860	0.500	
Chloromethane	U		0.153	1.25	
2-Chlorotoluene	U		0.111	0.500	
4-Chlorotoluene	U		0.0972	0.500	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	
1,2-Dibromoethane	U		0.193	0.500	
Dibromomethane	U		0.117	0.500	
1,2-Dichlorobenzene	U		0.101	0.500	
1,3-Dichlorobenzene	U		0.130	0.500	
1,4-Dichlorobenzene	U		0.121	0.500	
Dichlorodifluoromethane	U		0.127	2.50	
1,1-Dichloroethane	U		0.114	0.500	
1,2-Dichloroethane	U		0.108	0.500	
1,1-Dichloroethene	U		0.188	0.500	
cis-1,2-Dichloroethene	U		0.0933	0.500	
trans-1,2-Dichloroethene	U		0.152	0.500	
1,2-Dichloropropane	U		0.190	0.500	
1,1-Dichloropropene	U		0.128	0.500	
1,3-Dichloropropane	U		0.147	1.00	
cis-1,3-Dichloropropene	U		0.0976	0.500	
trans-1,3-Dichloropropene	U		0.222	0.500	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	
2,2-Dichloropropane	U		0.0929	0.500	
Di-isopropyl ether	U		0.0924	0.500	



L971022-01,02,03,04,05,06,07,08,09,10,11,12

Method Blank (MB)

(MB) R3287486-3 02/16/18 23:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l	
Hexachloro-1,3-butadiene	0.291	J	0.157	1.00	¹ Cp
2-Hexanone	U		0.757	5.00	² Tc
n-Hexane	U		0.305	5.00	³ Ss
Iodomethane	U		0.377	10.0	⁴ Cn
Isopropylbenzene	U		0.126	0.500	⁵ Sr
p-Isopropyltoluene	U		0.138	0.500	⁶ Qc
2-Butanone (MEK)	U		1.28	5.00	⁷ Gl
Ethylbenzene	U		0.158	0.500	⁸ Al
Methylene Chloride	U		1.07	2.50	⁹ Sc
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	
Naphthalene	U		0.174	2.50	
n-Propylbenzene	U		0.162	0.500	
Styrene	U		0.117	0.500	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	
1,1,2,2-Tetrachloroethane	U		0.130	0.500	
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	
Tetrachloroethene	U		0.199	0.500	
1,2,3-Trichlorobenzene	0.171	J	0.164	0.500	
1,2,4-Trichlorobenzene	U		0.355	0.500	
1,1,1-Trichloroethane	U		0.0940	0.500	
1,1,2-Trichloroethane	U		0.186	0.500	
Trichloroethene	U		0.153	0.500	
Methyl tert-butyl ether	U		0.102	0.500	
Trichlorofluoromethane	U		0.130	2.50	
1,2,3-Trichloropropane	U		0.247	2.50	
1,2,4-Trimethylbenzene	0.135	J	0.123	0.500	
1,2,3-Trimethylbenzene	U		0.0739	0.500	
1,3,5-Trimethylbenzene	U		0.124	0.500	
Vinyl acetate	U		0.645	5.00	
Vinyl chloride	U		0.118	0.500	
Toluene	U		0.412	0.500	
Xylenes, Total	U		0.316	1.50	
(S) Toluene-d8	106		80.0-120		
(S) Dibromofluoromethane	86.5		76.0-123		
(S) 4-Bromofluorobenzene	103		80.0-120		



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

(LCS) R3287486-1 02/16/18 22:36 • (LCSD) R3287486-2 02/16/18 22:58

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	125	114	117	91.1	93.7	10.0-160			2.79	23
Acrylonitrile	125	123	124	98.2	99.3	60.0-142			1.10	20
Bromobenzene	25.0	24.1	24.8	96.4	99.3	79.0-120			2.92	20
Bromodichloromethane	25.0	24.2	24.4	96.7	97.6	76.0-120			0.974	20
Bromoform	25.0	24.3	24.6	97.1	98.3	67.0-132			1.20	20
Bromomethane	25.0	24.3	22.6	97.1	90.4	18.0-160			7.10	20
n-Butylbenzene	25.0	25.4	25.9	101	104	72.0-126			2.01	20
sec-Butylbenzene	25.0	26.7	26.7	107	107	74.0-121			0.159	20
tert-Butylbenzene	25.0	26.5	26.4	106	106	75.0-122			0.272	20
Carbon disulfide	25.0	19.4	19.6	77.6	78.5	55.0-127			1.16	20
Carbon tetrachloride	25.0	21.1	21.0	84.5	84.2	63.0-122			0.354	20
Chlorobenzene	25.0	24.9	25.3	99.5	101	79.0-121			1.70	20
Chlorodibromomethane	25.0	26.3	26.2	105	105	75.0-125			0.545	20
Chloroethane	25.0	24.4	21.5	97.4	85.8	47.0-152			12.7	20
Chloroform	25.0	21.4	21.2	85.5	84.7	72.0-121			0.903	20
Chloromethane	25.0	20.9	21.1	83.7	84.2	48.0-139			0.665	20
2-Chlorotoluene	25.0	24.8	25.2	99.3	101	74.0-122			1.48	20
4-Chlorotoluene	25.0	25.0	25.6	99.9	102	79.0-120			2.57	20
1,2-Dibromo-3-Chloropropane	25.0	26.0	26.0	104	104	64.0-127			0.0130	20
1,2-Dibromoethane	25.0	26.0	26.9	104	108	77.0-123			3.60	20
Dibromomethane	25.0	24.3	24.6	97.2	98.4	78.0-120			1.24	20
1,2-Dichlorobenzene	25.0	25.0	25.7	100	103	80.0-120			2.48	20
1,3-Dichlorobenzene	25.0	24.7	24.9	98.8	99.4	72.0-123			0.627	20
1,4-Dichlorobenzene	25.0	24.1	24.2	96.5	96.6	77.0-120			0.140	20
Dichlorodifluoromethane	25.0	20.8	21.5	83.1	86.1	49.0-155			3.55	20
1,1-Dichloroethane	25.0	21.4	21.3	85.5	85.3	70.0-126			0.212	20
1,2-Dichloroethane	25.0	20.8	21.0	83.2	83.8	67.0-126			0.729	20
1,1-Dichloroethene	25.0	20.8	21.8	83.3	87.0	64.0-129			4.35	20
cis-1,2-Dichloroethene	25.0	21.9	21.7	87.7	86.9	73.0-120			0.946	20
trans-1,2-Dichloroethene	25.0	20.8	20.6	83.0	82.3	71.0-121			0.919	20
1,2-Dichloropropane	25.0	23.8	24.5	95.1	98.1	75.0-125			3.11	20
1,1-Dichloropropene	25.0	21.7	21.6	86.6	86.5	71.0-129			0.175	20
1,3-Dichloropropane	25.0	25.4	26.0	102	104	80.0-121			2.35	20
cis-1,3-Dichloropropene	25.0	27.1	27.0	108	108	79.0-123			0.0748	20
trans-1,3-Dichloropropene	25.0	25.8	26.2	103	105	74.0-127			1.48	20
trans-1,4-Dichloro-2-butene	25.0	14.6	14.3	58.4	57.2	55.0-134			1.96	20
2,2-Dichloropropane	25.0	20.8	20.1	83.2	80.5	60.0-125			3.30	20
Di-isopropyl ether	25.0	20.8	20.9	83.3	83.6	59.0-133			0.360	20
Hexachloro-1,3-butadiene	25.0	24.9	26.2	99.7	105	64.0-131			4.91	20

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) R3287486-1 02/16/18 22:36 • (LCSD) R3287486-2 02/16/18 22:58

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %	1 Cp
2-Hexanone	125	135	136	108	109	58.0-147			1.03	20	2 Tc
n-Hexane	25.0	21.4	21.1	85.5	84.6	56.0-124			1.09	20	3 Ss
Iodomethane	125	102	103	81.3	82.3	57.0-140			1.30	20	4 Cn
Isopropylbenzene	25.0	25.2	25.5	101	102	75.0-120			1.25	20	5 Sr
p-Isopropyltoluene	25.0	26.1	26.5	104	106	74.0-126			1.50	20	6 Qc
2-Butanone (MEK)	125	107	107	85.4	85.7	37.0-158			0.360	20	7 Gl
Methylene Chloride	25.0	20.7	21.3	82.9	85.2	66.0-121			2.76	20	8 Al
4-Methyl-2-pentanone (MIBK)	125	127	130	101	104	59.0-143			2.26	20	9 Sc
Benzene	25.0	20.3	20.4	81.3	81.5	69.0-123			0.219	20	
Naphthalene	25.0	24.5	25.3	98.2	101	62.0-128			3.03	20	
n-Propylbenzene	25.0	24.9	25.3	99.5	101	79.0-120			1.62	20	
Styrene	25.0	24.5	25.3	98.2	101	78.0-124			2.92	20	
1,1,1,2-Tetrachloroethane	25.0	25.7	25.6	103	102	75.0-122			0.528	20	
1,1,2,2-Tetrachloroethane	25.0	25.1	25.7	100	103	71.0-122			2.67	20	
1,1,2-Trichlorotrifluoroethane	25.0	21.2	21.8	85.0	87.1	61.0-136			2.45	20	
Tetrachloroethene	25.0	24.4	24.6	97.5	98.4	70.0-127			0.917	20	
1,2,3-Trichlorobenzene	25.0	23.8	24.0	95.1	95.9	61.0-133			0.797	20	
1,2,4-Trichlorobenzene	25.0	24.4	24.8	97.6	99.0	69.0-129			1.51	20	
1,1,1-Trichloroethane	25.0	21.6	21.5	86.2	86.1	68.0-122			0.146	20	
1,1,2-Trichloroethane	25.0	24.4	25.2	97.7	101	78.0-120			3.01	20	
Trichloroethene	25.0	22.2	22.6	88.7	90.4	78.0-120			1.88	20	
Trichlorofluoromethane	25.0	21.4	21.3	85.5	85.2	56.0-137			0.362	20	
1,2,3-Trichloropropane	25.0	24.7	25.4	98.6	102	72.0-124			3.14	20	
1,2,4-Trimethylbenzene	25.0	25.5	25.8	102	103	75.0-120			1.31	20	
1,2,3-Trimethylbenzene	25.0	25.2	25.3	101	101	75.0-120			0.418	20	
1,3,5-Trimethylbenzene	25.0	25.7	26.1	103	104	75.0-120			1.62	20	
Vinyl acetate	125	122	126	97.5	101	46.0-160			3.50	20	
Vinyl chloride	25.0	20.6	20.2	82.2	80.8	64.0-133			1.75	20	
Ethylbenzene	25.0	25.3	25.9	101	104	77.0-120			2.36	20	
Methyl tert-butyl ether	25.0	21.1	21.2	84.5	84.7	64.0-123			0.259	20	
Toluene	25.0	24.3	24.6	97.2	98.4	77.0-120			1.22	20	
Xylenes, Total	75.0	76.8	78.0	102	104	77.0-120			1.55	20	
(S) Toluene-d8				104	104	80.0-120					
(S) Dibromofluoromethane				87.0	86.1	76.0-123					
(S) 4-Bromofluorobenzene				100	101	80.0-120					



Guide to Reading and Understanding Your Laboratory Report

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

Abbreviations and Definitions

MDL	Method Detection Limit.	¹ Cp
RDL	Reported Detection Limit.	² Tc
Rec.	Recovery.	³ Ss
RPD	Relative Percent Difference.	⁴ Cn
SDG	Sample Delivery Group.	⁵ Sr
(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.	⁶ Qc
U	Not detected at the Reporting Limit (or MDL where applicable).	⁷ Gl
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	⁸ Al
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.	⁹ Sc
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.	
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.	
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.	
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.	
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.	
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.	
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.	
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.	

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
JO	JO: Calibration verification outside of acceptance limits. Result is estimated.



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
Alaska	UST-080
Arizona	AZ0612
Arkansas	88-0469
California	01157CA
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky ¹	90010
Kentucky ²	16
Louisiana	AI30792
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086
Nebraska	NE-OS-15-05

Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico	TN00003
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ²	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	221
South Carolina	84004
South Dakota	n/a
Tennessee ^{1,4}	2006
Texas	T 104704245-07-TX
Texas ⁵	LAB0152
Utah	6157585858
Vermont	VT2006
Virginia	109
Washington	C1915
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

Third Party Federal Accreditations

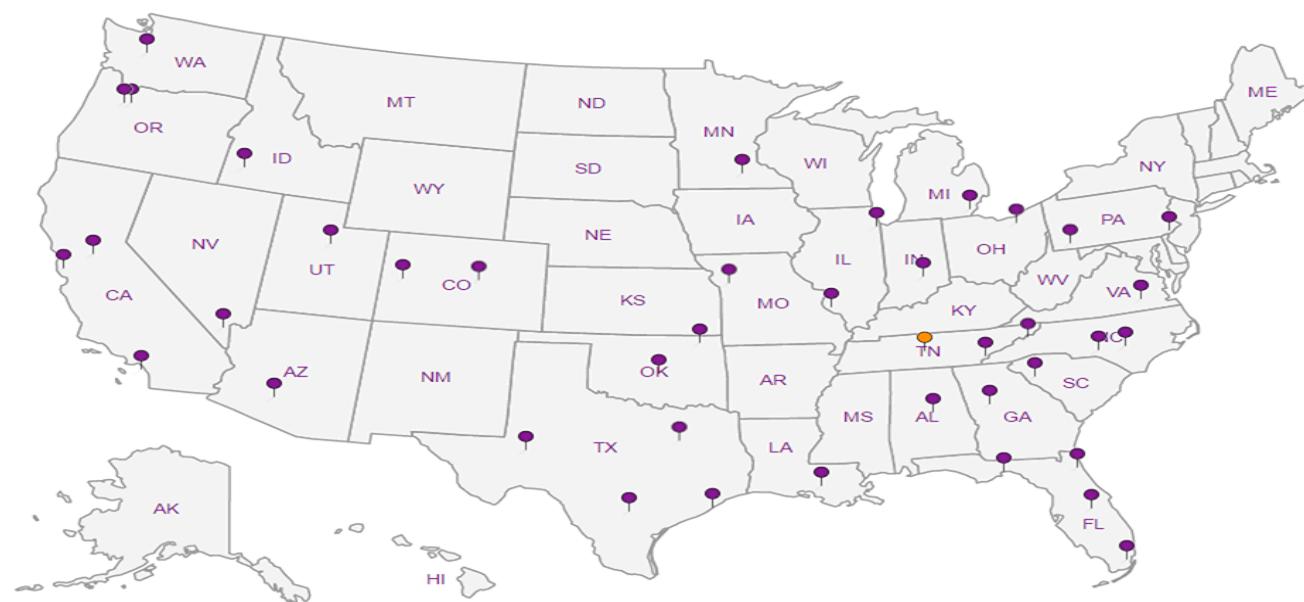
A2LA - ISO 17025	1461.01
A2LA - ISO 17025 ⁵	1461.02
Canada	1461.01
EPA-Crypto	TN00003

AIHA-LAP,LLC	100789
DOD	1461.01
USDA	S-67674

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.



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



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



L# L971022

A054

Acctnum: ZIPGEOLWA
Template: T129863
Prelogin: P638477
TSR: 110 - Brian Ford
PB:
Shipped Via:

Remarks Sample # (lab only)

Zipper Geo Associates - Lynnwood, WA		Billing Information:		Pres Chk	Analysis / Container / Preservative						
		Jon Einarsen 19019 36th Ave. W. Ste. E Lynnwood, WA 98036									
19019 36th Ave. W.		Email To: jeinarsen@zippergeo.com									
Report to: Jon Einarsen											
Project Description: Prime Cleaners		City/State Collected: Mill Creek, WA									
Phone: 425-582-9928	Client Project #: 1001.25	Lab Project # ZIPGEOLWA-100125									
Fax:		P.O. # 1001.25									
Collected by (print): <i>Evelyn Conrado</i>	Site/Facility ID #	Quote #									
Collected by (signature): <i>Evelyn Conrado</i>	Rush? (Lab MUST Be Notified)	Same Day <input checked="" type="checkbox"/> Five Day		Date Results Needed		No. of Cntrs					
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		Next Day <input type="checkbox"/> 5 Day (Rad Only)		10 Day (Rad Only)							
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time						
MW-1		GW		2/13/18	13:30		X				-01
MW-2		GW		2/13/18	12:10	3	X				02
MW-3		GW		2/14/18	12:15	3	X				03
MW-4		GW		2/14/18	15:15	3	X				04
MW-5		GW		2/13/18	14:50	3	X				05
MW-6		GW		2/14/18	8:55	3	X				06
MW-7		GW		2/14/18	10:40	3	X				07
MW-8		GW		2/14/18	13:35	3	X				08
MW-9		GW		2/13/18	8:57	3	X				09
MW-10		GW		2/13/18	10:40	3	X				10

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

Remarks:

Samples returned via:
UPS FedEx Courier

Tracking # 7466 1466 1403

pH Temp

Flow Other

Sample Receipt Checklist
COC Seal Present/Intact: Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)
Evelyn Conrado

Date: 02/15/18 Time:

Received by: (Signature)

Trip Blank Received: Yes No
HCl / MeOH
TBR

If preservation required by Login: Date/Time

Relinquished by : (Signature)

Date: Time:

Received by: (Signature)

Temp: 2.12 °C Bottles Received: 36

Condition: NCF / OK

Relinquished by : (Signature)

Date: Time:

Received for lab by: (Signature) *BG*

Date: 2/16/18 Time: 845

Hold:

Zipper Geo Associates - Lynnwood, WA			Billing Information: Jon Einarsen 19019 36th Ave. W. Ste. E Lynnwood, WA 98036			Pres Chk	Analysis / Container / Preservative						Chain of Custody	Page 2 of 2
19019 36th Ave. W.			Email To: jeinarsen@zippergeo.com											
Report to: Jon Einarsen														
Project Description: Prime Cleaners			City/State Collected: Mill Creek, WA											
Phone: 425-582-9928 Fax:		Client Project # 1001.25		Lab Project # ZIPGEOLWA-100125										
Collected by (print): <i>Evelyn Conrado</i>		Site/Facility ID #		P.O. # 1001.25										
Collected by (signature): <i>Evelyn Conrado</i>		Rush? (Lab MUST Be Notified) <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> Next Day <input type="checkbox"/> Two Day <input type="checkbox"/> Three Day		Quote #										
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>				Date Results Needed		No. of Cntrs								
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time									
Duplicate		GW		2/14/18		X							-11	
Equipment Blank		GW		2/14/18	14:14	3	X						12	
		GW				3	X						1	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____		Remarks:						pH	Temp					
		Samples returned via: UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>			Tracking # 74661466 1403			Flow	Other					
Relinquished by : (Signature) <i>Evelyn Conrado</i>		Date: 02/15/18	Time:	Received by: (Signature)			Trip Blank Received: <input type="checkbox"/> Yes No HCl / MeOH TBR						Sample Receipt Checklist COC Seal Present/Intact: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Relinquished by : (Signature)		Date:	Time:	Received by: (Signature)			Temp: 21°C	Bottles Received: 36	If preservation required by Login: Date/Time					
Relinquished by : (Signature)		Date:	Time:	Received for lab by: (Signature) <i>359618861</i>			Date: 21/6/18	Time: 845	Hold:	Condition: NCF / OK				