Arcadis U.S., Inc.
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ENVIRONMENT

Ms. Rebekah Reams
Alaska Department of Environmental Conservation (ADEC)
Spill Prevention and Response, Contaminated Sites Program
610 University Avenue
Fairbanks, Alaska 99709

Subject:
2020 Third Quarter Groundwater Monitoring Report

Date:
September 25, 2020

Contact:
Nicole Monroe

Phone:
503.785.9414

Email:
Nicole.Monroe@arcadis.com

Our ref:
30045460

Dear Ms. Reams,

On behalf of Chevron Environmental Management Company (Chevron), Arcadis US, Inc. (Arcadis) has prepared the attached *2020 Third Quarter Groundwater Monitoring Report* for the third quarter groundwater sampling event of 2020 for the following facility:

Chevron Branded Station No.	ADEC File No.	Hazard ID:	Location
95414	2100.26.062	24602	5210 Old Seward Highway Anchorage, Alaska

If you have any questions, please do not hesitate to contact me.

Sincerely,

Arcadis U.S., Inc.

Nicole Monroe, P.E.
Project Manager
EV-149409

Copies:
Tim Bishop (*electronic copy*)
Rolph Hanson
Mark Engelke (*electronic copy*)

ARCADIS Design & Consultancy for natural and built assets

Chevron Environmental Management Company

2020 THIRD QUARTER GROUNDWATER MONITORING REPORT

Chevron Service Station No. 95414
5210 Old Seward Highway
Anchorage, Alaska
ADEC File No. 2100.26.062

September 25 2020

2020 THIRD QUARTER GROUNDWATER MONITORING REPORT

Chevron Service Station No. 95414
5210 Old Seward Highway
Anchorage, Alaska

ADEC File No: 2100.26.062
HAZARD ID No: 24602

Prepared for:

Chevron Environmental Management Company

Max Elias
Environmental Scientist

Nicole Monroe, P.E.
Project Manager
EV-149409

Prepared by:

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Our Ref.:
30045460

Date:
September 25, 2020

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GROUNDWATER MONITORING STATUS REPORT
THIRD QUARTER 2020
September 25, 2020

Facility No.:	Chevron Service Station No. 95414	Address:	5210 Old Seward Highway Anchorage, Alaska

Arcadis Contact Person / Phone No.:	Nicole Monroe / 503-785-9414
Arcadis Project No.:	30045460
Primary Agency/Regulatory ID No.:	Alaska Department of Environmental Conservation (ADEC) / Rebekah Reams / ADEC file ID: 2100.26.062

WORK CONDUCTED THIS PERIOD [Third Quarter 2020]:

1. Conducted quarterly groundwater monitoring activities on July 27 and 28, 2020.
2. Prepared the *2020 Third Quarter Groundwater Monitoring Report*.

WORK PROPOSED NEXT PERIOD [Fourth Quarter 2020]:

1. Conduct quarterly groundwater monitoring activities in the Fourth Quarter of 2020.
2. Prepare the *2020 Fourth Quarter Groundwater Monitoring Report.*

Current Phase of Project:	Monitoring	
Frequency of Monitoring / Sampling:	Quarterly	
Is Light Non-Aqueous Phase Liquid (LNAPL) Present On-site:	No	
Cumulative LNAPL Recovered to Date:	0.0	(gallons)
Approximate Depth to Groundwater:	4.83 to 8.34	(feet below top of casing)
Approximate Groundwater Elevation:	102.34 to 105.98	(feet relative to NAVD88)
Groundwater Flow Direction	Southwest	
Groundwater Gradient	0.004	(feet per foot)

Current Remediation Techniques:	None
Permits for Discharge:	None
Summary of Unusual Activity:	MW-9R was inaccessible due to access issue
Agency Directive Requirements:	None

1 INTRODUCTION

On behalf of Chevron Environmental Management Company (CEMC), Arcadis US, Inc. (Arcadis), has prepared this report to document the third quarter groundwater sampling event of 2020 for Chevron Service Station No. 95414, located at 5210 Old Seward Highway in Anchorage, Alaska (the site). The site location map and site plan are shown on Figure 1 and Figure 2, respectively.

This work was conducted under the direction of a Qualified Environmental Professional" (QEP) and "Qualified Sampler" (18 Alaska Administrative Code [AAC] 75.333). Site background and history summaries are included as Appendix A.

2 GROUNDWATER MONITORING

2.1 Groundwater Gauging Methods

The 2020 third quarter groundwater sampling event was conducted on July 27, 2020. Site monitoring wells were gauged with an oil/water interface probe to determine depth-to-water and to ascertain if LNAPL was present. In order to prevent the possibility of cross-contamination, wells were gauged in the order of lowest to highest historical petroleum hydrocarbon concentrations in groundwater. In addition, non-disposable groundwater gauging equipment was decontaminated prior to and after each use with a detergent solution and rinsed in potable water.

2.2 Groundwater Elevation and Flow Direction

During the third quarter 2020 sampling event, monitoring wells MW-1 through MW-8, MW-9R, and MW-10 were scheduled to be gauged for groundwater elevations and the presence of LNAPL. Monitoring well MW-9R was unable to be accessed due to a lack of an access agreement for the associated property. The groundwater monitoring event field notes are presented in Appendix B.

The inferred groundwater flow direction for the third quarter 2020 monitoring event is to the southwest and is consistent with the historical flow direction. Current and historical groundwater gauging and analytical results are included in Table 1 and Table 3 respectively. A groundwater contour map with a rose diagram of historical flow directions is presented as Figure 3.

2.3 Groundwater Sampling Methods

The third quarter groundwater monitoring event was conducted on July 27 and 28, 2020. Groundwater samples were collected from MW-1, MW-8 and MW-10. Surface water samples were collected from SP-1 through SP-4. Monitoring well MW-9R was unable to be sampled due to a lack of an access agreement for the associated property.

Sampling procedures were conducted in accordance with ADEC *Field Sampling Guidance* (ADEC, 2019). Monitoring well caps were removed to allow groundwater levels to stabilize and equilibrate before using an electronic interface probe (EIP) meter capable of 0.01 foot accuracy to measure the depth to groundwater and total well depth. A bladder pump with compressor & control unit with clean/disposable Teflon lined tubing and bladders was used to purge groundwater from the wells and collect samples to minimize the risk of volatile contaminant absorption by the sampling equipment. Water table drawdown was continuously monitored during purging with a water level meter and the flow rate of the pump was adjusted to limit drawdown to 0.1 meter. The intake of the pump was set as close as possible to the soil groundwater interface. Water quality parameters were monitored during purging with a multi-parameter water quality meter equipped with a flow through cell and Turbidity meter. Parameters were recorded every 3 to 5 minutes until a minimum of three (minimum of four if using temperature as an indicator) of the parameters listed below stabilized. The flow rate was reduced to 100-150 ml/minute and samples were collected from the discharge line into laboratory sample bottles. Water quality parameters were considered stable when three successive readings were within the following ADEC limits:

- ± 3% for temperature (minimum of ± 0.2 C°),
- ± 0.1 for pH,
- ± 3% for conductivity,
- ± 10 mv for redox potential,
- ± 10% for dissolved oxygen, and
- ± 10% for turbidity.

Sample bottles were labeled, stored in a cooler packed with ice, and submitted to Pace Analytical (National Centre for Testing & Innovation) of Mount Juliet, Tennessee under proper chain-of-custody procedures.

Samples collected from monitoring wells MW-1, MW-8, MW-10, and SP-1 through SP-4 were submitted to the analytical laboratory for the following analyses:

- Total petroleum hydrocarbons-gasoline range organics (TPH-g) by Alaska method AK101
- Total petroleum hydrocarbons- diesel range organics (TPH-d) by Alaska method AK102
- Full-scan VOCs including benzene, toluene, ethylbenzene, total xylenes (collectively BTEX), methyl-t-butyl ether (MTBE), 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), and naphthalene by United States Environmental Protection Agency (USEPA) method 8260D

Groundwater duplicate samples were collected from monitoring wells MW-2 and MW-3. The duplicate samples were analyzed for TPH-g, TPH-d, and full scan VOCs. The duplicate samples were submitted blind with the sample set to Pace Analytical.

2.4 Groundwater Analytical Results

Routine analytical results for TPH-g, TPH-d, BTEX, MTBE, EDB, EDC and naphthalene obtained from the third quarter 2020 groundwater monitoring event are summarized in Table 1 and are shown on Figure 4. Additional constituents analyzed by USEPA method 8260D are summarized in Table 2. Historical gauging and analytical groundwater data for TPH-g, TPH-d, BTEX, MTBE, EDB, EDC and naphthalene is summarized in Table 3. Historical analytical results for additional constituents analyzed by USEPA method 8260D are summarized in Table 4.

3 LABORATORY DATA QUALITY ASSURANCE SUMMARY

As required by ADEC (Technical Memorandum, October 2019), Arcadis completed a laboratory data review checklist for the laboratory report generated for the 2020 third quarter event. The laboratory report is included as Appendix C and data review checklist is included as Appendix D. The following quality assurance summary describes six parameters, related to the quality and usability of the data presented in this report.

3.1 Precision

The relative percent difference (RPD) for laboratory control sample / laboratory control sample duplicate (LCS/LCSD) were within the control limits.

The RPD between matrix spike / matrix spike duplicate (MS/MSD) exceedance observed for TPH-g in sample MW-4-W-200727 and the result was qualified as estimated.

The RPD for compound 1,2,4-trimethylbenzene in field duplicate pair MW-3-W-200728 / BD-1-W-200728 was exceeded the control limit and results were qualified as estimated.

The precision of the data, as measured by laboratory quality control (QC) indicators, suggest that the data quality objectives (DQOs) were met.

3.2 Accuracy

The percent recoveries for surrogates were within the control limits.

The MS/MSD analysis was performed on sample MW-4-W-200727. The MS and/or MSD recovery exceedances were observed for compounds 1,2,3-trichloropropane, 1,2-dibromoethane and TPH-g. These compound results were qualified as estimated in sample MW-4-W-200727.

The LCS recovery exceedance observed for compound methyl tert-butyl ether and result was qualified as estimated.

The accuracy of the data, as measured by laboratory QC indicators, suggest that the DQOs were met.

3.3 Representativeness

The data appear to be representative of site conditions and are generally consistent with historical groundwater monitoring results and expected impacts to groundwater.

3.4 Comparability

The laboratory results are presented in the same units as previous report to allow comparison.

3.5 Completeness

The results appear to be valid and usable, and thus, the laboratory results have 100% completeness.

3.6 Sensitivity

One or more target compounds (TPH-d, TPH-g, benzene, ethylbenzene, total xylenes, 1,2-dibromoethane and naphthalene) concentrations were exceeded the ADEC groundwater cleanup levels in multiple samples.

The sensitivity of the analyses was adequate for the samples as the detection limits were less than the ADEC groundwater cleanup levels for compounds with above exceptions.

4 CONCLUSIONS AND RECOMMENDATIONS

The groundwater data collected during the third quarter 2020 event indicate the groundwater flow direction, southwest, is generally consistent with historical data.

During the third quarter 2020 groundwater monitoring event, samples were collected for analysis from monitoring wells MW-1 through MW-8, MW-10, and SP-1 through SP-4. Analytical results are generally consistent with historical data.

Groundwater monitoring will continue in accordance with the current quarterly schedule. The fourth quarterly sampling event will be conducted in October of 2020.

5 REFERENCES

ADEC. *Field Sampling Guidance*. Division of Spill Prevention and Response Contaminated Sites Program. 2019.

ADEC Technical Memorandum, October 2019. *Minimum Quality Assurance Requirements for Sample Handling*, *Reports and Laboratory Data*. ADEC, Division of Spill Prevention and Response Contaminated Sites Program.

TABLES

Table 1. Current Groundwater Gauging and Analytical Results
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	Datum	DTW[1] (ft bTOC)	LNAPL Thickness (ft)	GW Elev (ft)	TPH-d mg/L	TPH-g mg/L	Benzene mg/L	Toluene mg/L	Ethylbenzene mg/L	Total Xylenes mg/L	MTBE mg/L	EDB mg/L	EDC mg/L	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels							**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.0017**	
MW-1	7/27/2020	110.63	NAVD 88	7.31	0.00	103.32	<0.800	**0.0918 J**	**0.00984**	**0.000655 J**	<0.00100	**0.0106**	<0.00100	<0.0000500	<0.00100	***<0.00500***	
MW-2	7/27/2020	111.09	NAVD 88	5.11	0.00	105.98	**0.253 J** [<0.800]	<0.100 [<0.100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00300 [<0.00300]	<0.00100 [<0.00100]	<0.00000500 ***[<0.000250]***	<0.00100 [<0.00100]	***<0.00500 [<0.00500]***	
MW-3	7/28/2020	111.44	NAVD 88	8.34	0.00	103.10	**1.48 [1.04]**	**2.57 [2.62]**	**0.0684 [0.0703]**	**0.0149 [0.0152]**	**0.222 [0.196]**	**0.545 [0.465]**	<0.00100 [<0.00100]	**0.00035** ***[<0.000250]***	<0.00100 [<0.00100]	**0.0645 [0.0619]**	
MW-4	7/27/2020	108.88	NAVD 88	6.00	0.00	102.88	<0.840	**0.0148 J**	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	**0.0000380 J**	**0.000770 J**	***<0.00500***	
MW-5	7/28/2020	108.76	NAVD 88	5.94	0.00	102.82	**0.405 J**	**0.146**	**0.00527**	**0.000570 J**	**0.00171**	**0.01610**	<0.00100	**0.000024**	<0.00100	**0.00118 J**	
MW-6	7/27/2020	111.16	NAVD 88	7.54	0.00	103.62	**2.30**	<0.100	**0.000179 J**	<0.00100	<0.00100	<0.00300	**0.000110 J**	<0.00000500	<0.00100	***<0.00500***	
MW-7	7/28/2020	107.35	NAVD 88	4.83	0.00	102.52	**1.90**	**5.13**	**0.0996**	**0.0276**	**0.242**	**0.596**	<0.00100	***<0.00125***	<0.00100	**0.0705**	
MW-8	7/27/2020	108.70	NAVD 88	6.36	0.00	102.34	**0.399 J**	**0.526**	**0.0321**	**0.00122**	**0.0159**	**0.0358**	<0.00100	**0.0032**	<0.00100	***<0.00500***	
MW-9R	7/27/2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to access
MW-10	7/28/2020	109.17	NAVD 88	6.76	0.00	102.41	**0.738 J**	<0.100	**0.000111 J**	**0.00149**	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	
SP-1	7/28/2020	--	--	--	--	--	<0.800	<0.100	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	Surface water sample
SP-2	7/28/2020	--	--	--	--	--	**0.294 J**	<0.100	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.0000500	<0.00100	***<0.00500***	Surface water sample
SP-3	7/28/2020	--	--	--	--	--	<0.800	<0.100	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	Surface water sample
SP-4	7/28/2020	--	--	--	--	--	<0.800	<0.100	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	Surface water sample
QA (EQB)	7/27/2020	--	--	--	--	--	<0.800	<0.100	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	
QA (TB)	7/28/2020	--	--	--	--	--	**--**	<0.100	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	

Notes:

ID = Identification
MW = Groundwater monitoring well
TOC = Top of casing
DTW = Depth to groundwater
ft bTOC = Feet below top of casing
ft = Feet relative to NAVD88
GW Elev = Groundwater elevation
mg/L = Milligrams per liter
<0.100 = Not Detected at or above the Laboratory Reported Detection Limit (RDL)
Bold = Value exceeds method detection limit (MDL)
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
Bold and *Italicized* : Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
1 = DTW from gauging event on 7/27/2020

TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to United States Environmental Protection Agency (USEPA) Method AK101
TPH-d = Total petroleum hydrocarbons, diesel range by LUFT GC/MS according to USEPA Method AK 102
Samples analyzed by EPA Method 8260D:
Benzene, Toluene, Ethylbenzene and Total Xylenes (collectively BTEX)
MTBE = Methyl tert-butyl ether
EDB = 1,2-Dibromoethane
EDC = 1,2-Dichloroethane
Naphthalene
QA (EQB) = Quality Assurance (Equipment Blank)
QA (TB) = Quality Assurance (Trip Blank)
LNAPL = Light Non-Aqueous Phase Liquid
NAVD 88 = North American Vertical Datum of 1988
ADEC = Alaska Department of Environmental Conservation
LUFT = Leaking Underground Fuel Tank
GC/MS = Gas chromatography/Mas
-- = Not analyzed/ Not measured/ Not Available
[ ] = Duplicate Result

Table 2. Additional Current Groundwater Analytical Results
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Constituent	ADEC Groundwater Cleanup Levels (mg/L)	Location ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-10	SP-1	SP-2
		Sample Date	7/27/2020	7/27/2020	7/28/2020	7/27/2020	7/28/2020	7/27/2020	7/28/2020	7/27/2020	7/28/2020	7/28/2020	7/28/2020
1,1,1-Trichloroethane	**8**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
1,1,2,2-Tetrachloroethane	**0.00076**	mg/L	***<0.00100***	***<0.00100 [<0.00100]***	***<0.00100 [<0.00100]***	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***
1,1,2-Trichloroethane	**0.00041**	mg/L	***<0.00100***	***<0.00100 [<0.00100]***	***<0.00100 [<0.00100]***	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***
1,1,2-Trichlorotrifluoroethane (Freon 113)	**10**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
1,1-Dichloroethane	**0.028**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.000316 J**	<0.00100	<0.00100
1,1-Dichloroethene (Dichloroethylene)	**0.28**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
1,2,3-Trichlorobenzene	**0.007**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
1,2,4-Trichlorobenzene	**0.004**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
1,2,4-Trimethylbenzene	**0.056**	mg/L	**0.00604**	<0.00100 [<0.00100]	**0.323 J [0.107 J]**	<0.00100	**0.025**	<0.00100	**0.16**	**0.0368**	<0.00100	<0.00100	<0.00100
1,2-Dichlorobenzene (o-Dichlorobenzene)	**0.3**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
1,2-Dichloropropane	**0.0082**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
1,3-Dichlorobenzene	**0.0047**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
1,4-Dichlorobenzene	**0.0048**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
2-Butanone (Methyl ethyl ketone)	**--**	mg/L	<0.0100	<0.0100 [<0.0100]	<0.0100 [<0.0100]	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
4-Methyl-2-pentanone	**6.3**	mg/L	<0.0100	<0.0100 [<0.0100]	**0.00128 J [0.00127 J]**	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Acetone	**14**	mg/L	<0.0500	<0.0500 [<0.0500]	<0.0500 [<0.0500]	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Bromochloromethane	**--**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Bromodichloromethane	**0.0013**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Bromoform	**0.033**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Bromomethane (Methyl bromide)	**0.0075**	mg/L	<0.00500	<0.00500 [<0.00500]	<0.00500 [<0.00500]	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Carbon Disulfide	**0.81**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Carbon Tetrachloride	**0.0046**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Chlorobenzene	**0.078**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Chloroethane	**--**	mg/L	<0.00500	<0.00500 [<0.00500]	<0.00500 [<0.00500]	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Chloroform	**0.0022**	mg/L	***<0.00500***	***<0.00500 [<0.00500]***	***<0.00500 [<0.00500]***	***<0.00500***	***<0.00500***	***<0.00500***	***<0.00500***	***<0.00500***	***<0.00500***	***<0.00500***	***<0.00500***
Chloromethane (Methyl chloride)	**0.19**	mg/L	<0.00250	<0.00250 [<0.00250]	<0.00250 [<0.00250]	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250
cis-1,2-Dichloroethene	**0.036**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
cis-1,3-Dichloropropene	**0.0047**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Dibromochloromethane	**0.0087**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Dichlorodifluoromethane (Freon 12)	**0.2**	mg/L	**0.000959**	<0.00500 [<0.00500]	<0.00500 [<0.00500]	**0.000900 J**	<0.00500	<0.00500	<0.00500	**0.00147**	**0.00952**	<0.00500	<0.00500
Isopropylbenzene	**--**	mg/L	**0.00111**	<0.00100 [<0.00100]	**0.0174 [0.0172]**	<0.00100	**0.00123**	<0.00100	**0.0355**	**0.00732**	<0.00100	<0.00100	<0.00100
Methylene chloride (Dichloromethane)	**0.1**	mg/L	<0.00500	<0.00500 [<0.00500]	<0.00500 [<0.00500]	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Styrene	**1.2**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Tetrachloroethene	**0.041**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
trans-1,2-Dichloroethene	**0.36**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
trans-1,3-Dichloropropene	**0.0047**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Trichloroethene (Trichloroethylene)	**0.0028**	mg/L	<0.00100	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Trichlorofluoromethane (Freon 11)	**5.2**	mg/L	<0.00500	<0.00500 [<0.00500]	<0.00500 **[0.00390 J]**	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Vinyl chloride (Chloroethene)	**0.00019**	mg/L	***<0.00100***	***<0.00100 [<0.00100]***	***<0.00100 [<0.00100]***	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***

Notes:

ID = Identification
MW = Groundwater monitoring well
ADEC = Alaska Department of Environmental Conservation
mg/L = Milligrams per liter
<0.00100 = Not Detected at or above the Laboratory Reported Detection Limit (RDL)
Bold = Value exceeds method detection limit (MDL)
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
Bold and *Italicized* : Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
Constituents analyzed by United States Environemntal Proteection Agency Method 8260D
QA (TB) = Quality Assurance (Trip Blank)
QA (EB) = Quality Assurance (Equipment Blank)
[ ] = Duplicate Result
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

Table 2. Additional Current Groundwater Analytical Results
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Constituent	ADEC Groundwater Cleanup Levels (mg/L)	Location ID	SP-3	SP-4	QA (EQB)	QA (TB)
		Sample Date	7/28/2020	7/28/2020	7/27/2020	7/28/2020
1,1,1-Trichloroethane	**8**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
1,1,2,2-Tetrachloroethane	**0.00076**	mg/L	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***
1,1,2-Trichloroethane	**0.00041**	mg/L	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***
1,1,2-Trichlorotrifluoroethane (Freon 113)	**10**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
1,1-Dichloroethane	**0.028**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
1,1-Dichloroethene (Dichloroethylene)	**0.28**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
1,2,3-Trichlorobenzene	**0.007**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
1,2,4-Trichlorobenzene	**0.004**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
1,2,4-Trimethylbenzene	**0.056**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
1,2-Dichlorobenzene (o-Dichlorobenzene)	**0.3**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
1,2-Dichloropropane	**0.0082**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
1,3-Dichlorobenzene	**0.0047**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
1,4-Dichlorobenzene	**0.0048**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
2-Butanone (Methyl ethyl ketone)	**--**	mg/L	<0.0100	<0.0100	<0.0100	<0.0100
4-Methyl-2-pentanone	**6.3**	mg/L	<0.0100	<0.0100	<0.0100	<0.0100
Acetone	**14**	mg/L	<0.0500	<0.0500	<0.0500	<0.0500
Bromochloromethane	**--**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
Bromodichloromethane	**0.0013**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
Bromoform	**0.033**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
Bromomethane (Methyl bromide)	**0.0075**	mg/L	<0.00500	<0.00500	<0.00500	<0.00500
Carbon Disulfide	**0.81**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
Carbon Tetrachloride	**0.0046**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
Chlorobenzene	**0.078**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
Chloroethane	**--**	mg/L	<0.00500	<0.00500	<0.00500	<0.00500
Chloroform	**0.0022**	mg/L	***<0.00500***	***<0.00500***	<0.00500	<0.00500
Chloromethane (Methyl chloride)	**0.19**	mg/L	<0.00250	<0.00250	<0.00250	<0.00250
cis-1,2-Dichloroethene	**0.036**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
cis-1,3-Dichloropropene	**0.0047**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
Dibromochloromethane	**0.0087**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
Dichlorodifluoromethane (Freon 12)	**0.2**	mg/L	<0.00500	<0.00500	<0.00500	<0.00500
Isopropylbenzene	**--**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
Methylene chloride (Dichloromethane)	**0.1**	mg/L	<0.00500	<0.00500	<0.00500	<0.00500
Styrene	**1.2**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
Tetrachloroethene	**0.041**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
trans-1,2-Dichloroethene	**0.36**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
trans-1,3-Dichloropropene	**0.0047**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
Trichloroethene (Trichloroethylene)	**0.0028**	mg/L	<0.00100	<0.00100	<0.00100	<0.00100
Trichlorofluoromethane (Freon 11)	**5.2**	mg/L	<0.00500	<0.00500	<0.00500	<0.00500
Vinyl chloride (Chloroethene)	**0.00019**	mg/L	***<0.00100***	***<0.00100***	***<0.00100***	***<0.00100***

Notes:
ID = Identification
MW = Groundwater monitoring well
ADEC = Alaska Department of Environmental Conservation
mg/L = Milligrams per liter
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Constituents analyzed by United States Environemntal Proteection Agency Method 8260D
QA (TB) = Quality Assurance (Trip Blank)
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J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

Table 3. Historical Groundwater Gauging and Analytical Results
Third Quarter 1998 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**1.1**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.0017**	
MW-1	09/03/1998	101.92	7.20	--	94.72	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	05/20/2000	101.92	7.30	--	94.62	**0.295**	**--**	**--**	**--**	**--**	**--**	**--**	<0.0020	**--**	**--**	**--**	
MW-1	09/21/2000	101.92	7.46	--	94.46	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	05/01/2001	101.92	7.87	--	94.05	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	09/25/2001	101.92	7.48	--	94.44	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	05/07/2002	109.76	7.42	--	102.34	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	09/29/2002	109.76	6.77	--	102.99	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	06/06/2003	109.82	7.40	--	102.42	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	10/03/2003	109.82	6.95	--	102.87	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	12/18/2003	109.82	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	03/22/2004	109.82	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	06/09/2004	109.82	7.06	--	102.76	**--**	**0.93**	**--**	**0.099**	**0.026**	**0.0090**	**0.079**	<0.0020	**--**	**--**	**--**	
MW-1	09/21/2004	109.82	7.80	--	102.02	**--**	**0.78**	**--**	**0.080**	**0.0030**	**0.0030**	**0.073**	<0.0020	**--**	**--**	**--**	
MW-1	10/29/2004	109.82	--	--	--	**--**	**0.51**	**--**	**0.087**	**0.0020**	**0.0010**	**0.030**	<0.00050	**--**	**--**	**--**	
MW-1	12/06/2004	109.82	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	03/21/2005	109.82	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	05/15/2005	109.82	6.75	--	103.07	**--**	**0.41**	**--**	**0.074**	**0.0020**	**0.0010**	**0.0020**	<0.0020	**--**	**--**	**--**	
MW-1	09/28/2005	109.82	6.50	--	103.32	**--**	**0.40**	**--**	**0.064**	**0.0020**	**0.0010**	**0.018**	<0.0020	**--**	**--**	**--**	
MW-1	12/07/2005	109.82	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	04/07/2006	109.82	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	05/18/2006	109.82	7.63	--	102.19	**0.53**	**0.73**	**--**	**0.095**	**0.0050**	**0.0040**	**0.038**	**--**	**--**	**--**	**--**	
MW-1	09/28/2006	109.82	6.41	--	103.41	**0.58**	**0.21**	**--**	**0.010**	**0.00070**	<0.00050	**0.0020**	**--**	**--**	**--**	**--**	
MW-1	12/20/2006	109.82	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	03/15/2007	109.82	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	05/21/2007	109.82	7.32	--	102.5	**--**	**--**	**--**	**0.037**	**0.012**	**0.0050**	**0.0040**	**--**	**--**	**--**	**--**	
MW-1	09/27/2007	109.82	6.71	--	103.11	**--**	**--**	**--**	**0.014**	**0.0008**	**0.0010**	**0.0020**	**--**	**--**	**--**	**--**	
MW-1	05/17/2008	109.82	7.39	--	102.43	**--**	**--**	**--**	**0.023**	**0.0030**	**0.0040**	**0.0020**	**--**	**--**	**--**	**--**	
MW-1	06/26/2008	109.82	6.86	--	102.96	**0.39**	**0.30**	**--**	**0.020**	**0.0020**	**0.0020**	<0.0020	**--**	**--**	**--**	**--**	
MW-1	09/17/2008	109.82	6.65	--	103.17	**0.43**	**0.30**	**--**	**0.020**	<0.0010	**0.0010**	**0.0050**	**--**	**--**	**--**	**--**	
MW-1	03/20/2009	109.82	7.92	--	101.9	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	06/09/2009	109.82	6.75	--	103.07	**0.36**	**0.49**	**--**	**0.031**	**0.0057**	**0.0056**	**0.016**	**--**	**--**	**--**	**--**	
MW-1	09/23/2009	109.82	7.59	--	102.23	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	09/24/2009	109.82	--	--	--	**--**	**0.42**	**--**	**0.044**	**0.0020**	**0.0025**	**0.022**	**--**	**--**	**--**	**--**	
MW-1	12/09/2009	109.82	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	03/22/2010	109.82	7.97	--	101.85	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	05/06/2010	109.82	7.45	--	102.37	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	05/10/2010	109.82	7.38	--	102.44	**0.55**	**0.22**	**--**	**0.036**	**0.00060**	**0.00070**	**0.0066**	**--**	**--**	**--**	**--**	
MW-1	10/05/2010	109.82	7.44	--	102.38	**--**	**0.20**	**--**	**0.029**	**0.0012**	<0.00050	**0.0085**	**--**	**--**	**--**	**--**	
MW-1	12/21/2010	109.82	6.61	--	103.21	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	03/09/2011	109.82	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	06/13/2011	109.82	7.30	--	102.52	**0.60**	**0.13**	**--**	**0.010**	**0.00070**	<0.00050	**0.0038**	**--**	**--**	**--**	**--**	
MW-1	09/15/2011	109.82	7.50	--	102.32	**--**	**0.15**	**--**	**0.020**	**0.0014**	<0.00050	**0.0078**	**--**	**--**	**--**	**--**	
MW-1	12/08/2011	109.82	6.59	--	103.23	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	03/21/2012	109.82	7.80	--	102.02	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	06/20/2012	109.82	6.38	--	103.44	**--**	**--**	**--**	**0.0020**	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-1	09/19/2012	109.82	5.94	--	103.88	**--**	**--**	**--**	**0.0014J**	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-1	11/06/2012	110.54	5.25	--	105.29	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	04/01/2013	110.54	7.85	--	102.69	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	05/02/2013	110.54	7.60	--	102.94	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	09/18/2013	110.54	6.51	--	104.03	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	09/19/2013	110.54	--	--	--	<0.42	**0.166**	**--**	**0.0186**	<0.00100	<0.00100	<0.00300	**--**	**--**	**--**	**--**	
MW-1	11/12/2013	110.54	6.59	--	103.95	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	03/27/2014	110.54	7.63	--	102.91	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	05/12/2014	110.54	7.28	--	103.26	<0.42	**0.152**	**--**	**0.0112**	<0.00100	<0.00100	<0.00300	**--**	**--**	**--**	**--**	
MW-1	05/12/2014	110.54	--	--	--	<0.40	<0.10	**--**	**0.0026**	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-1	09/12/2014	110.54	7.11	--	103.43	<0.40	<0.10	**--**	**0.0023**	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-1	11/14/2014	110.54	7.76	--	102.78	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	03/06/2015	110.54	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	04/30/2015	110.54	7.72	--	102.82	**0.56**	**0.28**	**--**	**0.018**	**0.00080J**	<0.00050	**0.012**	**--**	**--**	**--**	**--**	
MW-1	09/22/2015	110.54	6.28	--	104.26	**0.15J**	**0.048J**	**--**	**0.00070J**	<0.00050	<0.00050	**0.00060J**	**--**	**--**	**--**	**--**	
MW-1	11/09/2015	110.54	7.36	--	103.18	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	03/09/2016	110.54	6.88	--	103.66	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	06/06/2016	110.54	7.31	--	103.23	**0.40**	**0.053 J**	**--**	**0.003**	<0.0005	<0.0005	**0.002**	**--**	**--**	**--**	**--**	
MW-1	09/21/2016	110.54	7.11	--	103.43	**0.50**	**2.2**	**--**	**0.0008 J**	<0.0005	<0.0005	**0.001**	**--**	**--**	**--**	**--**	
MW-1	11/01/2016	110.54	7.48	--	103.06	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	04/13/2017	110.54	7.75	--	102.79	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	06/01/2017	110.54	7.59	--	102.95	**0.23 J**	**0.28**	**--**	**0.009**	**0.002**	**0.0008 J**	**0.017**	<0.0005	**--**	**--**	**--**	
MW-1	08/16/2017	110.54	7.53	--	103.01	**0.29 J**	**0.60**	**--**	**0.027**	**0.002**	**0.0007 J**	**0.037**	<0.0005	**--**	**--**	**--**	
MW-1	11/10/2017	110.54	6.74	--	103.80	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

Table 3. Historical Groundwater Gauging and Analytical Results
Third Quarter 1998 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**1.1**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.0017**	
MW-1	03/27/2018	110.54	8.01	--	102.53	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	06/18/2018	110.54	6.59	--	103.95	**0.22 J**	**0.41**	**--**	**0.022**	**0.003**	**0.001**	**0.056**	<0.0005	**--**	**--**	**--**	
MW-1	08/08/2018	110.54	7.33	--	103.21	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	10/31/2018	110.54	7.32	--	103.22	**0.64 J**	**0.77**	**--**	**0.038**	**0.003**	**0.0008 J**	**0.11**	<0.0002	**--**	**--**	**--**	
MW-1	3/29/2019	110.63	7.61	0.00	103.02	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-1	5/14/2019	110.63	7.08	0.00	103.55	<0.26 B J	**0.2**	**--**	**0.004**	<0.001 B	<0.0004	**0.016**	<0.0002	**--**	**--**	**--**	
MW-1	9/17/2019	110.63	7.65	0.00	102.98	**0.35**	**0.11 J**		**0.0052**	< 0.00068 B	< 0.00020 B	**0.016**	**--**	**--**	**--**	**--**	
MW-1	11/04/2019	110.63	7.38	0.00	103.25	--	--	--	--	--	--	--	--	--	--	**--**	
MW-1	3/25/2020	110.63	7.86	0.00	102.77	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/29/2020	110.63	7.40	0.00	103.23	**1.04**	<0.100 B	--	**0.0065**	**0.000541 J**	<0.00100	**0.00848**	<0.00100	<0.0000500	<0.00100	***<0.00500***	
MW-1	7/27/2020	110.63	7.31	0.00	103.32	<0.800	**0.0918 J**	--	**0.00984**	**0.000655 J**	<0.00100	**0.0106**	<0.00100	<0.0000500	<0.00100	***<0.00500***	
MW-2	09/03/1998	100.96	8.51	--	92.45	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	05/20/2000	100.96	8.55	--	92.41	<0.25	**--**	**--**	**--**	**--**	**--**	**--**	<0.0020	**--**	**--**	**--**	
MW-2	09/21/2000	100.96	8.67	--	92.29	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	09/26/2000	100.96	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	05/01/2001	100.96	9.00	--	91.96	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	09/25/2001	100.96	8.72	--	92.24	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	05/07/2002	100.96	8.62	--	92.34	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	09/29/2002	100.96	7.94	--	93.02	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	06/06/2003	110.64	8.53	--	102.11	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	10/03/2003	110.64	7.94	--	102.70	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	12/18/2003	110.64	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	03/22/2004	110.64	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	06/09/2004	110.64	8.12	--	102.52	**0.53**	**0.051**	**--**	**0.014**	<0.00050	<0.00050	<0.00050	<0.0020	**--**	**--**	**--**	
MW-2	09/21/2004	110.64	8.99	--	101.65	**0.43**	**0.050**	**--**	**0.0090**	<0.00050	<0.00050	**0.00050**	<0.0020	**--**	**--**	**--**	
MW-2	10/29/2004	110.64	--	--	--	**0.24**	**0.046**	**0.42**	**0.017**	<0.00050	<0.00050	<0.00050	<0.00050	**--**	**--**	**--**	
MW-2	12/06/2004	110.64	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	03/21/2005	110.64	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	05/15/2005	110.64	8.09	--	102.55	**0.51**	**0.034**	**--**	**0.0060**	<0.00050	<0.00050	<0.00050	<0.0020	**--**	**--**	**--**	
MW-2	09/28/2005	110.64	8.84	--	101.80	**0.060**	**0.015**	**--**	**0.0030**	<0.00050	<0.00050	<0.00050	<0.0020	**--**	**--**	**--**	
MW-2	12/07/2005	110.64	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	04/07/2006	110.64	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	05/18/2006	110.64	8.76	--	101.88	**0.62**	**0.075**	**--**	**0.011**	<0.00050	<0.00050	**0.0020**	**--**	**--**	**--**	**--**	
MW-2	9/28/2006	110.64	7.61	--	103.03	**0.26** [<0.24]	**0.084 [0.090]**	**--**	**0.0080 [0.012]**	<0.00050 [<0.00050]	<0.00050 [<0.00050]	**0.0010 [0.0020]**	**--**	**--**	**--**	**--**	
MW-2	12/20/2006	110.64	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	03/15/2007	110.64	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	05/21/2007	110.64	8.51	--	102.13	**--**	**--**	**--**	**0.0070**	<0.00050	<0.00050	**0.0030**	**--**	**--**	**--**	**--**	
MW-2	09/27/2007	110.64	7.89	--	102.75	**--**	**--**	**--**	**0.0030**	<0.00050	<0.00050	**0.0010**	**--**	**--**	**--**	**--**	
MW-2	05/17/2008	110.64	8.59	--	102.05	**--**	**--**	**--**	**0.0040**	<0.00050	<0.00050	**0.0020**	**--**	**--**	**--**	**--**	
MW-2	06/26/2008	110.64	8.03	--	102.61	**0.50**	**0.020**	**--**	**0.0020**	<0.0010	<0.0010	<0.0020	**--**	**--**	**--**	**--**	
MW-2	09/17/2008	110.64	7.71	--	102.93	**0.49**	**0.070**	**--**	**0.0010**	<0.0010	<0.0010	**0.0030**	**--**	**--**	**--**	**--**	
MW-2	03/20/2009	110.64	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	06/08/2009	110.64	7.80	--	102.84	**0.26**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-2	09/23/2009	110.64	8.68	--	101.96	**--**	**0.039**	**--**	**0.00080**	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-2	12/09/2009	110.64	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	03/22/2010	110.64	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	05/06/2010	110.64	8.51	--	102.13	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	05/10/2010	110.64	8.42	--	102.22	**0.22**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-2	10/05/2010	110.64	9.53	--	101.11	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-2	12/21/2010	110.64	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	03/09/2011	110.64	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	06/13/2011	110.64	8.32	--	102.32	**0.47**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-2	09/15/2011	110.64	8.55	--	102.09	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-2	12/08/2011	110.64	7.65	--	102.99	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	03/21/2012	110.64	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	06/20/2012	110.64	7.32	--	103.32	**--**	**--**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-2	09/19/2012	110.64	6.81	--	103.83	**--**	**--**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-2	11/06/2012	111.15	6.17	--	104.98	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	04/01/2013	111.15	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	05/02/2013	111.15	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	09/18/2013	111.15	7.45	--	103.70	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	09/19/2013	111.15	--	--	--	<0.42	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-2	11/12/2013	111.15	7.49	--	103.66	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	03/27/2014	111.15	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	05/12/2014	111.15	8.15	--	103.00	<0.40	<0.10	**--**	**0.0018**	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-2	05/12/2014	111.15	--	--	--	<0.45	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-2	09/12/2014	111.15	8.04	--	103.11	<0.40	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-2	09/12/2014	111.15	--	--	--	<0.40	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-2	11/14/2014	111.15	8.61	--	102.54	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	03/06/2015	111.15	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	04/30/2015	111.15	8.62	--	102.53	**0.62**	<0.10	**--**	<0.00050	<0.00050	<0.00050	<0.00050	**--**	**--**	**--**	**--**	

Table 3. Historical Groundwater Gauging and Analytical Results
Third Quarter 1998 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**1.1**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.0017**	
MW-2	09/22/2015	111.15	8.21	--	102.94	**0.070J**	<0.10	**--**	<0.00050	<0.00050	<0.00050	<0.00050	**--**	**--**	**--**	**--**	
MW-2	11/09/2015	111.15	8.22	--	102.93	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	03/09/2016	111.15	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	06/06/2016	111.15	8.00	--	103.15	**0.72**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-2	09/21/2016	111.15	7.92	--	103.23	**0.78**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-2	11/01/2016	111.15	8.33	--	102.82	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	04/13/2017	111.15	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	06/01/2017	111.15	8.42	--	102.73	**0.12 J**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	
MW-2	08/16/2017	111.15	8.42	--	102.73	**0.18 J**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	
MW-2	11/10/2017	111.15	7.56	--	103.59	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	03/27/2018	111.15	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	06/18/2018	111.15	7.33	--	103.82	**0.22 J**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	
MW-2	08/08/2018	111.05	8.11	--	102.94	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	TOC adjusted for 0.1 ft cut
MW-2	10/30/2018	111.15	8.01	--	103.14	<0.20 J	<0.014	**--**	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	**--**	**--**	**--**	
MW-2	3/29/2019	111.09	8.39	0.00	102.70	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	5/14/2019	111.09	7.96	0.00	103.13	<0.28 B J	<0.014	**--**	<0.0002	<0.0002	<0.0004	<0.001	<0.0002	<0.0002	<0.0003	<0.001	
MW-2	9/17/2019	111.09	8.54	0.00	102.55	**0.43**	<0.1	**--**	**--**	< 0.000050	< 0.00020 B	<0.00050 B	< 0.000070	< 0.0000020	**--**	<0.00022	
MW-2	11/04/2019	111.09	8.23	0.00	102.86	--	--	--	--	--	--	--	--	--	--	**--**	
MW-2	3/25/2020	111.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well not accessible due to ice berm
MW-2	4/29/2020	111.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate well due to snow and ice
MW-2	7/27/2020	111.09	5.11	0.00	105.98	**0.253 J** [<0.800]	<0.100 [<0.100]	--	<0.00100[<0.00100]	<0.00100[<0.00100]	<0.00100[<0.00100]	<0.00300 [<0.00300]	<0.00100[<0.00100]	<0.00000500 ***[<0.000250]***	<0.00100[<0.00100]	***:0.00500[<0.00500]***	
MW-3	09/03/1998	100.55	8.60	--	91.95	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	05/20/2000	100.55	8.50	--	92.05	**2.59**	**--**	**--**	**--**	**--**	**--**	**--**	<0.010	**--**	**--**	**--**	
MW-3	09/21/2000	100.55	8.83	--	91.72	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	05/01/2001	100.55	8.94	--	91.61	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	09/25/2001	100.55	8.95	--	91.60	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	05/07/2002	110.84	8.42	--	102.42	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	09/29/2002	110.84	7.74	--	103.10	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	06/06/2003	110.90	8.78	--	102.12	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	10/03/2003	110.90	7.73	--	103.17	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	12/18/2003	110.90	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	03/22/2004	110.90	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	06/09/2004	110.90	8.29	--	102.61	**3.4**	**15**	**--**	**0.65**	**0.26**	**0.59**	**2.6**	<0.0020	**--**	**--**	**--**	
MW-3	09/21/2004	110.90	9.13	--	101.77	**5.9**	**16**	**--**	**0.57**	**0.18**	**0.62**	**2.4**	<0.0020	**--**	**--**	**--**	
MW-3	10/29/2004	110.90	--	--	--	**--**	**10**	**--**	**0.33**	**0.15**	**0.56**	**1.6**	<0.0010	**--**	**--**	**--**	
MW-3	12/06/2004	110.90	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	03/21/2005	110.90	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	05/15/2005	110.90	8.72	--	102.18	**3.3**	**14**	**--**	**0.57**	**0.39**	**0.53**	**1.9**	<0.0020	**--**	**--**	**--**	
MW-3	09/28/2005	110.90	7.79	--	103.11	**2.9**	**12**	**--**	**0.27**	**0.17**	**0.54**	**2.1**	<0.0020	**--**	**--**	**--**	
MW-3	12/07/2005	110.90	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	04/07/2006	110.90	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	05/18/2006	110.90	8.57	--	102.33	**2.3**	**15**	**--**	**0.42**	**0.51**	**0.61**	**2.5**	**--**	**--**	**--**	**--**	
MW-3	09/28/2006	110.90	7.24	--	103.66	**2.9**	**12**	**--**	**0.20**	**0.18**	**0.43**	**1.6**	**--**	**--**	**--**	**--**	
MW-3	12/20/2006	110.90	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	03/15/2007	110.90	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	5/21/2007	110.90	8.49	--	102.41	**2.5 [2.4]**	**11 [9.4]**	**--**	**0.50 [0.41]**	**0.13 [0.086]**	**0.50 [0.48]**	**1.8 [1.7]**	**--**	**--**	**--**	**--**	
MW-3	9/27/2007	110.90	7.71	--	103.19	**3.2 [3.2]**	**7.2 [11]**	**--**	**0.39 [0.38]**	**0.48 [0.43]**	**0.50 [0.52]**	**1.7 [1.7]**	**--**	**--**	**--**	**--**	
MW-3	5/17/2008	110.90	8.43	--	102.47	**2.0 [2.1]**	**16 [16]**	**--**	**0.48 [0.49]**	**0.54 [0.56]**	**0.77 [0.75]**	**2.8 [2.7]**	**--**	**--**	**--**	**--**	
MW-3	06/26/2008	110.90	8.16	--	102.74	**2.6**	**11**	**--**	**0.30**	**0.20**	**0.50**	**1.8**	**--**	**--**	**--**	**--**	
MW-3	09/17/2008	110.90	7.68	--	103.22	**2.1**	**14**	**--**	**0.30**	**0.50**	**0.70**	**2.5**	**--**	**--**	**--**	**--**	
MW-3	03/20/2009	110.90	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	06/08/2009	110.90	7.95	--	102.95	**1.5**	**13**	**--**	**0.26**	**0.19**	**0.55**	**2.0**	**--**	**--**	**--**	**--**	
MW-3	09/23/2009	110.90	8.86	--	102.04	**2.3**	**14**	**--**	**0.39**	**0.17**	**0.69**	**2.4**	**--**	**--**	**--**	**--**	
MW-3	12/09/2009	110.90	7.99	--	102.91	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	03/22/2010	110.90	9.22	--	101.68	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	05/06/2010	110.90	8.29	--	102.61	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	05/10/2010	110.90	8.56	--	102.34	**2.1**	**12**	**--**	**0.38**	**0.098**	**0.6**	**2.3**	**--**	**--**	**--**	**--**	
MW-3	10/05/2010	110.90	8.69	--	102.21	**2.1**	**10**	**--**	**0.20**	**0.065**	**0.52**	**1.5**	**--**	**--**	**--**	**--**	
MW-3	12/21/2010	110.90	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	03/09/2011	110.90	9.21	--	101.69	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	06/13/2011	110.90	8.40	--	102.50	**2.2**	**8.1**	**--**	**0.38**	**0.057**	**0.39**	**1.2**	**--**	**--**	**--**	**--**	
MW-3	09/15/2011	110.90	8.69	--	102.21	**2.5**	**12**	**--**	**0.15**	**0.14**	**0.48**	**1.9**	**--**	**--**	**--**	**--**	
MW-3	12/08/2011	110.90	7.37	--	103.53	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	03/21/2012	110.90	9.01	--	101.89	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	6/20/2012	110.90	7.95	--	102.95	**2.8 [1.9]**	**12**	**--**	**0.10**	**0.061**	**0.47**	**1.7**	**--**	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-3	9/19/2012	110.90	6.81	--	104.09	**3.2 [1.8]**	**11**	**--**	**0.095**	**0.038**	**0.520**	**1.70**	**--**	**--**	**--**	**--**	
MW-3	11/06/2012	111.42	6.55	--	104.87	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	04/01/2013	111.42	9.02	--	102.40	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	05/02/2013	111.42	8.71	--	102.71	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	09/18/2013	111.42	7.29	--	104.13	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	09[19[2013	111.42	--	--	--	**3.4 [2.2]**	**8.98**	**--**	**0.101**	**0.0365**	**0.411**	**1.27**	**--**	**--**	**--**	**--**	

Table 3. Historical Groundwater Gauging and Analytical Results
Third Quarter 1998 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**1.1**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.0017**	
MW-3	11/12/2013	111.42	7.98	--	103.44	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	03/27/2014	111.42	8.58	--	102.84	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	05/12/2014	111.42	8.07	--	103.35	**2.7**	**8.46**	**--**	**0.142**	**0.0198**	**0.317**	**1.13**	**--**	**--**	**--**	**--**	
MW-3	05/12/2014	111.42	--	--	--	**2.0**	**9.65**	**--**	**0.143**	**0.0126**	**0.378**	**0.804**	**--**	**--**	**--**	**--**	
MW-3	09/12/2014	111.42	7.95	--	103.47	**2.4**	**6.65**	**--**	**0.0320**	**0.0141**	**0.216**	**0.686**	**--**	**--**	**--**	**--**	
MW-3	11/14/2014	111.42	8.83	--	102.59	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	03/06/2015	111.42	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	04/30/2015	111.42	8.71	--	102.71	**5.2**	**11**	**--**	**0.24**	**0.058**	**0.40**	**1.4**	**--**	**--**	**--**	**--**	
MW-3	09/22/2015	111.42	8.10	--	103.32	**3.6**	**7.6**	**--**	**0.26**	**0.042**	**0.39**	**1.3**	**--**	**--**	**--**	**--**	
MW-3	11/09/2015	111.42	8.12	--	103.30	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	03/09/2016	111.42	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	6/6/2016	111.42	7.98	--	103.44	**5.2 [6.0]**	**17[18]**	**--**	**0.21 [0.22]**	**0.052 [0.054]**	**0.67 [0.72]**	**3.4 [3.6]**	**--**	**--**	**--**	**--**	
MW-3	09/21/2016	111.42	7.82	--	103.60	**2.7**	**3.7**	**--**	**0.088**	**0.01**	**0.13**	**0.48**	**--**	**--**	**--**	**--**	
MW-3	11/01/2016	111.42	8.22	--	103.20	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	04/13/2017	111.42	8.23	--	103.19	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	06/01/2017	111.42	8.17	--	103.25	**2.2**	**11**	**--**	**0.13**	**0.041**	**0.41**	**1.7**	<0.001	**--**	**--**	**--**	
MW-3	08/16/2017	111.42	8.17	--	103.25	**2.6 J**	**13**	**--**	**0.12**	**0.035**	**0.41**	**1.8**	<0.001	**--**	**--**	**--**	
MW-3	11/10/2017	111.42	7.65	--	103.77	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	03/27/2018	111.42	8.75	--	102.67	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	6/18/2018	111.42	7.10	--	104.32	**1.4 J [1.4 J]**	**11 [11]**	**--**	**0.093 [0.090]**	**0.041 [0.040]**	**0.38 [0.38]**	**1.8 [1.8]**	<0.0005 [<0.0005]	**--**	**--**	**--**	
MW-3	08/09/2018	111.42	8.02	--	103.40	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	10/30/2018	111.42	8.00	--	103.42	**2.1 [1.6 J]**	**6.6 [6.5]**	**--**	**0.093 [0.093]**	**0.023 [0.023]**	**0.30 [0.30]**	**1.1 [1.1]**	<0.004 [<0.001]	**--**	**--**	**--**	
MW-3	3/29/2019	111.44	5.32	0.00	106.12	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	5/14/2019	111.44	8.12	0.00	103.32	<0.39 B J	**1.2**	**--**	**0.011**	<0.003 B	**0.036**	**0.11**	<0.0002	**--**	**--**	**--**	
MW-3	9/17/2019	111.44	8.81	0.00	102.63	**1.6**	**4.0**	**--**	**--**	**0.0084**	**0.28 D**	**0.701 D**	< 0.000070	< 0.0000020	**--**	**0.090 J**	
MW-3	11/04/2019	111.44	8.45	0.00	102.99	--	--	--	--	--	--	--	--	--	--	**--**	
MW-3	3/25/2020	111.44	8.85	0.00	102.59	--	--	--	--	--	--	--	--	--	--	--	
MW-3	4/29/2020	111.44	8.18	0.00	103.26	--	--	--	--	--	--	--	--	--	--	--	Well obstructed by ice could not be sampled
MW-3	7/28/2020	111.44	8.34	0.00	103.10	**1.48 [1.04]**	**2.57 [2.62]**	--	**0.0684 [0.0703]**	**0.0149 [0.0152]**	**0.222 [0.196]**	**0.545 [0.465]**	<0.00100[<0.00100]	**0.00035 *[<0.000250]***	<0.00100[<0.00100]	**0.0645 [0.0619]**	DTW from gauging event on 7/27/2020
MW-4	08/16/2000	--	6.15	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	09/21/2000	--	6.30	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	09/26/2000	--	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	05/01/2001	--	6.68	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	09/25/2001	--	6.39	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	05/07/2002	108.14	7.00	--	101.14	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	09/29/2002	108.14	5.67	--	102.47	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	06/06/2003	108.26	6.18	--	102.08	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	10/03/2003	108.26	5.64	--	102.62	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	12/18/2003	108.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	03/22/2004	108.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	06/09/2004	108.26	5.86	--	102.40	**1.0**	**1.7**	**--**	**0.11**	**0.0040**	**0.045**	**0.075**	<0.0020	**--**	**--**	**--**	
MW-4	06/09/2004	108.26	--	--	--	**0.61**	**0.12**	**--**	**0.0070**	<0.00050	<0.00050	**0.0040**	<0.0020	**--**	**--**	**--**	
MW-4	09/21/2004	108.26	6.78	--	101.48	**0.32**	**0.061**	**--**	<0.00050	<0.00050	<0.00050	**0.0030**	<0.0020	**--**	**--**	**--**	
MW-4	09/21/2004	108.26	--	--	--	**0.43**	**0.064**	**--**	<0.00050	<0.00050	<0.00050	**0.0030**	<0.0020	**--**	**--**	**--**	
MW-4	12/06/2004	108.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	03/21/2005	108.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	05/15/2005	108.26	5.94	--	102.32	**0.84**	**0.089**	**--**	**0.0010**	<0.00050	<0.00050	**0.0040**	<0.0020	**--**	**--**	**--**	
MW-4	09/28/2005	108.26	9.40	--	98.86	**1.8**	**0.026**	**--**	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	**--**	**--**	**--**	
MW-4	12/07/2005	108.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	04/07/2006	108.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	05/18/2006	108.26	6.61	--	101.65	**0.75**	**0.026**	**--**	<0.00050	<0.00050	<0.00050	**0.0010**	**--**	**--**	**--**	**--**	
MW-4	09/28/2006	108.26	5.44	--	--	**1.8**	**0.10**	**--**	**0.0020**	<0.00050	<0.00050	**0.0010**	**--**	**--**	**--**	**--**	
MW-4	12/20/2006	108.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	03/15/2007	108.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	05/21/2007	108.26	6.36	--	101.90	**0.64**	**--**	**--**	**0.0010**	<0.00050	<0.00050	**0.0020**	**--**	**--**	**--**	**--**	
MW-4	09/27/2007	108.26	5.85	--	102.41	**0.85**	**--**	**--**	<0.00050	<0.00050	<0.00050	**0.0010**	**--**	**--**	**--**	**--**	
MW-4	05/19/2008	108.26	6.53	--	101.73	**0.54**	**--**	**--**	**0.0010**	<0.00050	<0.00050	**0.0020**	**--**	**--**	**--**	**--**	
MW-4	06/26/2008	108.26	5.91	--	102.35	**0.49**	**0.060**	**--**	<0.0010	<0.0010	<0.0010	<0.0020	**--**	**--**	**--**	**--**	
MW-4	09/17/2008	108.26	5.60	--	102.66	**0.44**	**0.050**	**--**	<0.0010	<0.0010	<0.0010	<0.0020	**--**	**--**	**--**	**--**	
MW-4	03/20/2009	108.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	06/09/2009	108.26	5.74	--	102.52	**0.27**	**0.032**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-4	09/23/2009	108.26	6.59	--	101.67	**0.11**	**0.029**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-4	12/09/2009	108.26	5.44	--	102.82	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	03/22/2010	108.26	6.75	--	101.51	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	05/06/2010	108.26	6.25	--	102.01	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	05/10/2010	108.26	7.15	--	101.11	**0.63**	**0.033**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-4	10/05/2010	108.26	6.26	--	102.00	**0.75**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-4	12/21/2010	108.26	5.39	--	102.87	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	03/09/2011	108.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	06/13/2011	108.26	6.08	--	102.18	**0.39**	**0.015**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-4	09/15/2011	108.26	6.36	--	101.90	**0.37**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	

Table 3. Historical Groundwater Gauging and Analytical Results
Third Quarter 1998 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**1.1**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.0017**	
MW-4	12/08/2011	108.26	5.50	--	102.76	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	03/21/2012	108.26	6.67	--	101.59	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	6/20/2012	108.26	5.18	--	103.08	0.17 [<0.048]	**0.019**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-4	9/19/2012	108.26	4.60	--	103.66	0.24 J [<0.050]	**1 [0.014 J]**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-4	11/06/2012	108.94	4.00	--	104.94	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	04/01/2013	108.94	6.79	--	102.15	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	05/02/2013	108.94	6.60	--	102.34	<0.50	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-4	05/02/2013	108.94	--	--	--	<0.50	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-4	09/18/2013	108.94	5.32	--	103.62	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	9/19/2013	108.94	--	--	--	0.55 [<0.43]	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-4	11/12/2013	108.94	5.56	--	103.38	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	03/27/2014	108.94	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	05/12/2014	108.94	6.05	--	102.89	<0.40	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-4	05/12/2014	108.94	--	--	--	<0.42	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-4	09/12/2014	108.94	5.96	--	102.98	<0.40	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-4	11/14/2014	108.94	6.25	--	102.69	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	03/06/2015	108.94	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	04/30/2015	108.94	6.37	--	102.57	**0.37**	**0.019 J**	**--**	<0.00050	<0.00050	<0.00050	<0.00050	**--**	**--**	**--**	**--**	
MW-4	09/22/2015	108.94	5.92	--	103.02	**0.073 J**	**0.014 J**	**--**	<0.00050	<0.00050	<0.00050	<0.00050	**--**	**--**	**--**	**--**	
MW-4	11/09/2015	108.94	5.96	--	102.98	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	03/09/2016	108.94	4.06	--	104.88	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	06/06/2016	108.94	5.72	--	103.22	**0.23 J**	**0.015 J**	**--**	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-4	09/21/2016	108.94	5.72	--	103.22	**0.63**	**0.014 J**	**--**	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-4	11/01/2016	108.94	6.09	--	102.85	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	04/13/2017	108.94	6.49	--	102.45	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	06/01/2017	108.94	6.26	--	102.68	**0.33**	**0.021 J**	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	
MW-4	08/16/2017	108.94	6.26	--	102.68	**0.16 J**	**0.032 J**	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	
MW-4	11/10/2017	108.94	5.34	--	103.60	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	03/27/2018	108.94	6.71	--	102.23	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	06/19/2018	108.94	5.25	--	103.69	**0.15 J**	**0.022 J**	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	
MW-4	08/08/2018	108.84	6.01	--	102.83	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	TOC adjusted for 0.1 ft cut
MW-4	10/30/2018	108.94	5.93	--	103.01	<0.15 J	**0.017 J**	**--**	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	**--**	**--**	**--**	
MW-4	3/29/2019	108.88	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4	5/14/2019	108.88	5.85	0.00	103.03	<0.2 7 B J	**0.033 J**		<0.0002	<0.0002	<0.0004	<0.001	<0.0002	**--**	**--**	**--**	
MW-4	9/17/2019	108.88	6.38	0.00	102.5	**0.26 [0.25 J]**	< 0.1 [< 0.1]	**--**	< 0.000030 [0.000035 J]	< 0.000050 [< 0.000050]	< 0.00020 B [< 0.00020 B]	<0.00050 B [<0.00050 B]	**-- [--]**	**-- [--]**	**-- [--]**	**-- [--]**	
MW-4	11/04/2019	108.88	6.09	0.00	102.79	--	--	--	--	--	--	--	--	--	--	--	
MW-4	3/25/2020	108.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Obstructed by ice at 4.86 ftbtoc
MW-4	4/29/2020	108.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well obstructed by ice at 4.75 ft btoc
MW-4	7/27/2020	108.88	6.00	0.00	102.88	<0.840	**0.0148 J**	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	**0.0000380 J**	**0.000770 J**	***<0.00500***	
MW-5	08/16/2000	--	5.97	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	09/21/2000	--	6.25	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	05/01/2001	--	6.06	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	09/25/2001	--	6.40	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	05/07/2002	108.01	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	09/29/2002	108.01	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	12/07/2002	108.14	6.18	--	101.96	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	06/06/2003	108.14	6.29	--	101.85	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	10/03/2003	108.14	4.79	--	103.35	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	12/18/2003	108.14	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	03/22/2004	108.14	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	06/09/2004	108.14	6.83	--	101.31	**0.70**	**0.32**	**--**	**0.039**	**0.0010**	**0.0090**	**0.020**	<0.0020	**--**	**--**	**--**	
MW-5	09/21/2004	108.14	6.65	--	101.49	**0.53**	**0.33**	**--**	**0.030**	**0.0010**	**0.0030**	**0.022**	<0.0020	**--**	**--**	**--**	
MW-5	12/06/2004	108.14	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	03/21/2005	108.14	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	05/15/2005	108.14	5.87	--	102.27	**0.82**	**0.15**	**--**	**0.015**	<0.00050	**0.0020**	**0.0030**	<0.0020	**--**	**--**	**--**	
MW-5	09/28/2005	108.14	5.42	--	102.72	**0.67**	**0.15**	**--**	**0.015**	**0.00060**	**0.00090**	**0.011**	<0.0020	**--**	**--**	**--**	
MW-5	12/07/2005	108.14	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	04/07/2006	108.14	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	05/18/2006	108.14	6.36	--	101.78	**0.62**	**1.3**	**--**	**0.068**	**0.027**	**0.034**	**0.088**	**--**	**--**	**--**	**--**	
MW-5	09/28/2006	108.14	4.56	--	--	<0.24	**0.17**	**--**	**0.010**	<0.00050	**0.0010**	**0.013**	**--**	**--**	**--**	**--**	
MW-5	12/20/2006	108.14	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	03/15/2007	108.14	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	05/21/2007	108.14	6.11	--	102.03	**--**	**--**	**--**	**0.094**	**0.043**	**0.054**	**0.16**	**--**	**--**	**--**	**--**	
MW-5	09/27/2007	108.14	5.15	--	102.99	**--**	**--**	**--**	**0.030**	**0.0020**	**0.0090**	**0.030**	**--**	**--**	**--**	**--**	
MW-5	05/19/2008	108.14	6.05	--	102.09	**--**	**--**	**--**	**0.039**	**0.0020**	**0.019**	**0.012**	**--**	**--**	**--**	**--**	
MW-5	06/26/2008	108.14	5.87	--	102.27	**--**	**0.20**	**--**	**0.020**	<0.0010	**0.0050**	**0.0030**	**--**	**--**	**--**	**--**	
MW-5	09/17/2008	108.14	6.05	--	102.09	**0.41**	**0.10**	**--**	**0.010**	<0.0010	<0.0010	<0.0020	**--**	**--**	**--**	**--**	
MW-5	03/20/2009	108.14	7.10	--	101.04	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	06/08/2009	108.14	5.51	--	102.63	**0.57**	**1.5**	**--**	**0.042**	**0.020**	**0.041**	**0.11**	**--**	**--**	**--**	**--**	
MW-5	09/23/2009	108.14	6.38	--	101.76	**--**	**0.42**	**--**	**0.024**	**0.0018**	**0.0090**	**0.029**	**--**	**--**	**--**	**--**	
MW-5	12/09/2009	108.14	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

Table 3. Historical Groundwater Gauging and Analytical Results
Third Quarter 1998 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**1.1**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.0017**	
MW-5	03/22/2010	108.14	6.90	--	101.24	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	05/06/2010	108.14	5.69	--	102.45	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	05/10/2010	108.14	5.61	--	102.53	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	10/05/2010	108.14	--	--	--	**--**	**0.054**	**--**	**0.0029**	<0.00050	**0.00090**	**0.0039**	**--**	**--**	**--**	**--**	
MW-5	12/21/2010	108.14	5.86	--	102.28	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	03/09/2011	108.14	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	06/13/2011	108.14	5.90	--	102.24	**0.59**	**0.30**	**--**	**0.015**	**0.0032**	**0.011**	**0.027**	**--**	**--**	**--**	**--**	
MW-5	09/15/2011	108.14	6.34	--	101.8	**--**	**0.68**	**--**	**0.030**	**0.0017**	**0.016**	**0.057**	**--**	**--**	**--**	**--**	
MW-5	12/08/2011	108.14	5.33	--	102.81	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	03/21/2012	108.14	6.50	--	101.64	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	06/20/2012	108.14	5.10	--	103.04	**--**	**--**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-5	09/19/2012	108.14	3.15	--	104.99	**--**	**--**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-5	11/06/2012	108.66	4.10	--	104.56	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	04/01/2013	108.66	6.84	--	101.82	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	5/2/2013	108.66	6.50	--	102.16	**1.2 [0.59]**	**2.54**	**--**	**0.0588**	**0.0205**	**0.0943**	**0.219**	**--**	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-5	5/2/2013	108.66	--	--	--	0.98 [<0.50]	**2.64**	**--**	**0.0577**	**0.0204**	**0.0945**	**0.213**	**--**	**--**	**--**	**--**	
MW-5	09/18/2013	108.66	4.80	--	103.86	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	09/19/2013	108.66	--	--	--	<0.42	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-5	11/12/2013	108.66	5.43	--	103.23	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	03/27/2014	108.66	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	05/12/2014	108.66	5.53	--	103.13	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	05/13/2014	108.66	--	--	--	<0.40	**0.115**	**--**	**0.0028**	<0.0010	<0.0010	**0.0063**	**--**	**--**	**--**	**--**	
MW-5	05/13/2014	108.66	--	--	--	<0.40	**0.109**	**--**	**0.0042**	<0.0010	<0.0010	**0.0074**	**--**	**--**	**--**	**--**	
MW-5	09/12/2014	108.66	5.50	--	103.16	<0.42	**0.214**	**--**	**0.0020**	<0.0010	<0.0010	**0.0048**	**--**	**--**	**--**	**--**	
MW-5	11/14/2014	108.66	6.39	--	102.27	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	03/06/2015	108.66	5.00	--	103.66	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	04/30/2015	108.66	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	09/22/2015	108.66	5.53	--	103.13	**0.65**	**0.014 J**	**--**	<0.00050	<0.00050	<0.00050	<0.00050	**--**	**--**	**--**	**--**	
MW-5	11/09/2015	108.66	8.31	--	100.35	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	03/09/2016	108.66	5.32	--	103.34	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	06/06/2016	108.66	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	09/21/2016	108.66	5.69	--	102.97	**1.1**	**0.041 J**	**--**	**0.0009 J**	<0.0005	<0.0005	**0.001**	**--**	**--**	**--**	**--**	
MW-5	11/01/2016	108.66	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	04/13/2017	108.66	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	06/01/2017	108.66	6.02	--	102.64	**0.52**	**0.78**	**--**	**0.016**	**0.004**	**0.016**	**0.062**	<0.0005	**--**	**--**	**--**	
MW-5	08/16/2017	108.66	6.02	--	102.64	**0.25 J**	**0.32**	**--**	**0.008**	**0.0008 J**	**0.003**	**0.018**	<0.0005	**--**	**--**	**--**	
MW-5	11/10/2017	108.66	5.33	--	103.33	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	03/27/2018	108.66	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	06/19/2018	108.39	4.66	--	103.73	**0.32 J**	**0.24**	**--**	**0.007**	**0.0005 J**	**0.003**	**0.016**	<0.0005	**--**	**--**	**--**	
MW-5	08/08/2018	108.39	5.58	--	102.81	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	10/31/2018	108.39	5.64	--	102.75	**0.50 J**	**0.15**	**--**	**0.005**	**0.0003 J**	**0.0003 J**	**0.013**	<0.0002	**--**	**--**	**--**	
MW-5	3/29/2019	108.76	5.95	0.00	102.81	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	5/13/2019	108.76	5.60	0.00	103.16	<0.26 B J	**0.35**	**--**	**0.008**	<0.001 B	**0.006**	**0.027**	<0.0002	**--**	**--**	**--**	
MW-5	9/17/2019	108.76	6.41	0.00	102.35	**0.33**	**0.22 J**	**--**	**0.0066**	< 0.00059 B	**0.00057**	**0.00138**	**--**	**--**	**--**	**--**	
MW-5	11/04/2019	108.76	5.94	0.00	102.82	--	--	--	--	--	--	--	--	--	--	**--**	
MW-5	3/25/2020	108.76	6.67	0.00	102.09	--	--	--	--	--	--	--	--	--	--	--	
MW-5	4/29/2020	108.76	5.90	0.00	102.86	--	--	--	--	--	--	--	--	--	--	--	Well obstructed by ice, Unable to get pump down the well
MW-5	7/28/2020	108.76	5.94	0.00	102.82	**0.405 J**	**0.146**	--	**0.00527**	**0.000570 J**	**0.00171**	**0.01610**	<0.00100	**0.00002**	<0.00100	**0.00118 J**	DTW from gauging event on 7/27/2020
MW-6	09/21/2000	--	8.28	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	05/01/2001	--	8.76	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	09/25/2001	--	8.25	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	05/07/2002	110.58	8.39	--	102.19	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	09/29/2002	110.58	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	12/07/2002	110.61	8.07	--	102.54	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	06/06/2003	110.61	8.34	--	102.27	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	10/03/2003	110.61	7.85	--	102.76	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	12/18/2003	110.61	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	03/22/2004	110.61	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	06/09/2004	110.61	7.97	--	102.64	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	09/21/2004	110.61	8.70	--	101.91	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	10/29/2004	110.61	--	--	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	**--**	**--**	**--**	
MW-6	12/06/2004	110.61	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	03/21/2005	110.61	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	05/15/2005	110.61	7.61	--	103.00	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	09/28/2005	110.61	7.23	--	103.38	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	12/07/2005	110.61	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	04/07/2006	110.61	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	05/18/2006	110.61	8.51	--	102.10	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	09/28/2006	110.61	7.04	--	103.57	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	12/20/2006	110.61	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	03/15/2007	110.61	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

Table 3. Historical Groundwater Gauging and Analytical Results
Third Quarter 1998 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**1.1**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.0017**	
MW-6	05/21/2007	110.61	8.01	--	102.60	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	09/27/2007	110.61	7.38	--	103.23	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	05/17/2008	110.61	7.89	--	102.72	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	06/26/2008	110.61	7.50	--	103.11	**0.35**	<0.010	**--**	<0.0010	<0.0010	<0.0010	<0.0020	**--**	**--**	**--**	**--**	
MW-6	09/17/2008	110.61	7.26	--	103.35	**0.32**	<0.010	**--**	<0.0010	<0.0010	<0.0010	<0.0020	**--**	**--**	**--**	**--**	
MW-6	03/20/2009	110.61	8.53	--	102.08	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	06/09/2009	110.61	7.50	--	103.11	**1.3**	**0.010**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-6	09/23/2009	110.61	8.02	--	102.59	**0.36**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-6	12/09/2009	110.61	7.37	--	103.24	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	03/22/2010	110.61	8.55	--	102.06	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	05/06/2010	110.61	7.71	--	102.90	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	05/10/2010	110.61	8.40	--	102.21	**1.2**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-6	10/05/2010	110.61	7.96	--	102.65	**2.4**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-6	12/21/2010	110.61	7.67	--	102.94	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	03/09/2011	110.61	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	06/13/2011	110.61	7.80	--	102.81	**3.7**	**0.012**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-6	09/15/2011	110.61	7.99	--	102.62	**2.8**	**0.010**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-6	12/08/2011	110.61	7.94	--	102.67	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	03/21/2012	110.61	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	6/20/2012	110.61	7.29	--	103.32	1.5 [<0.050]	**0.012**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-6	07/05/2012	110.61	--	--	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
MW-6	9/19/2012	110.61	6.76	--	103.85	0.81 [<0.050]	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-6	11/06/2012	111.10	6.54	--	104.56	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	04/01/2013	111.10	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	5/2/2013	111.10	8.25	--	102.85	<0.50 [<0.50]	<0.10	**--**	<0.0010	**0.0013**	<0.0010	<0.0030	**--**	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-6	05/02/2013	111.10	--	--	--	**1.5**	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-6	09/18/2013	111.10	6.85	--	104.25	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	9/19/2013	111.10	--	--	--	1.2 [<0.42]	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-6	11/12/2013	111.10	7.43	--	103.67	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	03/27/2014	111.10	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	05/12/2014	111.10	7.65	--	103.45	**0.89**	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-6	05/12/2014	111.10	--	--	--	**1.6**	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-6	09/12/2014	111.10	5.50	--	105.60	**0.89**	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-6	11/14/2014	111.10	8.54	--	102.56	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	03/06/2015	111.10	7.10	--	104.00	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	04/30/2015	111.10	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	09/22/2015	111.10	7.62	--	103.48	**1.4**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	**--**	**--**	**--**	**--**	
MW-6	11/09/2015	111.10	8.31	--	102.79	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	03/09/2016	111.10	7.35	--	103.75	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	6/7/2016	111.10	7.88	--	103.22	**1.3 [1.3]**	<0.010 [<0.010]	**--**	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	**--**	**--**	**--**	**--**	
MW-6	9/21/2016	111.10	7.44	--	103.66	**2.7 [2.3]**	<0.010 [<0.010]	**--**	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	**--**	**--**	**--**	**--**	
MW-6	11/01/2016	111.10	7.80	--	103.30	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	04/13/2017	111.10	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	06/01/2017	111.10	7.45	--	103.65	**3.0**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	
MW-6	08/16/2017	111.10	7.88	--	103.22	**1.7 J**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	
MW-6	11/10/2017	111.10	7.42	--	103.68	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	03/27/2018	111.10	8.31	--	102.79	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	06/18/2018	111.10	6.91	--	104.19	**2.4 J**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	
MW-6	08/09/2018	111.10	7.71	--	103.39	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	10/31/2018	111.10	7.58	--	103.52	**2.4 J**	<0.014	**--**	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	**--**	**--**	**--**	
MW-6	3/29/2019	111.16	7.85	0.00	103.31	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	5/14/2019	111.16	7.44	0.00	103.72	**0.77 J**	<0.014	**--**	<0.0002	<0.0002	<0.0004	<0.001	<0.0002	<0.0002	<0.0003	<0.001	
MW-6	9/17/2019	111.16	8.08	0.00	103.08	**1.2**	<0.1	**--**	**--**	< 0.00020 B	< 0.00020 B	<0.00050 B	**0.0005**	< 0.0000020	**--**	<0.00022	
MW-6	11/04/2019	111.16	7.72	0.00	103.44	--	--	--	--	--	--	--	--	--	--	--	
MW-6	3/25/2020	111.16	7.99	0.00	103.17	--	--	--	--	--	--	--	--	--	--	--	
MW-6	4/29/2020	111.16	7.44	0.00	103.72	--	--	--	--	--	--	--	--	--	--	--	Well obstructed by ice, Could not be sampled
MW-6	7/27/2020	111.16	7.54	0.00	103.62	**2.30**	<0.100	--	**0.000179 J**	<0.00100	<0.00100	<0.00300	**0.000110 J**	<0.00000500	<0.00100	***<0.00500***	
MW-7	09/29/2002	--	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	12/07/2002	4.87	101.82	--	101.82	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	06/06/2003	4.90	101.79	--	101.79	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	10/03/2003	--	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	10/04/2003	3.22	103.47	--	103.47	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	12/18/2003	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	03/22/2004	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	06/09/2004	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	09/21/2004	106.69	6.26	--	100.43	**7.3**	**8.0**	**--**	**0.26**	**0.031**	**0.29**	**0.73**	<0.0020	**--**	**--**	**--**	
MW-7	12/06/2004	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	03/21/2005	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	05/15/2005	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	09/28/2005	106.69	4.09	--	102.60	**0.22**	**0.089**	**--**	**0.0040**	<0.00050	**0.0030**	**0.0040**	<0.0020	**--**	**--**	**--**	
MW-7	12/07/2005	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

Table 3. Historical Groundwater Gauging and Analytical Results
Third Quarter 1998 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**1.1**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.0017**	
MW-7	04/07/2006	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	05/18/2006	106.69	5.14	--	101.55	**3.3**	**4.5**	**--**	**0.18**	**0.025**	**0.18**	**0.45**	**--**	**--**	**--**	**--**	
MW-7	09/28/2006	106.69	3.55	--	103.14	**4.4**	**3.2**	**--**	**0.077**	**0.0080**	**0.11**	**0.22**	**--**	**--**	**--**	**--**	
MW-7	12/20/2006	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	03/15/2007	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	05/21/2007	106.69	5.05	--	101.64	**0.60**	**3.2**	**--**	**0.16**	**0.014**	**0.15**	**0.42**	**--**	**--**	**--**	**--**	
MW-7	09/27/2007	106.69	4.17	--	102.52	**0.36**	**0.50**	**--**	**0.016**	**0.0020**	**0.024**	**0.056**	**--**	**--**	**--**	**--**	
MW-7	05/19/2008	106.69	5.15	--	101.54	**0.85**	**6.1**	**--**	**0.33**	**0.092**	**0.33**	**1.1**	**--**	**--**	**--**	**--**	
MW-7	06/26/2008	106.69	4.71	--	101.98	**1.6**	**10**	**--**	**0.30**	**0.080**	**0.40**	**1.2**	**--**	**--**	**--**	**--**	
MW-7	09/17/2008	106.69	3.62	--	103.07	**0.51**	**3.6**	**--**	**0.10**	**0.020**	**0.20**	**0.50**	**--**	**--**	**--**	**--**	
MW-7	03/20/2009	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	06/08/2009	106.69	4.45	--	102.24	**1.3**	**10**	**--**	**0.32**	**0.051**	**0.34**	**1.1**	**--**	**--**	**--**	**--**	
MW-7	09/23/2009	106.69	5.19	--	101.50	**1.6**	**11**	**--**	**0.32**	**0.035**	**0.46**	**1.4**	**--**	**--**	**--**	**--**	
MW-7	12/09/2009	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	03/22/2010	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	05/06/2010	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	05/10/2010	106.69	4.61	--	102.08	**1.7**	**4.5**	**--**	**0.18**	**0.050**	**0.19**	**0.54**	**--**	**--**	**--**	**--**	
MW-7	12/21/2010	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	03/09/2011	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	06/13/2011	106.69	4.95	--	101.74	**1.7**	**9.3**	**--**	**0.32**	**0.034**	**0.38**	**1.2**	**--**	**--**	**--**	**--**	
MW-7	09/15/2011	106.69	5.29	--	101.40	**2.1**	**9.0**	**--**	**0.24**	**0.020**	**0.34**	**1.0**	**--**	**--**	**--**	**--**	
MW-7	12/08/2011	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	03/21/2012	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	06/20/2012	106.69	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	9/19/2012	106.69	4.30	--	102.39	**1.1 [0.60]**	**5.1**	**--**	**0.076**	**0.0074**	**0.12**	**0.30**	**--**	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-7	11/06/2012	107.26	2.74	--	104.52	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	04/01/2013	107.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	05/02/2013	107.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	09/18/2013	107.26	3.80	--	103.46	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	9/19/2013	107.26	--	--	--	**1.1 [0.80]**	**2.54**	**--**	**0.0661**	**0.00650**	**0.113**	**0.266**	**--**	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-7	11/12/2013	107.26	4.24	--	103.02	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	03/27/2014	107.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	05/12/2014	107.26	4.62	--	102.64	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	05/13/2014	107.26	--	--	--	<0.40	**0.963**	**--**	**0.0464**	**0.00370**	**0.0482**	**0.0900**	**--**	**--**	**--**	**--**	
MW-7	05/13/2014	107.26	--	--	--	<0.40	**0.538**	**--**	**0.00830**	<0.00100	**0.0108**	**0.0297**	**--**	**--**	**--**	**--**	
MW-7	09/12/2014	107.26	4.50	--	102.76	<0.40	**0.219**	**--**	**0.0038**	<0.0010	**0.0042**	**0.0064**	**--**	**--**	**--**	**--**	
MW-7	11/14/2014	107.26	5.27	--	101.99	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	04/30/2015	107.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	09/22/2015	107.26	4.50	--	102.76	**0.94**	**0.011J**	**--**	<0.00050	<0.00050	<0.00050	<0.00050	**--**	**--**	**--**	**--**	
MW-7	11/09/2015	107.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	03/09/2016	107.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	06/06/2016	107.26	4.31	--	102.95	**1.1**	**0.041 J**	**--**	<0.0005	<0.0005	<0.0005	**0.0007 J**	**--**	**--**	**--**	**--**	
MW-7	09/21/2016	107.26	4.47	--	102.79	**1.2**	**2.3**	**--**	**0.081**	**0.007**	**0.094**	**0.17**	**--**	**--**	**--**	**--**	
MW-7	11/01/2016	107.26	5.02	--	102.24	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	04/13/2017	107.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	06/01/2017	107.26	5.09	--	102.17	**1.4**	**6.9**	**--**	**0.18**	**0.018**	**0.29**	**0.53**	<0.001	**--**	**--**	**--**	
MW-7	08/16/2017	107.26	5.03	--	102.23	**0.73 J**	**5.2**	**--**	**0.12**	**0.015**	**0.20**	**0.54**	<0.0005	**--**	**--**	**--**	
MW-7	11/10/2017	107.26	4.63	--	102.63	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	03/27/2018	107.26	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	6/19/2018	107.06	3.83	--	103.23	**1.0 J [1.1 J]**	**8.6 [9.5]**	**--**	**0.19 [0.18]**	**0.027 [0.025]**	**0.28 [0.26**	**0.68 [0.69]**	<0.0005 [<0.001]	**--**	**--**	**--**	
MW-7	08/09/2018	107.06	4.45	--	102.61	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7	10/31/2018	107.06	4.68	--	102.38	**1.6 J [1.4 J]**	**6.1 [6.0]**	**--**	**0.095 [0.093]**	**0.010 [0.010]**	**0.21 [0.21]**	**0.65 [0.63]**	<0.0004 [<0.0004]	**--**	**--**	**--**	
MW-7	3/29/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well obstructed by ice
MW-7	5/13/2019	107.35	4.33	0.00	103.02	0.43 J [<0.42 B J]	**2.8 [2.9]**	--	**0.15 [0.15]**	**0.042 [0.042]**	**0.22 [0.23]**	**0.42 D [0.45 D]**	<0.0002 [<0.0002]	<0.0002 [<0.0002]	**0.001 [0.001]**	**0.022 [0.023]**	
MW-7	9/17/2019	107.35	5.26	0.00	102.09	**2.2**	**5.8**	**--**	**--**	**0.018**	**0.36 D**	**0.827 D**	< 0.000070	< 0.0000020	**--**	**0.079**	
MW-7	11/04/2019	107.35	4.82	0.00	102.53	--	--	--	--	--	--	--	--	--	--	**--**	
MW-7	3/25/2020	107.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Obstructed by ice at 4.03 ftbtoc
MW-7	4/29/2020	107.35	3.63	0.00	103.72	--	--	--	--	--	--	--	--	--	--	--	Unable to sample well, Well obstructed by ice at 3.85 ft btoc
MW-7	7/28/2020	107.35	4.83	0.00	102.52	**1.90**	**5.13**	--	**0.0996**	**0.0276**	**0.242**	**0.596**	<0.00100	***<0.00125***	<0.00100	**0.0705**	DTW from gauging event on 7/27/2020
MW-8	10/03/2003	108.20	5.55	--	102.65	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	12/18/2003	108.20	5.89	--	102.31	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	03/22/2004	108.20	7.16	--	101.04	**0.90**	**2.2**	**--**	**0.11**	**0.0050**	**0.076**	**0.16**	<0.00050	**--**	**--**	**--**	
MW-8	03/22/2004	108.20	--	--	--	**0.89**	**2.6**	**--**	**0.11**	**0.0050**	**0.078**	**0.16**	<0.00050	**--**	**--**	**--**	
MW-8	06/09/2004	108.20	6.22	--	101.98	**1.3**	**2.6**	**--**	**0.15**	**0.0080**	**0.11**	**0.10**	<0.0020	**--**	**--**	**--**	
MW-8	09/21/2004	108.20	7.27	--	100.93	**1.5**	**4.1**	**--**	**0.23**	**0.014**	**0.15**	**0.34**	<0.0020	**--**	**--**	**--**	
MW-8	12/06/2004	108.20	6.67	--	101.53	**1.1**	**4.8**	**--**	**0.18**	**0.015**	**0.19**	**0.37**	<0.0020	**--**	**--**	**--**	
MW-8	03/21/2005	108.20	7.14	--	101.06	**1.0**	**1.6**	**--**	**0.12**	**0.0030**	**0.080**	**0.027**	<0.0020	**--**	**--**	**--**	
MW-8	03/21/2005	108.20	--	--	--	**0.92**	**1.7**	**--**	**0.12**	**0.0020**	**0.078**	**0.027**	<0.0020	**--**	**--**	**--**	
MW-8	5/15/2005	108.20	6.26	--	101.94	**0.91 [0.60]**	**4.3 [0.086]**	**--**	**0.21 [0.0010]**	0.012 [<0.00050]	0.17 [<0.00050]	**0.16 [0.0030]**	<0.0020 [<0.0020]	**--**	**--**	**--**	
MW-8	09/28/2005	108.20	5.94	--	102.26	**0.92**	**3.5**	**--**	**0.25**	**0.019**	**0.17**	**0.24**	<0.0020	**--**	**--**	**--**	
MW-8	12/07/2005	108.20	6.01	--	102.19	**0.99**	**1.1**	**--**	**0.036**	**0.0030**	**0.026**	**0.027**	<0.0020	**--**	**--**	**--**	

Table 3. Historical Groundwater Gauging and Analytical Results
Third Quarter 1998 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**1.1**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.0017**	
MW-8	04/07/2006	108.20	7.30	--	100.90	**1.1**	**1.5**	**--**	**0.096**	**0.0040**	**0.052**	**0.077**	<0.00050	**--**	**--**	**--**	
MW-8	04/07/2006	108.20	--	--	--	**0.98**	**1.5**	**--**	**0.096**	**0.0040**	**0.050**	**0.069**	<0.00050	**--**	**--**	**--**	
MW-8	05/18/2006	108.20	7.06	--	101.14	**0.72**	**3.6**	**--**	**0.16**	**0.010**	**0.14**	**0.17**	**--**	**--**	**--**	**--**	
MW-8	09/28/2006	108.20	5.82	--	102.38	**1.0**	**4.3**	**--**	**0.19**	**0.016**	**0.17**	**0.40**	**--**	**--**	**--**	**--**	
MW-8	12/20/2006	108.20	5.00	--	103.20	**0.86**	**1.0**	**--**	**0.038**	**0.0027**	**0.027**	**0.040**	**--**	**--**	**--**	**--**	
MW-8	03/15/2007	108.20	7.37	--	100.83	**0.62**	**0.10**	**--**	**0.020**	**0.0020**	**0.010**	**0.020**	**0.0050**	**--**	**--**	**--**	
MW-8	03/15/2007	108.20	--	--	--	**0.70**	**0.030**	**--**	**0.020**	**0.0020**	**0.010**	**0.020**	<0.010	**--**	**--**	**--**	
MW-8	05/21/2007	108.20	7.04	--	101.16	**0.98**	**1.4**	**--**	**0.062**	**0.0020**	**0.047**	**0.030**	**--**	**--**	**--**	**--**	
MW-8	09/27/2007	108.15	6.22	--	101.93	**1.6**	**4.9**	**--**	**0.16**	**0.011**	**0.14**	**0.26**	**--**	**--**	**--**	**--**	
MW-8	12/11/2007	108.15	6.24	--	101.91	**0.75**	**1.7**	**--**	**0.040**	**0.0030**	**0.030**	**0.070**	<0.10	**--**	**--**	**--**	
MW-8	03/04/2008	108.15	6.67	--	101.48	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	05/19/2008	108.15	7.08	--	101.07	**0.72**	**4.9**	**--**	**0.19**	**0.014**	**0.20**	**0.34**	**--**	**--**	**--**	**--**	
MW-8	06/04/2008	108.15	7.74	--	100.41	**0.71**	**2.9**	**--**	**0.10**	**0.010**	**0.10**	**0.20**	**--**	**--**	**--**	**--**	
MW-8	06/26/2008	108.15	6.28	--	101.87	**0.70**	**2.1**	**--**	**0.060**	**0.0040**	**0.050**	**0.040**	**--**	**--**	**--**	**--**	
MW-8	09/17/2008	108.15	5.81	--	102.34	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	09/18/2008	108.15	--	--	--	**0.98**	**6.1**	**--**	**0.20**	**0.020**	**0.20**	**0.50**	**--**	**--**	**--**	**--**	
MW-8	12/10/2008	108.15	6.16	--	101.99	**0.72**	**1.2**	**--**	**0.040**	**0.0030**	**0.020**	**0.050**	<0.010	**--**	**--**	**--**	
MW-8	03/20/2009	108.15	7.46	--	100.69	**0.88**	**0.97**	**--**	**0.027**	**0.0016**	**0.015**	**0.021**	<0.010	**--**	**--**	**--**	
MW-8	06/09/2009	108.15	5.90	--	102.25	**0.68**	**2.4**	**--**	**0.078**	**0.0052**	**0.073**	**0.087**	**--**	**--**	**--**	**--**	
MW-8	09/23/2009	108.15	6.83	--	101.32	**0.78**	**3.6**	**--**	**0.15**	**0.010**	**0.10**	**0.20**	**--**	**--**	**--**	**--**	
MW-8	12/09/2009	108.15	5.99	--	102.16	**0.64**	**1.6**	**--**	**0.038**	**0.0029**	**0.025**	**0.062**	**--**	**--**	**--**	**--**	
MW-8	03/22/2010	108.15	7.33	--	100.82	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	03/25/2010	108.15	--	--	--	**0.64**	**0.87**	**--**	**0.024**	**0.0014**	**0.012**	**0.0072**	**--**	**--**	**--**	**--**	
MW-8	05/06/2010	108.15	6.79	--	101.36	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	05/10/2010	108.15	6.48	--	101.67	**0.79**	**4.8**	**--**	**0.14**	**0.010**	**0.14**	**0.28**	**--**	**--**	**--**	**--**	
MW-8	10/05/2010	108.15	6.88	--	101.27	**0.99**	**2.3**	**--**	**0.091**	**0.0056**	**0.066**	**0.083**	**--**	**--**	**--**	**--**	
MW-8	12/21/2010	108.15	5.60	--	102.55	**0.81**	**1.1**	**--**	**0.020**	**0.0028**	**0.010**	**0.032**	**--**	**--**	**--**	**--**	
MW-8	03/09/2011	108.15	7.41	--	100.74	**0.87**	**1.0**	**--**	**0.026**	**0.0024**	**0.013**	**0.039**	**--**	**--**	**--**	**--**	
MW-8	06/13/2011	108.15	7.60	--	100.55	**1.3**	**2.4**	**--**	**0.084**	**0.0058**	**0.071**	**0.11**	**--**	**--**	**--**	**--**	
MW-8	09/15/2011	108.15	6.91	--	101.24	**1.6**	**4.8**	**--**	**0.15**	**0.013**	**0.11**	**0.26**	**--**	**--**	**--**	**--**	
MW-8	12/8/2011	108.15	5.89	--	102.26	**0.86 [0.22]**	**1.6**	**--**	**0.042**	**0.0034**	**0.029**	**0.062**	**--**	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-8	3/21/2012	108.15	6.62	--	101.53	**0.73 [0.21]**	**1.4**	**--**	**0.027**	**0.0028**	**0.016**	**0.053**	**--**	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-8	6/20/2012	108.15	5.34	--	102.81	**1.1 [0.45]**	**2.7**	**--**	**0.090**	**0.0062**	**0.079**	**0.052**	**--**	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-8	07/05/2012	108.15	--	--	--	**--**	**2.8**	**--**	**0.12**	**0.0088**	**0.10**	**0.080**	**--**	**--**	**--**	**--**	
MW-8	9/19/2012	108.15	4.68	--	103.47	**1.2 [0.53]**	**3.7**	**--**	**0.14**	**0.010**	**0.12**	**0.22**	**--**	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-8	11/6/2012	108.70	4.10	--	104.60	**0.67 [0.33]**	**2.5**	**--**	**0.084**	**0.0036**	**0.10**	**0.019**	**--**	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-8	4/1/2013	108.70	7.30	--	101.40	**0.52** [<0.45]	**0.293**	**--**	**0.0084**	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-8	05/02/2013	108.70	7.15	--	101.55	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	5/3/2013	108.70	--	--	--	0.53 [<0.50]	**0.394**	**--**	**0.0175**	<0.00100	**0.00660**	<0.00300	**--**	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-8	05/03/2013	108.70	--	--	--	<0.50	**0.53**	**--**	**0.0188**	<0.00100	**0.00800**	<0.00300	**--**	**--**	**--**	**--**	
MW-8	9/18/2013	108.70	5.63	--	103.07	**1.20 [0.75]**	**3.72**	**--**	**0.134**	**0.0112**	**0.181**	**0.237**	**--**	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-8	11/12/2013	108.70	5.84	--	102.86	**1.00**	**3.4**	**--**	**0.0980**	**0.00810**	**0.145**	**0.281**	**--**	**--**	**--**	**--**	
MW-8	03/27/2014	108.70	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	05/12/2014	108.70	6.48	--	102.22	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	05/13/2014	108.70	--	--	--	**0.78**	**1.84**	**--**	**0.0709**	**0.00370**	**0.0794**	**0.0687**	**--**	**--**	**--**	**--**	
MW-8	05/13/2014	108.70	--	--	--	**0.75**	**2.08**	**--**	**0.0951**	**0.00430**	**0.0961**	**0.0865**	**--**	**--**	**--**	**--**	
MW-8	09/12/2014	108.70	6.32	--	102.38	**1.0**	**2.86**	**--**	**0.100**	**0.00630**	**0.118**	**0.135**	**--**	**--**	**--**	**--**	
MW-8	09/12/2014	108.70	--	--	--	**0.99**	**2.72**	**--**	**0.103**	**0.00650**	**0.121**	**0.140**	**--**	**--**	**--**	**--**	
MW-8	11/14/2014	108.70	6.80	--	101.90	**1.5**	**1.28**	**--**	**0.0648**	**0.00300**	**0.0589**	**0.0408**	**--**	**--**	**--**	**--**	
MW-8	03/06/2015	108.70	5.10	--	103.60	**0.46**	**0.24**	**--**	**0.0044**	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
MW-8	04/30/2015	108.70	7.02	--	101.68	**0.41**	**0.95**	**--**	**0.020**	**0.0010**	**0.011**	**0.028**	**--**	**--**	**--**	**--**	
MW-8	09/22/2015	108.70	6.53	--	102.17	**0.62**	**2.3**	**--**	**0.13**	**0.010**	**0.12**	**0.25**	**--**	**--**	**--**	**--**	
MW-8	11/09/2015	108.70	6.58	--	102.12	**1.4**	**4.3**	**--**	**0.11**	**0.010**	**0.13**	**0.32**	**--**	**--**	**--**	**--**	
MW-8	03/09/2016	108.70	5.74	--	102.96	**0.088 J**	**0.057 J**	**--**	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-8	06/06/2016	108.70	5.57	--	103.13	**0.30**	**0.054 J**	**--**	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-8	09/21/2016	108.70	6.14	--	102.56	**1.2**	**3.1**	**--**	**0.10**	**0.007**	**0.071**	**0.19**	**--**	**--**	**--**	**--**	
MW-8	11/1/2016	108.70	6.74	--	101.96	**0.57 J [0.58 J]**	**1.7 J [1.8 J]**	**--**	**0.022 [0.022]**	**0.002 [0.002]**	**0.012 [0.012]**	**0.051 [0.052]**	**--**	**--**	**--**	**--**	
MW-8	04/13/2017	108.70	7.16	--	101.54	**0.28 [0.24 J]**	**0.61 [0.52]**	**--**	**0.01 [0.009]**	**0.0007 J [0.0007 J]**	**0.004 [0.004]**	**0.006 [0.005]**	<0.0005 [<0.0005]	**--**	**--**	**--**	
MW-8	06/01/2017	108.70	6.83	--	101.87	**0.75**	**1.7**	**--**	**0.042**	**0.003**	**0.058**	**0.055**	<0.0005	**--**	**--**	**--**	
MW-8	08/16/2017	108.70	6.85	--	101.85	**0.39 J [0.48 J]**	**2.2 [2.2]**	**--**	**0.059 [0.058]**	**0.004 [0.004]**	**0.040 [0.039]**	**0.038 [0.035]**	<0.0005 [<0.0005]	**--**	**--**	**--**	
MW-8	11/10/2017	108.70	6.34	--	102.36	**0.43 [0.46]**	**1.6 [1.5]**	**--**	**0.017 [0.018]**	**0.001 [0.001]**	**0.015 [0.016]**	**0.026 [0.027]**	**--**	**--**	**--**	**--**	
MW-8	03/27/2018	108.70	7.37	--	101.33	**0.44 J [0.34 J]**	**0.55 [0.54]**	**--**	**0.004 [0.004]**	<0.0005 [<0.0005]	<0.0005 [<0.0005]	**0.006 [0.006]**	<0.0005 [<0.0005]	**--**	**--**	**--**	
MW-8	06/19/2018	108.70	5.38	--	103.32	**0.27 J**	**1.1**	**--**	**0.023**	**0.0009 J**	**0.027**	**0.004**	<0.0005	**--**	**--**	**--**	
MW-8	08/08/2018	108.70	6.32	--	102.38	**0.27 [0.29]**	**0.70 [0.68]**	**--**	**0.015 [0.015]**	**0.0004 J [0.0003 J]**	**0.007 [0.007]**	<0.0005 [<0.0005]	<0.0002 [<0.0002]	**--**	**--**	**--**	
MW-8	10/31/2018	108.70	6.51	--	102.19	**0.78 J**	**1.2**	**--**	**0.052**	**0.003**	**0.029**	**0.053**	<0.0002	**--**	**--**	**--**	
MW-8	3/29/2019	108.70	6.30	0.00	102.4	**1.3**	**0.48**	**--**	**0.02**	**0.002**	**0.017**	**0.051**	**--**	**--**	**--**	**--**	
MW-8	5/14/2019	108.70	6.30	0.00	102.4	**0.54 J**	**2.8**	**--**	**0.06**	**0.005**	**0.074**	**0.13**	<0.0002J	**--**	**--**	**--**	
MW-8	9/17/2019	108.70	6.98	0.00	101.72	**0.56**	**0.28**	**--**	**0.0073**	< 0.00025 B	**< 0.00022 B**	**0.00136 J**	**--**	**--**	**--**	**--**	
MW-8	11/04/2019	108.70	6.50	0.00	102.20	**0.51 [0.64]**	**1.2 [1.2]**	--	**0.047 [0.047]**	**0.0034 [0.0032]**	**0.03 [0.03]**	**0.0706 [0.0696]**	-- [--]	-- [--]	--	**--**	
MW-8	3/25/2020	108.70	6.93	0.00	101.77	**0.484 J**	**0.0606 J**	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.0000500	<0.00100	--	
MW-8	4/29/2020	108.70	6.69	0.00	102.01	**0.504 J [0.455 J]**	**0.467 [0.478]**	--	**0.0226 [0.0229]**	**0.00135 [0.00143]**	**0.0213 [0.0221]**	**0.0371 [0.0379]**	<0.00100 [<0.00100]	***<0.000500 [<0.000500]***	<0.00100 [<0.00100]	**.00111 J [0.00117 J]**	
MW-8	7/27/2020	108.70	6.36	0.00	102.34	**0.399 J**	**0.526**	--	**0.0321**	**0.00122**	**0.0159**	**0.0358**	<0.00100	**0.0032**	<0.00100	***<0.00500***	

Table 3. Historical Groundwater Gauging and Analytical Results
Third Quarter 1998 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**1.1**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.0017**	
MW-9	10/03/2003	107.27	4.73	--	102.54	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-9	12/18/2003	107.27	5.03	--	102.24	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-9	03/22/2004	107.27	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-9	06/09/2004	107.27	5.45	--	101.82	**1.0**	**2.1**	**--**	**0.16**	**0.0070**	**0.074**	**0.12**	<0.0020	**--**	**--**	**--**	
MW-9	09/21/2004	107.27	5.57	--	101.70	**0.26**	<0.010	**--**	**0.00060**	<0.00050	<0.00050	<0.00050	<0.0020	**--**	**--**	**--**	
MW-9	12/06/2004	107.27	5.59	--	101.68	**0.69**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	**--**	**--**	**--**	
MW-9	03/21/2005	107.27	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-9	05/15/2005	107.27	5.57	--	101.70	**2.6**	**0.052**	**--**	**0.011**	<0.00050	**0.00080**	**0.00060**	<0.0020	**--**	**--**	**--**	
MW-9	09/28/2005	107.27	5.22	--	102.05	**1.1**	**1.1**	**--**	**0.10**	**0.0020**	**0.035**	**0.057**	<0.0020	**--**	**--**	**--**	
MW-9	12/07/2005	107.27	5.24	--	102.03	**0.73**	**0.33**	**--**	**0.065**	**0.00060**	**0.0040**	**0.0010**	<0.0020	**--**	**--**	**--**	
MW-9	04/07/2006	107.27	6.47	--	100.80	**0.096**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	**--**	**--**	**--**	
MW-9	05/18/2006	107.27	6.29	--	100.98	**1.2**	**0.019**	**--**	**0.0010**	<0.00050	<0.00050	<0.00050	--	**--**	**--**	**--**	
MW-9	09/28/2006	107.27	4.66	--	102.61	**1.6**	**0.060**	**--**	**0.0010**	<0.00050	<0.00050	<0.00050	--	**--**	**--**	**--**	
MW-9	12/20/2006	107.27	3.85	--	103.42	**0.54**	**0.60**	**--**	**0.048**	**0.0013**	**0.024**	**0.027**	--	**--**	**--**	**--**	
MW-9	03/15/2007	107.27	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9	05/21/2007	107.27	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9	09/27/2007	107.27	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	09/27/2007	107.58	5.78	--	101.80	**0.41**	**0.40**	**--**	**0.037**	**0.0020**	**0.024**	**0.035**	--	**--**	**--**	**--**	
MW-9R	12/11/2007	107.58	6.25	--	101.33	**0.63**	**1.8**	**--**	**0.10**	**0.0050**	**0.070**	**0.10**	<0.10	**--**	**--**	**--**	
MW-9R	03/04/2008	107.58	6.10	--	101.48	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	05/19/2008	107.58	6.69	--	100.89	**0.84**	**0.20**	**--**	**0.017**	<0.00050	**0.0070**	**0.011**	--	**--**	**--**	**--**	
MW-9R	06/04/2008	107.58	6.28	--	101.30	**0.51**	**2.2**	**--**	**0.090**	**0.0050**	**0.070**	**0.10**	--	**--**	**--**	**--**	
MW-9R	06/26/2008	107.58	5.90	--	101.68	**0.79**	**5.0**	**--**	**0.20**	**0.020**	**0.20**	**0.40**	--	**--**	**--**	**--**	
MW-9R	09/17/2008	107.58	5.31	--	102.27	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	09/18/2008	107.58	--	--	--	**0.065**	**0.020**	**--**	**0.0040**	<0.0010	<0.0010	<0.0020	--	**--**	**--**	**--**	
MW-9R	12/10/2008	107.58	8.78	--	98.80	**0.80**	**2.7**	**--**	**0.10**	**0.0080**	**0.10**	**0.30**	<0.050	**--**	**--**	**--**	
MW-9R	03/19/2009	107.58	7.18	--	100.40	**1.1**	**3.8**	**--**	**0.14**	**0.0081**	**0.13**	**0.30**	<0.050	**--**	**--**	**--**	
MW-9R	06/09/2009	107.58	5.70	--	101.88	**0.80**	**3.8**	**--**	**0.19**	**0.011**	**0.16**	**0.34**	--	**--**	**--**	**--**	
MW-9R	09/23/2009	107.58	6.45	--	101.13	**0.59**	**2.5**	**--**	**0.16**	**0.0066**	**0.094**	**0.15**	--	**--**	**--**	**--**	
MW-9R	12/09/2009	107.58	5.37	--	102.21	**0.60**	**3.7**	**--**	**0.15**	**0.0098**	**0.15**	**0.34**	--	**--**	**--**	**--**	
MW-9R	03/25/2010	107.58	6.69	--	100.89	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	03/22/2010	107.58	--	--	--	**0.60**	**0.38**	**--**	**0.019**	**0.00060**	**0.013**	**0.016**	--	**--**	**--**	**--**	
MW-9R	05/06/2010	107.58	6.10	--	101.48	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	05/10/2010	107.58	6.00	--	101.58	**0.25**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00150	--	**--**	**--**	**--**	
MW-9R	10/05/2010	107.58	6.23	--	101.35	**0.41**	**1.3**	**--**	**0.072**	**0.0030**	**0.047**	**0.066**	--	**--**	**--**	**--**	
MW-9R	12/21/2010	107.58	5.57	--	102.01	**0.93**	**2.5**	**--**	**0.13**	**0.0053**	**0.084**	**0.15**	--	**--**	**--**	**--**	
MW-9R	03/09/2011	107.58	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	06/13/2011	107.58	6.01	--	101.57	**0.82**	**1.9**	**--**	**0.12**	**0.0049**	**0.071**	**0.12**	--	**--**	**--**	**--**	
MW-9R	09/15/2011	107.58	6.40	--	101.18	**0.75**	**1.4**	**--**	**0.11**	**0.0011**	**0.020**	**0.040**	--	**--**	**--**	**--**	
MW-9R	12/8/2011	107.58	5.34	--	102.24	**0.84 [0.2]**	**2.2**	**--**	**0.076**	**0.0019**	**0.050**	**0.074**	--	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-9R	3/21/2012	107.58	7.17	--	100.41	**0.75 [0.33]**	**0.57**	**--**	**0.010**	**0.00060**	**0.0038**	**0.0024**	--	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-9R	6/20/2012	107.58	4.83	--	102.75	**2.0 [0.63]**	**4.4**	**--**	**0.16**	**0.011**	**0.15**	**0.30**	--	**--**	**--**	**--**	TPH-d with silica gel cleanup
MW-9R	07/05/2012	107.58	--	--	--	**--**	**2.3**	**--**	**0.064**	**0.0035**	**0.061**	**0.11**	--	**--**	**--**	**--**	
MW-9R	9/19/2012	107.58	4.13	--	103.45	**0.18J [0.065J]**	**0.58**	**--**	**0.019**	**0.00080J**	**0.011**	**0.028**	--	**--**	**--**	**--**	
MW-9R	11/6/2012	108.08	3.58	--	104.50	**0.15J [0.097J]**	**0.72**	**--**	**0.013**	**0.0011J**	**0.023**	**0.033**	--	**--**	**--**	**--**	
MW-9R	04/01/2013	108.08	6.92	--	101.16	<0.48	**0.415**	**--**	**0.0354**	**0.00140**	**0.0195**	**0.0239**	--	**--**	**--**	**--**	
MW-9R	05/02/2013	108.08	6.14	--	101.94	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	05/03/2013	108.08	--	--	--	<0.500	**0.565**	**--**	**0.0238**	**0.00130**	**0.0233**	**0.0273**	--	**--**	**--**	**--**	
MW-9R	05/03/2013	108.08	--	--	--	<0.50	**0.472**	**--**	**0.0407**	**0.00150**	**0.0230**	**0.0289**	--	**--**	**--**	**--**	
MW-9R	9/18/2013	108.08	5.15	--	102.93	0.50 [<0.39]	**0.634**	**--**	**0.0490**	<0.00100	**0.0133**	**0.0198**	--	**--**	**--**	**--**	
MW-9R	11/12/2013	108.08	5.39	--	102.69	**0.54**	**0.936**	**--**	**0.0306**	**0.00140**	**0.0316**	**0.0542**	--	**--**	**--**	**--**	
MW-9R	03/27/2014	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	05/12/2014	108.08	6.03	--	102.05	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	05/13/2014	108.08	--	--	--	<0.40	**0.726**	**--**	**0.0233**	**0.00160**	**0.0276**	**0.0606**	--	**--**	**--**	**--**	
MW-9R	05/13/2014	108.08	--	--	--	<0.40	<0.10	**--**	**0.0022**	<0.0010	**0.0013**	<0.0030	--	**--**	**--**	**--**	
MW-9R	09/12/2014	108.08	5.88	--	102.20	<0.40	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	--	**--**	**--**	**--**	
MW-9R	11/14/2014	108.08	6.10	--	101.98	<0.40	**0.385**	**--**	**0.0299**	<0.00100	**0.0100**	**0.0203**	--	**--**	**--**	**--**	
MW-9R	03/06/2015	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	04/30/2015	108.08	6.40	--	101.68	**0.44**	**0.018 J**	**--**	**0.0020**	<0.00050	<0.00050	<0.00050	--	**--**	**--**	**--**	
MW-9R	09/22/2015	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	11/09/2015	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	03/09/2016	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	06/06/2016	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	09/21/2016	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	11/01/2016	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	04/13/2017	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	06/01/2017	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	08/16/2017	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	11/10/2017	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	
MW-9R	03/27/2018	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	**--**	**--**	**--**	

Table 3. Historical Groundwater Gauging and Analytical Results
Third Quarter 1998 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**1.1**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.0017**	
MW-9R	06/18/2018	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-9R	08/08/2018	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-9R	10/30/2018	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-9R	3/29/2019	108.08	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Unable to access
MW-9R	6/3/2019	108.08	--	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Unable to access
MW-9R	9/17/2019	108.08	--	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Unable to access
MW-9R	11/04/2019	108.08	--	--	--	--	**--**	**--**	--	**--**	**--**	**--**	--	--	--	**--**	Unable to access
MW-9R	7/27/2020	108.08	--	--	--	--	**--**	**--**	--	**--**	**--**	**--**	--	--	--	**--**	Unable to access
MW-10	10/03/2003	108.93	4.98	--	103.95	**--**	--	--	--	--	--	--	**--**	--	--	**--**	
MW-10	12/18/2003	108.93	6.65	--	102.28	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	--	**--**	
MW-10	03/22/2004	108.93	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	--	**--**	
MW-10	06/09/2004	108.93	7.01	--	101.92	**--**	**--**	**--**	--	--	--	--	**--**	--	--	**--**	
MW-10	09/21/2004	108.93	7.38	--	101.55	**1.5**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	--	--	**--**	
MW-10	12/06/2004	108.93	7.05	--	101.88	**0.64**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	--	--	**--**	
MW-10	12/06/2004	108.93	--	--	--	**1.5**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	--	--	**--**	
MW-10	03/21/2005	108.93	7.36	--	101.57	**0.43**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	--	--	**--**	
MW-10	05/15/2005	108.93	6.74	--	102.19	**1.6**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	--	--	**--**	
MW-10	9/28/2005	108.93	6.31	--	102.62	**1.0 [1.2]**	<0.010 [<0.010]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.0020 [<0.0020]	**--**	--	--	**--**	
MW-10	12/7/2005	108.93	6.69	--	102.24	**1.1 [1.1]**	<0.010 [<0.010]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.0020 [<0.0020]	**--**	--	--	**--**	
MW-10	04/07/2006	108.93	7.55	--	101.38	**0.41**	<0.010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	**--**	--	--	**--**	
MW-10	5/18/2006	108.93	7.31	--	101.62	**2.3 [2.6]**	<0.010 [<0.010]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	**--**	--	--	**--**	
MW-10	09/28/2006	108.93	5.47	--	103.46	**1.6**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	**--**	--	--	**--**	
MW-10	12/20/2006	108.93	5.75	--	103.18	**1.0**	<0.010	**--**	<0.0010	<0.0010	<0.0010	<0.0020	**--**	--	--	**--**	
MW-10	03/15/2007	108.93	8.05	--	100.88	**0.83**	**0.80**	**--**	<0.0010	<0.0010	<0.0010	<0.0020	<0.0030	--	--	**--**	
MW-10	05/21/2007	108.93	7.38	--	101.55	**1.2**	<0.010	**--**	<0.00050	<0.00050	<0.00050	**0.0010**	**--**	--	--	**--**	
MW-10	09/27/2007	108.78	6.31	--	102.47	**0.87**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	**--**	--	--	**--**	
MW-10	12/11/2007	108.78	7.27	--	101.51	**1.5**	<0.010	**--**	<0.0010	<0.0010	<0.0010	<0.0020	<0.0030	--	--	**--**	
MW-10	03/04/2008	108.78	7.23	--	101.55	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	--	**--**	
MW-10	05/19/2008	108.78	7.29	--	101.49	**3.3**	**0.010**	**--**	<0.00050	<0.00050	<0.00050	<0.00050	**--**	--	--	**--**	
MW-10	06/04/2008	108.78	7.07	--	101.71	**0.95**	<0.010	**--**	<0.0010	<0.0010	<0.0010	<0.0020	**--**	--	--	**--**	
MW-10	06/26/2008	108.78	6.85	--	101.93	**1.0**	<0.010	**--**	<0.0010	<0.0010	<0.0010	<0.0020	**--**	--	--	**--**	
MW-10	09/17/2008	108.78	5.20	--	103.58	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	--	**--**	
MW-10	09/18/2008	108.78	--	--	--	**0.24**	<0.010	**--**	<0.0010	<0.0010	<0.0010	<0.0020	**--**	--	--	**--**	
MW-10	12/10/2008	108.78	6.83	--	101.95	**1.2**	<0.010	**--**	<0.0010	<0.0010	<0.0010	<0.0020	<0.0030	--	--	**--**	
MW-10	03/19/2009	108.78	8.04	--	100.74	**0.76**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	<0.0025	--	--	**--**	
MW-10	06/09/2009	108.78	6.52	--	102.26	**0.69**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	--	--	**--**	
MW-10	09/23/2009	108.78	7.40	--	101.38	**1.4**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	--	--	**--**	
MW-10	12/09/2009	108.78	6.67	--	102.11	**1.3**	**0.012**	**--**	**0.0012**	<0.00050	<0.00050	<0.0015	**--**	--	--	**--**	
MW-10	03/22/2010	108.78	7.83	--	100.95	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	--	**--**	
MW-10	03/25/2010	108.78	--	--	--	**1.5**	**0.011**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	--	--	**--**	
MW-10	05/06/2010	108.78	6.61	--	102.17	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	--	**--**	
MW-10	05/10/2010	108.78	6.61	--	102.17	**0.86**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	--	--	**--**	
MW-10	10/05/2010	108.78	7.40	--	101.38	**2.2**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	--	--	**--**	
MW-10	12/21/2010	108.78	6.64	--	102.14	**1.3**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	--	--	**--**	
MW-10	03/09/2011	108.78	7.98	--	100.80	**0.83**	**0.024**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	--	--	**--**	
MW-10	06/13/2011	108.78	7.14	--	101.64	**1.2**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	--	--	**--**	
MW-10	09/15/2011	108.78	7.46	--	101.32	**1.6**	**0.013**	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	--	--	**--**	
MW-10	12/8/2011	108.78	6.28	--	102.50	**0.55 [0.048]**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	--	--	**--**	TPH-d with silica gel cleanup
MW-10	03/21/2012	108.78	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	--	**--**	
MW-10	6/20/2012	108.78	6.00	--	102.78	**1.3 [0.058]**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	--	--	**--**	TPH-d with silica gel cleanup
MW-10	07/05/2012	108.78	--	--	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	--	--	**--**	
MW-10	9/19/2012	108.78	5.11	--	103.67	0.56 [<0.05]	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	--	--	**--**	TPH-d with silica gel cleanup
MW-10	11/6/2012	109.35	4.94	--	104.41	1.0 [<0.049]	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	--	--	**--**	TPH-d with silica gel cleanup
MW-10	4/1/2013	109.35	7.43	--	101.92	0.52 [<0.42]	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	--	--	**--**	TPH-d with silica gel cleanup
MW-10	05/02/2013	109.35	6.70	--	102.65	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	--	**--**	
MW-10	05/03/2013	109.35	--	--	--	<0.50	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	--	--	**--**	
MW-10	05/03/2013	109.35	--	--	--	<0.52	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	--	--	**--**	
MW-10	9/18/2013	109.35	6.03	--	103.32	0.76 [<0.48]	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	--	--	**--**	
MW-10	11/12/2013	109.35	6.41	--	102.94	**0.52**	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	--	--	**--**	
MW-10	03/27/2014	109.35	7.14	--	102.21	<0.40	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	--	--	**--**	
MW-10	05/12/2014	109.35	6.82	--	102.53	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	--	**--**	
MW-10	05/13/2014	109.35	--	--	--	<0.40	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	--	--	**--**	
MW-10	05/13/2014	109.35	--	--	--	<0.40	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	--	--	**--**	
MW-10	09/12/2014	109.35	6.68	--	102.67	<0.40	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	--	--	**--**	
MW-10	11/14/2014	109.35	7.35	--	102.00	**0.53**	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	--	--	**--**	
MW-10	03/06/2015	109.35	5.35	--	104.00	<0.40	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	--	--	**--**	
MW-10	04/30/2015	109.35	7.44	--	101.91	**0.78**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	**--**	--	--	**--**	
MW-10	9/22/2015	109.35	6.80	--	#VALUE!	**0.54 [0.55]**	<0.010 [<0.010]	**--**	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	**--**	--	--	**--**	
MW-10	11/9/2015	109.35	9.11	--	100.24	**0.75 [0.72]**	<0.050 [<0.050]	**--**	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	**--**	--	--	**--**	
MW-10	3/9/2016	109.35	5.84	--	103.51	**0.42 [0.41]**	**0.10 [0.018 J]**	**--**	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	**--**	--	--	**--**	
MW-10	06/06/2016	109.35	6.69	--	102.66	**0.96**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	--	**--**	

Table 3. Historical Groundwater Gauging and Analytical Results
Third Quarter 1998 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**1.1**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.0017**	
MW-10	09/21/2016	109.35	6.81	--	102.54	**1.3**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	--	**--**	
MW-10	11/01/2016	109.35	7.25	--	102.10	**1.4 J**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	--	**--**	
MW-10	04/13/2017	109.35	6.45	--	102.90	**0.11 J**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	**--**	
MW-10	06/01/2017	109.35	7.26	--	102.09	**0.61 [0.64]**	<0.010 [<0.010]	**--**	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	<0.00050 [<0.00050]	--	--	**--**	
MW-10	08/16/2017	109.35	7.09	--	102.26	**0.19 J**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	**--**	
MW-10	11/10/2017	109.35	6.86	--	102.49	**0.15 J**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	**--**	--	--	**--**	
MW-10	03/27/2018	109.35	7.88	--	101.47	**0.25 J**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	**--**	
MW-10	06/19/2018	109.35	5.70	--	103.65	**0.19 J**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	**--**	
MW-10	08/08/2018	109.35	6.50	--	102.85	**0.27**	<0.014	**--**	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	--	--	**--**	
MW-10	10/31/2018	109.35	6.91	--	102.44	**0.30 J**	<0.014	**--**	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	--	--	**--**	
MW-10	3/29/2019	109.17	6.58	0.00	102.59	< 0.014[< 0.014]	< 0.25 B[< 0.25 B]	**--**	< 0.0002[< 0.0002]	< 0.0002[< 0.0002]	< 0.0004[< 0.0004]	< 0.001[< 0.001]	< 0.0002[--]	< 0.0002[--]	< 0.0003[--]	**--**	TPH-d reported to LOQ
MW-10	5/13/2019	109.17	6.58	0.00	102.59	<0.26 B J	<0.014	**--**	<0.0002	<0.0002	<0.0004	<0.001	<0.0002	<0.0002	<0.0003	<0.001	TPH-d reported to LOQ
MW-10	9/17/2019	109.17	7.19	0.00	101.98	**0.42**	<0.1	**--**	**--**	< 0.000050	< 0.00020 B	<0.00065 B	< 0.00030 B	< 0.0000020	**--**	<0.00022	
MW-10	11/04/2019	109.17	6.87	0.00	102.30	**0.32**	<0.1	--	<0.0000090	<0.00039	<0.00050	<0.00075	<0.00044	<0.0000017	--	**--**	
MW-10	3/25/2020	109.17	7.28	0.00	101.89	**0.189 J [0.186 J]**	<0.1 [<0.1]	--	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00300 [<0.00300]	<0.00100 [<0.00100]	<0.00000500 [<0.00000500]	<0.00100 [<0.00100]	--	
MW-10	4/29/2020	109.17	6.54	0.00	102.63	**0.331 J**	<0.100	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	
MW-10	7/28/2020	109.17	6.76	0.00	102.41	**0.738 J**	<0.100	--	**0.000111 J**	**0.00149**	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	DTW from gauging event on 7/27/2020
SP-1	5/14/2019	--	--	--	--	<0.014	--	<0.26 B J	<0.0002	<0.0002	<0.0004	<0.001	<0.0002	**--**	**--**	**--**	
SP-1	9/17/2019	--	--	--	--	< 0.098 [< 0.091]	< 0.1 [< 0.1]	**--**	< 0.000030 [< 0.000030]	< 0.000050 [< 0.000050]	< 0.00020 B [< 0.00020 B]	<0.00050 B [<0.00050 B]	**-- [--]**	**-- [--]**	**-- [--]**	**-- [--]**	
SP-1	4/29/2020	--		--	--	<0.888	<0.100	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	Surface water sample
SP-1	7/28/2020	--	--	--	--	<0.800	<0.100	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	Surface water sample
SP-2	5/14/2019	--	--	--	--	**0.039 J**	--	<0.26 B J	**0.002**	<0.001 B	**0.0004 J**	**0.003 J**	<0.0002	**--**	**--**	**--**	
SP-2	9/17/2019	--	--	--	--	**0.66**	< 0.1	**--**	< 0.000030	< 0.000050	< 0.00020 B	<0.00050 B	**--**	**--**	**--**	**--**	
SP-2	4/29/2020	--	--	--	--	**0.375 J**	<0.100 B	--	**0.00444**	**0.00265**	**0.00269**	**0.0125**	<0.00100	<0.0000500	<0.00100	***<0.00500***	Surface water sample
SP-2	7/28/2020	--	--	--	--	**0.294 J**	<0.100	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.0000500	<0.00100	***<0.00500***	Surface water sample
SP-3	5/14/2019	--	--	--	--	<0.014 [<0.014]	--	<0.051 J [<0.26 B J]	<0.0002 [<0.0002]	<0.0002 [<0.0002]	<0.0004 [<0.0004]	<0.001 [<0.001]	<0.0002 [<0.0002]	**--**	**--**	**--**	TPH-d reported to LOQ
SP-3	9/17/2019	--	--	--	--	**0.69**	< 0.1	**--**	< 0.000030	< 0.000050	< 0.00020 B	<0.00050 B	**--**	**--**	**--**	**--**	
SP-3	4/29/2020	--	--	--	--	<0.800	<0.100	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	Surface water sample
SP-3	7/28/2020	--	--	--	--	<0.800	<0.100	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	Surface water sample
SP-4	5/14/2019	--	--	--	--	<0.014	--	<0.26 B J	<0.0002	<0.0002	<0.0004	<0.001	<0.0002	**--**	**--**	**--**	
SP-4	9/17/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	
SP-4	4/29/2020	--	--	--	--	<0.888	<0.100	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	Surface water sample
SP-4	7/28/2020	--	--	--	--	<0.800	<0.100	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	Surface water sample
QA (EQB)	11/4/2019	--	--	--	--	<0.076	<0.1	--	<0.00053	<0.00039	<0.00050	<0.00075	--	--	--	**--**	
QA (EQB)	3/25/2020	--	--	--	--	<0.8	<0.1	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	--	
QA (EQB)	4/29/2020	--	--	--	--	<0.840	<0.100	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	
QA (EQB)	7/27/2020	--	--	--	--	<0.800	<0.100	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	
QA (TB)	5/27/2004	--	--	0.00	--	**--**	**--**	**--**	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	**--**	**--**	**--**	
QA (TB)	6/10/2004	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	**--**	**--**	**--**	
QA (TB)	6/10/2004	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	**--**	**--**	**--**	
QA (TB)	6/10/2004	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	**--**	**--**	**--**	
QA (TB)	9/22/2004	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	**--**	**--**	**--**	
QA (TB)	9/22/2004	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	**--**	**--**	**--**	
QA (TB)	5/9/2005	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
QA (TB)	5/11/2005	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
QA (TB)	5/18/2005	--	--	0.00	--	**--**	<0.010	**--**	<0.00020	<0.00020	<0.00020	<0.00060	**--**	**--**	**--**	**--**	
QA (TB)	6/16/2005	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
QA (TB)	9/28/2005	--	--	0.00	--	**--**	<0.010	**--**	<0.00020	<0.00020	<0.00020	<0.00060	**--**	**--**	**--**	**--**	
QA (TB)	5/17/2006	--	--	0.00	--	**--**	<0.010	**--**	<0.00020	<0.00020	<0.00020	<0.00060	**--**	**--**	**--**	**--**	
QA (TB)	7/24/2006	--	--	0.00	--	**--**	**--**	**--**	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	**--**	**--**	**--**	
QA (TB)	9/23/2006	--	--	0.00	--	**--**	<0.010	**--**	<0.00020	<0.00020	<0.00020	<0.00060	**--**	**--**	**--**	**--**	
QA (TB)	5/16/2007	--	--	0.00	--	**--**	<0.010	**--**	<0.0010	<0.0010	<0.0010	<0.0020	**--**	**--**	**--**	**--**	
QA (TB)	9/27/2007	--	--	0.00	--	**--**	<0.010	**--**	<0.0010	<0.0010	<0.0010	<0.0020	**--**	**--**	**--**	**--**	
QA (TB)	5/17/2008	--	--	0.00	--	**--**	<0.010	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
QA (TB)	6/4/2008	--	--	0.00	--	**--**	<0.010	**--**	<0.0010	<0.0010	<0.0010	<0.0020	**--**	**--**	**--**	**--**	
QA (TB)	9/11/2008	--	--	0.00	--	**--**	<0.010	**--**	<0.0010	<0.0010	<0.0010	<0.0020	**--**	**--**	**--**	**--**	
QA (TB)	9/13/2008	--	--	0.00	--	**--**	<0.010	**--**	<0.0010	<0.0010	<0.0010	<0.0020	**--**	**--**	**--**	**--**	
QA (TB)	9/14/2008	--	--	0.00	--	**--**	<0.010	**--**	<0.0010	<0.0010	<0.0010	<0.0020	**--**	**--**	**--**	**--**	
QA (TB)	5/29/2009	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
QA (TB)	9/17/2009	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
QA (TB)	9/18/2009	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
QA (TB)	5/11/2010	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
QA (TB)	9/7/2010	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
QA (TB)	4/20/2011	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
QA (TB)	7/7/2011	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
QA (TB)	9/28/2011	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	

Table 3. Historical Groundwater Gauging and Analytical Results
Third Quarter 1998 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Naphthalene (mg/L)	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**1.1**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.0017**	**0.0017**	
QA (TB)	9/28/2011	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
QA (TB)	5/21/2012	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
QA (TB)	9/18/2012	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.0015	**--**	**--**	**--**	**--**	
QA (TB)	5/6/2013	--	--	0.00	--	**--**	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
QA (TB)	9/16/2013	--	--	0.00	--	**--**	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
QA (TB)	5/5/2014	--	--	0.00	--	**--**	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
QA (TB)	9/2/2014	--	--	0.00	--	**--**	<0.10	**--**	<0.0010	<0.0010	<0.0010	<0.0030	**--**	**--**	**--**	**--**	
QA (TB)	4/16/2015	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	**--**	**--**	**--**	**--**	
QA (TB)	9/22/2015	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	**--**	**--**	**--**	**--**	
QA (TB)	11/9/2015	--	--	0.00	--	**--**	<0.010	**--**	<0.00050	<0.00050	<0.00050	<0.00050	**--**	**--**	**--**	**--**	
QA (TB)	3/9/2016	--	--	0.00	--	**--**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
QA (TB)	6/6/2016	--	--	0.00	--	**--**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
QA (TB)	9/21/2016	--	--	0.00	--	**--**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	--	**--**	**--**	**--**	
QA (TB)	4/13/2017	--	--	0.00	--	**--**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	
QA (TB)	6/1/2017	--	--	0.00	--	**--**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	
QA (TB)	8/16/2017	--	--	0.00	--	**--**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	
QA (TB)	11/10/2017	--	--	0.00	--	**--**	<0.010	**--**	<0.0005	**0.0005 J**	<0.0005	<0.0005	--	**--**	**--**	**--**	
QA (TB)	3/27/2018	--	--	0.00	--	**--**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	
QA (TB)	6/19/2018	--	--	0.00	--	**--**	<0.010	**--**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	
QA (TB)	8/9/2018	--	--	0.00	--	**--**	<0.014	**--**	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	**--**	**--**	**--**	
QA (TB)	10/31/2018	--	--	0.00	--	**--**	<0.014	**--**	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	**--**	**--**	--	
QA (TB)	9/17/2019	--	--	--	--	**--**	< 0.1	**--**	**--**	**0.000056 J**	**0.000059 J**	<0.0003 J	<0.000070	**--**	**--**	<0.00022	
QA (TB)	11/04/2019	--	--	--	--	**--**	<0.1	**--**	<0.0000090	<0.00039	<0.00050	<0.00075	<0.00044	<0.0000017	**--**	--	
QA (TB)	3/25/2020	--	--	--	--	**--**	**--**	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	--	<0.00100	--	
QA (TB)	4/29/2020	--	--	--	--	**--**	**0.0107 J**	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	
QA (TB)	7/28/2020	--	--	--	--	**--**	<0.100	--	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	

Notes:

ID = Identification
MW = Groundwater monitoring well
TOC = Top of casing
DTW = Depth to groundwater
ft bTOC = Feet below top of casing
ft = Feet relative to NAVD88
GW Elev = Groundwater elevation
mg/L = Milligrams per liter
<0.100 = Not Detected at or above the Laboratory Reported Detection Limit (RDL)
Bold = Value exceeds method detection limit (MDL)
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
Bold and *Italicized* : Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
NAVD 88 = North American Vertical Datum of 1988
ADEC = Alaska Department of Environmental Conservation
-- = Not analyzed/ Not measured/ Not Available
[ ] = Duplicate Result

TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to United States Environmental Protection Agency (USEPA) Method AK101
TPH-d = Total petroleum hydrocarbons, diesel range by LUFT GC/MS according to USEPA Method AK 102
TPH-r = Total petroleum hydrocarbons, residual range organics LUFT GC/MS according to USEPA Method AK 102-SV/103mod-SV
Samples analyzed by EPA Method 8260D:
Benzene, Toluene, Ethylbenzene and Total Xylenes (collectively BTEX)
MTBE = Methyl tert-butyl ether
EDB = 1,2-Dibromoethane
EDC = 1,2-Dichloroethane
Naphthalene
B = Compound considered non-detect at the listed value due to associated blank contamination.
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
QA (EQB) = Quality Assurance (Equipment Blank)
QA (TB) = Quality Assurance (Trip Blank)
LNAPL = Light Non-Aqueous Phase Liquid
LUFT = Leaking Underground Fuel Tank
GC/MS = Gas chromatography/Mass Spectromet

Table 4. Historic Groundwater Additional Analytical Results
Chevron Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1,2-Trichlorotrifluoroethane (Freon 113)	1,1-Dichloroethane	1,1-Dichloroethene (Dichloroethylene)	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichlorobenzene (o-Dichlorobenzene)	1,2-Dichloropropane	1,3-Dichlorobenzene
Parameter code		71-55-6	79-34-5	79-00-5	76-13-1	75-34-3	75-35-4	87-61-6	120-82-1	95-63-6	95-50-1	78-87-5	541-73-1
ADEC Groundwater Cleanup Levels (mg/L)		**8**	**0.00076**	**0.00041**	**10**	**0.028**	**0.28**	**0.007**	**0.004**	**0.056**	**0.3**	**0.0082**	**0.0047**
MW-1	4/29/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.00444**	<0.00100	<0.00100	<0.00100
MW-1	7/27/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.00604**	<0.00100	<0.00100	<0.00100
MW-2	7/27/2020	<0.00100 [<0.00100]	***<0.00100 [<0.00100]***	***<0.00100 [<0.00100]***	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]
MW-3	7/28/2020	<0.00100 [<0.00100]	***<0.00100 [<0.00100]***	***<0.00100 [<0.00100]***	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	**0.323 J [0.107 J]**	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]
MW-4	7/27/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-5	7/28/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.025**	<0.00100	<0.00100	<0.00100
MW-6	7/27/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	7/28/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.16**	<0.00100	<0.00100	<0.00100
MW-8	3/25/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	4/29/2020	<0.00100 [<0.00100]	***<0.00100 [<0.00100]***	***<0.00100 [<0.00100]***	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	**0.0550 [0.0547]**	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]
MW-8	7/27/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.0368**	<0.00100	<0.00100	<0.00100
MW-10	3/25/2020	<0.00100 [<0.00100]	***<0.00100 [<0.00100]***	***<0.00100 [<0.00100]***	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]
MW-10	4/29/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-10	7/28/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	**0.000316 J**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
SP-1	4/29/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
SP-1	7/28/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
SP-2	4/29/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.00239**	<0.00100	<0.00100	<0.00100
SP-2	7/28/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
SP-3	4/29/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
SP-3	7/28/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
SP-4	4/29/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
SP-4	7/28/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EQB)	3/25/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EQB)	4/29/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (EQB)	7/27/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (TB)	3/25/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (TB)	4/29/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
QA (TB)	7/28/2020	<0.00100	***<0.00100***	***<0.00100***	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 4. Historic Groundwater Additional Analytical Results
Chevron Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

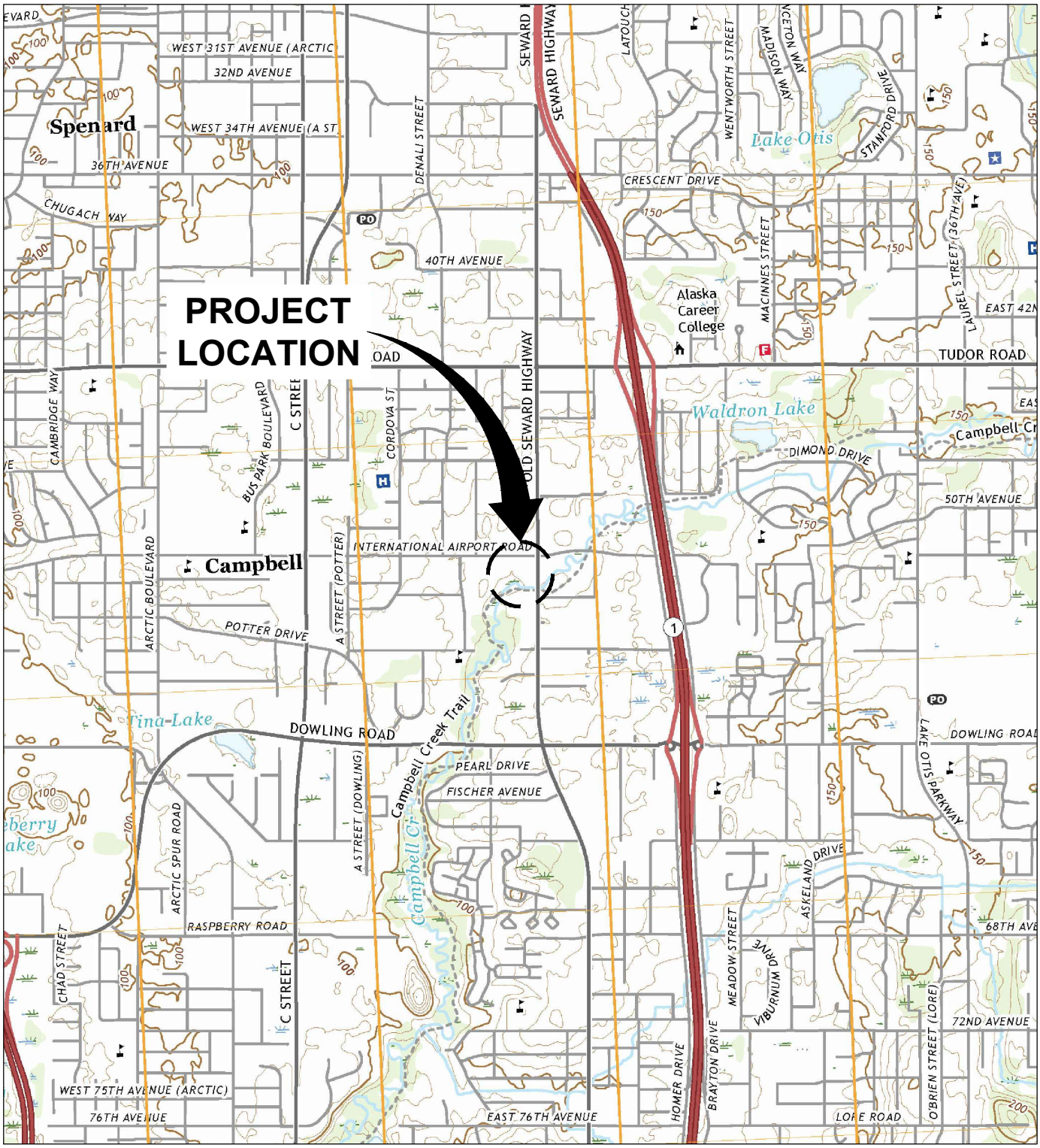
Well ID	Sample Date	1,4-Dichlorobenzene	2-Butanone (Methyl ethyl ketone)	4-Methyl-2-pentanone	Acetone	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane (Methyl bromide)	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane (Methyl chloride)
Parameter code		106-46-7	78-93-3	108-10-1	67-64-1	74-97-5	75-27-4	75-25-2	74-83-9	75-15-0	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3
ADEC Groundwater Cleanup Levels (mg/L)		**0.0048**	**--**	**6.3**	**14**	**--**	**0.0013**	**0.033**	**0.0075**	**0.81**	**0.0046**	**0.078**	**--**	**0.0022**	**0.19**
MW-1	4/29/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
MW-1	7/27/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
MW-2	7/27/2020	<0.00100 [<0.00100]	<0.0100 [<0.0100]	<0.0100 [<0.0100]	<0.0500 [<0.0500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	***<0.00500 [<0.00500]***	<0.00250 [<0.00250]
MW-3	7/28/2020	<0.00100 [<0.00100]	<0.0100 [<0.0100]	**00128 J [0.00127**	<0.0500 [<0.0500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	***<0.00500 [<0.00500]***	<0.00250 [<0.00250]
MW-4	7/27/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
MW-5	7/28/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
MW-6	7/27/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
MW-7	7/28/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
MW-8	3/25/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00500	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
MW-8	4/29/2020	<0.00100 [<0.00100]	<0.0100 [<0.0100]	<0.0100 [<0.0100]	<0.0500 [<0.0500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	***<0.00500 [<0.00500]***	<0.00250 [<0.00250]
MW-8	7/27/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
MW-10	3/25/2020	<0.00100 [<0.00100]	<0.0100 [<0.0100]	<0.0100 [<0.0100]	<0.0500 [<0.0500]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	***<0.00500 [<0.00500]***	<0.00250 [<0.00250]
MW-10	4/29/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
MW-10	7/28/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
SP-1	4/29/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
SP-1	7/28/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
SP-2	4/29/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
SP-2	7/28/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
SP-3	4/29/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
SP-3	7/28/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
SP-4	4/29/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
SP-4	7/28/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
QA (EQB)	3/25/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00500	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	**0.000583 J**	<0.00250
QA (EQB)	4/29/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
QA (EQB)	7/27/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
QA (TB)	3/25/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00500	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
QA (TB)	4/29/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250
QA (TB)	7/28/2020	<0.00100	<0.0100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00500***	<0.00250

Table 4. Historic Groundwater Additional Analytical Results
Chevron Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

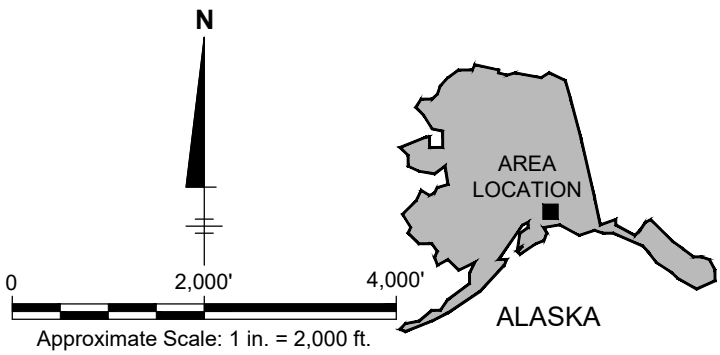
Well ID	Sample Date	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dichlorodifluoromethane (Freon 12)	Isopropylbenzene	Methylene chloride (Dichloromethane)	Styrene	Tetrachloroethene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (Trichloroethylene)	Trichlorofluoromethane (Freon 11)	Vinyl chloride (Chloroethene)
Parameter code		156-59-2	10061-01-5	124-48-1	75-71-8	98-82-8	75-09-2	100-42-5	127-18-4	156-60-5	10061-02-6	79-01-6	75-69-4	75-01-4
ADEC Groundwater Cleanup Levels (mg/L)		**0.036**	**0.0047**	**0.0087**	**0.2**	**--**	**0.1**	**1.2**	**0.041**	**0.36**	**0.0047**	**0.0028**	**5.2**	**0.00019**
MW-1	4/29/2020	<0.00100	<0.00100	<0.00100	**0.00101 J**	**0.000735 J**	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
MW-1	7/27/2020	<0.00100	<0.00100	<0.00100	**0.000959**	**0.00111**	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
MW-2	7/27/2020	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	***<0.00100 [<0.00100]***
MW-3	7/28/2020	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	**0.0174 [0.0172]**	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 **[0.00390 J]**	***<0.00100 [<0.00100]***
MW-4	7/27/2020	<0.00100	<0.00100	<0.00100	**0.000900 J**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
MW-5	7/28/2020	<0.00100	<0.00100	<0.00100	<0.00500	**0.00123**	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
MW-6	7/27/2020	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
MW-7	7/28/2020	<0.00100	<0.00100	<0.00100	<0.00500	**0.0355**	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
MW-8	3/25/2020	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
MW-8	4/29/2020	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	**0.000704 J** [<0.00500]	**0.00491 [0.00485]**	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	***<0.00100 [<0.00100]***
MW-8	7/27/2020	<0.00100	<0.00100	<0.00100	**0.00147**	**0.00732**	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
MW-10	3/25/2020	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	***<0.00100 [<0.00100]***
MW-10	4/29/2020	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
MW-10	7/28/2020	<0.00100	<0.00100	<0.00100	**0.00952**	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
SP-1	4/29/2020	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
SP-1	7/28/2020	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
SP-2	4/29/2020	<0.00100	<0.00100	<0.00100	**0.00509**	**0.000162 J**	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
SP-2	7/28/2020	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
SP-3	4/29/2020	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
SP-3	7/28/2020	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
SP-4	4/29/2020	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
SP-4	7/28/2020	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
QA (EQB)	3/25/2020	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
QA (EQB)	4/29/2020	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
QA (EQB)	7/27/2020	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
QA (TB)	3/25/2020	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
QA (TB)	4/29/2020	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***
QA (TB)	7/28/2020	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	***<0.00100***

Notes:
ID = Identification
MW = Groundwater monitoring well
ADEC = Alaska Department of Environmental Conservation
mg/L = Milligrams per liter
<0.00100= Not Detected at or above the Laboratory Reported Detection Limit (RDL)
Bold = Value exceeds method detection limit (MDL)
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
Bold and *Italicized* : Constituent considered non-detect, however Laboratory RDL is greater than the ADEC Groundwater Cleanup Level
Constituents analyzed by United States Environemntal Proteection Agency Method 8260D
QA (TB) = Quality Assurance (Trip Blank)
QA (EB) = Quality Assurance (Equipment Blank)
[ ] = Duplicate Result
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

FIGURES



SOURCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., ANCHORAGE A-8 NW, ALASKA, 2019.



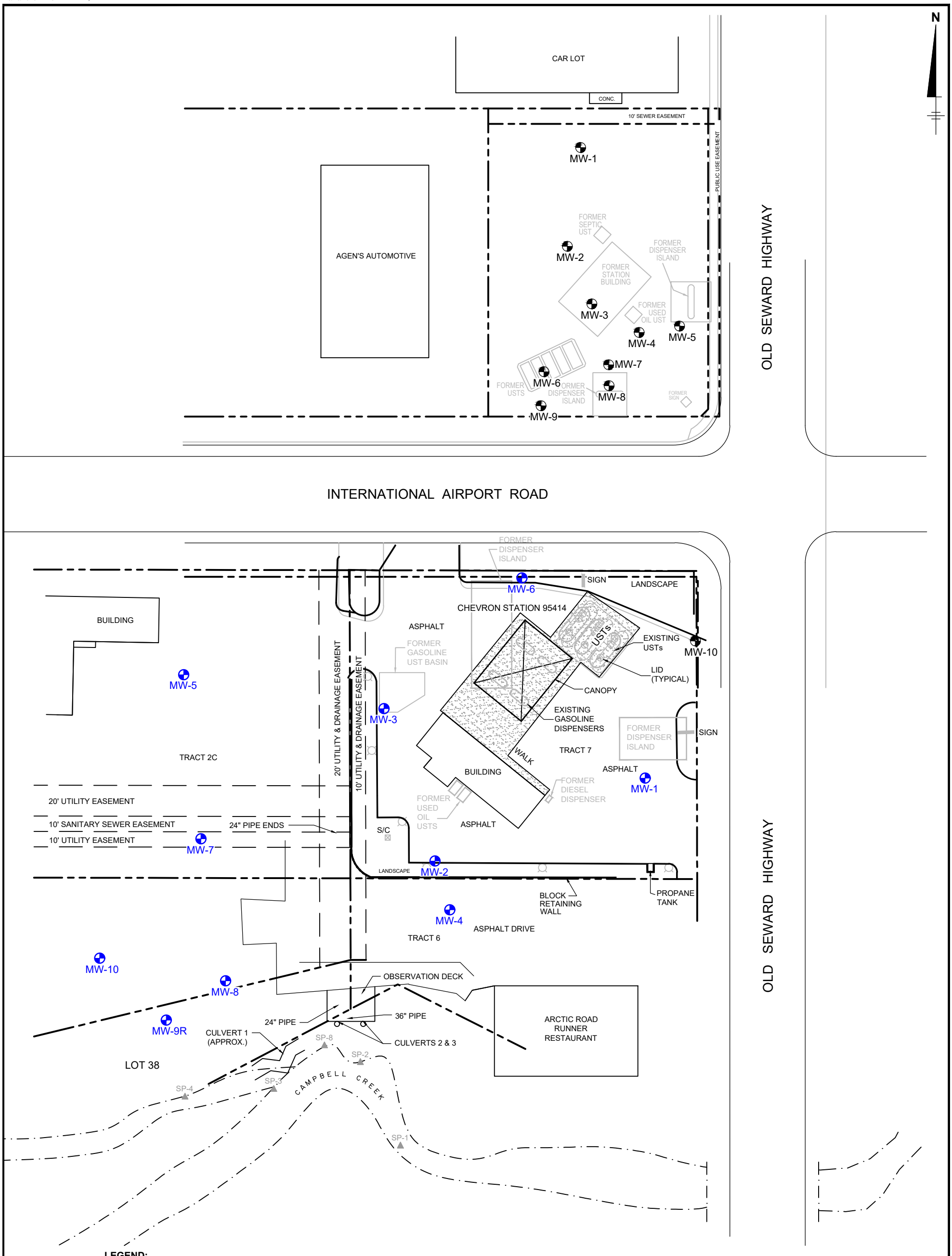
CHEVRON SERVICE STATION 95414
5210 OLD SEWARD HIGHWAY,
ANCHORAGE, ALASKA

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY: BANGALORE, INDIA DIV/GROUP: ENV/IM-DV DB: PAVAN KUMAR A PM: TM: LYR:ON=*;OFF=REF, (FRZ)
C:\Users\ARI00071\BIM 360\Arcadis\ANA - CHEVRON CORPORATION\Project Files\ASR 95414 ALASKA\2020\30045460.5230.GEC\01-DWG\95414-3Q20-FIG2-SITE PLAN_.dwg LAYOUT: 2 SAVED: 9/7/2020 6:42 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/10/2020 11:18 AM BY: R, ANITA



LEGEND:

- MW-3 — GROUNDWATER MONITORING WELL
- MW-3 — GROUNDWATER MONITORING WELL (CHEVRON SITE 351860)
- APPROXIMATE PROPERTY LINE
- EASEMENT
- RETAINING WALL
- CREEK
- LIGHT POLE
- SUMP
- STREAM SAMPLE LOCATIONS

USTs UNDERGROUND STORAGE TANKS

0 60' 120'

APPROXIMATE SCALE 1 in. = 60 ft.

NOTE:

1. BASEMAP PROVIDED BY ARCADIS; LOUNSBURY & ASSOCIATES, SURVEY DATED 10/20/2017 & 11/03/2017.

CHEVRON SERVICE STATION 95414
5210 OLD SEWARD HIGHWAY,
ANCHORAGE, ALASKA

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY: BANGALORE, INDIA DIV/GROUP: ENV/IM-DV DB: PAVAN KUMAR A PM: TM: LYR:ON=*;OFF=REF, (FRZ)
C:\Users\ARI00071\BIM 360\Arcadis\ANA - CHEVRON CORPORATION\Project Files\ASR 95414 ALASKA\2020\30045460.5230.GEC\01-DWG\95414_FIG3-GWCM_3Q20.dwg LAYOUT: 3 SAVED: 9/7/2020 6:42 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/10/2020 11:16 AM BY: R, ANITA

N

CAR LOT

CONC.

10' SEWER EASEMENT

PUBLIC USE EASEMENT

MW-1 (NG)

AGEN'S AUTOMOTIVE

FORMER SEPTIC UST

MW-2 (NG)

FORMER DISPENSER ISLAND

FORMER STATION BUILDING

MW-3 (NG)

FORMER USED OIL UST

MW-4 (NG)

MW-5 (NG)

MW-6 (NG)

MW-7 (NG)

MW-8 (NG)

FORMER USTS

FORMER DISPENSER ISLAND

FORMER SIGN

MW-9 (NG)

OLD SEWARD HIGHWAY

INTERNATIONAL AIRPORT ROAD

FORMER DISPENSER ISLAND

MW-6 (103.62)

SIGN

LANDSCAPE

CHEVRON STATION 95414

ASPHALT

FORMER GASOLINE UST BASIN

USTs

EXISTING USTs

MW-10 (NG)

LID (TYPICAL)

CANOPY

EXISTING GASOLINE DISPENSERS

FORMER DISPENSER ISLAND

SIGN

TRACT 7

BUILDING

ASPHALT

MW-1 (103.32)

FORMER DIESEL DISPENSER

FORMER USED OIL USTs

ASPHALT

BUILDING

MW-5 (102.82)

MW-3 (103.10)

20' UTILITY & DRAINAGE EASEMENT

20' UTILITY & DRAINAGE EASEMENT

TRACT 2C

0.004 FT/FT

20' UTILITY EASEMENT

10' SANITARY SEWER EASEMENT

10' UTILITY EASEMENT

24" PIPE ENDS

MW-7 (102.52)

S/C

MW-2 (105.98)*

LANDSCAPE

BLOCK RETAINING WALL

PROPANE TANK

MW-4 (102.88)

ASPHALT DRIVE

TRACT 6

MW-10 (102.41)

MW-8 (102.34)

OBSERVATION DECK

MW-9R (NG)

24" PIPE

36" PIPE

CULVERT 1 (APPROX.)

CULVERTS 2 & 3

ARCTIC ROAD RUNNER RESTAURANT

LOT 38

SP-8

SP-2

SP-3

SP-4

CAMPBELL CREEK

SP-1

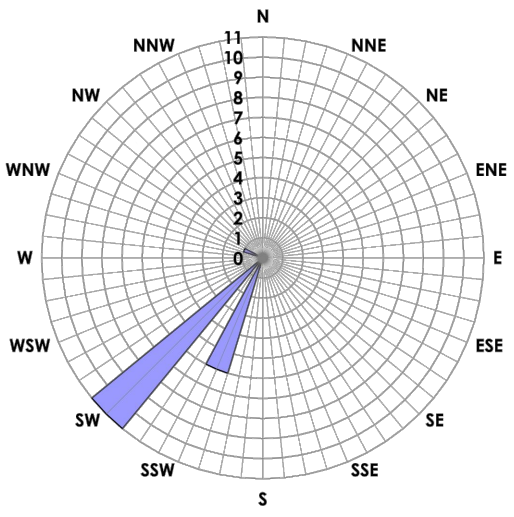
103.50

103.25

103.00

102.75

102.50



HISTORIC GROUNDWATER FLOW DIRECTION

LEGEND:

- APPROXIMATE PROPERTY LINE
- MW-1 — GROUNDWATER MONITORING WELL
- MW-1 — GROUNDWATER MONITORING WELL (CHEVRON SITE 351860)
- STREAM SAMPLE LOCATIONS
- USTs — UNDERGROUND STORAGE TANKS
- (103.62) — GROUNDWATER ELEVATION IN FEET RELATIVE TO NAVD88
- 103.50 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- 0.004 FT/FT — APPROXIMATE HYDRAULIC GRADIENT (FEET/FOOT)
- (NG) — NOT GAUGED
- NAVD88 — NORTH AMERICAN VERTICAL DATUM OF 1988
- * — WELL NOT USED IN CONTOURING; ANALOGOUS GROUNDWATER ELEVATION

NOTE:

1. BASEMAP PROVIDED BY ARCADIS; LOUNSBURY & ASSOCIATES, SURVEY DATED 10/20/2017 & 11/03/2017.

0 60' 120'

APPROXIMATE SCALE 1 in. = 60 ft.

CHEVRON SERVICE STATION 95414
5210 OLD SEWARD HIGHWAY,
ANCHORAGE, ALASKA

GROUNDWATER ELEVATION CONTOUR MAP JULY 27, 2020

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

CITY: BANGALORE, INDIA DIV/GROUP: ENV/IM-DV DB: PAVAN KUMAR A PM: TM: LYR:ON=*;OFF=REF, (FRZ)
C:\Users\ARI00071\BIM 360\Arcadis\ANA - CHEVRON CORPORATION\Project Files\ASR 95414 ALASKA\2020\30045460.5230.GEC\01-DWG\95414-3Q20-FIG4-GWAM.dwg LAYOUT: 4 SAVED: 9/10/2020 12:20 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 9/10/2020 12:24 PM BY: R, ANITA

MW-2	
Sample Date	7/27/2020
TPH-d	**0.253 J** [<0.800]
TPH-g	<0.100 [<0.100]
Benzene	<0.00100 [<0.00100]
Toluene	<0.00100 [<0.00100]
Ethylbenzene	<0.00100 [<0.00100]
Total Xylenes	<0.00300 [<0.00300]
MTBE	<0.00100 [<0.00100]
EDB	<0.00000500 ***[<0.000250]***
EDC	<0.00100 [<0.00100]
Naphthalene	***<0.00500 [<0.00500]***

MW-4	
Sample Date	7/27/2020
TPH-d	<0.840
TPH-g	**0.0148 J**
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
MTBE	<0.00100
EDB	**0.0000380 J**
EDC	**0.000770 J**
Naphthalene	***<0.00500***

MW-3	
Sample Date	7/28/2020
TPH-d	**1.48 [1.04]**
TPH-g	**2.57 [2.62]**
Benzene	**0.0684 [0.0703]**
Toluene	**0.0149 [0.0152]**
Ethylbenzene	**0.222 [0.196]**
Total Xylenes	**0.545 [0.465]**
MTBE	<0.00100 [<0.00100]
EDB	**0.00035** ***[<0.000250]***
EDC	<0.00100 [<0.00100]
Naphthalene	**0.0645 [0.0619]**

MW-5	
Sample Date	7/28/2020
TPH-d	**0.405 J**
TPH-g	**0.146**
Benzene	**0.00527**
Toluene	**0.000570 J**
Ethylbenzene	**0.00171**
Total Xylenes	**0.01610**
MTBE	<0.00100
EDB	**0.000024**
EDC	<0.00100
Naphthalene	**0.00118 J**

MW-6	
Sample Date	7/27/2020
TPH-d	**2.30**
TPH-g	<0.100
Benzene	**0.000179 J**
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
MTBE	**0.000110 J**
EDB	<0.00000500
EDC	<0.00100
Naphthalene	***<0.00500***

MW-7	
Sample Date	7/28/2020
TPH-d	**1.90**
TPH-g	**5.13**
Benzene	**0.0996**
Toluene	**0.0276**
Ethylbenzene	**0.242**
Total Xylenes	**0.596**
MTBE	<0.00100
EDB	***<0.00125***
EDC	<0.00100
Naphthalene	**0.0705**

MW-1	
Sample Date	7/27/2020
TPH-d	<0.800
TPH-g	**0.0918 J**
Benzene	**0.00984**
Toluene	**0.000655 J**
Ethylbenzene	<0.00100
Total Xylenes	**0.0106**
MTBE	<0.00100
EDB	<0.0000500
EDC	<0.00100
Naphthalene	***<0.00500***

MW-10	
Sample Date	7/28/2020
TPH-d	**0.738 J**
TPH-g	<0.100
Benzene	**0.000111 J**
Toluene	**0.00149**
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
MTBE	<0.00100
EDB	<0.00000500
EDC	<0.00100
Naphthalene	***<0.00500***

MW-8	
Sample Date	7/27/2020
TPH-d	**0.399 J**
TPH-g	**0.526**
Benzene	**0.0321**
Toluene	**0.00122**
Ethylbenzene	**0.0159**
Total Xylenes	**0.0358**
MTBE	<0.00100
EDB	**0.0032**
EDC	<0.00100
Naphthalene	***<0.00500***

SP-4	
Sample Date	7/28/2020
TPH-d	<0.800
TPH-g	<0.100
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
MTBE	<0.00100
EDB	<0.00000500
EDC	<0.00100
Naphthalene	***<0.00500***

SP-3	
Sample Date	7/28/2020
TPH-d	<0.800
TPH-g	<0.100
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
MTBE	<0.00100
EDB	<0.00000500
EDC	<0.00100
Naphthalene	***<0.00500***

SP-2	
Sample Date	7/28/2020
TPH-d	**0.294 J**
TPH-g	<0.100
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
MTBE	<0.00100
EDB	<0.0000500
EDC	<0.00100
Naphthalene	***<0.00500***

SP-1	
Sample Date	7/28/2020
TPH-d	<0.800
TPH-g	<0.100
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
MTBE	<0.00100
EDB	<0.00000500
EDC	<0.00100
Naphthalene	***<0.00500***

CAR LOT
CONC.
10' SEWER EASEMENT
PUBLIC USE EASEMENT
OLD SEWARD HIGHWAY
INTERNATIONAL AIRPORT ROAD
FORMER SEPTIC UST
FORMER DISPENSER ISLAND
FORMER STATION BUILDING
FORMER USED OIL UST
FORMER USTS
FORMER SIGN
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
MW-9
CHEVRON STATION 95414
ASPHALT
FORMER GASOLINE UST BASIN
USTs
EXISTING USTs
LID (TYPICAL)
CANOPY
EXISTING GASOLINE DISPENSERS
SIGN
LANDSCAPE
MW-10
TRACT 7
WALK
BUILDING
FORMER USED OIL USTS
BLOCK RETAINING WALL
TRACT 6
OBSERVATION DECK
MW-9R (NS)
24" PIPE
36" PIPE
CULVERT 1 (APPROX.)
CULVERTS 2 & 3
LOT 38
CAMPBELL CREEK
SP-1
SP-2
SP-3
SP-4
SP-8
TILITY & DRAINAGE EASEMENT
Y & DRAINAGE EASEMENT

LEGEND:

	APPROXIMATE PROPERTY LINE
MW-3	GROUNDWATER MONITORING WELL
MW-3	GROUNDWATER MONITORING WELL (CHEVRON SITE 351860)
	STREAM SAMPLE LOCATIONS
UST	UNDERGROUND TANK LOCATION
TPH-g	TOTAL PETROLEUM HYDROCARBONS, GASOLINE RANGE ORGANICS
TPH-d	TOTAL PETROLEUM HYDROCARBONS, DIESEL RANGE ORGANICS
MTBE	METHYL TERT-BUTYL ETHER
EDB	1,2-DIBROMOETHANE
EDC	1,2-DICHLOROETHANE
<0.00100	NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT (RDL)
BOLD	VALUE EXCEEDS ADEC GROUNDWATER CLEANUP LEVEL
BOLD	VALUE EXCEEDS THE METHOD DETECTION LIMIT (MDL)
BOLD	CONSTITUENT CONSIDERED NON-DETECT, HOWEVER LABORATORY RDL IS GREATER THAN THE ADEC GROUNDWATER CLEANUP LEVEL
J	THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER, THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY
ADEC	ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
(NS)	NOT SAMPLED
mg/L	MILLIGRAMS PER LITER

Concentration in mg/L

Analyte	ADEC Groundwater Cleanup Levels
TPH-d	1.5
TPH-g	2.2
Benzene	0.0046
Toluene	1.1
Ethylbenzene	0.015
Total Xylenes	0.19
MTBE	0.14
EDB	0.000075
EDC	0.0017
Naphthalene	0.0017

NOTE:

1. BASEMAP PROVIDED BY ARCADIS; LOUNSBURY & ASSOCIATES, SURVEY DATED 10/20/2017 & 11/03/2017.

0 60' 120'

APPROXIMATE SCALE 1 in. = 60 ft.

CHEVRON SERVICE STATION 95414
5210 OLD SEWARD HIGHWAY,
ANCHORAGE, ALASKA

GROUNDWATER ANALYTICAL RESULTS MAP JULY 27 AND 28, 2020

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FIGURE 4

APPENDIX A

Site Background and History

Chevron Environmental Management Company

Appendix A:

Site History and Background

Chevron Facility 95414
5210 Old Seward Highway
Anchorage, Alaska
ADEC File No: 2100.26.062
HAZARD ID No: 24602

June 26, 2020

Appendix A: 95414 Site Description and Background

1 95414 SITE BACKGROUND AND HISTORY

1.1 Site Description and Vicinity

Chevron facility 95414 is located at 5210 Old Seward Highway in Anchorage, Alaska. The site is an active Chevron-branded service station with three underground storage tanks (UST), and four fuel dispensers. The surrounding properties are mixed commercial and industrial; the site is bordered to the north and northwest by properties currently or formerly listed as ADEC contaminated sites.

1.2 Site History

The site has operated as a service station since 1969 and was remodeled in 1996, at which time three gasoline USTs, one diesel UST, one used-oil UST, fuel dispenser islands, and product piping were removed and replaced. During the 1996 remodel, petroleum hydrocarbons were detected in soil.

2 SITE CHARACTERIZATION

There are currently four groundwater monitoring wells located onsite (MW-1, MW-2, MW-3, and MW-6) and six groundwater monitoring wells located offsite (MW-4, MW-5, MW-7, MW-8, MW-9R, MW-10 and MW-11).

3 CURRENT SITE MONITORING ACTIVITIES

The site currently has a network of 10 groundwater monitoring wells located onsite (MW-1, MW-2, MW-3, and MW-6) and offsite (MW-4, MW-5, MW-7, MW-8, MW-9R, MW-10 and MW-11). Monitoring wells MW-8, MW-9, and MW-10 are monitored and sampled quarterly; monitoring wells MW-1 though MW-7 are monitored and sampled semiannually. Additionally, the site is directly north of Campbell Creek, and surface water samples are taken during the second and third quarters when the creek is accessible.

In recent historic sampling, concentrations of benzene, ethylbenzene, total xylenes, gasoline range organics (GRO), and diesel range organics (DRO) have exceeded their respective ADEC Method 2 groundwater cleanup levels in several monitoring wells.

4 GEOLOGY AND HYDROGEOLOGY

4.1 Site Hydrogeology

The site is in south central Alaska, south of the Knik Arm and north of the Turnagain Arm of Cook Inlet, and immediately north of Campbell Creek. Static groundwater depths from 1998 to the present have ranged between 2.74 and 9.53 feet below top of casing (ft btoc). Historic groundwater flow is to the southwest.

5 REFERENCES

GHD Inc. 2018. Second Semiannual 2018 Groundwater Monitoring Report: Chevron-Branded Service Station 95414, 5210 Old Seward Highway, Anchorage, AK. August 9

APPENDIX B

Field Data Sheets

Daily Log

Project Name : 95414
Project Number : 30043260
Purpose : GW sampling
PPE : Level D
Equipment: Photoionization Detector (PID)

Weather(°F) : Clear
Prepared By: Evan Wujcik

Date	Time	Description of Activities
07/27/2020	09:00	Arrive on site Open permit to work Review health and safety in tailgate meeting Locate Wells Prepare to gauge
07/27/2020	09:45	All wells found and Gauged Prepare to sample
07/27/2020	10:00	Sample MW2 for VOC, GRO, and DRO Place bottles in cooler Decontaminate equipment Blind duplicate samples collected at this location
07/27/2020	11:00	Sample MW4 for VOC, GRO, and DRO Place bottles in cooler Decontaminate equipment MS/MSD samples collected at this location
07/27/2020	12:00	Sample MW8 for VOC, GRO, and DRO Place bottles in cooler Decontaminate equipment
07/27/2020	13:00	Sample MW6 for VOC, GRO, and DRO Place bottles in cooler Decontaminate equipment
07/27/2020	14:00	Sample MW1 for VOC, GRO, and DRO Place bottles in cooler Decontaminate equipment
07/27/2020	15:00	Load vehicle Close permit to work Mobilized to office

Signature:

Waste Management:

Drums On Site

Date	Are there any waste drums on site?	Number of Drums upon Arrival	Size of Drums	Type of Drums	Condition of Drums	Waste Drummed Today?	Number of drums Created	Size of drums	Condition of Drums	General Waste Comments
07/27/2020	no					no				

ARCADIS Design & Consultancy for natural and built assets

Daily Log

Equipment and Calibration Information:

Supplier: Pine

Model:

Rental Number:

Calibrated: yes

Bump Checked:

Calibration Passed: yes

Water Quality Meter SN:

Date	Time	Calibrated Fulid and Value	Lot #	Expiration Date	Initial Reading	Final Reading
07/27/2020						

Equipment and Calibration Information:

Supplier: Pine

Model:

Rental Number:

Calibrated: yes

Bump Checked:

Calibration Passed: yes

PIDSN:

Date	Time	Calibrated Fulid and Value	Lot #	Expiration Date	Initial Reading	Final Reading
07/27/2020	--					

Daily Log

Project Name : 95414
Project Number : 30043260
Purpose : Gw sampling
PPE : Level D
Equipment: Water Level Meter (WLM)

Weather(°F) : Clear
Prepared By: Evan Wujcik

Date	Time	Description of Activities
07/28/2020	06:00	Arrive on site Open permit to work Prepare to sample
07/28/2020	07:00	Sample MW3 for GRO, DRO, and. VOC Place samples in cooler Decontaminate equipment Blind duplicate collected at this location
07/28/2020	08:00	Sample MW10 for GRO, DRO, and. VOC Place samples in cooler Decontaminate equipment
07/28/2020	08:30	Sample SP1 for GRO, DRO, and. VOC Place samples in cooler Decontaminate equipment
07/28/2020	09:00	Sample SP2 for GRO, DRO, and. VOC Place samples in cooler Decontaminate equipment
07/28/2020	09:30	Sample SP3 for GRO, DRO, and. VOC Place samples in cooler Decontaminate equipment
07/28/2020	10:00	Sample SP4 for GRO, DRO, and. VOC Place samples in cooler Decontaminate equipment
07/28/2020	11:00	Sample MW7 for GRO, DRO, and. VOC Place samples in cooler Decontaminate equipment
07/28/2020	12:00	Sample MW5 for GRO, DRO, and. VOC Place samples in cooler Decontaminate equipment
07/28/2020	13:00	Load vehicle Close permit to work Mobilize to office

Signature:

Waste Management:

Drums On Site

Date	Are there any waste drums on site?	Number of Drums upon Arrival	Size of Drums	Type of Drums	Condition of Drums	Waste Drummed Today?	Number of drums Created	Size of drums	Condition of Drums	General Waste Comments
07/28/2020	no					no				

Daily Log

Equipment and Calibration Information:

Supplier: Pine

Model:

Rental Number:

Calibrated: yes

Bump Checked:

Calibration Passed: yes

Water Quality Meter SN:

Date	Time	Calibrated Fulid and Value	Lot #	Expiration Date	Initial Reading	Final Reading
07/28/2020						

Equipment and Calibration Information:

Supplier: Pine

Model:

Rental Number:

Calibrated: yes

Bump Checked:

Calibration Passed: yes

PIDSN:

Date	Time	Calibrated Fulid and Value	Lot #	Expiration Date	Initial Reading	Final Reading
07/28/2020	--					

Groundwater Gauging Log

Client:	Chevron
Site ID:	95414
Site Location:	5210 Old Seward Highway, Anchorage, AK 99501
Date(s):	07/27/2020
Sampler(s):	Evan Wujcik

Well ID	Date	Gauging Time	Static Water Level (ft bmp)	Depth to Product (ft bmp)	Total Depth (ft bmp)	PID Reading (ppm)	Comments
MW-1	07/27/2020	08:32	7.31	--	13.70	0	--
MW-2	07/27/2020	08:37	5.11	--	16.30	0	--
MW-3	07/27/2020	08:41	8.34	--	18.30	0	--
MW-4	07/27/2020	08:06	6	--	17.95	0	--
MW-5	07/27/2020	08:16	5.94	--	15.50	0	--
MW-6	07/27/2020	08:28	7.54	--	16.40	0	--
MW-7	07/27/2020	08:20	4.83	--	11.70	0	--
MW-8	07/27/2020	08:03	6.36	--	12.20	0	--
MW-10	07/27/2020	07:50	6.76	--	11.90	0	--

ft-bmp = feet below measuring point
ppmv = parts per million volume
PID = Photoionization Detector Reading
-- = Not Recorded

Chevron Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30043260	**Well ID**	MW-1	**Date**	7/27/2020		
Site Location	5210 Old Seward Highway, Anchorage, AK 99501	**Site ID**	95414	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	--	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	7.31	**Total Depth (ft-bmp)**	13.7	**Water Column (ft)**	6.39	**Gallons in Well**	1.04
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Sample Method**			Low-Flow
Sample Time	14:00	**Volumes Purged**	0.91	**Sample ID**	MW-1-W-200727	**Evacuation Equipment**	Bladder
Purge Start	13:20	**Gallons Purged**	0.95	**Duplicate ID**	--		
Purge End	13:40	**Total Purge Time (h:m)**	0:20				

Time	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	Total Volume purged (gal)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
13:23	300	7.31	900	--	5.79	0.821	0.0	1.12	13.82	-59	Clear	--
13:26	300	7.31	1800	--	5.80	0.823	0.0	1.06	13.78	-59	Clear	--
13:29	300	7.31	2700	--	5.82	0.828	0.0	1.01	13.71	-60	Clear	--
13:32	300	7.31	3600	--	5.81	0.830	0.0	1.15	13.64	-63	Clear	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-1-W-200727 Sample Time: 14:00 Sample Depth (ft-bmp): 8

Analytes and Methods: GRO AK 101, DRO AK 102, BTEX + MTBE 8260B

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Chevron Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30043260	**Well ID**	MW-10	**Date**	7/27/2020		
Site Location	5210 Old Seward Highway, Anchorage, AK 99501	**Site ID**	95414	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	--	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6.76	**Total Depth (ft-bmp)**	11.9	**Water Column (ft)**	5.14	**Gallons in Well**	0.84
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Sample Method**			Low-Flow
Sample Time	08:00	**Volumes Purged**	1.13	**Sample ID**	MW-10-W-200728	**Evacuation Equipment**	Bladder
Purge Start	07:20	**Gallons Purged**	0.95	**Duplicate ID**	--		
Purge End	07:40	**Total Purge Time (h:m)**	0:20				

Time	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	Total Volume purged (gal)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
07:23	300	6.76	900	--	5.78	0.421	99.4	1.42	9.60	-12	Clear	--
07:26	300	6.76	1800	--	5.71	0.416	44.9	1.18	9.54	-16	Clear	--
07:29	300	6.76	2700	--	5.67	0.415	24.1	0.97	9.47	-17	Clear	--
07:32	300	6.76	3600	--	5.63	0.417	18.9	1.01	9.40	-20	Clear	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-10-W-200728 Sample Time: 08:00 Sample Depth (ft-bmp): 7

Analytes and Methods: GRO AK 101, DRO AK 102, 8260B Full Scan

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Chevron Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30043260	**Well ID**	MW-2	**Date**	7/27/2020		
Site Location	5210 Old Seward Highway, Anchorage, AK 99501	**Site ID**	95414	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	--	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	5.11	**Total Depth (ft-bmp)**	16.3	**Water Column (ft)**	11.19	**Gallons in Well**	1.82
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Sample Method**			Low-Flow
Sample Time	10:00	**Volumes Purged**	0.52	**Sample ID**	MW-2-W-200727	**Evacuation Equipment**	Bladder
Purge Start	09:30	**Gallons Purged**	0.95	**Duplicate ID**	BD-1-W-200727		
Purge End	09:50	**Total Purge Time (h:m)**	0:20				

Time	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	Total Volume purged (gal)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
09:33	300	5.11	900	--	5.89	4.52	24.7	4.50	10.77	-5	Clear	--
09:36	300	5.11	1800	--	5.83	4.11	8.1	4.11	10.72	-13	Clear	--
09:39	300	5.11	2700	--	5.82	3.94	5.0	4.24	10.66	-16	Clear	--
09:42	300	5.11	3600	--	5.80	3.85	4.0	4.70	10.59	-20	Clear	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-2-W-200727 Sample Time: 10:00 Sample Depth (ft-bmp): 6

Analytes and Methods: GRO AK 101, DRO AK 102, 8260B Full Scan

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Chevron Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30043260	**Well ID**	MW-3	**Date**	7/27/2020		
Site Location	5210 Old Seward Highway, Anchorage, AK 99501	**Site ID**	95414	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	--	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	8.34	**Total Depth (ft-bmp)**	18.3	**Water Column (ft)**	9.96	**Gallons in Well**	1.62
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Sample Method**			Low-Flow
Sample Time	07:00	**Volumes Purged**	0.59	**Sample ID**	MW-3-W-200728	**Evacuation Equipment**	Bladder
Purge Start	06:20	**Gallons Purged**	0.95	**Duplicate ID**	BD-1-W-200728		
Purge End	06:40	**Total Purge Time (h:m)**	0:20				

Time	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	Total Volume purged (gal)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
06:23	300	8.34	900	--	6.03	0.694	10.8	3.27	13.56	-75	Clear	--
06:26	300	8.34	1800	--	5.98	0.811	9.2	2.23	13.49	-80	Clear	--
06:29	300	8.34	2700	--	5.95	0.940	3.9	2.47	13.44	-84	Clear	--
06:32	300	8.34	3600	--	5.90	0.979	2.6	2.16	13.38	-87	Clear	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-3-W-200728 Sample Time: 07:00 Sample Depth (ft-bmp): 9

Analytes and Methods: GRO AK 101, DRO AK 102, BTEX + MTBE 8260B

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Chevron Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30043260	**Well ID**	MW-4	**Date**	7/27/2020		
Site Location	5210 Old Seward Highway, Anchorage, AK 99501	**Site ID**	95414	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	--	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6	**Total Depth (ft-bmp)**	17.95	**Water Column (ft)**	11.95	**Gallons in Well**	1.94
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Sample Method**			Low-Flow
Sample Time	11:00	**Volumes Purged**	0.49	**Sample ID**	MW-4-W-200727	**Evacuation Equipment**	Bladder
Purge Start	10:20	**Gallons Purged**	0.95	**Duplicate ID**	MS/MSD		
Purge End	10:40	**Total Purge Time (h:m)**	0:20				

Time	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	Total Volume purged (gal)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
10:23	300	6.00	900	--	6.11	0.828	0.0	1.96	11.85	-122	Clear	--
10:26	300	6.00	1800	--	6.10	0.830	0.0	1.62	11.78	-123	Clear	--
10:29	300	6.00	2700	--	6.09	0.832	0.0	2.23	11.74	-124	Clear	--
10:32	300	6.00	3600	--	6.11	0.836	0.0	2.12	11.63	-125	Clear	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-4-W-200727 Sample Time: 11:00 Sample Depth (ft-bmp): 6.5

Analytes and Methods: GRO AK 101, DRO AK 102, BTEX + MTBE 8260B

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Chevron Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30043260	**Well ID**	MW-5	**Date**	7/27/2020		
Site Location	5210 Old Seward Highway, Anchorage, AK 99501	**Site ID**	95414	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	--	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	5.94	**Total Depth (ft-bmp)**	15.5	**Water Column (ft)**	9.56	**Gallons in Well**	1.55
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Sample Method**			Low-Flow
Sample Time	12:00	**Volumes Purged**	0.61	**Sample ID**	MW-5-W-200728	**Evacuation Equipment**	Bladder
Purge Start	11:20	**Gallons Purged**	0.95	**Duplicate ID**	--		
Purge End	11:40	**Total Purge Time (h:m)**	0:20				

Time	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	Total Volume purged (gal)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
11:23	300	5.94	900	--	5.90	0.361	180	1.65	12.30	-38	Clear	--
11:26	300	5.94	1800	--	5.88	0.404	147	1.48	12.24	-42	Clear	--
11:29	300	5.94	2700	--	5.86	0.449	90.6	1.75	12.18	-46	Clear	--
11:32	300	5.94	3600	--	5.85	0.471	66.3	1.43	12.11	-50	Clear	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-5-W-200728 Sample Time: 12:00 Sample Depth (ft-bmp): 6.5

Analytes and Methods: GRO AK 101, DRO AK 102, BTEX + MTBE 8260B

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Chevron Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30043260	**Well ID**	MW-6	**Date**	7/27/2020		
Site Location	5210 Old Seward Highway, Anchorage, AK 99501	**Site ID**	95414	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	--	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	7.54	**Total Depth (ft-bmp)**	16.4	**Water Column (ft)**	8.86	**Gallons in Well**	1.44
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Sample Method**			Low-Flow
Sample Time	13:00	**Volumes Purged**	0.66	**Sample ID**	MW-6-W-200727	**Evacuation Equipment**	Bladder
Purge Start	12:20	**Gallons Purged**	0.95	**Duplicate ID**	--		
Purge End	12:40	**Total Purge Time (h:m)**	0:20				

Time	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	Total Volume purged (gal)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
12:23	300	7.54	900	--	5.74	0.959	9.4	2.03	12.89	-71	Clear	--
12:26	300	7.54	1800	--	5.76	0.993	9.7	2.57	12.95	-73	Clear	--
12:29	300	7.54	2700	--	5.77	0.997	10.9	2.71	13.06	-70	Clear	--
12:32	300	7.54	3600	--	5.78	1.01	9.4	2.93	13.11	-68	Clear	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-6-W-200727 Sample Time: 13:00 Sample Depth (ft-bmp): 8

Analytes and Methods: GRO AK 101, DRO AK 102, 8260B Full Scan

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Chevron Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30043260	**Well ID**	MW-7	**Date**	7/27/2020		
Site Location	5210 Old Seward Highway, Anchorage, AK 99501	**Site ID**	95414	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	--	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	4.83	**Total Depth (ft-bmp)**	11.7	**Water Column (ft)**	6.87	**Gallons in Well**	1.12
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Sample Method**			Low-Flow
Sample Time	11:00	**Volumes Purged**	0.85	**Sample ID**	MW-7-W-200728	**Evacuation Equipment**	Bladder
Purge Start	10:20	**Gallons Purged**	0.95	**Duplicate ID**	--		
Purge End	10:40	**Total Purge Time (h:m)**	0:20				

Time	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	Total Volume purged (gal)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
10:23	300	4.83	900	--	5.86	1.02	41.3	1.26	12.45	-37	Clear	--
10:26	300	4.83	1800	--	5.82	1.02	42.3	0.90	11.87	-40	Clear	--
10:29	300	4.83	2700	--	5.80	1.02	40.7	0.71	11.75	-42	Clear	--
10:32	300	4.83	3600	--	5.80	1.02	37.8	0.68	11.67	-45	Clear	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-7-W-200728 Sample Time: 11:00 Sample Depth (ft-bmp): 5

Analytes and Methods: GRO AK 101, DRO AK 102, 8260B Full Scan

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Chevron Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30043260	**Well ID**	MW-8	**Date**	7/27/2020		
Site Location	5210 Old Seward Highway, Anchorage, AK 99501	**Site ID**	95414	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	--	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6.36	**Total Depth (ft-bmp)**	12.2	**Water Column (ft)**	5.84	**Gallons in Well**	0.95
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Sample Method**			Low-Flow
Sample Time	12:00	**Volumes Purged**	1.00	**Sample ID**	MW-8-W-200727	**Evacuation Equipment**	Bladder
Purge Start	11:20	**Gallons Purged**	0.95	**Duplicate ID**	--		
Purge End	11:40	**Total Purge Time (h:m)**	0:20				

Time	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	Total Volume purged (gal)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
11:23	300	6.36	900	--	5.91	1.20	0.0	1.19	10.79	-81	Clear	--
11:26	300	6.36	1800	--	5.90	1.20	0.0	1.16	10.70	-82	Clear	--
11:29	300	6.36	2700	--	5.88	1.20	0.0	1.13	10.64	-83	Clear	--
11:32	300	6.36	3600	--	5.86	1.20	0.0	1.25	10.58	-87	Clear	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-8-W-200727 Sample Time: 12:00 Sample Depth (ft-bmp): 7

Analytes and Methods: GRO AK 101, DRO AK 102, BTEX + MTBE 8260B

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
PVC = Polyvinyl Chloride

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

APPENDIX C

Laboratory Analytical Report and Chain of Custody Documentation

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

August 13, 2020

Arcadis - Chevron - AK

Sample Delivery Group:	L1245154
Samples Received:	07/30/2020
Project Number:	30043260.5133
Description:	95414
Site:	95414
Report To:	Nicole Monroe 880 H St. Anchorage, AK 99501

Entire Report Reviewed By:

Brian Ford
Project Manager

BD-1-W-200727 L1245154-01 GW

Collected by: EW | Collected date/time: 07/27/20 00:00 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1520098	1	08/04/20 23:28	08/04/20 23:28	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1518515	50	08/03/20 22:35	08/03/20 22:35	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519736	1	08/04/20 08:04	08/04/20 08:04	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1521694	1	08/07/20 07:56	08/07/20 22:35	KME	Mt. Juliet, TN

MW-4-W-200727 L1245154-02 GW

Collected by: EW | Collected date/time: 07/27/20 11:00 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1521164	1	08/06/20 02:48	08/06/20 02:48	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1518515	1	08/03/20 21:48	08/03/20 21:48	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1520779	1	08/06/20 02:54	08/06/20 02:54	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1521694	1.05	08/07/20 07:56	08/07/20 22:55	KME	Mt. Juliet, TN

BD-1-W-200728 L1245154-03 GW

Collected by: EW | Collected date/time: 07/28/20 00:00 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1521033	5	08/06/20 01:36	08/06/20 01:36	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1518515	50	08/03/20 22:58	08/03/20 22:58	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519736	1	08/04/20 08:26	08/04/20 08:26	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1521570	10	08/06/20 22:26	08/06/20 22:26	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1521694	1	08/07/20 07:56	08/08/20 23:33	CAG	Mt. Juliet, TN

MW-3-W-200728 L1245154-04 GW

Collected by: EW | Collected date/time: 07/28/20 07:00 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1520098	5	08/05/20 00:40	08/05/20 00:40	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519683	1	08/04/20 01:52	08/04/20 01:52	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519868	50	08/10/20 12:56	08/10/20 12:56	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519963	10	08/04/20 23:18	08/04/20 23:18	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1521695	1	08/07/20 07:42	08/08/20 15:25	JDG	Mt. Juliet, TN

MW-10-W-200728 L1245154-05 GW

Collected by: EW | Collected date/time: 07/28/20 08:00 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1520098	1	08/05/20 00:16	08/05/20 00:16	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1518515	1	08/03/20 20:15	08/03/20 20:15	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519683	1	08/04/20 02:14	08/04/20 02:14	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519963	1	08/04/20 22:38	08/04/20 22:38	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1521695	1	08/07/20 07:42	08/08/20 15:45	JDG	Mt. Juliet, TN

SP-1-W-200728 L1245154-06 GW

Collected by: EW | Collected date/time: 07/28/20 08:30 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1520844	1	08/05/20 17:56	08/05/20 17:56	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1518515	1	08/03/20 20:38	08/03/20 20:38	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519683	1	08/04/20 02:36	08/04/20 02:36	JHH	Mt. Juliet, TN

SP-1-W-200728 L1245154-06 GW

Collected by: EW | Collected date/time: 07/28/20 08:30 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519963	1	08/04/20 22:58	08/04/20 22:58	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1521695	1	08/07/20 07:42	08/08/20 16:05	JDG	Mt. Juliet, TN

SP-2-W-200728 L1245154-07 GW

Collected by: EW | Collected date/time: 07/28/20 09:00 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1520844	1	08/05/20 18:20	08/05/20 18:20	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1518515	10	08/03/20 23:22	08/03/20 23:22	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519683	1	08/04/20 02:58	08/04/20 02:58	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1521695	1	08/07/20 07:42	08/08/20 16:25	JDG	Mt. Juliet, TN

SP-4-W-200728 L1245154-08 GW

Collected by: EW | Collected date/time: 07/28/20 10:00 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1520844	1	08/05/20 18:44	08/05/20 18:44	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1518515	1	08/03/20 21:01	08/03/20 21:01	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519683	1	08/04/20 03:20	08/04/20 03:20	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1521695	1	08/07/20 07:42	08/08/20 16:45	JDG	Mt. Juliet, TN

MW-5-W-200728 L1245154-09 GW

Collected by: EW | Collected date/time: 07/28/20 12:00 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1520844	1	08/05/20 19:08	08/05/20 19:08	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1518515	1	08/03/20 21:25	08/03/20 21:25	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519683	1	08/04/20 03:41	08/04/20 03:41	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1521695	1	08/07/20 07:42	08/08/20 17:06	JDG	Mt. Juliet, TN

TRIP BLANK-200728 L1245154-10 GW

Collected by: EW | Collected date/time: 07/28/20 00:00 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1520844	1	08/05/20 16:19	08/05/20 16:19	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1518515	1	08/03/20 17:06	08/03/20 17:06	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1520779	1	08/06/20 02:12	08/06/20 02:12	JHH	Mt. Juliet, TN

EQB-1-W-200727 L1245154-11 GW

Collected by: EW | Collected date/time: 07/27/20 09:00 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1520844	1	08/05/20 16:43	08/05/20 16:43	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519651	1	08/10/20 10:34	08/10/20 10:34	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1520779	1	08/06/20 02:33	08/06/20 02:33	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1521694	1	08/07/20 07:56	08/08/20 00:15	KME	Mt. Juliet, TN

MW-2-W-200727 L1245154-12 GW

Collected by: EW | Collected date/time: 07/27/20 10:00 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1520844	1	08/05/20 19:32	08/05/20 19:32	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519651	1	08/10/20 10:58	08/10/20 10:58	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1520779	1	08/06/20 03:16	08/06/20 03:16	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1521694	1	08/07/20 07:56	08/08/20 00:36	KME	Mt. Juliet, TN

MW-8-W-200727 L1245154-13 GW

Collected by: EW | Collected date/time: 07/27/20 12:00 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1520844	1	08/05/20 19:56	08/05/20 19:56	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519651	50	08/10/20 13:20	08/10/20 13:20	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1520779	1	08/06/20 03:37	08/06/20 03:37	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1521694	1	08/07/20 07:56	08/08/20 00:56	KME	Mt. Juliet, TN

MW-6-W-200727 L1245154-14 GW

Collected by: EW | Collected date/time: 07/27/20 13:00 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1520844	1	08/05/20 20:20	08/05/20 20:20	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519651	1	08/10/20 11:22	08/10/20 11:22	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1520779	1	08/06/20 03:59	08/06/20 03:59	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1521682	1	08/07/20 03:04	08/07/20 03:04	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1521694	1	08/07/20 07:56	08/08/20 01:16	KME	Mt. Juliet, TN

MW-1-W-200727 L1245154-15 GW

Collected by: EW | Collected date/time: 07/27/20 14:00 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1520844	1	08/05/20 20:44	08/05/20 20:44	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519651	10	08/10/20 13:43	08/10/20 13:43	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1520779	1	08/06/20 04:20	08/06/20 04:20	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1521694	1	08/07/20 07:56	08/08/20 23:53	JDG	Mt. Juliet, TN

SP-3-W-200728 L1245154-16 GW

Collected by: EW | Collected date/time: 07/28/20 09:30 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1520844	1	08/05/20 21:08	08/05/20 21:08	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519651	1	08/10/20 11:45	08/10/20 11:45	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1520779	1	08/06/20 04:42	08/06/20 04:42	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1521695	1	08/07/20 07:42	08/08/20 17:26	JDG	Mt. Juliet, TN

MW-7-W-200728 L1245154-17 GW

Collected by: EW | Collected date/time: 07/28/20 11:00 | Received date/time: 07/30/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1521515	10	08/06/20 15:43	08/06/20 15:43	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1519651	250	08/10/20 14:07	08/10/20 14:07	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1520779	1	08/06/20 05:46	08/06/20 05:46	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1521682	10	08/07/20 04:23	08/07/20 04:23	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1521695	1	08/07/20 07:42	08/08/20 17:46	JDG	Mt. Juliet, TN

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

Brian Ford
Project Manager

Volatile Organic Compounds (GC) by Method AK101

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG1520098	(MS) R3556701-3, (MSD) R3556701-4	TPHGAK C6 to C10
WG1520844	(MS) R3556926-3	TPHGAK C6 to C10
WG1521164	(MS) R3556928-3, L1245154-02	TPHGAK C6 to C10

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG1520098	(MSD) R3556701-4	TPHGAK C6 to C10
WG1521164	(MSD) R3556928-4, (MSD) R3556928-6, L1245154-02	TPHGAK C6 to C10

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

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG1519683	(LCS) R3556080-1, L1245154-04, 05, 06, 07, 08, 09	Acrolein, Bromochloromethane, Bromodichloromethane, Chloroform and cis-1,2-Dichloroethene
WG1519736	(LCS) R3556975-1, L1245154-01, 03	Acrolein
WG1520779	(LCS) R3557030-1, L1245154-02, 10, 11, 12, 13, 14, 15, 16, 17	Acrolein and Methyl tert-butyl ether

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG1518515	(MS) R3556012-5, (MS) R3556012-3, (MSD) R3556012-4, (MSD) R3556012-6, L1245154-02	1,2,3-Trichloropropane and 1,2-Dibromoethane
WG1519651	(MS) R3558310-3, (MSD) R3558310-4	1,2,3-Trichloropropane
WG1519736	(MS) R3556975-3, (MSD) R3556975-4	25 analytes
WG1520779	(MS) R3557030-3, (MSD) R3557030-4, L1245154-02	Acrolein

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	U		10.0	100	1	08/04/2020 23:28	WG1520098
(S) a,a,a-Trifluorotoluene(FID)	*101*			*50.0-150*		*08/04/2020 23:28*	WG1520098

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	U		0.100	0.250	50	08/03/2020 22:35	WG1518515
Acetone	U		11.3	50.0	1	08/04/2020 08:04	WG1519736
1,2-Dibromoethane	U		0.205	0.250	50	08/03/2020 22:35	WG1518515
Acrolein	U	J4	2.54	50.0	1	08/04/2020 08:04	WG1519736
Acrylonitrile	U		0.671	10.0	1	08/04/2020 08:04	WG1519736
Benzene	U		0.0941	1.00	1	08/04/2020 08:04	WG1519736
Bromobenzene	U		0.118	1.00	1	08/04/2020 08:04	WG1519736
Bromochloromethane	U		0.128	1.00	1	08/04/2020 08:04	WG1519736
Bromodichloromethane	U		0.136	1.00	1	08/04/2020 08:04	WG1519736
Bromoform	U		0.129	1.00	1	08/04/2020 08:04	WG1519736
Bromomethane	U		0.605	5.00	1	08/04/2020 08:04	WG1519736
n-Butylbenzene	U		0.157	1.00	1	08/04/2020 08:04	WG1519736
sec-Butylbenzene	U		0.125	1.00	1	08/04/2020 08:04	WG1519736
tert-Butylbenzene	U		0.127	1.00	1	08/04/2020 08:04	WG1519736
Carbon disulfide	U		0.0962	1.00	1	08/04/2020 08:04	WG1519736
Carbon tetrachloride	U		0.128	1.00	1	08/04/2020 08:04	WG1519736
Chlorobenzene	U		0.116	1.00	1	08/04/2020 08:04	WG1519736
Chlorodibromomethane	U		0.140	1.00	1	08/04/2020 08:04	WG1519736
Chloroethane	U		0.192	5.00	1	08/04/2020 08:04	WG1519736
Chloroform	U		0.111	5.00	1	08/04/2020 08:04	WG1519736
Chloromethane	U		0.960	2.50	1	08/04/2020 08:04	WG1519736
2-Chlorotoluene	U		0.106	1.00	1	08/04/2020 08:04	WG1519736
4-Chlorotoluene	U		0.114	1.00	1	08/04/2020 08:04	WG1519736
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/04/2020 08:04	WG1519736
Dibromomethane	U		0.122	1.00	1	08/04/2020 08:04	WG1519736
1,2-Dichlorobenzene	U		0.107	1.00	1	08/04/2020 08:04	WG1519736
1,3-Dichlorobenzene	U		0.110	1.00	1	08/04/2020 08:04	WG1519736
1,4-Dichlorobenzene	U		0.120	1.00	1	08/04/2020 08:04	WG1519736
Dichlorodifluoromethane	U		0.374	5.00	1	08/04/2020 08:04	WG1519736
1,1-Dichloroethane	U		0.100	1.00	1	08/04/2020 08:04	WG1519736
1,2-Dichloroethane	U		0.0819	1.00	1	08/04/2020 08:04	WG1519736
1,1-Dichloroethene	U		0.188	1.00	1	08/04/2020 08:04	WG1519736
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/04/2020 08:04	WG1519736
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/04/2020 08:04	WG1519736
1,2-Dichloropropane	U		0.149	1.00	1	08/04/2020 08:04	WG1519736
1,1-Dichloropropene	U		0.142	1.00	1	08/04/2020 08:04	WG1519736
1,3-Dichloropropane	U		0.110	1.00	1	08/04/2020 08:04	WG1519736
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/04/2020 08:04	WG1519736
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/04/2020 08:04	WG1519736
2,2-Dichloropropane	U		0.161	1.00	1	08/04/2020 08:04	WG1519736
Di-isopropyl ether	U		0.105	1.00	1	08/04/2020 08:04	WG1519736
Ethylbenzene	U		0.137	1.00	1	08/04/2020 08:04	WG1519736
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/04/2020 08:04	WG1519736
Isopropylbenzene	U		0.105	1.00	1	08/04/2020 08:04	WG1519736
p-Isopropyltoluene	U		0.120	1.00	1	08/04/2020 08:04	WG1519736
2-Butanone (MEK)	U		1.19	10.0	1	08/04/2020 08:04	WG1519736
Methylene Chloride	U		0.430	5.00	1	08/04/2020 08:04	WG1519736
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/04/2020 08:04	WG1519736
Methyl tert-butyl ether	U		0.101	1.00	1	08/04/2020 08:04	WG1519736

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Naphthalene	U		1.00	5.00	1	08/04/2020 08:04	WG1519736
n-Propylbenzene	U	J0	0.0993	1.00	1	08/04/2020 08:04	WG1519736
Styrene	U		0.118	1.00	1	08/04/2020 08:04	WG1519736
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/04/2020 08:04	WG1519736
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/04/2020 08:04	WG1519736
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/04/2020 08:04	WG1519736
Tetrachloroethene	U		0.300	1.00	1	08/04/2020 08:04	WG1519736
Toluene	U		0.278	1.00	1	08/04/2020 08:04	WG1519736
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/04/2020 08:04	WG1519736
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/04/2020 08:04	WG1519736
1,1,1-Trichloroethane	U		0.149	1.00	1	08/04/2020 08:04	WG1519736
1,1,2-Trichloroethane	U		0.158	1.00	1	08/04/2020 08:04	WG1519736
Trichloroethene	U		0.190	1.00	1	08/04/2020 08:04	WG1519736
Trichlorofluoromethane	U		0.160	5.00	1	08/04/2020 08:04	WG1519736
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/04/2020 08:04	WG1519736
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/04/2020 08:04	WG1519736
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/04/2020 08:04	WG1519736
Vinyl chloride	U		0.234	1.00	1	08/04/2020 08:04	WG1519736
Xylenes, Total	U		0.174	3.00	1	08/04/2020 08:04	WG1519736
o-Xylene	U		0.174	1.00	1	08/04/2020 08:04	WG1519736
m&p-Xylene	U		0.430	2.00	1	08/04/2020 08:04	WG1519736
(S) Toluene-d8	*96.9*			*80.0-120*		*08/04/2020 08:04*	WG1519736
(S) 4-Bromofluorobenzene	*97.8*			*77.0-126*		*08/04/2020 08:04*	WG1519736
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*08/04/2020 08:04*	WG1519736

Sample Narrative:

L1245154-01 WG1518515: Cannot run lower due to NT.

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		229	800	1	08/07/2020 22:35	WG1521694
(S) o-Terphenyl	*79.8*			*50.0-150*		*08/07/2020 22:35*	WG1521694

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	14.8	J J3 J6	10.0	100	1	08/06/2020 02:48	WG1521164
(S) a,a,a-Trifluorotoluene(FID)	*101*			*50.0-150*		*08/06/2020 02:48*	WG1521164

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	0.00600	J5	0.00200	0.00500	1	08/03/2020 21:48	WG1518515
Acetone	U		11.3	50.0	1	08/06/2020 02:54	WG1520779
1,2-Dibromoethane	0.0380	J5	0.00410	0.00500	1	08/03/2020 21:48	WG1518515
Acrolein	U	J4 J5	2.54	50.0	1	08/06/2020 02:54	WG1520779
Acrylonitrile	U		0.671	10.0	1	08/06/2020 02:54	WG1520779
Benzene	U		0.0941	1.00	1	08/06/2020 02:54	WG1520779
Bromobenzene	U		0.118	1.00	1	08/06/2020 02:54	WG1520779
Bromochloromethane	U		0.128	1.00	1	08/06/2020 02:54	WG1520779
Bromodichloromethane	U		0.136	1.00	1	08/06/2020 02:54	WG1520779
Bromoform	U		0.129	1.00	1	08/06/2020 02:54	WG1520779
Bromomethane	U		0.605	5.00	1	08/06/2020 02:54	WG1520779
n-Butylbenzene	U		0.157	1.00	1	08/06/2020 02:54	WG1520779
sec-Butylbenzene	U		0.125	1.00	1	08/06/2020 02:54	WG1520779
tert-Butylbenzene	U		0.127	1.00	1	08/06/2020 02:54	WG1520779
Carbon disulfide	U		0.0962	1.00	1	08/06/2020 02:54	WG1520779
Carbon tetrachloride	U		0.128	1.00	1	08/06/2020 02:54	WG1520779
Chlorobenzene	U		0.116	1.00	1	08/06/2020 02:54	WG1520779
Chlorodibromomethane	U		0.140	1.00	1	08/06/2020 02:54	WG1520779
Chloroethane	U		0.192	5.00	1	08/06/2020 02:54	WG1520779
Chloroform	U		0.111	5.00	1	08/06/2020 02:54	WG1520779
Chloromethane	U		0.960	2.50	1	08/06/2020 02:54	WG1520779
2-Chlorotoluene	U		0.106	1.00	1	08/06/2020 02:54	WG1520779
4-Chlorotoluene	U		0.114	1.00	1	08/06/2020 02:54	WG1520779
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/06/2020 02:54	WG1520779
Dibromomethane	U		0.122	1.00	1	08/06/2020 02:54	WG1520779
1,2-Dichlorobenzene	U		0.107	1.00	1	08/06/2020 02:54	WG1520779
1,3-Dichlorobenzene	U		0.110	1.00	1	08/06/2020 02:54	WG1520779
1,4-Dichlorobenzene	U		0.120	1.00	1	08/06/2020 02:54	WG1520779
Dichlorodifluoromethane	0.900	J J0	0.374	5.00	1	08/06/2020 02:54	WG1520779
1,1-Dichloroethane	U		0.100	1.00	1	08/06/2020 02:54	WG1520779
1,2-Dichloroethane	0.770	J	0.0819	1.00	1	08/06/2020 02:54	WG1520779
1,1-Dichloroethene	U		0.188	1.00	1	08/06/2020 02:54	WG1520779
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/06/2020 02:54	WG1520779
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/06/2020 02:54	WG1520779
1,2-Dichloropropane	U		0.149	1.00	1	08/06/2020 02:54	WG1520779
1,1-Dichloropropene	U		0.142	1.00	1	08/06/2020 02:54	WG1520779
1,3-Dichloropropane	U		0.110	1.00	1	08/06/2020 02:54	WG1520779
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/06/2020 02:54	WG1520779
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/06/2020 02:54	WG1520779
2,2-Dichloropropane	U		0.161	1.00	1	08/06/2020 02:54	WG1520779
Di-isopropyl ether	U		0.105	1.00	1	08/06/2020 02:54	WG1520779
Ethylbenzene	U		0.137	1.00	1	08/06/2020 02:54	WG1520779
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/06/2020 02:54	WG1520779
Isopropylbenzene	U		0.105	1.00	1	08/06/2020 02:54	WG1520779
p-Isopropyltoluene	U		0.120	1.00	1	08/06/2020 02:54	WG1520779
2-Butanone (MEK)	U		1.19	10.0	1	08/06/2020 02:54	WG1520779
Methylene Chloride	U		0.430	5.00	1	08/06/2020 02:54	WG1520779
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/06/2020 02:54	WG1520779
Methyl tert-butyl ether	U	J4	0.101	1.00	1	08/06/2020 02:54	WG1520779

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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	U		1.00	5.00	1	08/06/2020 02:54	WG1520779
n-Propylbenzene	U		0.0993	1.00	1	08/06/2020 02:54	WG1520779
Styrene	U		0.118	1.00	1	08/06/2020 02:54	WG1520779
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/06/2020 02:54	WG1520779
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/06/2020 02:54	WG1520779
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/06/2020 02:54	WG1520779
Tetrachloroethene	U		0.300	1.00	1	08/06/2020 02:54	WG1520779
Toluene	U		0.278	1.00	1	08/06/2020 02:54	WG1520779
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/06/2020 02:54	WG1520779
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/06/2020 02:54	WG1520779
1,1,1-Trichloroethane	U		0.149	1.00	1	08/06/2020 02:54	WG1520779
1,1,2-Trichloroethane	U		0.158	1.00	1	08/06/2020 02:54	WG1520779
Trichloroethene	U		0.190	1.00	1	08/06/2020 02:54	WG1520779
Trichlorofluoromethane	U		0.160	5.00	1	08/06/2020 02:54	WG1520779
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/06/2020 02:54	WG1520779
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/06/2020 02:54	WG1520779
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/06/2020 02:54	WG1520779
Vinyl chloride	U		0.234	1.00	1	08/06/2020 02:54	WG1520779
Xylenes, Total	U		0.174	3.00	1	08/06/2020 02:54	WG1520779
o-Xylene	U		0.174	1.00	1	08/06/2020 02:54	WG1520779
m&p-Xylene	U		0.430	2.00	1	08/06/2020 02:54	WG1520779
(S) Toluene-d8	*95.5*			*80.0-120*		*08/06/2020 02:54*	WG1520779
(S) 4-Bromofluorobenzene	*98.5*			*77.0-126*		*08/06/2020 02:54*	WG1520779
(S) 1,2-Dichloroethane-d4	*97.4*			*70.0-130*		*08/06/2020 02:54*	WG1520779

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
AK102 DRO C10-C25	U		240	840	1.05	08/07/2020 22:55	WG1521694
(S) o-Terphenyl	*73.2*			*50.0-150*		*08/07/2020 22:55*	WG1521694

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	2620		50.0	500	5	08/06/2020 01:36	WG1521033
(S) a,a,a-Trifluorotoluene(FID)	*117*			*50.0-150*		*08/06/2020 01:36*	WG1521033

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	U		0.100	0.250	50	08/03/2020 22:58	WG1518515
Acetone	U		11.3	50.0	1	08/04/2020 08:26	WG1519736
1,2-Dibromoethane	U		0.205	0.250	50	08/03/2020 22:58	WG1518515
Acrolein	U	J4	2.54	50.0	1	08/04/2020 08:26	WG1519736
Acrylonitrile	U		0.671	10.0	1	08/04/2020 08:26	WG1519736
Benzene	70.3		0.0941	1.00	1	08/04/2020 08:26	WG1519736
Bromobenzene	U		0.118	1.00	1	08/04/2020 08:26	WG1519736
Bromochloromethane	U		0.128	1.00	1	08/04/2020 08:26	WG1519736
Bromodichloromethane	U		0.136	1.00	1	08/04/2020 08:26	WG1519736
Bromoform	U		0.129	1.00	1	08/04/2020 08:26	WG1519736
Bromomethane	U		0.605	5.00	1	08/04/2020 08:26	WG1519736
n-Butylbenzene	1.75		0.157	1.00	1	08/04/2020 08:26	WG1519736
sec-Butylbenzene	2.67		0.125	1.00	1	08/04/2020 08:26	WG1519736
tert-Butylbenzene	0.713	J	0.127	1.00	1	08/04/2020 08:26	WG1519736
Carbon disulfide	U		0.0962	1.00	1	08/04/2020 08:26	WG1519736
Carbon tetrachloride	U		0.128	1.00	1	08/04/2020 08:26	WG1519736
Chlorobenzene	U		0.116	1.00	1	08/04/2020 08:26	WG1519736
Chlorodibromomethane	U		0.140	1.00	1	08/04/2020 08:26	WG1519736
Chloroethane	U		0.192	5.00	1	08/04/2020 08:26	WG1519736
Chloroform	U		0.111	5.00	1	08/04/2020 08:26	WG1519736
Chloromethane	U		0.960	2.50	1	08/04/2020 08:26	WG1519736
2-Chlorotoluene	U		0.106	1.00	1	08/04/2020 08:26	WG1519736
4-Chlorotoluene	U		0.114	1.00	1	08/04/2020 08:26	WG1519736
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/04/2020 08:26	WG1519736
Dibromomethane	U		0.122	1.00	1	08/04/2020 08:26	WG1519736
1,2-Dichlorobenzene	U		0.107	1.00	1	08/04/2020 08:26	WG1519736
1,3-Dichlorobenzene	U		0.110	1.00	1	08/04/2020 08:26	WG1519736
1,4-Dichlorobenzene	U		0.120	1.00	1	08/04/2020 08:26	WG1519736
Dichlorodifluoromethane	U		0.374	5.00	1	08/04/2020 08:26	WG1519736
1,1-Dichloroethane	U		0.100	1.00	1	08/04/2020 08:26	WG1519736
1,2-Dichloroethane	U		0.0819	1.00	1	08/04/2020 08:26	WG1519736
1,1-Dichloroethene	U		0.188	1.00	1	08/04/2020 08:26	WG1519736
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/04/2020 08:26	WG1519736
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/04/2020 08:26	WG1519736
1,2-Dichloropropane	U		0.149	1.00	1	08/04/2020 08:26	WG1519736
1,1-Dichloropropene	U		0.142	1.00	1	08/04/2020 08:26	WG1519736
1,3-Dichloropropane	U		0.110	1.00	1	08/04/2020 08:26	WG1519736
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/04/2020 08:26	WG1519736
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/04/2020 08:26	WG1519736
2,2-Dichloropropane	U		0.161	1.00	1	08/04/2020 08:26	WG1519736
Di-isopropyl ether	U		0.105	1.00	1	08/04/2020 08:26	WG1519736
Ethylbenzene	196		1.37	10.0	10	08/06/2020 22:26	WG1521570
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/04/2020 08:26	WG1519736
Isopropylbenzene	17.2		0.105	1.00	1	08/04/2020 08:26	WG1519736
p-Isopropyltoluene	9.51		0.120	1.00	1	08/04/2020 08:26	WG1519736
2-Butanone (MEK)	U		1.19	10.0	1	08/04/2020 08:26	WG1519736
Methylene Chloride	U		0.430	5.00	1	08/04/2020 08:26	WG1519736
4-Methyl-2-pentanone (MIBK)	1.27	J	0.478	10.0	1	08/04/2020 08:26	WG1519736
Methyl tert-butyl ether	U		0.101	1.00	1	08/04/2020 08:26	WG1519736

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

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Naphthalene	61.9		1.00	5.00	1	08/04/2020 08:26	WG1519736
n-Propylbenzene	34.6	J0	0.0993	1.00	1	08/04/2020 08:26	WG1519736
Styrene	U		0.118	1.00	1	08/04/2020 08:26	WG1519736
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/04/2020 08:26	WG1519736
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/04/2020 08:26	WG1519736
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/04/2020 08:26	WG1519736
Tetrachloroethene	U		0.300	1.00	1	08/04/2020 08:26	WG1519736
Toluene	15.2		0.278	1.00	1	08/04/2020 08:26	WG1519736
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/04/2020 08:26	WG1519736
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/04/2020 08:26	WG1519736
1,1,1-Trichloroethane	U		0.149	1.00	1	08/04/2020 08:26	WG1519736
1,1,2-Trichloroethane	U		0.158	1.00	1	08/04/2020 08:26	WG1519736
Trichloroethene	U		0.190	1.00	1	08/04/2020 08:26	WG1519736
Trichlorofluoromethane	3.90	J	0.160	5.00	1	08/04/2020 08:26	WG1519736
1,2,4-Trimethylbenzene	107		0.322	1.00	1	08/04/2020 08:26	WG1519736
1,2,3-Trimethylbenzene	96.2		1.04	10.0	10	08/06/2020 22:26	WG1521570
1,3,5-Trimethylbenzene	31.9		0.104	1.00	1	08/04/2020 08:26	WG1519736
Vinyl chloride	U		0.234	1.00	1	08/04/2020 08:26	WG1519736
Xylenes, Total	18.2		0.174	3.00	1	08/04/2020 08:26	WG1519736
o-Xylene	18.2		0.174	1.00	1	08/04/2020 08:26	WG1519736
m&p-Xylene	449		4.30	20.0	10	08/06/2020 22:26	WG1521570
(S) Toluene-d8	*93.8*			*80.0-120*		*08/04/2020 08:26*	WG1519736
(S) Toluene-d8	*111*			*80.0-120*		*08/06/2020 22:26*	WG1521570
(S) 4-Bromofluorobenzene	*98.1*			*77.0-126*		*08/04/2020 08:26*	WG1519736
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*08/06/2020 22:26*	WG1521570
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*08/04/2020 08:26*	WG1519736
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*08/06/2020 22:26*	WG1521570

Sample Narrative:

L1245154-03 WG1518515: Cannot run lower due to NT.

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	1040		229	800	1	08/08/2020 23:33	WG1521694
(S) o-Terphenyl	*79.9*			*50.0-150*		*08/08/2020 23:33*	WG1521694

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	2570		50.0	500	5	08/05/2020 00:40	WG1520098
(S) a,a,a-Trifluorotoluene(FID)	*116*			*50.0-150*		*08/05/2020 00:40*	WG1520098

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	0.600		0.100	0.250	50	08/10/2020 12:56	WG1519868
Acetone	U		11.3	50.0	1	08/04/2020 01:52	WG1519683
1,2-Dibromoethane	0.350		0.205	0.250	50	08/10/2020 12:56	WG1519868
Acrolein	U	J4	2.54	50.0	1	08/04/2020 01:52	WG1519683
Acrylonitrile	U		0.671	10.0	1	08/04/2020 01:52	WG1519683
Benzene	68.4		0.0941	1.00	1	08/04/2020 01:52	WG1519683
Bromobenzene	U		0.118	1.00	1	08/04/2020 01:52	WG1519683
Bromochloromethane	U	J4	0.128	1.00	1	08/04/2020 01:52	WG1519683
Bromodichloromethane	U	J4	0.136	1.00	1	08/04/2020 01:52	WG1519683
Bromoform	U		0.129	1.00	1	08/04/2020 01:52	WG1519683
Bromomethane	U		0.605	5.00	1	08/04/2020 01:52	WG1519683
n-Butylbenzene	2.15		0.157	1.00	1	08/04/2020 01:52	WG1519683
sec-Butylbenzene	2.69		0.125	1.00	1	08/04/2020 01:52	WG1519683
tert-Butylbenzene	U		0.127	1.00	1	08/04/2020 01:52	WG1519683
Carbon disulfide	U		0.0962	1.00	1	08/04/2020 01:52	WG1519683
Carbon tetrachloride	U		0.128	1.00	1	08/04/2020 01:52	WG1519683
Chlorobenzene	U		0.116	1.00	1	08/04/2020 01:52	WG1519683
Chlorodibromomethane	U		0.140	1.00	1	08/04/2020 01:52	WG1519683
Chloroethane	U		0.192	5.00	1	08/04/2020 01:52	WG1519683
Chloroform	U	J4	0.111	5.00	1	08/04/2020 01:52	WG1519683
Chloromethane	U		0.960	2.50	1	08/04/2020 01:52	WG1519683
2-Chlorotoluene	U		0.106	1.00	1	08/04/2020 01:52	WG1519683
4-Chlorotoluene	U		0.114	1.00	1	08/04/2020 01:52	WG1519683
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/04/2020 01:52	WG1519683
Dibromomethane	U		0.122	1.00	1	08/04/2020 01:52	WG1519683
1,2-Dichlorobenzene	U		0.107	1.00	1	08/04/2020 01:52	WG1519683
1,3-Dichlorobenzene	U		0.110	1.00	1	08/04/2020 01:52	WG1519683
1,4-Dichlorobenzene	U		0.120	1.00	1	08/04/2020 01:52	WG1519683
Dichlorodifluoromethane	U		0.374	5.00	1	08/04/2020 01:52	WG1519683
1,1-Dichloroethane	U		0.100	1.00	1	08/04/2020 01:52	WG1519683
1,2-Dichloroethane	U		0.0819	1.00	1	08/04/2020 01:52	WG1519683
1,1-Dichloroethene	U		0.188	1.00	1	08/04/2020 01:52	WG1519683
cis-1,2-Dichloroethene	U	J4	0.126	1.00	1	08/04/2020 01:52	WG1519683
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/04/2020 01:52	WG1519683
1,2-Dichloropropane	U		0.149	1.00	1	08/04/2020 01:52	WG1519683
1,1-Dichloropropene	U		0.142	1.00	1	08/04/2020 01:52	WG1519683
1,3-Dichloropropane	U		0.110	1.00	1	08/04/2020 01:52	WG1519683
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/04/2020 01:52	WG1519683
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/04/2020 01:52	WG1519683
2,2-Dichloropropane	U		0.161	1.00	1	08/04/2020 01:52	WG1519683
Di-isopropyl ether	U		0.105	1.00	1	08/04/2020 01:52	WG1519683
Ethylbenzene	222		1.37	10.0	10	08/04/2020 23:18	WG1519963
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/04/2020 01:52	WG1519683
Isopropylbenzene	17.4		0.105	1.00	1	08/04/2020 01:52	WG1519683
p-Isopropyltoluene	9.82		0.120	1.00	1	08/04/2020 01:52	WG1519683
2-Butanone (MEK)	U		1.19	10.0	1	08/04/2020 01:52	WG1519683
Methylene Chloride	U		0.430	5.00	1	08/04/2020 01:52	WG1519683
4-Methyl-2-pentanone (MIBK)	1.28	J	0.478	10.0	1	08/04/2020 01:52	WG1519683
Methyl tert-butyl ether	U		0.101	1.00	1	08/04/2020 01:52	WG1519683

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Naphthalene	64.5		1.00	5.00	1	08/04/2020 01:52	WG1519683
n-Propylbenzene	36.8	J0	0.0993	1.00	1	08/04/2020 01:52	WG1519683
Styrene	U		0.118	1.00	1	08/04/2020 01:52	WG1519683
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/04/2020 01:52	WG1519683
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/04/2020 01:52	WG1519683
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/04/2020 01:52	WG1519683
Tetrachloroethene	U		0.300	1.00	1	08/04/2020 01:52	WG1519683
Toluene	14.9		0.278	1.00	1	08/04/2020 01:52	WG1519683
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/04/2020 01:52	WG1519683
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/04/2020 01:52	WG1519683
1,1,1-Trichloroethane	U		0.149	1.00	1	08/04/2020 01:52	WG1519683
1,1,2-Trichloroethane	U		0.158	1.00	1	08/04/2020 01:52	WG1519683
Trichloroethene	U		0.190	1.00	1	08/04/2020 01:52	WG1519683
Trichlorofluoromethane	U		0.160	5.00	1	08/04/2020 01:52	WG1519683
1,2,4-Trimethylbenzene	323		3.22	10.0	10	08/04/2020 23:18	WG1519963
1,2,3-Trimethylbenzene	86.9		0.104	1.00	1	08/04/2020 01:52	WG1519683
1,3,5-Trimethylbenzene	35.4		0.104	1.00	1	08/04/2020 01:52	WG1519683
Vinyl chloride	U		0.234	1.00	1	08/04/2020 01:52	WG1519683
Xylenes, Total	545		1.74	30.0	10	08/04/2020 23:18	WG1519963
o-Xylene	16.5		1.74	10.0	10	08/04/2020 23:18	WG1519963
m&p-Xylene	528		4.30	20.0	10	08/04/2020 23:18	WG1519963
(S) Toluene-d8	*92.1*			*80.0-120*		*08/04/2020 01:52*	WG1519683
(S) Toluene-d8	*111*			*80.0-120*		*08/04/2020 23:18*	WG1519963
(S) 4-Bromofluorobenzene	*99.0*			*77.0-126*		*08/04/2020 01:52*	WG1519683
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*08/04/2020 23:18*	WG1519963
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*08/04/2020 01:52*	WG1519683
(S) 1,2-Dichloroethane-d4	*81.9*			*70.0-130*		*08/04/2020 23:18*	WG1519963

Sample Narrative:

L1245154-04 WG1519868: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	1480		229	800	1	08/08/2020 15:25	WG1521695
(S) o-Terphenyl	*83.9*			*50.0-150*		*08/08/2020 15:25*	WG1521695

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	U		10.0	100	1	08/05/2020 00:16	WG1520098
(S) a,a,a-Trifluorotoluene(FID)	*101*			*50.0-150*		*08/05/2020 00:16*	WG1520098

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/03/2020 20:15	WG1518515
Acetone	U		11.3	50.0	1	08/04/2020 02:14	WG1519683
1,2-Dibromoethane	U		0.00410	0.00500	1	08/03/2020 20:15	WG1518515
Acrolein	U	J4	2.54	50.0	1	08/04/2020 02:14	WG1519683
Acrylonitrile	U		0.671	10.0	1	08/04/2020 02:14	WG1519683
Benzene	0.111	J	0.0941	1.00	1	08/04/2020 02:14	WG1519683
Bromobenzene	U		0.118	1.00	1	08/04/2020 02:14	WG1519683
Bromochloromethane	U	J4	0.128	1.00	1	08/04/2020 02:14	WG1519683
Bromodichloromethane	U	J4	0.136	1.00	1	08/04/2020 02:14	WG1519683
Bromoform	U		0.129	1.00	1	08/04/2020 02:14	WG1519683
Bromomethane	U		0.605	5.00	1	08/04/2020 02:14	WG1519683
n-Butylbenzene	U		0.157	1.00	1	08/04/2020 02:14	WG1519683
sec-Butylbenzene	U		0.125	1.00	1	08/04/2020 02:14	WG1519683
tert-Butylbenzene	U		0.127	1.00	1	08/04/2020 02:14	WG1519683
Carbon disulfide	U		0.0962	1.00	1	08/04/2020 02:14	WG1519683
Carbon tetrachloride	U		0.128	1.00	1	08/04/2020 02:14	WG1519683
Chlorobenzene	U		0.116	1.00	1	08/04/2020 02:14	WG1519683
Chlorodibromomethane	U		0.140	1.00	1	08/04/2020 02:14	WG1519683
Chloroethane	U		0.192	5.00	1	08/04/2020 02:14	WG1519683
Chloroform	U	J4	0.111	5.00	1	08/04/2020 02:14	WG1519683
Chloromethane	U		0.960	2.50	1	08/04/2020 02:14	WG1519683
2-Chlorotoluene	U		0.106	1.00	1	08/04/2020 02:14	WG1519683
4-Chlorotoluene	U		0.114	1.00	1	08/04/2020 02:14	WG1519683
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/04/2020 02:14	WG1519683
Dibromomethane	U		0.122	1.00	1	08/04/2020 02:14	WG1519683
1,2-Dichlorobenzene	U		0.107	1.00	1	08/04/2020 02:14	WG1519683
1,3-Dichlorobenzene	U		0.110	1.00	1	08/04/2020 02:14	WG1519683
1,4-Dichlorobenzene	U		0.120	1.00	1	08/04/2020 02:14	WG1519683
Dichlorodifluoromethane	9.52		0.374	5.00	1	08/04/2020 02:14	WG1519683
1,1-Dichloroethane	0.316	J	0.100	1.00	1	08/04/2020 02:14	WG1519683
1,2-Dichloroethane	U		0.0819	1.00	1	08/04/2020 02:14	WG1519683
1,1-Dichloroethene	U		0.188	1.00	1	08/04/2020 02:14	WG1519683
cis-1,2-Dichloroethene	U	J4	0.126	1.00	1	08/04/2020 02:14	WG1519683
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/04/2020 02:14	WG1519683
1,2-Dichloropropane	U		0.149	1.00	1	08/04/2020 02:14	WG1519683
1,1-Dichloropropene	U		0.142	1.00	1	08/04/2020 02:14	WG1519683
1,3-Dichloropropane	U		0.110	1.00	1	08/04/2020 02:14	WG1519683
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/04/2020 02:14	WG1519683
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/04/2020 02:14	WG1519683
2,2-Dichloropropane	U		0.161	1.00	1	08/04/2020 02:14	WG1519683
Di-isopropyl ether	U		0.105	1.00	1	08/04/2020 02:14	WG1519683
Ethylbenzene	U		0.137	1.00	1	08/04/2020 22:38	WG1519963
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/04/2020 02:14	WG1519683
Isopropylbenzene	U		0.105	1.00	1	08/04/2020 02:14	WG1519683
p-Isopropyltoluene	U		0.120	1.00	1	08/04/2020 02:14	WG1519683
2-Butanone (MEK)	U		1.19	10.0	1	08/04/2020 02:14	WG1519683
Methylene Chloride	U		0.430	5.00	1	08/04/2020 02:14	WG1519683
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/04/2020 02:14	WG1519683
Methyl tert-butyl ether	U		0.101	1.00	1	08/04/2020 02:14	WG1519683

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	U		1.00	5.00	1	08/04/2020 22:38	WG1519963
n-Propylbenzene	U		0.0993	1.00	1	08/04/2020 22:38	WG1519963
Styrene	U		0.118	1.00	1	08/04/2020 02:14	WG1519683
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/04/2020 02:14	WG1519683
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/04/2020 02:14	WG1519683
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/04/2020 02:14	WG1519683
Tetrachloroethene	U		0.300	1.00	1	08/04/2020 02:14	WG1519683
Toluene	1.49		0.278	1.00	1	08/04/2020 02:14	WG1519683
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/04/2020 02:14	WG1519683
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/04/2020 02:14	WG1519683
1,1,1-Trichloroethane	U		0.149	1.00	1	08/04/2020 02:14	WG1519683
1,1,2-Trichloroethane	U		0.158	1.00	1	08/04/2020 02:14	WG1519683
Trichloroethene	U		0.190	1.00	1	08/04/2020 02:14	WG1519683
Trichlorofluoromethane	U		0.160	5.00	1	08/04/2020 02:14	WG1519683
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/04/2020 22:38	WG1519963
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/04/2020 22:38	WG1519963
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/04/2020 22:38	WG1519963
Vinyl chloride	U		0.234	1.00	1	08/04/2020 02:14	WG1519683
Xylenes, Total	U		0.174	3.00	1	08/04/2020 22:38	WG1519963
o-Xylene	U		0.174	1.00	1	08/04/2020 22:38	WG1519963
m&p-Xylene	U		0.430	2.00	1	08/04/2020 22:38	WG1519963
(S) Toluene-d8	*96.7*			*80.0-120*		*08/04/2020 02:14*	WG1519683
(S) Toluene-d8	*111*			*80.0-120*		*08/04/2020 22:38*	WG1519963
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*08/04/2020 02:14*	WG1519683
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*08/04/2020 22:38*	WG1519963
(S) 1,2-Dichloroethane-d4	*97.4*			*70.0-130*		*08/04/2020 02:14*	WG1519683
(S) 1,2-Dichloroethane-d4	*80.8*			*70.0-130*		*08/04/2020 22:38*	WG1519963

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
AK102 DRO C10-C25	738	J	229	800	1	08/08/2020 15:45	WG1521695
(S) o-Terphenyl	*86.7*			*50.0-150*		*08/08/2020 15:45*	WG1521695

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	U		10.0	100	1	08/05/2020 17:56	WG1520844
(S) a,a,a-Trifluorotoluene(FID)	*100*			*50.0-150*		*08/05/2020 17:56*	WG1520844

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/03/2020 20:38	WG1518515
Acetone	U		11.3	50.0	1	08/04/2020 02:36	WG1519683
1,2-Dibromoethane	U		0.00410	0.00500	1	08/03/2020 20:38	WG1518515
Acrolein	U	J4	2.54	50.0	1	08/04/2020 02:36	WG1519683
Acrylonitrile	U		0.671	10.0	1	08/04/2020 02:36	WG1519683
Benzene	U		0.0941	1.00	1	08/04/2020 02:36	WG1519683
Bromobenzene	U		0.118	1.00	1	08/04/2020 02:36	WG1519683
Bromochloromethane	U	J4	0.128	1.00	1	08/04/2020 02:36	WG1519683
Bromodichloromethane	U	J4	0.136	1.00	1	08/04/2020 02:36	WG1519683
Bromoform	U		0.129	1.00	1	08/04/2020 02:36	WG1519683
Bromomethane	U		0.605	5.00	1	08/04/2020 02:36	WG1519683
n-Butylbenzene	U		0.157	1.00	1	08/04/2020 02:36	WG1519683
sec-Butylbenzene	U		0.125	1.00	1	08/04/2020 02:36	WG1519683
tert-Butylbenzene	U		0.127	1.00	1	08/04/2020 02:36	WG1519683
Carbon disulfide	U		0.0962	1.00	1	08/04/2020 02:36	WG1519683
Carbon tetrachloride	U		0.128	1.00	1	08/04/2020 02:36	WG1519683
Chlorobenzene	U		0.116	1.00	1	08/04/2020 02:36	WG1519683
Chlorodibromomethane	U		0.140	1.00	1	08/04/2020 02:36	WG1519683
Chloroethane	U		0.192	5.00	1	08/04/2020 02:36	WG1519683
Chloroform	U	J4	0.111	5.00	1	08/04/2020 02:36	WG1519683
Chloromethane	U		0.960	2.50	1	08/04/2020 02:36	WG1519683
2-Chlorotoluene	U	J0	0.106	1.00	1	08/04/2020 02:36	WG1519683
4-Chlorotoluene	U		0.114	1.00	1	08/04/2020 02:36	WG1519683
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/04/2020 02:36	WG1519683
Dibromomethane	U		0.122	1.00	1	08/04/2020 02:36	WG1519683
1,2-Dichlorobenzene	U		0.107	1.00	1	08/04/2020 02:36	WG1519683
1,3-Dichlorobenzene	U		0.110	1.00	1	08/04/2020 02:36	WG1519683
1,4-Dichlorobenzene	U		0.120	1.00	1	08/04/2020 02:36	WG1519683
Dichlorodifluoromethane	U		0.374	5.00	1	08/04/2020 02:36	WG1519683
1,1-Dichloroethane	U		0.100	1.00	1	08/04/2020 02:36	WG1519683
1,2-Dichloroethane	U		0.0819	1.00	1	08/04/2020 02:36	WG1519683
1,1-Dichloroethene	U		0.188	1.00	1	08/04/2020 02:36	WG1519683
cis-1,2-Dichloroethene	U	J4	0.126	1.00	1	08/04/2020 02:36	WG1519683
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/04/2020 02:36	WG1519683
1,2-Dichloropropane	U		0.149	1.00	1	08/04/2020 02:36	WG1519683
1,1-Dichloropropene	U		0.142	1.00	1	08/04/2020 02:36	WG1519683
1,3-Dichloropropane	U		0.110	1.00	1	08/04/2020 02:36	WG1519683
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/04/2020 02:36	WG1519683
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/04/2020 02:36	WG1519683
2,2-Dichloropropane	U		0.161	1.00	1	08/04/2020 02:36	WG1519683
Di-isopropyl ether	U		0.105	1.00	1	08/04/2020 02:36	WG1519683
Ethylbenzene	U		0.137	1.00	1	08/04/2020 02:36	WG1519683
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/04/2020 02:36	WG1519683
Isopropylbenzene	U		0.105	1.00	1	08/04/2020 02:36	WG1519683
p-Isopropyltoluene	U		0.120	1.00	1	08/04/2020 02:36	WG1519683
2-Butanone (MEK)	U		1.19	10.0	1	08/04/2020 02:36	WG1519683
Methylene Chloride	U		0.430	5.00	1	08/04/2020 02:36	WG1519683
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/04/2020 02:36	WG1519683
Methyl tert-butyl ether	U		0.101	1.00	1	08/04/2020 02:36	WG1519683

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	U		1.00	5.00	1	08/04/2020 02:36	WG1519683
n-Propylbenzene	U	J0	0.0993	1.00	1	08/04/2020 02:36	WG1519683
Styrene	U		0.118	1.00	1	08/04/2020 02:36	WG1519683
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/04/2020 02:36	WG1519683
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/04/2020 02:36	WG1519683
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/04/2020 02:36	WG1519683
Tetrachloroethene	U		0.300	1.00	1	08/04/2020 02:36	WG1519683
Toluene	U		0.278	1.00	1	08/04/2020 02:36	WG1519683
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/04/2020 02:36	WG1519683
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/04/2020 02:36	WG1519683
1,1,1-Trichloroethane	U		0.149	1.00	1	08/04/2020 02:36	WG1519683
1,1,2-Trichloroethane	U		0.158	1.00	1	08/04/2020 02:36	WG1519683
Trichloroethene	U		0.190	1.00	1	08/04/2020 02:36	WG1519683
Trichlorofluoromethane	U		0.160	5.00	1	08/04/2020 02:36	WG1519683
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/04/2020 22:58	WG1519963
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/04/2020 22:58	WG1519963
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/04/2020 02:36	WG1519683
Vinyl chloride	U		0.234	1.00	1	08/04/2020 02:36	WG1519683
Xylenes, Total	U		0.174	3.00	1	08/04/2020 02:36	WG1519683
o-Xylene	U		0.174	1.00	1	08/04/2020 02:36	WG1519683
m&p-Xylene	U		0.430	2.00	1	08/04/2020 02:36	WG1519683
(S) Toluene-d8	*94.1*			*80.0-120*		*08/04/2020 02:36*	WG1519683
(S) Toluene-d8	*110*			*80.0-120*		*08/04/2020 22:58*	WG1519963
(S) 4-Bromofluorobenzene	*97.7*			*77.0-126*		*08/04/2020 02:36*	WG1519683
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*08/04/2020 22:58*	WG1519963
(S) 1,2-Dichloroethane-d4	*99.1*			*70.0-130*		*08/04/2020 02:36*	WG1519683
(S) 1,2-Dichloroethane-d4	*83.9*			*70.0-130*		*08/04/2020 22:58*	WG1519963

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
AK102 DRO C10-C25	U		229	800	1	08/08/2020 16:05	WG1521695
(S) o-Terphenyl	*81.0*			*50.0-150*		*08/08/2020 16:05*	WG1521695

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	U		10.0	100	1	08/05/2020 18:20	WG1520844
(S) a,a,a-Trifluorotoluene(FID)	*101*			*50.0-150*		*08/05/2020 18:20*	WG1520844

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	U		0.0200	0.0500	10	08/03/2020 23:22	WG1518515
Acetone	U		11.3	50.0	1	08/04/2020 02:58	WG1519683
1,2-Dibromoethane	U		0.0410	0.0500	10	08/03/2020 23:22	WG1518515
Acrolein	U	J4	2.54	50.0	1	08/04/2020 02:58	WG1519683
Acrylonitrile	U		0.671	10.0	1	08/04/2020 02:58	WG1519683
Benzene	U		0.0941	1.00	1	08/04/2020 02:58	WG1519683
Bromobenzene	U		0.118	1.00	1	08/04/2020 02:58	WG1519683
Bromochloromethane	U	J4	0.128	1.00	1	08/04/2020 02:58	WG1519683
Bromodichloromethane	U	J4	0.136	1.00	1	08/04/2020 02:58	WG1519683
Bromoform	U		0.129	1.00	1	08/04/2020 02:58	WG1519683
Bromomethane	U		0.605	5.00	1	08/04/2020 02:58	WG1519683
n-Butylbenzene	U		0.157	1.00	1	08/04/2020 02:58	WG1519683
sec-Butylbenzene	U		0.125	1.00	1	08/04/2020 02:58	WG1519683
tert-Butylbenzene	U		0.127	1.00	1	08/04/2020 02:58	WG1519683
Carbon disulfide	U		0.0962	1.00	1	08/04/2020 02:58	WG1519683
Carbon tetrachloride	U		0.128	1.00	1	08/04/2020 02:58	WG1519683
Chlorobenzene	U		0.116	1.00	1	08/04/2020 02:58	WG1519683
Chlorodibromomethane	U		0.140	1.00	1	08/04/2020 02:58	WG1519683
Chloroethane	U		0.192	5.00	1	08/04/2020 02:58	WG1519683
Chloroform	U	J4	0.111	5.00	1	08/04/2020 02:58	WG1519683
Chloromethane	U		0.960	2.50	1	08/04/2020 02:58	WG1519683
2-Chlorotoluene	U		0.106	1.00	1	08/04/2020 02:58	WG1519683
4-Chlorotoluene	U		0.114	1.00	1	08/04/2020 02:58	WG1519683
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/04/2020 02:58	WG1519683
Dibromomethane	U		0.122	1.00	1	08/04/2020 02:58	WG1519683
1,2-Dichlorobenzene	U		0.107	1.00	1	08/04/2020 02:58	WG1519683
1,3-Dichlorobenzene	U		0.110	1.00	1	08/04/2020 02:58	WG1519683
1,4-Dichlorobenzene	U		0.120	1.00	1	08/04/2020 02:58	WG1519683
Dichlorodifluoromethane	U		0.374	5.00	1	08/04/2020 02:58	WG1519683
1,1-Dichloroethane	U		0.100	1.00	1	08/04/2020 02:58	WG1519683
1,2-Dichloroethane	U		0.0819	1.00	1	08/04/2020 02:58	WG1519683
1,1-Dichloroethene	U		0.188	1.00	1	08/04/2020 02:58	WG1519683
cis-1,2-Dichloroethene	U	J4	0.126	1.00	1	08/04/2020 02:58	WG1519683
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/04/2020 02:58	WG1519683
1,2-Dichloropropane	U		0.149	1.00	1	08/04/2020 02:58	WG1519683
1,1-Dichloropropene	U		0.142	1.00	1	08/04/2020 02:58	WG1519683
1,3-Dichloropropane	U		0.110	1.00	1	08/04/2020 02:58	WG1519683
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/04/2020 02:58	WG1519683
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/04/2020 02:58	WG1519683
2,2-Dichloropropane	U		0.161	1.00	1	08/04/2020 02:58	WG1519683
Di-isopropyl ether	U		0.105	1.00	1	08/04/2020 02:58	WG1519683
Ethylbenzene	U		0.137	1.00	1	08/04/2020 02:58	WG1519683
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/04/2020 02:58	WG1519683
Isopropylbenzene	U		0.105	1.00	1	08/04/2020 02:58	WG1519683
p-Isopropyltoluene	U		0.120	1.00	1	08/04/2020 02:58	WG1519683
2-Butanone (MEK)	U		1.19	10.0	1	08/04/2020 02:58	WG1519683
Methylene Chloride	U		0.430	5.00	1	08/04/2020 02:58	WG1519683
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/04/2020 02:58	WG1519683
Methyl tert-butyl ether	U		0.101	1.00	1	08/04/2020 02:58	WG1519683

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	U		1.00	5.00	1	08/04/2020 02:58	WG1519683
n-Propylbenzene	U	J0	0.0993	1.00	1	08/04/2020 02:58	WG1519683
Styrene	U		0.118	1.00	1	08/04/2020 02:58	WG1519683
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/04/2020 02:58	WG1519683
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/04/2020 02:58	WG1519683
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/04/2020 02:58	WG1519683
Tetrachloroethene	U		0.300	1.00	1	08/04/2020 02:58	WG1519683
Toluene	U		0.278	1.00	1	08/04/2020 02:58	WG1519683
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/04/2020 02:58	WG1519683
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/04/2020 02:58	WG1519683
1,1,1-Trichloroethane	U		0.149	1.00	1	08/04/2020 02:58	WG1519683
1,1,2-Trichloroethane	U		0.158	1.00	1	08/04/2020 02:58	WG1519683
Trichloroethene	U		0.190	1.00	1	08/04/2020 02:58	WG1519683
Trichlorofluoromethane	U		0.160	5.00	1	08/04/2020 02:58	WG1519683
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/04/2020 02:58	WG1519683
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/04/2020 02:58	WG1519683
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/04/2020 02:58	WG1519683
Vinyl chloride	U		0.234	1.00	1	08/04/2020 02:58	WG1519683
Xylenes, Total	U		0.174	3.00	1	08/04/2020 02:58	WG1519683
o-Xylene	U		0.174	1.00	1	08/04/2020 02:58	WG1519683
m&p-Xylene	U		0.430	2.00	1	08/04/2020 02:58	WG1519683
(S) Toluene-d8	*94.9*			*80.0-120*		*08/04/2020 02:58*	WG1519683
(S) 4-Bromofluorobenzene	*96.9*			*77.0-126*		*08/04/2020 02:58*	WG1519683
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*08/04/2020 02:58*	WG1519683

Sample Narrative:

L1245154-07 WG1518515: Cannot run lower due to NT.

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
AK102 DRO C10-C25	294	J	229	800	1	08/08/2020 16:25	WG1521695
(S) o-Terphenyl	*80.7*			*50.0-150*		*08/08/2020 16:25*	WG1521695

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	U		10.0	100	1	08/05/2020 18:44	WG1520844
(S) a,a,a-Trifluorotoluene(FID)	*102*			*50.0-150*		*08/05/2020 18:44*	WG1520844

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/03/2020 21:01	WG1518515
Acetone	U		11.3	50.0	1	08/04/2020 03:20	WG1519683
1,2-Dibromoethane	U		0.00410	0.00500	1	08/03/2020 21:01	WG1518515
Acrolein	U	J4	2.54	50.0	1	08/04/2020 03:20	WG1519683
Acrylonitrile	U		0.671	10.0	1	08/04/2020 03:20	WG1519683
Benzene	U		0.0941	1.00	1	08/04/2020 03:20	WG1519683
Bromobenzene	U		0.118	1.00	1	08/04/2020 03:20	WG1519683
Bromochloromethane	U	J4	0.128	1.00	1	08/04/2020 03:20	WG1519683
Bromodichloromethane	U	J4	0.136	1.00	1	08/04/2020 03:20	WG1519683
Bromoform	U		0.129	1.00	1	08/04/2020 03:20	WG1519683
Bromomethane	U		0.605	5.00	1	08/04/2020 03:20	WG1519683
n-Butylbenzene	U		0.157	1.00	1	08/04/2020 03:20	WG1519683
sec-Butylbenzene	U		0.125	1.00	1	08/04/2020 03:20	WG1519683
tert-Butylbenzene	U		0.127	1.00	1	08/04/2020 03:20	WG1519683
Carbon disulfide	U		0.0962	1.00	1	08/04/2020 03:20	WG1519683
Carbon tetrachloride	U		0.128	1.00	1	08/04/2020 03:20	WG1519683
Chlorobenzene	U		0.116	1.00	1	08/04/2020 03:20	WG1519683
Chlorodibromomethane	U		0.140	1.00	1	08/04/2020 03:20	WG1519683
Chloroethane	U		0.192	5.00	1	08/04/2020 03:20	WG1519683
Chloroform	U	J4	0.111	5.00	1	08/04/2020 03:20	WG1519683
Chloromethane	U		0.960	2.50	1	08/04/2020 03:20	WG1519683
2-Chlorotoluene	U		0.106	1.00	1	08/04/2020 03:20	WG1519683
4-Chlorotoluene	U		0.114	1.00	1	08/04/2020 03:20	WG1519683
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/04/2020 03:20	WG1519683
Dibromomethane	U		0.122	1.00	1	08/04/2020 03:20	WG1519683
1,2-Dichlorobenzene	U		0.107	1.00	1	08/04/2020 03:20	WG1519683
1,3-Dichlorobenzene	U		0.110	1.00	1	08/04/2020 03:20	WG1519683
1,4-Dichlorobenzene	U		0.120	1.00	1	08/04/2020 03:20	WG1519683
Dichlorodifluoromethane	U		0.374	5.00	1	08/04/2020 03:20	WG1519683
1,1-Dichloroethane	U		0.100	1.00	1	08/04/2020 03:20	WG1519683
1,2-Dichloroethane	U		0.0819	1.00	1	08/04/2020 03:20	WG1519683
1,1-Dichloroethene	U		0.188	1.00	1	08/04/2020 03:20	WG1519683
cis-1,2-Dichloroethene	U	J4	0.126	1.00	1	08/04/2020 03:20	WG1519683
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/04/2020 03:20	WG1519683
1,2-Dichloropropane	U		0.149	1.00	1	08/04/2020 03:20	WG1519683
1,1-Dichloropropene	U		0.142	1.00	1	08/04/2020 03:20	WG1519683
1,3-Dichloropropane	U		0.110	1.00	1	08/04/2020 03:20	WG1519683
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/04/2020 03:20	WG1519683
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/04/2020 03:20	WG1519683
2,2-Dichloropropane	U		0.161	1.00	1	08/04/2020 03:20	WG1519683
Di-isopropyl ether	U		0.105	1.00	1	08/04/2020 03:20	WG1519683
Ethylbenzene	U		0.137	1.00	1	08/04/2020 03:20	WG1519683
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/04/2020 03:20	WG1519683
Isopropylbenzene	U		0.105	1.00	1	08/04/2020 03:20	WG1519683
p-Isopropyltoluene	U		0.120	1.00	1	08/04/2020 03:20	WG1519683
2-Butanone (MEK)	U		1.19	10.0	1	08/04/2020 03:20	WG1519683
Methylene Chloride	U		0.430	5.00	1	08/04/2020 03:20	WG1519683
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/04/2020 03:20	WG1519683
Methyl tert-butyl ether	U		0.101	1.00	1	08/04/2020 03:20	WG1519683

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Naphthalene	U		1.00	5.00	1	08/04/2020 03:20	WG1519683
n-Propylbenzene	U	J0	0.0993	1.00	1	08/04/2020 03:20	WG1519683
Styrene	U		0.118	1.00	1	08/04/2020 03:20	WG1519683
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/04/2020 03:20	WG1519683
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/04/2020 03:20	WG1519683
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/04/2020 03:20	WG1519683
Tetrachloroethene	U		0.300	1.00	1	08/04/2020 03:20	WG1519683
Toluene	U		0.278	1.00	1	08/04/2020 03:20	WG1519683
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/04/2020 03:20	WG1519683
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/04/2020 03:20	WG1519683
1,1,1-Trichloroethane	U		0.149	1.00	1	08/04/2020 03:20	WG1519683
1,1,2-Trichloroethane	U		0.158	1.00	1	08/04/2020 03:20	WG1519683
Trichloroethene	U		0.190	1.00	1	08/04/2020 03:20	WG1519683
Trichlorofluoromethane	U		0.160	5.00	1	08/04/2020 03:20	WG1519683
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/04/2020 03:20	WG1519683
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/04/2020 03:20	WG1519683
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/04/2020 03:20	WG1519683
Vinyl chloride	U		0.234	1.00	1	08/04/2020 03:20	WG1519683
Xylenes, Total	U		0.174	3.00	1	08/04/2020 03:20	WG1519683
o-Xylene	U		0.174	1.00	1	08/04/2020 03:20	WG1519683
m&p-Xylene	U		0.430	2.00	1	08/04/2020 03:20	WG1519683
(S) Toluene-d8	*97.4*			*80.0-120*		*08/04/2020 03:20*	WG1519683
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*08/04/2020 03:20*	WG1519683
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*08/04/2020 03:20*	WG1519683

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		229	800	1	08/08/2020 16:45	WG1521695
(S) o-Terphenyl	*82.7*			*50.0-150*		*08/08/2020 16:45*	WG1521695

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	146		10.0	100	1	08/05/2020 19:08	WG1520844
(S) a,a,a-Trifluorotoluene(FID)	*114*			*50.0-150*		*08/05/2020 19:08*	WG1520844

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/03/2020 21:25	WG1518515
Acetone	U		11.3	50.0	1	08/04/2020 03:41	WG1519683
1,2-Dibromoethane	0.0240		0.00410	0.00500	1	08/03/2020 21:25	WG1518515
Acrolein	U	J4	2.54	50.0	1	08/04/2020 03:41	WG1519683
Acrylonitrile	U		0.671	10.0	1	08/04/2020 03:41	WG1519683
Benzene	5.27		0.0941	1.00	1	08/04/2020 03:41	WG1519683
Bromobenzene	U		0.118	1.00	1	08/04/2020 03:41	WG1519683
Bromochloromethane	U	J4	0.128	1.00	1	08/04/2020 03:41	WG1519683
Bromodichloromethane	U	J4	0.136	1.00	1	08/04/2020 03:41	WG1519683
Bromoform	U		0.129	1.00	1	08/04/2020 03:41	WG1519683
Bromomethane	U		0.605	5.00	1	08/04/2020 03:41	WG1519683
n-Butylbenzene	U		0.157	1.00	1	08/04/2020 03:41	WG1519683
sec-Butylbenzene	0.290	J	0.125	1.00	1	08/04/2020 03:41	WG1519683
tert-Butylbenzene	U		0.127	1.00	1	08/04/2020 03:41	WG1519683
Carbon disulfide	U		0.0962	1.00	1	08/04/2020 03:41	WG1519683
Carbon tetrachloride	U		0.128	1.00	1	08/04/2020 03:41	WG1519683
Chlorobenzene	U		0.116	1.00	1	08/04/2020 03:41	WG1519683
Chlorodibromomethane	U		0.140	1.00	1	08/04/2020 03:41	WG1519683
Chloroethane	U		0.192	5.00	1	08/04/2020 03:41	WG1519683
Chloroform	U	J4	0.111	5.00	1	08/04/2020 03:41	WG1519683
Chloromethane	U		0.960	2.50	1	08/04/2020 03:41	WG1519683
2-Chlorotoluene	U		0.106	1.00	1	08/04/2020 03:41	WG1519683
4-Chlorotoluene	U		0.114	1.00	1	08/04/2020 03:41	WG1519683
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/04/2020 03:41	WG1519683
Dibromomethane	U		0.122	1.00	1	08/04/2020 03:41	WG1519683
1,2-Dichlorobenzene	U		0.107	1.00	1	08/04/2020 03:41	WG1519683
1,3-Dichlorobenzene	U		0.110	1.00	1	08/04/2020 03:41	WG1519683
1,4-Dichlorobenzene	U		0.120	1.00	1	08/04/2020 03:41	WG1519683
Dichlorodifluoromethane	U		0.374	5.00	1	08/04/2020 03:41	WG1519683
1,1-Dichloroethane	U		0.100	1.00	1	08/04/2020 03:41	WG1519683
1,2-Dichloroethane	U		0.0819	1.00	1	08/04/2020 03:41	WG1519683
1,1-Dichloroethene	U		0.188	1.00	1	08/04/2020 03:41	WG1519683
cis-1,2-Dichloroethene	U	J4	0.126	1.00	1	08/04/2020 03:41	WG1519683
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/04/2020 03:41	WG1519683
1,2-Dichloropropane	U		0.149	1.00	1	08/04/2020 03:41	WG1519683
1,1-Dichloropropene	U		0.142	1.00	1	08/04/2020 03:41	WG1519683
1,3-Dichloropropane	U		0.110	1.00	1	08/04/2020 03:41	WG1519683
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/04/2020 03:41	WG1519683
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/04/2020 03:41	WG1519683
2,2-Dichloropropane	U		0.161	1.00	1	08/04/2020 03:41	WG1519683
Di-isopropyl ether	U		0.105	1.00	1	08/04/2020 03:41	WG1519683
Ethylbenzene	1.71		0.137	1.00	1	08/04/2020 03:41	WG1519683
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/04/2020 03:41	WG1519683
Isopropylbenzene	1.23		0.105	1.00	1	08/04/2020 03:41	WG1519683
p-Isopropyltoluene	0.176	J	0.120	1.00	1	08/04/2020 03:41	WG1519683
2-Butanone (MEK)	U		1.19	10.0	1	08/04/2020 03:41	WG1519683
Methylene Chloride	U		0.430	5.00	1	08/04/2020 03:41	WG1519683
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/04/2020 03:41	WG1519683
Methyl tert-butyl ether	U		0.101	1.00	1	08/04/2020 03:41	WG1519683

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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	1.18	J	1.00	5.00	1	08/04/2020 03:41	WG1519683
n-Propylbenzene	1.10	J0	0.0993	1.00	1	08/04/2020 03:41	WG1519683
Styrene	U		0.118	1.00	1	08/04/2020 03:41	WG1519683
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/04/2020 03:41	WG1519683
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/04/2020 03:41	WG1519683
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/04/2020 03:41	WG1519683
Tetrachloroethene	U		0.300	1.00	1	08/04/2020 03:41	WG1519683
Toluene	0.570	J	0.278	1.00	1	08/04/2020 03:41	WG1519683
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/04/2020 03:41	WG1519683
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/04/2020 03:41	WG1519683
1,1,1-Trichloroethane	U		0.149	1.00	1	08/04/2020 03:41	WG1519683
1,1,2-Trichloroethane	U		0.158	1.00	1	08/04/2020 03:41	WG1519683
Trichloroethene	U		0.190	1.00	1	08/04/2020 03:41	WG1519683
Trichlorofluoromethane	U		0.160	5.00	1	08/04/2020 03:41	WG1519683
1,2,4-Trimethylbenzene	25.0		0.322	1.00	1	08/04/2020 03:41	WG1519683
1,2,3-Trimethylbenzene	6.17		0.104	1.00	1	08/04/2020 03:41	WG1519683
1,3,5-Trimethylbenzene	0.753	J	0.104	1.00	1	08/04/2020 03:41	WG1519683
Vinyl chloride	U		0.234	1.00	1	08/04/2020 03:41	WG1519683
Xylenes, Total	16.1		0.174	3.00	1	08/04/2020 03:41	WG1519683
o-Xylene	0.712	J	0.174	1.00	1	08/04/2020 03:41	WG1519683
m&p-Xylene	15.4		0.430	2.00	1	08/04/2020 03:41	WG1519683
(S) Toluene-d8	*94.7*			*80.0-120*		*08/04/2020 03:41*	WG1519683
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*08/04/2020 03:41*	WG1519683
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*		*08/04/2020 03:41*	WG1519683

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
AK102 DRO C10-C25	405	J	229	800	1	08/08/2020 17:06	WG1521695
(S) o-Terphenyl	*82.4*			*50.0-150*		*08/08/2020 17:06*	WG1521695

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	U		10.0	100	1	08/05/2020 16:19	WG1520844
(S) a,a,a-Trifluorotoluene(FID)	*100*			*50.0-150*		*08/05/2020 16:19*	WG1520844

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/03/2020 17:06	WG1518515
Acetone	U		11.3	50.0	1	08/06/2020 02:12	WG1520779
1,2-Dibromoethane	U		0.00410	0.00500	1	08/03/2020 17:06	WG1518515
Acrolein	U	J4	2.54	50.0	1	08/06/2020 02:12	WG1520779
Acrylonitrile	U		0.671	10.0	1	08/06/2020 02:12	WG1520779
Benzene	U		0.0941	1.00	1	08/06/2020 02:12	WG1520779
Bromobenzene	U		0.118	1.00	1	08/06/2020 02:12	WG1520779
Bromochloromethane	U		0.128	1.00	1	08/06/2020 02:12	WG1520779
Bromodichloromethane	U		0.136	1.00	1	08/06/2020 02:12	WG1520779
Bromoform	U		0.129	1.00	1	08/06/2020 02:12	WG1520779
Bromomethane	U		0.605	5.00	1	08/06/2020 02:12	WG1520779
n-Butylbenzene	U		0.157	1.00	1	08/06/2020 02:12	WG1520779
sec-Butylbenzene	U		0.125	1.00	1	08/06/2020 02:12	WG1520779
tert-Butylbenzene	U		0.127	1.00	1	08/06/2020 02:12	WG1520779
Carbon disulfide	U		0.0962	1.00	1	08/06/2020 02:12	WG1520779
Carbon tetrachloride	U		0.128	1.00	1	08/06/2020 02:12	WG1520779
Chlorobenzene	U		0.116	1.00	1	08/06/2020 02:12	WG1520779
Chlorodibromomethane	U		0.140	1.00	1	08/06/2020 02:12	WG1520779
Chloroethane	U		0.192	5.00	1	08/06/2020 02:12	WG1520779
Chloroform	U		0.111	5.00	1	08/06/2020 02:12	WG1520779
Chloromethane	U		0.960	2.50	1	08/06/2020 02:12	WG1520779
2-Chlorotoluene	U		0.106	1.00	1	08/06/2020 02:12	WG1520779
4-Chlorotoluene	U		0.114	1.00	1	08/06/2020 02:12	WG1520779
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/06/2020 02:12	WG1520779
Dibromomethane	U		0.122	1.00	1	08/06/2020 02:12	WG1520779
1,2-Dichlorobenzene	U		0.107	1.00	1	08/06/2020 02:12	WG1520779
1,3-Dichlorobenzene	U		0.110	1.00	1	08/06/2020 02:12	WG1520779
1,4-Dichlorobenzene	U		0.120	1.00	1	08/06/2020 02:12	WG1520779
Dichlorodifluoromethane	U	J0	0.374	5.00	1	08/06/2020 02:12	WG1520779
1,1-Dichloroethane	U		0.100	1.00	1	08/06/2020 02:12	WG1520779
1,2-Dichloroethane	U		0.0819	1.00	1	08/06/2020 02:12	WG1520779
1,1-Dichloroethene	U		0.188	1.00	1	08/06/2020 02:12	WG1520779
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/06/2020 02:12	WG1520779
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/06/2020 02:12	WG1520779
1,2-Dichloropropane	U		0.149	1.00	1	08/06/2020 02:12	WG1520779
1,1-Dichloropropene	U		0.142	1.00	1	08/06/2020 02:12	WG1520779
1,3-Dichloropropane	U		0.110	1.00	1	08/06/2020 02:12	WG1520779
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/06/2020 02:12	WG1520779
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/06/2020 02:12	WG1520779
2,2-Dichloropropane	U		0.161	1.00	1	08/06/2020 02:12	WG1520779
Di-isopropyl ether	U		0.105	1.00	1	08/06/2020 02:12	WG1520779
Ethylbenzene	U		0.137	1.00	1	08/06/2020 02:12	WG1520779
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/06/2020 02:12	WG1520779
Isopropylbenzene	U		0.105	1.00	1	08/06/2020 02:12	WG1520779
p-Isopropyltoluene	U		0.120	1.00	1	08/06/2020 02:12	WG1520779
2-Butanone (MEK)	U		1.19	10.0	1	08/06/2020 02:12	WG1520779
Methylene Chloride	U		0.430	5.00	1	08/06/2020 02:12	WG1520779
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/06/2020 02:12	WG1520779
Methyl tert-butyl ether	U	J4	0.101	1.00	1	08/06/2020 02:12	WG1520779

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	U		1.00	5.00	1	08/06/2020 02:12	WG1520779
n-Propylbenzene	U		0.0993	1.00	1	08/06/2020 02:12	WG1520779
Styrene	U		0.118	1.00	1	08/06/2020 02:12	WG1520779
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/06/2020 02:12	WG1520779
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/06/2020 02:12	WG1520779
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/06/2020 02:12	WG1520779
Tetrachloroethene	U		0.300	1.00	1	08/06/2020 02:12	WG1520779
Toluene	U		0.278	1.00	1	08/06/2020 02:12	WG1520779
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/06/2020 02:12	WG1520779
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/06/2020 02:12	WG1520779
1,1,1-Trichloroethane	U		0.149	1.00	1	08/06/2020 02:12	WG1520779
1,1,2-Trichloroethane	U		0.158	1.00	1	08/06/2020 02:12	WG1520779
Trichloroethene	U		0.190	1.00	1	08/06/2020 02:12	WG1520779
Trichlorofluoromethane	U		0.160	5.00	1	08/06/2020 02:12	WG1520779
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/06/2020 02:12	WG1520779
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/06/2020 02:12	WG1520779
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/06/2020 02:12	WG1520779
Vinyl chloride	U		0.234	1.00	1	08/06/2020 02:12	WG1520779
Xylenes, Total	U		0.174	3.00	1	08/06/2020 02:12	WG1520779
o-Xylene	U		0.174	1.00	1	08/06/2020 02:12	WG1520779
m&p-Xylene	U		0.430	2.00	1	08/06/2020 02:12	WG1520779
(S) Toluene-d8	*101*			*80.0-120*		*08/06/2020 02:12*	WG1520779
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*08/06/2020 02:12*	WG1520779
(S) 1,2-Dichloroethane-d4	*98.3*			*70.0-130*		*08/06/2020 02:12*	WG1520779

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	U		10.0	100	1	08/05/2020 16:43	WG1520844
(S) a,a,a-Trifluorotoluene(FID)	*103*			*50.0-150*		*08/05/2020 16:43*	WG1520844

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/10/2020 10:34	WG1519651
Acetone	U		11.3	50.0	1	08/06/2020 02:33	WG1520779
1,2-Dibromoethane	U		0.00410	0.00500	1	08/10/2020 10:34	WG1519651
Acrolein	U	J4	2.54	50.0	1	08/06/2020 02:33	WG1520779
Acrylonitrile	U		0.671	10.0	1	08/06/2020 02:33	WG1520779
Benzene	U		0.0941	1.00	1	08/06/2020 02:33	WG1520779
Bromobenzene	U		0.118	1.00	1	08/06/2020 02:33	WG1520779
Bromochloromethane	U		0.128	1.00	1	08/06/2020 02:33	WG1520779
Bromodichloromethane	U		0.136	1.00	1	08/06/2020 02:33	WG1520779
Bromoform	U		0.129	1.00	1	08/06/2020 02:33	WG1520779
Bromomethane	U		0.605	5.00	1	08/06/2020 02:33	WG1520779
n-Butylbenzene	U		0.157	1.00	1	08/06/2020 02:33	WG1520779
sec-Butylbenzene	U		0.125	1.00	1	08/06/2020 02:33	WG1520779
tert-Butylbenzene	U		0.127	1.00	1	08/06/2020 02:33	WG1520779
Carbon disulfide	U		0.0962	1.00	1	08/06/2020 02:33	WG1520779
Carbon tetrachloride	U		0.128	1.00	1	08/06/2020 02:33	WG1520779
Chlorobenzene	U		0.116	1.00	1	08/06/2020 02:33	WG1520779
Chlorodibromomethane	U		0.140	1.00	1	08/06/2020 02:33	WG1520779
Chloroethane	U		0.192	5.00	1	08/06/2020 02:33	WG1520779
Chloroform	U		0.111	5.00	1	08/06/2020 02:33	WG1520779
Chloromethane	U		0.960	2.50	1	08/06/2020 02:33	WG1520779
2-Chlorotoluene	U		0.106	1.00	1	08/06/2020 02:33	WG1520779
4-Chlorotoluene	U		0.114	1.00	1	08/06/2020 02:33	WG1520779
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/06/2020 02:33	WG1520779
Dibromomethane	U		0.122	1.00	1	08/06/2020 02:33	WG1520779
1,2-Dichlorobenzene	U		0.107	1.00	1	08/06/2020 02:33	WG1520779
1,3-Dichlorobenzene	U		0.110	1.00	1	08/06/2020 02:33	WG1520779
1,4-Dichlorobenzene	U		0.120	1.00	1	08/06/2020 02:33	WG1520779
Dichlorodifluoromethane	U	J0	0.374	5.00	1	08/06/2020 02:33	WG1520779
1,1-Dichloroethane	U		0.100	1.00	1	08/06/2020 02:33	WG1520779
1,2-Dichloroethane	U		0.0819	1.00	1	08/06/2020 02:33	WG1520779
1,1-Dichloroethene	U		0.188	1.00	1	08/06/2020 02:33	WG1520779
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/06/2020 02:33	WG1520779
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/06/2020 02:33	WG1520779
1,2-Dichloropropane	U		0.149	1.00	1	08/06/2020 02:33	WG1520779
1,1-Dichloropropene	U		0.142	1.00	1	08/06/2020 02:33	WG1520779
1,3-Dichloropropane	U		0.110	1.00	1	08/06/2020 02:33	WG1520779
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/06/2020 02:33	WG1520779
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/06/2020 02:33	WG1520779
2,2-Dichloropropane	U		0.161	1.00	1	08/06/2020 02:33	WG1520779
Di-isopropyl ether	U		0.105	1.00	1	08/06/2020 02:33	WG1520779
Ethylbenzene	U		0.137	1.00	1	08/06/2020 02:33	WG1520779
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/06/2020 02:33	WG1520779
Isopropylbenzene	U		0.105	1.00	1	08/06/2020 02:33	WG1520779
p-Isopropyltoluene	U		0.120	1.00	1	08/06/2020 02:33	WG1520779
2-Butanone (MEK)	U		1.19	10.0	1	08/06/2020 02:33	WG1520779
Methylene Chloride	U		0.430	5.00	1	08/06/2020 02:33	WG1520779
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/06/2020 02:33	WG1520779
Methyl tert-butyl ether	U	J4	0.101	1.00	1	08/06/2020 02:33	WG1520779

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Naphthalene	U		1.00	5.00	1	08/06/2020 02:33	WG1520779
n-Propylbenzene	U		0.0993	1.00	1	08/06/2020 02:33	WG1520779
Styrene	U		0.118	1.00	1	08/06/2020 02:33	WG1520779
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/06/2020 02:33	WG1520779
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/06/2020 02:33	WG1520779
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/06/2020 02:33	WG1520779
Tetrachloroethene	U		0.300	1.00	1	08/06/2020 02:33	WG1520779
Toluene	U		0.278	1.00	1	08/06/2020 02:33	WG1520779
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/06/2020 02:33	WG1520779
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/06/2020 02:33	WG1520779
1,1,1-Trichloroethane	U		0.149	1.00	1	08/06/2020 02:33	WG1520779
1,1,2-Trichloroethane	U		0.158	1.00	1	08/06/2020 02:33	WG1520779
Trichloroethene	U		0.190	1.00	1	08/06/2020 02:33	WG1520779
Trichlorofluoromethane	U		0.160	5.00	1	08/06/2020 02:33	WG1520779
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/06/2020 02:33	WG1520779
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/06/2020 02:33	WG1520779
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/06/2020 02:33	WG1520779
Vinyl chloride	U		0.234	1.00	1	08/06/2020 02:33	WG1520779
Xylenes, Total	U		0.174	3.00	1	08/06/2020 02:33	WG1520779
o-Xylene	U		0.174	1.00	1	08/06/2020 02:33	WG1520779
m&p-Xylene	U		0.430	2.00	1	08/06/2020 02:33	WG1520779
(S) Toluene-d8	*100*			*80.0-120*		*08/06/2020 02:33*	WG1520779
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*08/06/2020 02:33*	WG1520779
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*08/06/2020 02:33*	WG1520779

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		229	800	1	08/08/2020 00:15	WG1521694
(S) o-Terphenyl	*85.6*			*50.0-150*		*08/08/2020 00:15*	WG1521694

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	U		10.0	100	1	08/05/2020 19:32	WG1520844
(S) a,a,a-Trifluorotoluene(FID)	*101*			*50.0-150*		*08/05/2020 19:32*	WG1520844

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/10/2020 10:58	WG1519651
Acetone	U		11.3	50.0	1	08/06/2020 03:16	WG1520779
1,2-Dibromoethane	U		0.00410	0.00500	1	08/10/2020 10:58	WG1519651
Acrolein	U	J4	2.54	50.0	1	08/06/2020 03:16	WG1520779
Acrylonitrile	U		0.671	10.0	1	08/06/2020 03:16	WG1520779
Benzene	U		0.0941	1.00	1	08/06/2020 03:16	WG1520779
Bromobenzene	U		0.118	1.00	1	08/06/2020 03:16	WG1520779
Bromochloromethane	U		0.128	1.00	1	08/06/2020 03:16	WG1520779
Bromodichloromethane	U		0.136	1.00	1	08/06/2020 03:16	WG1520779
Bromoform	U		0.129	1.00	1	08/06/2020 03:16	WG1520779
Bromomethane	U		0.605	5.00	1	08/06/2020 03:16	WG1520779
n-Butylbenzene	U		0.157	1.00	1	08/06/2020 03:16	WG1520779
sec-Butylbenzene	U		0.125	1.00	1	08/06/2020 03:16	WG1520779
tert-Butylbenzene	U		0.127	1.00	1	08/06/2020 03:16	WG1520779
Carbon disulfide	U		0.0962	1.00	1	08/06/2020 03:16	WG1520779
Carbon tetrachloride	U		0.128	1.00	1	08/06/2020 03:16	WG1520779
Chlorobenzene	U		0.116	1.00	1	08/06/2020 03:16	WG1520779
Chlorodibromomethane	U		0.140	1.00	1	08/06/2020 03:16	WG1520779
Chloroethane	U		0.192	5.00	1	08/06/2020 03:16	WG1520779
Chloroform	U		0.111	5.00	1	08/06/2020 03:16	WG1520779
Chloromethane	U		0.960	2.50	1	08/06/2020 03:16	WG1520779
2-Chlorotoluene	U		0.106	1.00	1	08/06/2020 03:16	WG1520779
4-Chlorotoluene	U		0.114	1.00	1	08/06/2020 03:16	WG1520779
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/06/2020 03:16	WG1520779
Dibromomethane	U		0.122	1.00	1	08/06/2020 03:16	WG1520779
1,2-Dichlorobenzene	U		0.107	1.00	1	08/06/2020 03:16	WG1520779
1,3-Dichlorobenzene	U		0.110	1.00	1	08/06/2020 03:16	WG1520779
1,4-Dichlorobenzene	U		0.120	1.00	1	08/06/2020 03:16	WG1520779
Dichlorodifluoromethane	U	J0	0.374	5.00	1	08/06/2020 03:16	WG1520779
1,1-Dichloroethane	U		0.100	1.00	1	08/06/2020 03:16	WG1520779
1,2-Dichloroethane	U		0.0819	1.00	1	08/06/2020 03:16	WG1520779
1,1-Dichloroethene	U		0.188	1.00	1	08/06/2020 03:16	WG1520779
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/06/2020 03:16	WG1520779
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/06/2020 03:16	WG1520779
1,2-Dichloropropane	U		0.149	1.00	1	08/06/2020 03:16	WG1520779
1,1-Dichloropropene	U		0.142	1.00	1	08/06/2020 03:16	WG1520779
1,3-Dichloropropane	U		0.110	1.00	1	08/06/2020 03:16	WG1520779
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/06/2020 03:16	WG1520779
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/06/2020 03:16	WG1520779
2,2-Dichloropropane	U		0.161	1.00	1	08/06/2020 03:16	WG1520779
Di-isopropyl ether	U		0.105	1.00	1	08/06/2020 03:16	WG1520779
Ethylbenzene	U		0.137	1.00	1	08/06/2020 03:16	WG1520779
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/06/2020 03:16	WG1520779
Isopropylbenzene	U		0.105	1.00	1	08/06/2020 03:16	WG1520779
p-Isopropyltoluene	U		0.120	1.00	1	08/06/2020 03:16	WG1520779
2-Butanone (MEK)	U		1.19	10.0	1	08/06/2020 03:16	WG1520779
Methylene Chloride	U		0.430	5.00	1	08/06/2020 03:16	WG1520779
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/06/2020 03:16	WG1520779
Methyl tert-butyl ether	U	J4	0.101	1.00	1	08/06/2020 03:16	WG1520779

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	U		1.00	5.00	1	08/06/2020 03:16	WG1520779
n-Propylbenzene	U		0.0993	1.00	1	08/06/2020 03:16	WG1520779
Styrene	U		0.118	1.00	1	08/06/2020 03:16	WG1520779
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/06/2020 03:16	WG1520779
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/06/2020 03:16	WG1520779
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/06/2020 03:16	WG1520779
Tetrachloroethene	U		0.300	1.00	1	08/06/2020 03:16	WG1520779
Toluene	U		0.278	1.00	1	08/06/2020 03:16	WG1520779
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/06/2020 03:16	WG1520779
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/06/2020 03:16	WG1520779
1,1,1-Trichloroethane	U		0.149	1.00	1	08/06/2020 03:16	WG1520779
1,1,2-Trichloroethane	U		0.158	1.00	1	08/06/2020 03:16	WG1520779
Trichloroethene	U		0.190	1.00	1	08/06/2020 03:16	WG1520779
Trichlorofluoromethane	U		0.160	5.00	1	08/06/2020 03:16	WG1520779
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/06/2020 03:16	WG1520779
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/06/2020 03:16	WG1520779
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/06/2020 03:16	WG1520779
Vinyl chloride	U		0.234	1.00	1	08/06/2020 03:16	WG1520779
Xylenes, Total	U		0.174	3.00	1	08/06/2020 03:16	WG1520779
o-Xylene	U		0.174	1.00	1	08/06/2020 03:16	WG1520779
m&p-Xylene	U		0.430	2.00	1	08/06/2020 03:16	WG1520779
(S) Toluene-d8	*97.1*			*80.0-120*		*08/06/2020 03:16*	WG1520779
(S) 4-Bromofluorobenzene	*98.4*			*77.0-126*		*08/06/2020 03:16*	WG1520779
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*08/06/2020 03:16*	WG1520779

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
AK102 DRO C10-C25	253	J	229	800	1	08/08/2020 00:36	WG1521694
(S) o-Terphenyl	*85.7*			*50.0-150*		*08/08/2020 00:36*	WG1521694

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	526		10.0	100	1	08/05/2020 19:56	WG1520844
(S) a,a,a-Trifluorotoluene(FID)	*119*			*50.0-150*		*08/05/2020 19:56*	WG1520844

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	4.45		0.100	0.250	50	08/10/2020 13:20	WG1519651
Acetone	U		11.3	50.0	1	08/06/2020 03:37	WG1520779
1,2-Dibromoethane	3.20		0.205	0.250	50	08/10/2020 13:20	WG1519651
Acrolein	U	J4	2.54	50.0	1	08/06/2020 03:37	WG1520779
Acrylonitrile	U		0.671	10.0	1	08/06/2020 03:37	WG1520779
Benzene	32.1		0.0941	1.00	1	08/06/2020 03:37	WG1520779
Bromobenzene	U		0.118	1.00	1	08/06/2020 03:37	WG1520779
Bromochloromethane	U		0.128	1.00	1	08/06/2020 03:37	WG1520779
Bromodichloromethane	U		0.136	1.00	1	08/06/2020 03:37	WG1520779
Bromoform	U		0.129	1.00	1	08/06/2020 03:37	WG1520779
Bromomethane	U		0.605	5.00	1	08/06/2020 03:37	WG1520779
n-Butylbenzene	1.23		0.157	1.00	1	08/06/2020 03:37	WG1520779
sec-Butylbenzene	2.66		0.125	1.00	1	08/06/2020 03:37	WG1520779
tert-Butylbenzene	0.388	J	0.127	1.00	1	08/06/2020 03:37	WG1520779
Carbon disulfide	U		0.0962	1.00	1	08/06/2020 03:37	WG1520779
Carbon tetrachloride	U		0.128	1.00	1	08/06/2020 03:37	WG1520779
Chlorobenzene	U		0.116	1.00	1	08/06/2020 03:37	WG1520779
Chlorodibromomethane	U		0.140	1.00	1	08/06/2020 03:37	WG1520779
Chloroethane	U		0.192	5.00	1	08/06/2020 03:37	WG1520779
Chloroform	U		0.111	5.00	1	08/06/2020 03:37	WG1520779
Chloromethane	U		0.960	2.50	1	08/06/2020 03:37	WG1520779
2-Chlorotoluene	U		0.106	1.00	1	08/06/2020 03:37	WG1520779
4-Chlorotoluene	U		0.114	1.00	1	08/06/2020 03:37	WG1520779
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/06/2020 03:37	WG1520779
Dibromomethane	U		0.122	1.00	1	08/06/2020 03:37	WG1520779
1,2-Dichlorobenzene	U		0.107	1.00	1	08/06/2020 03:37	WG1520779
1,3-Dichlorobenzene	U		0.110	1.00	1	08/06/2020 03:37	WG1520779
1,4-Dichlorobenzene	U		0.120	1.00	1	08/06/2020 03:37	WG1520779
Dichlorodifluoromethane	1.47	J J0	0.374	5.00	1	08/06/2020 03:37	WG1520779
1,1-Dichloroethane	U		0.100	1.00	1	08/06/2020 03:37	WG1520779
1,2-Dichloroethane	U		0.0819	1.00	1	08/06/2020 03:37	WG1520779
1,1-Dichloroethene	U		0.188	1.00	1	08/06/2020 03:37	WG1520779
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/06/2020 03:37	WG1520779
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/06/2020 03:37	WG1520779
1,2-Dichloropropane	U		0.149	1.00	1	08/06/2020 03:37	WG1520779
1,1-Dichloropropene	U		0.142	1.00	1	08/06/2020 03:37	WG1520779
1,3-Dichloropropane	U		0.110	1.00	1	08/06/2020 03:37	WG1520779
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/06/2020 03:37	WG1520779
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/06/2020 03:37	WG1520779
2,2-Dichloropropane	U		0.161	1.00	1	08/06/2020 03:37	WG1520779
Di-isopropyl ether	U		0.105	1.00	1	08/06/2020 03:37	WG1520779
Ethylbenzene	15.9		0.137	1.00	1	08/06/2020 03:37	WG1520779
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/06/2020 03:37	WG1520779
Isopropylbenzene	7.32		0.105	1.00	1	08/06/2020 03:37	WG1520779
p-Isopropyltoluene	0.500	J	0.120	1.00	1	08/06/2020 03:37	WG1520779
2-Butanone (MEK)	U		1.19	10.0	1	08/06/2020 03:37	WG1520779
Methylene Chloride	U		0.430	5.00	1	08/06/2020 03:37	WG1520779
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/06/2020 03:37	WG1520779
Methyl tert-butyl ether	U	J4	0.101	1.00	1	08/06/2020 03:37	WG1520779

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

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	U		1.00	5.00	1	08/06/2020 03:37	WG1520779
n-Propylbenzene	13.3		0.0993	1.00	1	08/06/2020 03:37	WG1520779
Styrene	U		0.118	1.00	1	08/06/2020 03:37	WG1520779
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/06/2020 03:37	WG1520779
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/06/2020 03:37	WG1520779
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/06/2020 03:37	WG1520779
Tetrachloroethene	U		0.300	1.00	1	08/06/2020 03:37	WG1520779
Toluene	1.22		0.278	1.00	1	08/06/2020 03:37	WG1520779
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/06/2020 03:37	WG1520779
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/06/2020 03:37	WG1520779
1,1,1-Trichloroethane	U		0.149	1.00	1	08/06/2020 03:37	WG1520779
1,1,2-Trichloroethane	U		0.158	1.00	1	08/06/2020 03:37	WG1520779
Trichloroethene	U		0.190	1.00	1	08/06/2020 03:37	WG1520779
Trichlorofluoromethane	U		0.160	5.00	1	08/06/2020 03:37	WG1520779
1,2,4-Trimethylbenzene	36.8		0.322	1.00	1	08/06/2020 03:37	WG1520779
1,2,3-Trimethylbenzene	5.87		0.104	1.00	1	08/06/2020 03:37	WG1520779
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/06/2020 03:37	WG1520779
Vinyl chloride	U		0.234	1.00	1	08/06/2020 03:37	WG1520779
Xylenes, Total	35.8		0.174	3.00	1	08/06/2020 03:37	WG1520779
o-Xylene	1.13		0.174	1.00	1	08/06/2020 03:37	WG1520779
m&p-Xylene	34.7		0.430	2.00	1	08/06/2020 03:37	WG1520779
(S) Toluene-d8	*99.1*			*80.0-120*		*08/06/2020 03:37*	WG1520779
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*08/06/2020 03:37*	WG1520779
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*08/06/2020 03:37*	WG1520779

Sample Narrative:

L1245154-13 WG1519651: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
AK102 DRO C10-C25	399	J	229	800	1	08/08/2020 00:56	WG1521694
(S) o-Terphenyl	*84.6*			*50.0-150*		*08/08/2020 00:56*	WG1521694

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	U		10.0	100	1	08/05/2020 20:20	WG1520844
(S) a,a,a-Trifluorotoluene(FID)	*101*			*50.0-150*		*08/05/2020 20:20*	WG1520844

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/10/2020 11:22	WG1519651
Acetone	U		11.3	50.0	1	08/06/2020 03:59	WG1520779
1,2-Dibromoethane	U		0.00410	0.00500	1	08/10/2020 11:22	WG1519651
Acrolein	U	J4	2.54	50.0	1	08/06/2020 03:59	WG1520779
Acrylonitrile	U		0.671	10.0	1	08/06/2020 03:59	WG1520779
Benzene	0.179	J	0.0941	1.00	1	08/06/2020 03:59	WG1520779
Bromobenzene	U		0.118	1.00	1	08/06/2020 03:59	WG1520779
Bromochloromethane	U		0.128	1.00	1	08/06/2020 03:59	WG1520779
Bromodichloromethane	U		0.136	1.00	1	08/06/2020 03:59	WG1520779
Bromoform	U		0.129	1.00	1	08/06/2020 03:59	WG1520779
Bromomethane	U		0.605	5.00	1	08/06/2020 03:59	WG1520779
n-Butylbenzene	U		0.157	1.00	1	08/06/2020 03:59	WG1520779
sec-Butylbenzene	U		0.125	1.00	1	08/06/2020 03:59	WG1520779
tert-Butylbenzene	U		0.127	1.00	1	08/06/2020 03:59	WG1520779
Carbon disulfide	U		0.0962	1.00	1	08/06/2020 03:59	WG1520779
Carbon tetrachloride	U		0.128	1.00	1	08/06/2020 03:59	WG1520779
Chlorobenzene	U		0.116	1.00	1	08/06/2020 03:59	WG1520779
Chlorodibromomethane	U		0.140	1.00	1	08/06/2020 03:59	WG1520779
Chloroethane	U		0.192	5.00	1	08/06/2020 03:59	WG1520779
Chloroform	U		0.111	5.00	1	08/06/2020 03:59	WG1520779
Chloromethane	U		0.960	2.50	1	08/06/2020 03:59	WG1520779
2-Chlorotoluene	U		0.106	1.00	1	08/06/2020 03:59	WG1520779
4-Chlorotoluene	U		0.114	1.00	1	08/06/2020 03:59	WG1520779
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/06/2020 03:59	WG1520779
Dibromomethane	U		0.122	1.00	1	08/06/2020 03:59	WG1520779
1,2-Dichlorobenzene	U		0.107	1.00	1	08/06/2020 03:59	WG1520779
1,3-Dichlorobenzene	U		0.110	1.00	1	08/06/2020 03:59	WG1520779
1,4-Dichlorobenzene	U		0.120	1.00	1	08/06/2020 03:59	WG1520779
Dichlorodifluoromethane	U	J0	0.374	5.00	1	08/06/2020 03:59	WG1520779
1,1-Dichloroethane	U		0.100	1.00	1	08/06/2020 03:59	WG1520779
1,2-Dichloroethane	U		0.0819	1.00	1	08/06/2020 03:59	WG1520779
1,1-Dichloroethene	U		0.188	1.00	1	08/06/2020 03:59	WG1520779
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/06/2020 03:59	WG1520779
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/06/2020 03:59	WG1520779
1,2-Dichloropropane	U		0.149	1.00	1	08/06/2020 03:59	WG1520779
1,1-Dichloropropene	U		0.142	1.00	1	08/06/2020 03:59	WG1520779
1,3-Dichloropropane	U		0.110	1.00	1	08/06/2020 03:59	WG1520779
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/06/2020 03:59	WG1520779
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/06/2020 03:59	WG1520779
2,2-Dichloropropane	U		0.161	1.00	1	08/06/2020 03:59	WG1520779
Di-isopropyl ether	U		0.105	1.00	1	08/06/2020 03:59	WG1520779
Ethylbenzene	U		0.137	1.00	1	08/06/2020 03:59	WG1520779
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/06/2020 03:59	WG1520779
Isopropylbenzene	U		0.105	1.00	1	08/06/2020 03:59	WG1520779
p-Isopropyltoluene	U		0.120	1.00	1	08/06/2020 03:59	WG1520779
2-Butanone (MEK)	U		1.19	10.0	1	08/06/2020 03:59	WG1520779
Methylene Chloride	U		0.430	5.00	1	08/06/2020 03:59	WG1520779
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/06/2020 03:59	WG1520779
Methyl tert-butyl ether	0.110	J	0.101	1.00	1	08/07/2020 03:04	WG1521682

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	U		1.00	5.00	1	08/06/2020 03:59	WG1520779
n-Propylbenzene	U		0.0993	1.00	1	08/06/2020 03:59	WG1520779
Styrene	U		0.118	1.00	1	08/06/2020 03:59	WG1520779
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/06/2020 03:59	WG1520779
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/06/2020 03:59	WG1520779
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/06/2020 03:59	WG1520779
Tetrachloroethene	U		0.300	1.00	1	08/06/2020 03:59	WG1520779
Toluene	U		0.278	1.00	1	08/06/2020 03:59	WG1520779
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/06/2020 03:59	WG1520779
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/06/2020 03:59	WG1520779
1,1,1-Trichloroethane	U		0.149	1.00	1	08/06/2020 03:59	WG1520779
1,1,2-Trichloroethane	U		0.158	1.00	1	08/06/2020 03:59	WG1520779
Trichloroethene	U		0.190	1.00	1	08/06/2020 03:59	WG1520779
Trichlorofluoromethane	U		0.160	5.00	1	08/06/2020 03:59	WG1520779
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/06/2020 03:59	WG1520779
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/06/2020 03:59	WG1520779
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/06/2020 03:59	WG1520779
Vinyl chloride	U		0.234	1.00	1	08/06/2020 03:59	WG1520779
Xylenes, Total	U		0.174	3.00	1	08/06/2020 03:59	WG1520779
o-Xylene	U		0.174	1.00	1	08/06/2020 03:59	WG1520779
m&p-Xylene	U		0.430	2.00	1	08/06/2020 03:59	WG1520779
(S) Toluene-d8	*98.1*			*80.0-120*		*08/06/2020 03:59*	WG1520779
(S) Toluene-d8	*106*			*80.0-120*		*08/07/2020 03:04*	WG1521682
(S) 4-Bromofluorobenzene	*95.8*			*77.0-126*		*08/06/2020 03:59*	WG1520779
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*08/07/2020 03:04*	WG1521682
(S) 1,2-Dichloroethane-d4	*96.9*			*70.0-130*		*08/06/2020 03:59*	WG1520779
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*08/07/2020 03:04*	WG1521682

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
AK102 DRO C10-C25	2300		229	800	1	08/08/2020 01:16	WG1521694
(S) o-Terphenyl	*81.6*			*50.0-150*		*08/08/2020 01:16*	WG1521694

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	91.8	J	10.0	100	1	08/05/2020 20:44	WG1520844
(S) a,a,a-Trifluorotoluene(FID)	*105*			*50.0-150*		*08/05/2020 20:44*	WG1520844

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	U		0.0200	0.0500	10	08/10/2020 13:43	WG1519651
Acetone	U		11.3	50.0	1	08/06/2020 04:20	WG1520779
1,2-Dibromoethane	U		0.0410	0.0500	10	08/10/2020 13:43	WG1519651
Acrolein	U	J4	2.54	50.0	1	08/06/2020 04:20	WG1520779
Acrylonitrile	U		0.671	10.0	1	08/06/2020 04:20	WG1520779
Benzene	9.84		0.0941	1.00	1	08/06/2020 04:20	WG1520779
Bromobenzene	U		0.118	1.00	1	08/06/2020 04:20	WG1520779
Bromochloromethane	U		0.128	1.00	1	08/06/2020 04:20	WG1520779
Bromodichloromethane	U		0.136	1.00	1	08/06/2020 04:20	WG1520779
Bromoform	U		0.129	1.00	1	08/06/2020 04:20	WG1520779
Bromomethane	U		0.605	5.00	1	08/06/2020 04:20	WG1520779
n-Butylbenzene	U		0.157	1.00	1	08/06/2020 04:20	WG1520779
sec-Butylbenzene	0.217	J	0.125	1.00	1	08/06/2020 04:20	WG1520779
tert-Butylbenzene	U		0.127	1.00	1	08/06/2020 04:20	WG1520779
Carbon disulfide	U		0.0962	1.00	1	08/06/2020 04:20	WG1520779
Carbon tetrachloride	U		0.128	1.00	1	08/06/2020 04:20	WG1520779
Chlorobenzene	U		0.116	1.00	1	08/06/2020 04:20	WG1520779
Chlorodibromomethane	U		0.140	1.00	1	08/06/2020 04:20	WG1520779
Chloroethane	U		0.192	5.00	1	08/06/2020 04:20	WG1520779
Chloroform	U		0.111	5.00	1	08/06/2020 04:20	WG1520779
Chloromethane	U		0.960	2.50	1	08/06/2020 04:20	WG1520779
2-Chlorotoluene	U		0.106	1.00	1	08/06/2020 04:20	WG1520779
4-Chlorotoluene	U		0.114	1.00	1	08/06/2020 04:20	WG1520779
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/06/2020 04:20	WG1520779
Dibromomethane	U		0.122	1.00	1	08/06/2020 04:20	WG1520779
1,2-Dichlorobenzene	U		0.107	1.00	1	08/06/2020 04:20	WG1520779
1,3-Dichlorobenzene	U		0.110	1.00	1	08/06/2020 04:20	WG1520779
1,4-Dichlorobenzene	U		0.120	1.00	1	08/06/2020 04:20	WG1520779
Dichlorodifluoromethane	0.959	J J0	0.374	5.00	1	08/06/2020 04:20	WG1520779
1,1-Dichloroethane	U		0.100	1.00	1	08/06/2020 04:20	WG1520779
1,2-Dichloroethane	U		0.0819	1.00	1	08/06/2020 04:20	WG1520779
1,1-Dichloroethene	U		0.188	1.00	1	08/06/2020 04:20	WG1520779
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/06/2020 04:20	WG1520779
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/06/2020 04:20	WG1520779
1,2-Dichloropropane	U		0.149	1.00	1	08/06/2020 04:20	WG1520779
1,1-Dichloropropene	U		0.142	1.00	1	08/06/2020 04:20	WG1520779
1,3-Dichloropropane	U		0.110	1.00	1	08/06/2020 04:20	WG1520779
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/06/2020 04:20	WG1520779
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/06/2020 04:20	WG1520779
2,2-Dichloropropane	U		0.161	1.00	1	08/06/2020 04:20	WG1520779
Di-isopropyl ether	U		0.105	1.00	1	08/06/2020 04:20	WG1520779
Ethylbenzene	U		0.137	1.00	1	08/06/2020 04:20	WG1520779
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/06/2020 04:20	WG1520779
Isopropylbenzene	1.11		0.105	1.00	1	08/06/2020 04:20	WG1520779
p-Isopropyltoluene	U		0.120	1.00	1	08/06/2020 04:20	WG1520779
2-Butanone (MEK)	U		1.19	10.0	1	08/06/2020 04:20	WG1520779
Methylene Chloride	U		0.430	5.00	1	08/06/2020 04:20	WG1520779
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/06/2020 04:20	WG1520779
Methyl tert-butyl ether	U	J4	0.101	1.00	1	08/06/2020 04:20	WG1520779

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Naphthalene	U		1.00	5.00	1	08/06/2020 04:20	WG1520779
n-Propylbenzene	0.635	J	0.0993	1.00	1	08/06/2020 04:20	WG1520779
Styrene	U		0.118	1.00	1	08/06/2020 04:20	WG1520779
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/06/2020 04:20	WG1520779
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/06/2020 04:20	WG1520779
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/06/2020 04:20	WG1520779
Tetrachloroethene	U		0.300	1.00	1	08/06/2020 04:20	WG1520779
Toluene	0.655	J	0.278	1.00	1	08/06/2020 04:20	WG1520779
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/06/2020 04:20	WG1520779
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/06/2020 04:20	WG1520779
1,1,1-Trichloroethane	U		0.149	1.00	1	08/06/2020 04:20	WG1520779
1,1,2-Trichloroethane	U		0.158	1.00	1	08/06/2020 04:20	WG1520779
Trichloroethene	U		0.190	1.00	1	08/06/2020 04:20	WG1520779
Trichlorofluoromethane	U		0.160	5.00	1	08/06/2020 04:20	WG1520779
1,2,4-Trimethylbenzene	6.04		0.322	1.00	1	08/06/2020 04:20	WG1520779
1,2,3-Trimethylbenzene	2.59		0.104	1.00	1	08/06/2020 04:20	WG1520779
1,3,5-Trimethylbenzene	0.345	J	0.104	1.00	1	08/06/2020 04:20	WG1520779
Vinyl chloride	U		0.234	1.00	1	08/06/2020 04:20	WG1520779
Xylenes, Total	10.6		0.174	3.00	1	08/06/2020 04:20	WG1520779
o-Xylene	0.907	J	0.174	1.00	1	08/06/2020 04:20	WG1520779
m&p-Xylene	9.67		0.430	2.00	1	08/06/2020 04:20	WG1520779
(S) Toluene-d8	*99.7*			*80.0-120*		*08/06/2020 04:20*	WG1520779
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*08/06/2020 04:20*	WG1520779
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*08/06/2020 04:20*	WG1520779

Sample Narrative:

L1245154-15 WG1519651: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		229	800	1	08/08/2020 23:53	WG1521694
(S) o-Terphenyl	*73.0*			*50.0-150*		*08/08/2020 23:53*	WG1521694

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	U		10.0	100	1	08/05/2020 21:08	WG1520844
(S) a,a,a-Trifluorotoluene(FID)	*101*			*50.0-150*		*08/05/2020 21:08*	WG1520844

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	U		0.00200	0.00500	1	08/10/2020 11:45	WG1519651
Acetone	U		11.3	50.0	1	08/06/2020 04:42	WG1520779
1,2-Dibromoethane	U		0.00410	0.00500	1	08/10/2020 11:45	WG1519651
Acrolein	U	J4	2.54	50.0	1	08/06/2020 04:42	WG1520779
Acrylonitrile	U		0.671	10.0	1	08/06/2020 04:42	WG1520779
Benzene	U		0.0941	1.00	1	08/06/2020 04:42	WG1520779
Bromobenzene	U		0.118	1.00	1	08/06/2020 04:42	WG1520779
Bromochloromethane	U		0.128	1.00	1	08/06/2020 04:42	WG1520779
Bromodichloromethane	U		0.136	1.00	1	08/06/2020 04:42	WG1520779
Bromoform	U		0.129	1.00	1	08/06/2020 04:42	WG1520779
Bromomethane	U		0.605	5.00	1	08/06/2020 04:42	WG1520779
n-Butylbenzene	U		0.157	1.00	1	08/06/2020 04:42	WG1520779
sec-Butylbenzene	U		0.125	1.00	1	08/06/2020 04:42	WG1520779
tert-Butylbenzene	U		0.127	1.00	1	08/06/2020 04:42	WG1520779
Carbon disulfide	U		0.0962	1.00	1	08/06/2020 04:42	WG1520779
Carbon tetrachloride	U		0.128	1.00	1	08/06/2020 04:42	WG1520779
Chlorobenzene	U		0.116	1.00	1	08/06/2020 04:42	WG1520779
Chlorodibromomethane	U		0.140	1.00	1	08/06/2020 04:42	WG1520779
Chloroethane	U		0.192	5.00	1	08/06/2020 04:42	WG1520779
Chloroform	U		0.111	5.00	1	08/06/2020 04:42	WG1520779
Chloromethane	U		0.960	2.50	1	08/06/2020 04:42	WG1520779
2-Chlorotoluene	U		0.106	1.00	1	08/06/2020 04:42	WG1520779
4-Chlorotoluene	U		0.114	1.00	1	08/06/2020 04:42	WG1520779
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/06/2020 04:42	WG1520779
Dibromomethane	U		0.122	1.00	1	08/06/2020 04:42	WG1520779
1,2-Dichlorobenzene	U		0.107	1.00	1	08/06/2020 04:42	WG1520779
1,3-Dichlorobenzene	U		0.110	1.00	1	08/06/2020 04:42	WG1520779
1,4-Dichlorobenzene	U		0.120	1.00	1	08/06/2020 04:42	WG1520779
Dichlorodifluoromethane	U	J0	0.374	5.00	1	08/06/2020 04:42	WG1520779
1,1-Dichloroethane	U		0.100	1.00	1	08/06/2020 04:42	WG1520779
1,2-Dichloroethane	U		0.0819	1.00	1	08/06/2020 04:42	WG1520779
1,1-Dichloroethene	U		0.188	1.00	1	08/06/2020 04:42	WG1520779
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/06/2020 04:42	WG1520779
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/06/2020 04:42	WG1520779
1,2-Dichloropropane	U		0.149	1.00	1	08/06/2020 04:42	WG1520779
1,1-Dichloropropene	U		0.142	1.00	1	08/06/2020 04:42	WG1520779
1,3-Dichloropropane	U		0.110	1.00	1	08/06/2020 04:42	WG1520779
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/06/2020 04:42	WG1520779
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/06/2020 04:42	WG1520779
2,2-Dichloropropane	U		0.161	1.00	1	08/06/2020 04:42	WG1520779
Di-isopropyl ether	U		0.105	1.00	1	08/06/2020 04:42	WG1520779
Ethylbenzene	U		0.137	1.00	1	08/06/2020 04:42	WG1520779
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/06/2020 04:42	WG1520779
Isopropylbenzene	U		0.105	1.00	1	08/06/2020 04:42	WG1520779
p-Isopropyltoluene	U		0.120	1.00	1	08/06/2020 04:42	WG1520779
2-Butanone (MEK)	U		1.19	10.0	1	08/06/2020 04:42	WG1520779
Methylene Chloride	U		0.430	5.00	1	08/06/2020 04:42	WG1520779
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/06/2020 04:42	WG1520779
Methyl tert-butyl ether	U	J4	0.101	1.00	1	08/06/2020 04:42	WG1520779

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Naphthalene	U		1.00	5.00	1	08/06/2020 04:42	WG1520779
n-Propylbenzene	U		0.0993	1.00	1	08/06/2020 04:42	WG1520779
Styrene	U		0.118	1.00	1	08/06/2020 04:42	WG1520779
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/06/2020 04:42	WG1520779
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/06/2020 04:42	WG1520779
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/06/2020 04:42	WG1520779
Tetrachloroethene	U		0.300	1.00	1	08/06/2020 04:42	WG1520779
Toluene	U		0.278	1.00	1	08/06/2020 04:42	WG1520779
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/06/2020 04:42	WG1520779
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/06/2020 04:42	WG1520779
1,1,1-Trichloroethane	U		0.149	1.00	1	08/06/2020 04:42	WG1520779
1,1,2-Trichloroethane	U		0.158	1.00	1	08/06/2020 04:42	WG1520779
Trichloroethene	U		0.190	1.00	1	08/06/2020 04:42	WG1520779
Trichlorofluoromethane	U		0.160	5.00	1	08/06/2020 04:42	WG1520779
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/06/2020 04:42	WG1520779
1,2,3-Trimethylbenzene	U		0.104	1.00	1	08/06/2020 04:42	WG1520779
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/06/2020 04:42	WG1520779
Vinyl chloride	U		0.234	1.00	1	08/06/2020 04:42	WG1520779
Xylenes, Total	U		0.174	3.00	1	08/06/2020 04:42	WG1520779
o-Xylene	U		0.174	1.00	1	08/06/2020 04:42	WG1520779
m&p-Xylene	U		0.430	2.00	1	08/06/2020 04:42	WG1520779
(S) Toluene-d8	*102*			*80.0-120*		*08/06/2020 04:42*	WG1520779
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*08/06/2020 04:42*	WG1520779
(S) 1,2-Dichloroethane-d4	*97.8*			*70.0-130*		*08/06/2020 04:42*	WG1520779

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
AK102 DRO C10-C25	U		229	800	1	08/08/2020 17:26	WG1521695
(S) o-Terphenyl	*78.6*			*50.0-150*		*08/08/2020 17:26*	WG1521695

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

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHGAK C6 to C10	5130		100	1000	10	08/06/2020 15:43	WG1521515
(S) a,a,a-Trifluorotoluene(FID)	*125*			*50.0-150*		*08/06/2020 15:43*	WG1521515

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,3-Trichloropropane	U		0.500	1.25	250	08/10/2020 14:07	WG1519651
Acetone	U		11.3	50.0	1	08/06/2020 05:46	WG1520779
1,2-Dibromoethane	U		1.03	1.25	250	08/10/2020 14:07	WG1519651
Acrolein	U	J4	2.54	50.0	1	08/06/2020 05:46	WG1520779
Acrylonitrile	U		0.671	10.0	1	08/06/2020 05:46	WG1520779
Benzene	99.6		0.0941	1.00	1	08/06/2020 05:46	WG1520779
Bromobenzene	U		0.118	1.00	1	08/06/2020 05:46	WG1520779
Bromochloromethane	U		0.128	1.00	1	08/06/2020 05:46	WG1520779
Bromodichloromethane	U		0.136	1.00	1	08/06/2020 05:46	WG1520779
Bromoform	U		0.129	1.00	1	08/06/2020 05:46	WG1520779
Bromomethane	U		0.605	5.00	1	08/06/2020 05:46	WG1520779
n-Butylbenzene	6.81		0.157	1.00	1	08/06/2020 05:46	WG1520779
sec-Butylbenzene	7.50		0.125	1.00	1	08/06/2020 05:46	WG1520779
tert-Butylbenzene	1.61		0.127	1.00	1	08/06/2020 05:46	WG1520779
Carbon disulfide	U		0.0962	1.00	1	08/06/2020 05:46	WG1520779
Carbon tetrachloride	U		0.128	1.00	1	08/06/2020 05:46	WG1520779
Chlorobenzene	U		0.116	1.00	1	08/06/2020 05:46	WG1520779
Chlorodibromomethane	U		0.140	1.00	1	08/06/2020 05:46	WG1520779
Chloroethane	U		0.192	5.00	1	08/06/2020 05:46	WG1520779
Chloroform	U		0.111	5.00	1	08/06/2020 05:46	WG1520779
Chloromethane	U		0.960	2.50	1	08/06/2020 05:46	WG1520779
2-Chlorotoluene	U		0.106	1.00	1	08/06/2020 05:46	WG1520779
4-Chlorotoluene	U		0.114	1.00	1	08/06/2020 05:46	WG1520779
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	08/06/2020 05:46	WG1520779
Dibromomethane	U		0.122	1.00	1	08/06/2020 05:46	WG1520779
1,2-Dichlorobenzene	U		0.107	1.00	1	08/06/2020 05:46	WG1520779
1,3-Dichlorobenzene	U		0.110	1.00	1	08/06/2020 05:46	WG1520779
1,4-Dichlorobenzene	U		0.120	1.00	1	08/06/2020 05:46	WG1520779
Dichlorodifluoromethane	U	J0	0.374	5.00	1	08/06/2020 05:46	WG1520779
1,1-Dichloroethane	U		0.100	1.00	1	08/06/2020 05:46	WG1520779
1,2-Dichloroethane	U		0.0819	1.00	1	08/06/2020 05:46	WG1520779
1,1-Dichloroethene	U		0.188	1.00	1	08/06/2020 05:46	WG1520779
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/06/2020 05:46	WG1520779
trans-1,2-Dichloroethene	U		0.149	1.00	1	08/06/2020 05:46	WG1520779
1,2-Dichloropropane	U		0.149	1.00	1	08/06/2020 05:46	WG1520779
1,1-Dichloropropene	U		0.142	1.00	1	08/06/2020 05:46	WG1520779
1,3-Dichloropropane	U		0.110	1.00	1	08/06/2020 05:46	WG1520779
cis-1,3-Dichloropropene	U		0.111	1.00	1	08/06/2020 05:46	WG1520779
trans-1,3-Dichloropropene	U		0.118	1.00	1	08/06/2020 05:46	WG1520779
2,2-Dichloropropane	U		0.161	1.00	1	08/06/2020 05:46	WG1520779
Di-isopropyl ether	U		0.105	1.00	1	08/06/2020 05:46	WG1520779
Ethylbenzene	242		1.37	10.0	10	08/07/2020 04:23	WG1521682
Hexachloro-1,3-butadiene	U		0.337	1.00	1	08/06/2020 05:46	WG1520779
Isopropylbenzene	35.5		0.105	1.00	1	08/06/2020 05:46	WG1520779
p-Isopropyltoluene	19.7		0.120	1.00	1	08/06/2020 05:46	WG1520779
2-Butanone (MEK)	U		1.19	10.0	1	08/06/2020 05:46	WG1520779
Methylene Chloride	U		0.430	5.00	1	08/06/2020 05:46	WG1520779
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	08/06/2020 05:46	WG1520779
Methyl tert-butyl ether	U	J4	0.101	1.00	1	08/06/2020 05:46	WG1520779

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Naphthalene	70.5		1.00	5.00	1	08/06/2020 05:46	WG1520779
n-Propylbenzene	67.3		0.0993	1.00	1	08/06/2020 05:46	WG1520779
Styrene	U		0.118	1.00	1	08/06/2020 05:46	WG1520779
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	08/06/2020 05:46	WG1520779
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	08/06/2020 05:46	WG1520779
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	08/06/2020 05:46	WG1520779
Tetrachloroethene	U		0.300	1.00	1	08/06/2020 05:46	WG1520779
Toluene	27.6		0.278	1.00	1	08/06/2020 05:46	WG1520779
1,2,3-Trichlorobenzene	U		0.230	1.00	1	08/06/2020 05:46	WG1520779
1,2,4-Trichlorobenzene	U		0.481	1.00	1	08/06/2020 05:46	WG1520779
1,1,1-Trichloroethane	U		0.149	1.00	1	08/06/2020 05:46	WG1520779
1,1,2-Trichloroethane	U		0.158	1.00	1	08/06/2020 05:46	WG1520779
Trichloroethene	U		0.190	1.00	1	08/06/2020 05:46	WG1520779
Trichlorofluoromethane	U		0.160	5.00	1	08/06/2020 05:46	WG1520779
1,2,4-Trimethylbenzene	160		0.322	1.00	1	08/06/2020 05:46	WG1520779
1,2,3-Trimethylbenzene	144		0.104	1.00	1	08/06/2020 05:46	WG1520779
1,3,5-Trimethylbenzene	53.7		0.104	1.00	1	08/06/2020 05:46	WG1520779
Vinyl chloride	U		0.234	1.00	1	08/06/2020 05:46	WG1520779
Xylenes, Total	596		1.74	30.0	10	08/07/2020 04:23	WG1521682
o-Xylene	11.9		1.74	10.0	10	08/07/2020 04:23	WG1521682
m&p-Xylene	584		4.30	20.0	10	08/07/2020 04:23	WG1521682
(S) Toluene-d8	*95.4*			*80.0-120*		*08/06/2020 05:46*	WG1520779
(S) Toluene-d8	*111*			*80.0-120*		*08/07/2020 04:23*	WG1521682
(S) 4-Bromofluorobenzene	*97.6*			*77.0-126*		*08/06/2020 05:46*	WG1520779
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*08/07/2020 04:23*	WG1521682
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*08/06/2020 05:46*	WG1520779
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*08/07/2020 04:23*	WG1521682

Sample Narrative:

L1245154-17 WG1519651: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	1900		229	800	1	08/08/2020 17:46	WG1521695
(S) o-Terphenyl	*84.2*			*50.0-150*		*08/08/2020 17:46*	WG1521695

Method Blank (MB)

(MB) R3556701-2 08/04/20 16:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TPHGAK C6 to C10	U		10.0	100
(S) a,a,a-Trifluorotoluene(FID)	*102*			*60.0-120*

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

(LCS) R3556701-1 08/04/20 15:35 • (LCSD) R3556701-5 08/05/20 02:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	400	376	426	94.0	107	60.0-120			12.5	20
(S) a,a,a-Trifluorotoluene(FID)				*101*	*102*	*60.0-120*				

L1244625-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1244625-01 08/04/20 19:03 • (MS) R3556701-3 08/05/20 01:04 • (MSD) R3556701-4 08/05/20 01:28

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	400	14.2	157	220	35.7	51.5	1	70.0-130	J6	J3 J6	33.4	20
(S) a,a,a-Trifluorotoluene(FID)					*102*	*98.9*		*50.0-150*				

Method Blank (MB)

(MB) R3556926-2 08/05/20 13:28

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TPHGAK C6 to C10	U		10.0	100
(S) a,a,a-Trifluorotoluene(FID)	*102*			*60.0-120*

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

(LCS) R3556926-1 08/05/20 11:19 • (LCSD) R3556926-5 08/06/20 00:01

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	400	406	372	101	93.0	60.0-120			8.74	20
(S) a,a,a-Trifluorotoluene(FID)				*102*	*101*	*60.0-120*				

L1244679-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1244679-02 08/05/20 14:41 • (MS) R3556926-3 08/05/20 15:05 • (MSD) R3556926-4 08/05/20 15:29

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	40.0	14.8	41.0	44.4	65.5	74.0	1	70.0-130	J6		7.96	20
(S) a,a,a-Trifluorotoluene(FID)					*106*	*106*		*50.0-150*				

Method Blank (MB)

(MB) R3556927-2 08/06/20 01:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TPHGAK C6 to C10	U		10.0	100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*60.0-120*

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

(LCS) R3556927-1 08/06/20 00:01 • (LCSD) R3556927-3 08/06/20 09:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	400	372	380	93.0	95.0	60.0-120			2.13	20
(S) a,a,a-Trifluorotoluene(FID)				*101*	*102*	*60.0-120*				

Method Blank (MB)

(MB) R3556928-2 08/06/20 01:12

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
TPHGAK C6 to C10	U		10.0	100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*60.0-120*

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

(LCS) R3556928-1 08/06/20 00:01 • (LCSD) R3556928-7 08/06/20 09:59

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
TPHGAK C6 to C10	400	372	380	93.0	95.0	60.0-120			2.13	20
(S) a,a,a-Trifluorotoluene(FID)				*101*	*102*	*60.0-120*				

L1245154-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1245154-02 08/06/20 02:48 • (MS) R3556928-3 08/06/20 07:59 • (MSD) R3556928-4 08/06/20 08:23

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TPHGAK C6 to C10	400	14.8	250	490	58.8	119	1	70.0-130	J6	J3	64.9	20
(S) a,a,a-Trifluorotoluene(FID)					*102*	*101*		*50.0-150*				

L1245361-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1245361-03 08/06/20 03:12 • (MS) R3556928-5 08/06/20 08:47 • (MSD) R3556928-6 08/06/20 09:10

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TPHGAK C6 to C10	400	U	296	447	74.0	112	1	70.0-130		J3	40.6	20
(S) a,a,a-Trifluorotoluene(FID)					*101*	*101*		*50.0-150*				

Method Blank (MB)

(MB) R3557199-2 08/06/20 13:15

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TPHGAK C6 to C10	U		10.0	100
(S) a,a,a-Trifluorotoluene(FID)	*101*			*60.0-120*

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

(LCS) R3557199-1 08/06/20 12:27 • (LCSD) R3557199-3 08/06/20 18:57

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	400	389	358	97.3	89.5	60.0-120			8.30	20
(S) a,a,a-Trifluorotoluene(FID)				*102*	*103*	*60.0-120*				

Method Blank (MB)

(MB) R3556012-2 08/03/20 16:43

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,2,3-Trichloropropane	U		0.00200	0.00500
1,2-Dibromoethane	U		0.00410	0.00500

Laboratory Control Sample (LCS)

(LCS) R3556012-1 08/03/20 16:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,3-Trichloropropane	0.0500	0.0580	116	70.0-130	
1,2-Dibromoethane	0.0500	0.0490	98.0	70.0-130	

L1245154-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1245154-02 08/03/20 21:48 • (MS) R3556012-3 08/03/20 23:45 • (MSD) R3556012-4 08/04/20 00:09

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2,3-Trichloropropane	0.0500	0.00600	0.0690	0.0760	126	140	1	70.0-130		J5	9.66	20
1,2-Dibromoethane	0.0500	0.0380	0.171	0.172	266	268	1	70.0-130	E J5	E J5	0.583	20

L1245361-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1245361-03 08/03/20 18:40 • (MS) R3556012-5 08/04/20 00:32 • (MSD) R3556012-6 08/04/20 00:56

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2,3-Trichloropropane	0.0500	U	0.0900	0.0860	180	172	1	70.0-130	J5	J5	4.55	20
1,2-Dibromoethane	0.0500	U	0.0470	0.0490	94.0	98.0	1	70.0-130			4.17	20

Method Blank (MB)

(MB) R3558310-2 08/10/20 09:30

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,2,3-Trichloropropane	U		0.00200	0.00500
1,2-Dibromoethane	U		0.00410	0.00500

Laboratory Control Sample (LCS)

(LCS) R3558310-1 08/10/20 08:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,3-Trichloropropane	0.0500	0.0510	102	70.0-130	
1,2-Dibromoethane	0.0500	0.0390	78.0	70.0-130	

L1245975-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1245975-01 08/10/20 12:09 • (MS) R3558310-3 08/10/20 16:06 • (MSD) R3558310-4 08/10/20 16:29

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2,3-Trichloropropane	0.0500	U	0.0780	0.0800	156	160	1	70.0-130	J5	J5	2.53	20
1,2-Dibromoethane	0.0500	U	0.0460	0.0470	92.0	94.0	1	70.0-130			2.15	20

Method Blank (MB)

(MB) R3556080-2 08/03/20 18:24

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromochloromethane	U		0.128	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00

Method Blank (MB)

(MB) R3556080-2 08/03/20 18:24

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.337	1.00
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trimethylbenzene	U		0.104	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
o-Xylene	U		0.174	1.00
m&p-Xylene	U		0.430	2.00
(S) Toluene-d8	*96.9*			*80.0-120*
(S) 4-Bromofluorobenzene	*98.3*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3556080-1 08/03/20 12:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	30.8	123	19.0-160	
Acrolein	25.0	53.8	215	10.0-160	J4

Laboratory Control Sample (LCS)

(LCS) R3556080-1 08/03/20 12:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acrylonitrile	25.0	31.8	127	55.0-149	
Benzene	5.00	6.04	121	70.0-123	
Bromobenzene	5.00	4.78	95.6	73.0-121	
Bromodichloromethane	5.00	6.33	127	75.0-120	J4
Bromochloromethane	5.00	6.35	127	76.0-122	J4
Bromoform	5.00	5.88	118	68.0-132	
Bromomethane	5.00	6.26	125	10.0-160	
n-Butylbenzene	5.00	4.81	96.2	73.0-125	
sec-Butylbenzene	5.00	5.16	103	75.0-125	
tert-Butylbenzene	5.00	4.89	97.8	76.0-124	
Carbon disulfide	5.00	5.25	105	61.0-128	
Carbon tetrachloride	5.00	5.75	115	68.0-126	
Chlorobenzene	5.00	5.67	113	80.0-121	
Chlorodibromomethane	5.00	5.68	114	77.0-125	
Chloroethane	5.00	4.09	81.8	47.0-150	
Chloroform	5.00	6.12	122	73.0-120	J4
Chloromethane	5.00	4.81	96.2	41.0-142	
2-Chlorotoluene	5.00	5.04	101	76.0-123	
4-Chlorotoluene	5.00	5.13	103	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.91	98.2	58.0-134	
Dibromomethane	5.00	5.95	119	80.0-120	
1,2-Dichlorobenzene	5.00	5.32	106	79.0-121	
1,3-Dichlorobenzene	5.00	5.37	107	79.0-120	
1,4-Dichlorobenzene	5.00	5.16	103	79.0-120	
Dichlorodifluoromethane	5.00	5.73	115	51.0-149	
1,1-Dichloroethane	5.00	5.61	112	70.0-126	
1,2-Dichloroethane	5.00	6.25	125	70.0-128	
1,1-Dichloroethene	5.00	5.06	101	71.0-124	
cis-1,2-Dichloroethene	5.00	6.30	126	73.0-120	J4
trans-1,2-Dichloroethene	5.00	6.00	120	73.0-120	
1,2-Dichloropropane	5.00	5.51	110	77.0-125	
1,1-Dichloropropene	5.00	5.90	118	74.0-126	
1,3-Dichloropropane	5.00	5.53	111	80.0-120	
cis-1,3-Dichloropropene	5.00	6.10	122	80.0-123	
trans-1,3-Dichloropropene	5.00	5.71	114	78.0-124	
2,2-Dichloropropane	5.00	5.84	117	58.0-130	
Di-isopropyl ether	5.00	5.32	106	58.0-138	
Ethylbenzene	5.00	5.57	111	79.0-123	
Hexachloro-1,3-butadiene	5.00	4.80	96.0	54.0-138	
Isopropylbenzene	5.00	5.50	110	76.0-127	

Laboratory Control Sample (LCS)

(LCS) R3556080-1 08/03/20 12:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
p-Isopropyltoluene	5.00	5.06	101	76.0-125	
2-Butanone (MEK)	25.0	29.8	119	44.0-160	
Methylene Chloride	5.00	5.51	110	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	24.3	97.2	68.0-142	
Methyl tert-butyl ether	5.00	5.74	115	68.0-125	
Naphthalene	5.00	4.71	94.2	54.0-135	
n-Propylbenzene	5.00	4.54	90.8	77.0-124	
Styrene	5.00	5.92	118	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	6.01	120	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.98	99.6	65.0-130	
Tetrachloroethene	5.00	6.27	125	72.0-132	
Toluene	5.00	5.73	115	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	4.21	84.2	69.0-132	
1,2,3-Trichlorobenzene	5.00	5.06	101	50.0-138	
1,2,4-Trichlorobenzene	5.00	5.42	108	57.0-137	
1,1,1-Trichloroethane	5.00	5.72	114	73.0-124	
1,1,2-Trichloroethane	5.00	5.61	112	80.0-120	
Trichloroethene	5.00	6.09	122	78.0-124	
Trichlorofluoromethane	5.00	4.87	97.4	59.0-147	
1,2,3-Trimethylbenzene	5.00	5.08	102	77.0-120	
1,2,4-Trimethylbenzene	5.00	5.19	104	76.0-121	
1,3,5-Trimethylbenzene	5.00	5.02	100	76.0-122	
Vinyl chloride	5.00	5.22	104	67.0-131	
Xylenes, Total	15.0	16.6	111	79.0-123	
o-Xylene	5.00	5.28	106	80.0-122	
m&p-Xylene	10.0	11.3	113	80.0-122	
(S) Toluene-d8			*96.0*	*80.0-120*	
(S) 4-Bromofluorobenzene			*96.8*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*103*	*70.0-130*	

Method Blank (MB)

(MB) R3556975-2 08/04/20 01:30

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromochloromethane	U		0.128	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00

Method Blank (MB)

(MB) R3556975-2 08/04/20 01:30

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.337	1.00
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trimethylbenzene	U		0.104	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
o-Xylene	U		0.174	1.00
m&p-Xylenes	U		0.430	2.00
(S) Toluene-d8	*96.5*			*80.0-120*
(S) 4-Bromofluorobenzene	*98.6*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3556975-1 08/04/20 00:46

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	36.9	148	19.0-160	
Acrolein	25.0	43.1	172	10.0-160	J4

Laboratory Control Sample (LCS)

(LCS) R3556975-1 08/04/20 00:46

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acrylonitrile	25.0	31.3	125	55.0-149	
Benzene	5.00	5.52	110	70.0-123	
Bromobenzene	5.00	4.37	87.4	73.0-121	
Bromodichloromethane	5.00	5.86	117	75.0-120	
Bromochloromethane	5.00	6.07	121	76.0-122	
Bromoform	5.00	5.71	114	68.0-132	
Bromomethane	5.00	5.56	111	10.0-160	
n-Butylbenzene	5.00	4.47	89.4	73.0-125	
sec-Butylbenzene	5.00	4.66	93.2	75.0-125	
tert-Butylbenzene	5.00	4.43	88.6	76.0-124	
Carbon disulfide	5.00	5.37	107	61.0-128	
Carbon tetrachloride	5.00	5.52	110	68.0-126	
Chlorobenzene	5.00	5.23	105	80.0-121	
Chlorodibromomethane	5.00	5.32	106	77.0-125	
Chloroethane	5.00	5.18	104	47.0-150	
Chloroform	5.00	5.70	114	73.0-120	
Chloromethane	5.00	5.10	102	41.0-142	
2-Chlorotoluene	5.00	4.52	90.4	76.0-123	
4-Chlorotoluene	5.00	4.59	91.8	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.66	93.2	58.0-134	
Dibromomethane	5.00	5.81	116	80.0-120	
1,2-Dichlorobenzene	5.00	4.88	97.6	79.0-121	
1,3-Dichlorobenzene	5.00	4.89	97.8	79.0-120	
1,4-Dichlorobenzene	5.00	4.85	97.0	79.0-120	
Dichlorodifluoromethane	5.00	5.98	120	51.0-149	
1,1-Dichloroethane	5.00	5.07	101	70.0-126	
1,2-Dichloroethane	5.00	5.92	118	70.0-128	
1,1-Dichloroethene	5.00	5.43	109	71.0-124	
cis-1,2-Dichloroethene	5.00	5.78	116	73.0-120	
trans-1,2-Dichloroethene	5.00	5.55	111	73.0-120	
1,2-Dichloropropane	5.00	5.10	102	77.0-125	
1,1-Dichloropropene	5.00	5.35	107	74.0-126	
1,3-Dichloropropane	5.00	4.95	99.0	80.0-120	
cis-1,3-Dichloropropene	5.00	5.41	108	80.0-123	
trans-1,3-Dichloropropene	5.00	5.14	103	78.0-124	
2,2-Dichloropropane	5.00	5.00	100	58.0-130	
Di-isopropyl ether	5.00	5.14	103	58.0-138	
Ethylbenzene	5.00	5.12	102	79.0-123	
Hexachloro-1,3-butadiene	5.00	4.31	86.2	54.0-138	
Isopropylbenzene	5.00	5.13	103	76.0-127	

Laboratory Control Sample (LCS)

(LCS) R3556975-1 08/04/20 00:46

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
p-Isopropyltoluene	5.00	4.62	92.4	76.0-125	
2-Butanone (MEK)	25.0	30.5	122	44.0-160	
Methylene Chloride	5.00	5.42	108	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	24.3	97.2	68.0-142	
Methyl tert-butyl ether	5.00	5.67	113	68.0-125	
Naphthalene	5.00	4.61	92.2	54.0-135	
n-Propylbenzene	5.00	4.16	83.2	77.0-124	
Styrene	5.00	5.36	107	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.68	114	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.27	85.4	65.0-130	
Tetrachloroethene	5.00	5.30	106	72.0-132	
Toluene	5.00	5.29	106	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	3.51	70.2	69.0-132	
1,2,3-Trichlorobenzene	5.00	5.05	101	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.95	99.0	57.0-137	
1,1,1-Trichloroethane	5.00	5.56	111	73.0-124	
1,1,2-Trichloroethane	5.00	5.10	102	80.0-120	
Trichloroethene	5.00	5.80	116	78.0-124	
Trichlorofluoromethane	5.00	4.73	94.6	59.0-147	
1,2,3-Trimethylbenzene	5.00	4.75	95.0	77.0-120	
1,2,4-Trimethylbenzene	5.00	4.65	93.0	76.0-121	
1,3,5-Trimethylbenzene	5.00	4.62	92.4	76.0-122	
Vinyl chloride	5.00	5.00	100	67.0-131	
Xylenes, Total	15.0	15.1	101	79.0-123	
o-Xylene	5.00	4.92	98.4	80.0-122	
m&p-Xylenes	10.0	10.2	102	80.0-122	
(S) Toluene-d8			*92.3*	*80.0-120*	
(S) 4-Bromofluorobenzene			*97.8*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*101*	*70.0-130*	

L1245361-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1245361-03 08/04/20 09:10 • (MS) R3556975-3 08/04/20 10:36 • (MSD) R3556975-4 08/04/20 10:58

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	U	39.3	34.9	157	140	1	10.0-160			11.9	35
Acrolein	25.0	U	63.4	57.7	254	231	1	10.0-160	J5	J5	9.41	39
Acrylonitrile	25.0	U	41.0	37.0	164	148	1	21.0-160	J5		10.3	32
Benzene	5.00	U	8.04	7.29	161	146	1	17.0-158	J5		9.78	27

L1245361-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1245361-03 08/04/20 09:10 • (MS) R3556975-3 08/04/20 10:36 • (MSD) R3556975-4 08/04/20 10:58

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromobenzene	5.00	U	6.08	5.89	122	118	1	30.0-149			3.17	28
Bromodichloromethane	5.00	U	8.76	8.00	175	160	1	31.0-150	J5	J5	9.07	27
Bromochloromethane	5.00	U	8.51	7.66	170	153	1	38.0-142	J5	J5	10.5	26
Bromoform	5.00	U	8.06	7.37	161	147	1	29.0-150	J5		8.94	29
Bromomethane	5.00	U	7.46	7.21	149	144	1	10.0-160			3.41	38
n-Butylbenzene	5.00	U	6.90	6.44	138	129	1	31.0-150			6.90	30
sec-Butylbenzene	5.00	U	7.20	6.60	144	132	1	33.0-155			8.70	29
tert-Butylbenzene	5.00	U	6.85	6.51	137	130	1	34.0-153			5.09	28
Carbon disulfide	5.00	U	8.00	6.66	160	133	1	10.0-156	J5		18.3	28
Carbon tetrachloride	5.00	U	8.56	7.83	171	157	1	23.0-159	J5		8.91	28
Chlorobenzene	5.00	U	7.55	7.04	151	141	1	33.0-152			6.99	27
Chlorodibromomethane	5.00	U	7.61	6.89	152	138	1	37.0-149	J5		9.93	27
Chloroethane	5.00	U	6.81	6.12	136	122	1	10.0-160			10.7	30
Chloroform	5.00	12.0	19.5	18.8	150	136	1	29.0-154			3.66	28
Chloromethane	5.00	U	6.33	5.96	127	119	1	10.0-160			6.02	29
2-Chlorotoluene	5.00	U	6.56	6.14	131	123	1	32.0-153			6.61	28
4-Chlorotoluene	5.00	U	6.91	6.45	138	129	1	32.0-150			6.89	28
1,2-Dibromo-3-Chloropropane	5.00	U	6.84	5.91	137	118	1	22.0-151			14.6	34
Dibromomethane	5.00	U	8.07	7.28	161	146	1	30.0-151	J5		10.3	27
1,2-Dichlorobenzene	5.00	U	6.81	6.29	136	126	1	34.0-149			7.94	28
1,3-Dichlorobenzene	5.00	U	6.91	6.56	138	131	1	36.0-146			5.20	27
1,4-Dichlorobenzene	5.00	U	6.76	6.36	135	127	1	35.0-142			6.10	27
Dichlorodifluoromethane	5.00	U	5.75	5.67	115	113	1	10.0-160			1.40	29
1,1-Dichloroethane	5.00	U	7.72	7.02	154	140	1	25.0-158			9.50	27
1,2-Dichloroethane	5.00	U	8.07	7.51	161	150	1	29.0-151	J5		7.19	27
1,1-Dichloroethene	5.00	U	7.96	7.25	159	145	1	11.0-160			9.34	29
cis-1,2-Dichloroethene	5.00	U	7.98	7.79	160	156	1	10.0-160			2.41	27
trans-1,2-Dichloroethene	5.00	U	8.38	7.46	168	149	1	17.0-153	J5		11.6	27
1,2-Dichloropropane	5.00	U	7.11	6.69	142	134	1	30.0-156			6.09	27
1,1-Dichloropropene	5.00	U	8.37	7.74	167	155	1	25.0-158	J5		7.82	27
1,3-Dichloropropane	5.00	U	6.81	6.50	136	130	1	38.0-147			4.66	27
cis-1,3-Dichloropropene	5.00	U	7.70	7.19	154	144	1	34.0-149	J5		6.85	28
trans-1,3-Dichloropropene	5.00	U	7.57	6.85	151	137	1	32.0-149	J5		9.99	28
2,2-Dichloropropane	5.00	U	8.64	7.52	173	150	1	24.0-152	J5		13.9	29
Di-isopropyl ether	5.00	U	7.11	6.48	142	130	1	21.0-160			9.27	28
Ethylbenzene	5.00	U	7.36	6.64	147	133	1	30.0-155			10.3	27
Hexachloro-1,3-butadiene	5.00	U	5.88	5.65	118	113	1	20.0-154			3.99	34
Isopropylbenzene	5.00	U	7.75	7.11	155	142	1	28.0-157			8.61	27
p-Isopropyltoluene	5.00	U	7.01	6.63	140	133	1	30.0-154			5.57	29
2-Butanone (MEK)	25.0	U	37.0	34.2	148	137	1	10.0-160			7.87	32

L1245361-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1245361-03 08/04/20 09:10 • (MS) R3556975-3 08/04/20 10:36 • (MSD) R3556975-4 08/04/20 10:58

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methylene Chloride	5.00	U	7.26	6.81	145	136	1	23.0-144	J5		6.40	28
4-Methyl-2-pentanone (MIBK)	25.0	U	31.7	29.5	127	118	1	29.0-160			7.19	29
Methyl tert-butyl ether	5.00	U	7.82	6.92	156	138	1	28.0-150	J5		12.2	29
Naphthalene	5.00	U	6.30	6.10	126	122	1	12.0-156			3.23	35
n-Propylbenzene	5.00	U	6.23	5.92	125	118	1	31.0-154			5.10	28
Styrene	5.00	U	8.07	7.43	161	149	1	33.0-155	J5		8.26	28
1,1,1,2-Tetrachloroethane	5.00	U	8.31	7.22	166	144	1	36.0-151	J5		14.0	29
1,1,2,2-Tetrachloroethane	5.00	U	6.29	5.82	126	116	1	33.0-150			7.76	28
Tetrachloroethene	5.00	U	8.49	7.51	170	150	1	10.0-160	J5		12.3	27
Toluene	5.00	U	7.70	7.05	154	141	1	26.0-154			8.81	28
1,1,2-Trichlorotrifluoroethane	5.00	U	4.67	3.51	93.4	70.2	1	23.0-160			28.4	30
1,2,3-Trichlorobenzene	5.00	U	6.78	6.52	136	130	1	17.0-150			3.91	36
1,2,4-Trichlorobenzene	5.00	U	6.88	6.51	138	130	1	24.0-150			5.53	33
1,1,1-Trichloroethane	5.00	U	8.18	7.45	164	149	1	23.0-160	J5		9.34	28
1,1,2-Trichloroethane	5.00	U	7.15	6.70	143	134	1	35.0-147			6.50	27
Trichloroethene	5.00	U	8.42	7.81	168	156	1	10.0-160	J5		7.52	25
Trichlorofluoromethane	5.00	U	7.77	6.16	155	123	1	17.0-160			23.1	31
1,2,3-Trimethylbenzene	5.00	U	6.80	6.16	136	123	1	32.0-149			9.88	28
1,2,4-Trimethylbenzene	5.00	0.335	6.91	6.38	132	121	1	26.0-154			7.98	27
1,3,5-Trimethylbenzene	5.00	U	6.85	6.37	137	127	1	28.0-153			7.26	27
Vinyl chloride	5.00	U	7.18	6.86	144	137	1	10.0-160			4.56	27
Xylenes, Total	15.0	U	22.6	21.1	151	141	1	29.0-154			6.86	28
o-Xylene	5.00	U	7.39	6.77	148	135	1	45.0-144	J5		8.76	26
m&p-Xylenes	10.0	U	15.2	14.3	152	143	1	43.0-146	J5		6.10	26
(S) Toluene-d8					*93.2*	*93.5*		*80.0-120*				
(S) 4-Bromofluorobenzene					*101*	*101*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*100*	*100*		*70.0-130*				

Method Blank (MB)

(MB) R3558311-2 08/10/20 09:30

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,2,3-Trichloropropane	U		0.00200	0.00500
1,2-Dibromoethane	U		0.00410	0.00500

Laboratory Control Sample (LCS)

(LCS) R3558311-1 08/10/20 08:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,3-Trichloropropane	0.0500	0.0510	102	70.0-130	
1,2-Dibromoethane	0.0500	0.0390	78.0	70.0-130	

Method Blank (MB)

(MB) R3556563-2 08/04/20 20:02

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
1,2,3-Trimethylbenzene	U		0.104	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Xylenes, Total	U		0.174	3.00
o-Xylene	U		0.174	1.00
m&p-Xylenes	U		0.430	2.00
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*102*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*82.5*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3556563-1 08/04/20 19:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	5.00	5.36	107	79.0-123	
Naphthalene	5.00	4.12	82.4	54.0-135	
n-Propylbenzene	5.00	4.20	84.0	77.0-124	
1,2,3-Trimethylbenzene	5.00	5.18	104	77.0-120	
1,2,4-Trimethylbenzene	5.00	4.42	88.4	76.0-121	
1,3,5-Trimethylbenzene	5.00	4.20	84.0	76.0-122	
Xylenes, Total	15.0	17.0	113	79.0-123	
o-Xylene	5.00	5.54	111	80.0-122	
m&p-Xylenes	10.0	11.5	115	80.0-122	
(S) Toluene-d8			*107*	*80.0-120*	
(S) 4-Bromofluorobenzene			*105*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*83.0*	*70.0-130*	

Method Blank (MB)

(MB) R3557030-2 08/06/20 01:25

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromochloromethane	U		0.128	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00

Method Blank (MB)

(MB) R3557030-2 08/06/20 01:25

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.337	1.00
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trimethylbenzene	U		0.104	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
o-Xylene	U		0.174	1.00
m&p-Xylenes	U		0.430	2.00
(S) Toluene-d8	*99.3*			*80.0-120*
(S) 4-Bromofluorobenzene	*100*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*97.5*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3557030-1 08/06/20 00:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	29.9	120	19.0-160	
Acrolein	25.0	41.5	166	10.0-160	J4

Laboratory Control Sample (LCS)

(LCS) R3557030-1 08/06/20 00:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acrylonitrile	25.0	29.7	119	55.0-149	
Benzene	5.00	5.14	103	70.0-123	
Bromobenzene	5.00	4.93	98.6	73.0-121	
Bromodichloromethane	5.00	5.58	112	75.0-120	
Bromochloromethane	5.00	5.98	120	76.0-122	
Bromoform	5.00	6.23	125	68.0-132	
Bromomethane	5.00	5.38	108	10.0-160	
n-Butylbenzene	5.00	4.89	97.8	73.0-125	
sec-Butylbenzene	5.00	5.09	102	75.0-125	
tert-Butylbenzene	5.00	5.04	101	76.0-124	
Carbon disulfide	5.00	5.06	101	61.0-128	
Carbon tetrachloride	5.00	5.14	103	68.0-126	
Chlorobenzene	5.00	5.62	112	80.0-121	
Chlorodibromomethane	5.00	5.85	117	77.0-125	
Chloroethane	5.00	4.60	92.0	47.0-150	
Chloroform	5.00	5.44	109	73.0-120	
Chloromethane	5.00	4.32	86.4	41.0-142	
2-Chlorotoluene	5.00	5.15	103	76.0-123	
4-Chlorotoluene	5.00	5.33	107	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	5.19	104	58.0-134	
Dibromomethane	5.00	5.61	112	80.0-120	
1,2-Dichlorobenzene	5.00	5.34	107	79.0-121	
1,3-Dichlorobenzene	5.00	5.29	106	79.0-120	
1,4-Dichlorobenzene	5.00	5.60	112	79.0-120	
Dichlorodifluoromethane	5.00	3.40	68.0	51.0-149	
1,1-Dichloroethane	5.00	4.96	99.2	70.0-126	
1,2-Dichloroethane	5.00	5.48	110	70.0-128	
1,1-Dichloroethene	5.00	5.11	102	71.0-124	
cis-1,2-Dichloroethene	5.00	5.66	113	73.0-120	
trans-1,2-Dichloroethene	5.00	5.33	107	73.0-120	
1,2-Dichloropropane	5.00	4.67	93.4	77.0-125	
1,1-Dichloropropene	5.00	4.55	91.0	74.0-126	
1,3-Dichloropropane	5.00	5.45	109	80.0-120	
cis-1,3-Dichloropropene	5.00	5.30	106	80.0-123	
trans-1,3-Dichloropropene	5.00	5.71	114	78.0-124	
2,2-Dichloropropane	5.00	6.30	126	58.0-130	
Di-isopropyl ether	5.00	5.25	105	58.0-138	
Ethylbenzene	5.00	5.33	107	79.0-123	
Hexachloro-1,3-butadiene	5.00	4.80	96.0	54.0-138	
Isopropylbenzene	5.00	5.53	111	76.0-127	

Laboratory Control Sample (LCS)

(LCS) R3557030-1 08/06/20 00:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
p-Isopropyltoluene	5.00	5.35	107	76.0-125	
2-Butanone (MEK)	25.0	25.3	101	44.0-160	
Methylene Chloride	5.00	5.41	108	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	24.1	96.4	68.0-142	
Methyl tert-butyl ether	5.00	7.07	141	68.0-125	J4
Naphthalene	5.00	5.43	109	54.0-135	
n-Propylbenzene	5.00	4.54	90.8	77.0-124	
Styrene	5.00	6.11	122	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	6.06	121	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	5.04	101	65.0-130	
Tetrachloroethene	5.00	5.27	105	72.0-132	
Toluene	5.00	5.45	109	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	4.48	89.6	69.0-132	
1,2,3-Trichlorobenzene	5.00	5.44	109	50.0-138	
1,2,4-Trichlorobenzene	5.00	5.58	112	57.0-137	
1,1,1-Trichloroethane	5.00	5.18	104	73.0-124	
1,1,2-Trichloroethane	5.00	5.44	109	80.0-120	
Trichloroethene	5.00	5.51	110	78.0-124	
Trichlorofluoromethane	5.00	4.55	91.0	59.0-147	
1,2,3-Trimethylbenzene	5.00	5.39	108	77.0-120	
1,2,4-Trimethylbenzene	5.00	5.32	106	76.0-121	
1,3,5-Trimethylbenzene	5.00	5.18	104	76.0-122	
Vinyl chloride	5.00	4.17	83.4	67.0-131	
Xylenes, Total	15.0	16.8	112	79.0-123	
o-Xylene	5.00	5.58	112	80.0-122	
m&p-Xylenes	10.0	11.2	112	80.0-122	
(S) Toluene-d8			*98.4*	*80.0-120*	
(S) 4-Bromofluorobenzene			*101*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*97.8*	*70.0-130*	

L1245154-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1245154-02 08/06/20 02:54 • (MS) R3557030-3 08/06/20 10:06 • (MSD) R3557030-4 08/06/20 10:28

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	U	25.3	24.8	101	99.2	1	10.0-160			2.00	35
Acrolein	25.0	U	50.8	53.4	203	214	1	10.0-160	J5	J5	4.99	39
Acrylonitrile	25.0	U	22.4	22.8	89.6	91.2	1	21.0-160			1.77	32
Benzene	5.00	U	4.09	4.17	81.8	83.4	1	17.0-158			1.94	27

L1245154-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1245154-02 08/06/20 02:54 • (MS) R3557030-3 08/06/20 10:06 • (MSD) R3557030-4 08/06/20 10:28

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromobenzene	5.00	U	4.36	4.46	87.2	89.2	1	30.0-149			2.27	28
Bromodichloromethane	5.00	U	4.73	4.84	94.6	96.8	1	31.0-150			2.30	27
Bromochloromethane	5.00	U	4.64	4.62	92.8	92.4	1	38.0-142			0.432	26
Bromoform	5.00	U	5.77	6.03	115	121	1	29.0-150			4.41	29
Bromomethane	5.00	U	5.03	5.08	101	102	1	10.0-160			0.989	38
n-Butylbenzene	5.00	U	4.97	5.09	99.4	102	1	31.0-150			2.39	30
sec-Butylbenzene	5.00	U	5.21	5.28	104	106	1	33.0-155			1.33	29
tert-Butylbenzene	5.00	U	4.98	4.89	99.6	97.8	1	34.0-153			1.82	28
Carbon disulfide	5.00	U	3.91	3.92	78.2	78.4	1	10.0-156			0.255	28
Carbon tetrachloride	5.00	U	5.08	4.96	102	99.2	1	23.0-159			2.39	28
Chlorobenzene	5.00	U	4.91	5.16	98.2	103	1	33.0-152			4.97	27
Chlorodibromomethane	5.00	U	5.13	5.24	103	105	1	37.0-149			2.12	27
Chloroethane	5.00	U	4.39	4.40	87.8	88.0	1	10.0-160			0.228	30
Chloroform	5.00	U	4.41	4.51	88.2	90.2	1	29.0-154			2.24	28
Chloromethane	5.00	U	3.68	3.61	73.6	72.2	1	10.0-160			1.92	29
2-Chlorotoluene	5.00	U	4.76	4.81	95.2	96.2	1	32.0-153			1.04	28
4-Chlorotoluene	5.00	U	5.00	5.02	100	100	1	32.0-150			0.399	28
1,2-Dibromo-3-Chloropropane	5.00	U	5.06	5.07	101	101	1	22.0-151			0.197	34
Dibromomethane	5.00	U	4.44	4.31	88.8	86.2	1	30.0-151			2.97	27
1,2-Dichlorobenzene	5.00	U	5.26	5.37	105	107	1	34.0-149			2.07	28
1,3-Dichlorobenzene	5.00	U	5.09	5.04	102	101	1	36.0-146			0.987	27
1,4-Dichlorobenzene	5.00	U	5.04	5.01	101	100	1	35.0-142			0.597	27
Dichlorodifluoromethane	5.00	0.900	5.91	5.38	100	89.6	1	10.0-160			9.39	29
1,1-Dichloroethane	5.00	U	3.98	4.14	79.6	82.8	1	25.0-158			3.94	27
1,2-Dichloroethane	5.00	0.770	5.26	5.38	89.8	92.2	1	29.0-151			2.26	27
1,1-Dichloroethene	5.00	U	4.72	4.50	94.4	90.0	1	11.0-160			4.77	29
cis-1,2-Dichloroethene	5.00	U	4.62	4.60	92.4	92.0	1	10.0-160			0.434	27
trans-1,2-Dichloroethene	5.00	U	4.33	4.11	86.6	82.2	1	17.0-153			5.21	27
1,2-Dichloropropane	5.00	U	3.96	3.84	79.2	76.8	1	30.0-156			3.08	27
1,1-Dichloropropene	5.00	U	4.13	4.36	82.6	87.2	1	25.0-158			5.42	27
1,3-Dichloropropane	5.00	U	4.48	4.62	89.6	92.4	1	38.0-147			3.08	27
cis-1,3-Dichloropropene	5.00	U	4.14	4.20	82.8	84.0	1	34.0-149			1.44	28
trans-1,3-Dichloropropene	5.00	U	4.64	4.73	92.8	94.6	1	32.0-149			1.92	28
2,2-Dichloropropane	5.00	U	5.33	5.26	107	105	1	24.0-152			1.32	29
Di-isopropyl ether	5.00	U	4.17	4.17	83.4	83.4	1	21.0-160			0.000	28
Ethylbenzene	5.00	U	4.81	4.78	96.2	95.6	1	30.0-155			0.626	27
Hexachloro-1,3-butadiene	5.00	U	5.09	5.28	102	106	1	20.0-154			3.66	34
Isopropylbenzene	5.00	U	5.29	5.59	106	112	1	28.0-157			5.51	27
p-Isopropyltoluene	5.00	U	5.14	5.17	103	103	1	30.0-154			0.582	29
2-Butanone (MEK)	25.0	U	20.6	21.3	82.4	85.2	1	10.0-160			3.34	32

L1245154-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1245154-02 08/06/20 02:54 • (MS) R3557030-3 08/06/20 10:06 • (MSD) R3557030-4 08/06/20 10:28

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methylene Chloride	5.00	U	4.20	4.16	84.0	83.2	1	23.0-144			0.957	28
4-Methyl-2-pentanone (MIBK)	25.0	U	21.8	22.4	87.2	89.6	1	29.0-160			2.71	29
Methyl tert-butyl ether	5.00	U	5.47	5.64	109	113	1	28.0-150			3.06	29
Naphthalene	5.00	U	5.13	5.32	103	106	1	12.0-156			3.64	35
n-Propylbenzene	5.00	U	4.35	4.47	87.0	89.4	1	31.0-154			2.72	28
Styrene	5.00	U	5.43	5.56	109	111	1	33.0-155			2.37	28
1,1,1,2-Tetrachloroethane	5.00	U	5.41	5.48	108	110	1	36.0-151			1.29	29
1,1,2,2-Tetrachloroethane	5.00	U	4.82	4.97	96.4	99.4	1	33.0-150			3.06	28
Tetrachloroethene	5.00	U	5.58	5.65	112	113	1	10.0-160			1.25	27
Toluene	5.00	U	4.59	4.71	91.8	94.2	1	26.0-154			2.58	28
1,1,2-Trichlorotrifluoroethane	5.00	U	5.41	5.09	108	102	1	23.0-160			6.10	30
1,2,3-Trichlorobenzene	5.00	U	5.59	5.37	112	107	1	17.0-150			4.01	36
1,2,4-Trichlorobenzene	5.00	U	5.50	5.82	110	116	1	24.0-150			5.65	33
1,1,1-Trichloroethane	5.00	U	4.72	4.92	94.4	98.4	1	23.0-160			4.15	28
1,1,2-Trichloroethane	5.00	U	5.13	4.90	103	98.0	1	35.0-147			4.59	27
Trichloroethene	5.00	U	4.52	4.81	90.4	96.2	1	10.0-160			6.22	25
Trichlorofluoromethane	5.00	U	6.16	6.12	123	122	1	17.0-160			0.651	31
1,2,3-Trimethylbenzene	5.00	U	4.95	5.01	99.0	100	1	32.0-149			1.20	28
1,2,4-Trimethylbenzene	5.00	U	5.12	5.11	102	102	1	26.0-154			0.196	27
1,3,5-Trimethylbenzene	5.00	U	4.86	4.91	97.2	98.2	1	28.0-153			1.02	27
Vinyl chloride	5.00	U	4.49	4.81	89.8	96.2	1	10.0-160			6.88	27
Xylenes, Total	15.0	U	15.0	15.7	100	105	1	29.0-154			4.56	28
o-Xylene	5.00	U	4.91	5.16	98.2	103	1	45.0-144			4.97	26
m&p-Xylenes	10.0	U	10.1	10.5	101	105	1	43.0-146			3.88	26
(S) Toluene-d8					*98.8*	*99.0*		*80.0-120*				
(S) 4-Bromofluorobenzene					*102*	*102*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*97.2*	*98.1*		*70.0-130*				

Method Blank (MB)

(MB) R3557278-3 08/06/20 20:59

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	1.00
1,2,3-Trimethylbenzene	U		0.104	1.00
m&p-Xylenes	U		0.430	2.00
(S) Toluene-d8	*111*			*80.0-120*
(S) 4-Bromofluorobenzene	*105*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*

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

(LCS) R3557278-1 08/06/20 20:00 • (LCSD) R3557278-2 08/06/20 20:20

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	4.91	4.55	98.2	91.0	79.0-123			7.61	20
1,2,3-Trimethylbenzene	5.00	5.55	5.23	111	105	77.0-120			5.94	20
m&p-Xylenes	10.0	10.4	9.07	104	90.7	80.0-122			13.7	20
(S) Toluene-d8				*113*	*113*	*80.0-120*				
(S) 4-Bromofluorobenzene				*105*	*109*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*112*	*112*	*70.0-130*				

Method Blank (MB)

(MB) R3557280-3 08/06/20 20:59

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Ethylbenzene	U		0.137	1.00
Methyl tert-butyl ether	U		0.101	1.00
Xylenes, Total	U		0.174	3.00
o-Xylene	U		0.174	1.00
m&p-Xylenes	U		0.430	2.00
(S) Toluene-d8	*111*			*80.0-120*
(S) 4-Bromofluorobenzene	*105*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*

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

(LCS) R3557280-1 08/06/20 20:00 • (LCSD) R3557280-2 08/06/20 20:20

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Ethylbenzene	5.00	4.91	4.55	98.2	91.0	79.0-123			7.61	20
Methyl tert-butyl ether	5.00	5.22	4.83	104	96.6	68.0-125			7.76	20
Xylenes, Total	15.0	15.7	13.9	105	92.7	79.0-123			12.2	20
o-Xylene	5.00	5.31	4.82	106	96.4	80.0-122			9.67	20
m&p-Xylenes	10.0	10.4	9.07	104	90.7	80.0-122			13.7	20
(S) Toluene-d8				*113*	*113*	*80.0-120*				
(S) 4-Bromofluorobenzene				*105*	*109*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*112*	*112*	*70.0-130*				

Method Blank (MB)

(MB) R3557616-1 08/07/20 14:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
AK102 DRO C10-C25	U		229	800
(S) o-Terphenyl	*82.5*			*60.0-120*

Laboratory Control Sample (LCS)

(LCS) R3557616-2 08/07/20 14:20

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
AK102 DRO C10-C25	3000	2610	87.0	75.0-125	
(S) o-Terphenyl			*77.8*	*60.0-120*	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3557616-3 08/07/20 15:40 • (MSD) R3557616-4 08/07/20 16:00

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l		ug/l	ug/l	%	%		%			%	%
AK102 DRO C10-C25	3160		2890	3040	91.5	91.0	1.05	75.0-125			5.06	20
(S) o-Terphenyl					*79.6*	*79.3*		*50.0-150*				

L1244679-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1244679-02 08/07/20 16:41 • (MS) R3557616-5 08/07/20 17:01 • (MSD) R3557616-6 08/07/20 17:21

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
AK102 DRO C10-C25	3160	254	3060	2990	88.8	91.2	1.05	75.0-125			2.31	20
(S) o-Terphenyl					*81.7*	*82.5*		*50.0-150*				

L1245154-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1245154-02 08/07/20 22:55 • (MS) R3557616-7 08/07/20 23:15 • (MSD) R3557616-8 08/07/20 23:35

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
AK102 DRO C10-C25	3160	U	2920	2510	92.4	87.8	1.05	75.0-125			15.1	20
(S) o-Terphenyl					*82.2*	*74.3*		*50.0-150*				

Method Blank (MB)

(MB) R3557953-1 08/08/20 12:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
AK102 DRO C10-C25	U		229	800
(S) o-Terphenyl	*75.3*			*60.0-120*

Laboratory Control Sample (LCS)

(LCS) R3557953-2 08/08/20 12:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
AK102 DRO C10-C25	3000	2630	87.7	75.0-125	
(S) o-Terphenyl			*81.5*	*60.0-120*	

L1245361-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1245361-03 08/08/20 13:24 • (MS) R3557953-5 08/08/20 13:44 • (MSD) R3557953-6 08/08/20 14:04

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
AK102 DRO C10-C25	3000	U	2690	2630	89.7	85.9	1	75.0-125			2.26	20
(S) o-Terphenyl					*94.8*	*86.5*		*50.0-150*				

L1245975-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1245975-01 08/08/20 14:24 • (MS) R3557953-7 08/08/20 14:44 • (MSD) R3557953-8 08/08/20 15:05

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
AK102 DRO C10-C25	3000	441	3100	3030	88.6	86.3	1	75.0-125			2.28	20
(S) o-Terphenyl					*74.0*	*86.5*		*50.0-150*				

Sample Narrative:

OS: Dilution due to sample volume.

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration met method criteria.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

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

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

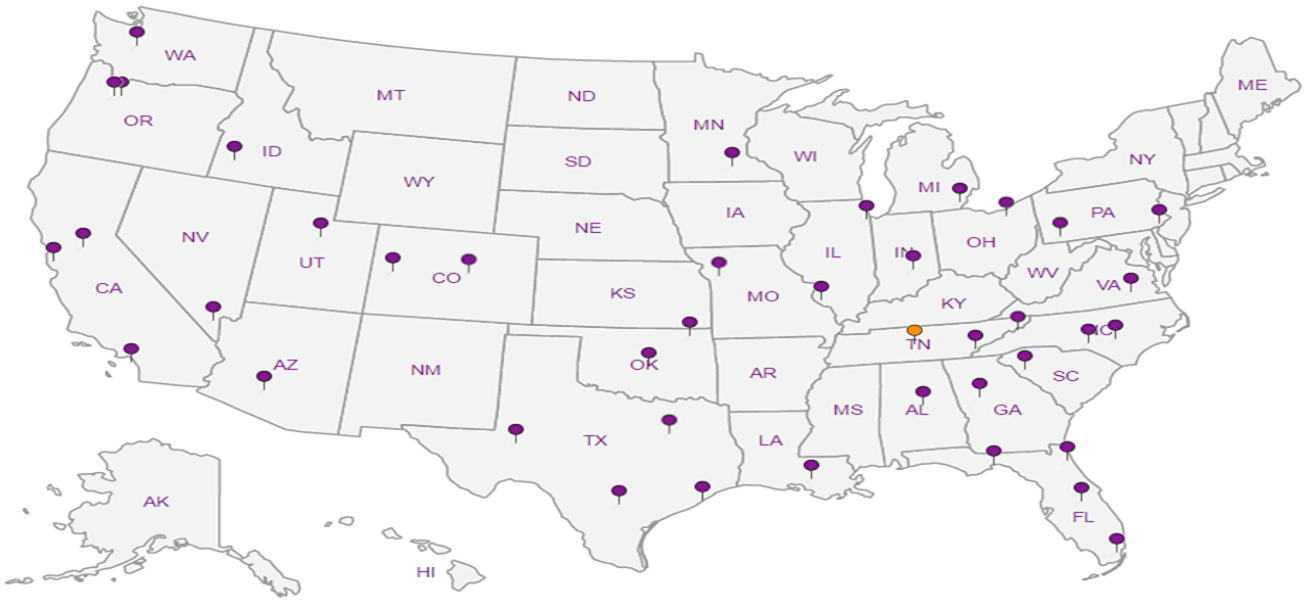
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

Our Locations

Pace National 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. Pace National performs all testing at our central laboratory.



Arcadis - Chevron - AK

880 H St.
Anchorage, AK 99501

Billing Information:
Attn: Acounts Payable
630 Plaza Dr Ste 600
Highlands Ranch, CO 80129

Report to: Nicole Monroe

Email To: Nicole.Monroe@arcadis.com;environmentDM-

Project Description: 95414

City/State Collected: Anchorage, AK

Please Circle: PT MT CT ET → AKST

Phone: 907-276-8095

Client Project # 30043260.5133

Lab Project # CHEVARCAK-95414

Collected by (print): E. Wijcik

Site/Facility ID # 95414

P.O. # 30043260.5133

Collected by (signature): E Wi

Immediately Packed on Ice N ___ Y X

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

Date Results Needed

Quote #

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	AK101 40mlAmb HCl	AK102 100ml Amb HCl	EDB/123TCP V524LL 40mlAmb-HCl	VOCs 8260D 40mlAmb-HCl	Remarks	Sample # (lab only)
EQB-1-W-200727	Grab	GW	—	7.27.20	0900	11	X	X	X	X		
BD-1-W-200727	Grab	GW	—	7.27.20	—	11	X	X	X	X		-01
MW-2-W-200727	Grab	GW	—	7.27.20	1000	11	X	X	X	X		
MW-4-W-200727	Grab	GW	—	7.27.20	1100	33	X	X	X	X	MS/MSD	02
MW-8-W-200727	Grab	GW	—	7.27.20	1200	11	X	X	X	X		
MW-6-W-200727	Grab	GW	—	7.27.20	1300	11	X	X	X	X		
MW-7-W-200727	Grab	GW	—	7.27.20	1400	11	X	X	X	X		
BD-1-W-200728	Grab	GW	—	7.28.20	—	11	X	X	X	X		03
MW-3-W-200728	Grab	GW	—	7.28.20	0700	11	X	X	X	X		04
MW-10-W-200728	Grab	GW	—	7.28.20	0800	11	X	X	X	X		05

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

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS X FedEx __ Courier _____

Tracking # 9050 0888 8584

Relinquished by : (Signature) E Wi — Date: 7.29.20 — Time: 1130

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

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

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature) — Date: 7/30/20 — Time: 9:00

Trip Blank Received: Yes / No
HCl / MeoH
TBR

Temp: 2.1 °C Bottles Received: 44

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

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

Chain of Custody Page 1 of 2

Pace Analytical®
National Center for Testing & Innovation

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

SDG # L1245154

Table #

Acctnum: CHEVARCAK
Template: T171286
Prelogin: P786554
PM: 110 - Brian Ford
PB: KL

Shipped Via:

Arcadis - Chevron - AK

880 H St.
Anchorage, AK 99501

Billing Information:
Attn: Acounts Payable
630 Plaza Dr Ste 600
Highlands Ranch, CO 80129

Pres Chk

Report to: Nicole Monroe

Email To: Nicole.Monroe@arcadis.com;environmentDM-

Project Description: 95414

City/State Collected: Anchorage, Ak

Please Circle: PT MT CT ET AK ST

Phone: 907-276-8095

Client Project # 30043260.5133

Lab Project # CHEVARCAK-95414

Collected by (print): E. Wojcik

Site/Facility ID # 95414

P.O. # 30043260.5133

Collected by (signature): E Wojcik

Immediately Packed on Ice N ___ Y X

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

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	AK101 40mlAmb HCl	AK102 100ml Amb HCl	EDB/123TCP V524LL 40mlAmb-HCl	VOCs 8260D 40mlAmb-HCl							Remarks	Sample # (lab only)
SP-1-W-200728	Grab	GW	—	7.28.20	0830	11	X	X	X	X								06
SP-2-W-200728	Grab	GW	—	7.28.20	0900	11	X	X	X	X								07
SP-3-W-200728	Grab	GW	—	7.28.20	0930	11	X	X	X	X								
SP-4-W-200728	Grab	GW	—	7.28.20	1000	11	X	X	X	X								08
MW-7-W-200728	Grab	GW	—	7.28.20	1100	11	X	X	X	X								
MW-5-W-200728	Grab	GW	—	7.28.20	1200	11	X	X	X	X								09
Trip Blank	—	—	—	7.28.20	—	6	X		X	X								10

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

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS X FedEx __ Courier _____

Tracking #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
E Wojcik	7.29.20	1130	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No HCL / MeoH TBR

Temp: 2.1 °C Bottles Received:

Date: 7/30/20 Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

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

Chain of Custody Page 2 of 2

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Template: T171286

Prelogin: P786554

PM: 110 - Brian Ford

PB: KL

Shipped Via:

APPENDIX D

ADEC Data Review Checklist

Laboratory Data Review Checklist

Completed By:

Bhagyashree A Fulzele

Title:

Project Chemist

Date:

August 18,2020

Consultant Firm:

ARCADIS U.S., Inc

Laboratory Name:

Pace Analytical

Laboratory Report Number:

L1245154

Laboratory Report Date:

08/13/2020

CS Site Name:

Third quarter 2020 Groundwater Monitoring Report

ADEC File Number:

2100.26.062

Hazard Identification Number:

24602

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

   Yes☒ No☐ N/A☐ Comments:

Yes.

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

   Yes☐ No☒ N/A☐ Comments:

No.

2. Chain of Custody (CoC)

   a. CoC information completed, signed, and dated (including released/received by)?

   Yes☒ No☐ N/A☐ Comments:

Yes.

   b. Correct analyses requested?

   Yes☒ No☐ N/A☐ Comments:

Yes.

3. Laboratory Sample Receipt Documentation

   a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

   Yes☒ No☐ N/A☐ Comments:

Yes.

   b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

   Yes☒ No☐ N/A☐ Comments:

Yes.

   c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

   Yes☒ No☐ N/A☐ Comments:

Yes.

   d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

   Yes☐ No☒ N/A☐ Comments:

No discrepancies were observed.

e. Data quality or usability affected?

Comments:

Data quality/usability was not affected.

4. Case Narrative

a. Present and understandable?

Yes☒ No☐ N/A☐ Comments:

Yes.

b. Discrepancies, errors, or QC failures identified by the lab?

Yes☒ No☐ N/A☐ Comments:

Yes.

c. Were all corrective actions documented?

Yes☒ No☐ N/A☐ Comments:

Yes.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Data quality/usability was not affected.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes☒ No☐ N/A☐ Comments:

Yes.

b. All applicable holding times met?

Yes☒ No☐ N/A☐ Comments:

Yes.

c. All soils reported on a dry weight basis?

Yes☐ No☒ N/A☐ Comments:

No soil samples were submitted for analysis.

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes☒ No☐ N/A☐ Comments:

Yes.

e. Data quality or usability affected?

Data quality/usability was not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes☒ No☐ N/A☐ Comments:

Yes.

ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives?

Yes☒ No☐ N/A☐ Comments:

Yes.

iii. If above LOQ or project specified objectives, what samples are affected?

Comments:

None of the samples were affected.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes☐ No☒ N/A☐ Comments:

None of the data qualified for method blank contamination.

v. Data quality or usability affected?

Comments:

Data quality/usability was not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes☒ No☐ N/A☐ Comments:

Yes.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes☐ No☒ N/A☐ Comments:

Metals/Inorganic analysis was not requested for submitted samples.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes☐ No☒ N/A☐ Comments:

Method SW846 8260: LCS/LCSD recoveries for compound acrolein was greater than the control limit in preparation batch WG1519736. The compound in the associated samples was not detected hence qualification was not required.

LCS/LCSD recoveries for compounds acrolein and methyl tert-butyl ether were greater than the control limit in preparation batch WG1520779. The compound acrolein was non-detect in any of the associated samples, hence qualification was not required. The compound methyl tert-butyl ether was detected and qualified as estimated (J).

LCS/LCSD recoveries for compounds acrolein, bromodichloromethane, bromochloromethane, chloroform and cis-1,2-dichloroethene were greater than the control limit in preparation batch WG1519683. The compounds in the associated samples were not detected hence qualification was not required.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes☒ No☐ N/A☐ Comments:

Yes.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Compound methyl tert-butyl ether result in sample MW-6-W-200727 was qualified as estimated (J).

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes☒ No☐ N/A☐ Comments:

Yes.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The LCS/LCSD recoveries exceedances are considered minor and would result in the estimation of the associated data. The reported data should still consider as usable.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Note: Leave blank if not required for project

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes☒ No☐ N/A☐ Comments:

The MS/MSD analysis was performed on sample MW-4-W-200727.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes☐ No☒ N/A☐ Comments:

Metals/Inorganic analysis was not requested for submitted samples.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes☐ No☒ N/A☐ Comments:

Method AK101: MS and/or MSD recovery was greater than the control limit for compound TPHGAK C6 to C10 in sample MW-4-W-200727 and qualified as estimated (J). Method SW846 8260D: MS and/or MSD recovery was greater than the control limit for compounds 1,2,3-trichloropropane and 1,2-dibromoethane in sample MW-4-W-200727 and qualified as estimated (J). MS/MSD recovery was greater than the control limit for compound acrolein in sample MW-4-W-200727. The compound in the associated sample was non-detect hence qualification was not required.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes☐ No☒ N/A☐ Comments:

Method AK101: MS/MSD RPD for compound TPHGAK C6 to C10 was greater than the control limit in sample MW-4-W-200727 and qualified as estimated (J).

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The MS/MSD recovery and RPD exceedances was observed in sample MW-4-W-200727 and qualified as estimated.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes☒ No☐ N/A☐ Comments:

Yes.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The MS/MSD recoveries are considered minor and would result in the estimation of associated data. The reported data should still consider as usable.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes☒ No☐ N/A☐ Comments:

Yes.

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes☒ No☐ N/A☐ Comments:

Yes.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes☐ No☒ N/A☐ Comments:

None of the data qualified.

iv. Data quality or usability affected?

Comments:

Data quality/usability was not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes☒ No☐ N/A☐ Comments:

Trip blank sample was collected as TRIP BLANK-200728.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes☒ No☐ N/A☐ Comments:

Yes.

iii. All results less than LOQ and project specified objectives?

Yes☒ No☐ N/A☐ Comments:

Yes.

iv. If above LOQ or project specified objectives, what samples are affected?

Comments:

None of the samples were affected.

v. Data quality or usability affected?

Comments:

Data quality/usability was not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes☒ No☐ N/A☐ Comments:

Yes.

ii. Submitted blind to lab?

Yes☒ No☐ N/A☐ Comments:

Field duplicate BD-1-W-200727 and BD-1-W-200728 were collected from samples MW-2-W-200727 and MW-3-W-200728 respectively.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

Yes☐ No☒ N/A☐ Comments:

Method SW846 8260D: The RPD between the parent MW-3-W-200728 and duplicate sample BD-1-W-200728 for compound 1,2,4-trimethylbenzene exceeded the control limit and qualified as estimated (J).

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The field duplicate RPD exceedance considered as minor and would result in the estimation of the associated data. The reported data should still consider as usable.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes☒ No☐ N/A☐ Comments:

Equipment blank sample was collected as EQB-1-W-200727.

i. All results less than LOQ and project specified objectives?

Yes☒ No☐ N/A☐ Comments:

Yes.

ii. If above LOQ or project specified objectives, what samples are affected?

Comments:

None of the samples were affected.

iii. Data quality or usability affected?

Comments:

Data quality/usability was not affected.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes☒ No☐ N/A☐ Comments:

Yes.