Arcadis U.S., Inc.
111 SW Columbia Street
Suite 670
Portland
Oregon 97201
Tel 503.220.8201
www.arcadis-us.com

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 Fourth Quarter Groundwater Monitoring Report

Date:
December 18, 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 Fourth Quarter Groundwater Monitoring Report* for the fourth 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 FOURTH QUARTER GROUNDWATER MONITORING REPORT

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

December 18 2020

2020 FOURTH 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:
Arcadis U.S., Inc.
111 SW Columbia Street
Suite 670
Portland
Oregon 97201
Tel 503.220.8201
www.Arcadis.com

Our Ref.:
30045460

Date:
December 18, 2020

CONTENT

TABLES

FIGURES

APPENDICES

GROUNDWATER MONITORING STATUS REPORT
FOURTH QUARTER 2020
December 18, 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 [Fourth Quarter 2020]:

1. Conducted quarterly groundwater monitoring activities on October 19, 2020.
2. Prepared the *2020 Fourth Quarter Groundwater Monitoring Report*.

WORK PROPOSED NEXT PERIOD [First Quarter 2021]:

1. Conduct quarterly groundwater monitoring activities in the First Quarter of 2021.
2. Prepare the *2021 First 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:	5.04 to 8.55	(feet below top of casing)
Approximate Groundwater Elevation:	102.10 to 103.44	(feet relative to NAVD88)
Groundwater Flow Direction	Southwest	
Groundwater Gradient	0.005	(feet per foot)

Current Remediation Techniques:	None
Permits for Discharge:	None
Summary of Unusual Activity:	Monitoring Well MW-5 was unable to be located due to snow and ice. Monitoring well MW-9R was unable to be accessed due to a lack of an access agreement for the associated property.
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 fourth 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 fourth quarter groundwater sampling event was conducted on October 19, 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 fourth quarter 2020 sampling event, monitoring wells MW-1 through MW-4, MW-6, MW-7, MW-8 and MW-10 were scheduled to be gauged for groundwater elevations and the presence of LNAPL. Monitoring well MW-5 was unable to be located due to snow and ice. 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 fourth 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 fourth quarter groundwater monitoring event was conducted on October 19, 2020. Groundwater samples were collected from monitoring wells MW-8 and MW-10. 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-8 and MW-10 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

A groundwater duplicate sample was collected from monitoring well MW-10. The duplicate sample was analyzed for TPH-g, TPH-d, and full scan VOCs. The duplicate sample was 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 fourth 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 are summarized in Table 3. Historical analytical results for additional constituents analyzed by USEPA method 8260D are summarized in Tables 4a, b, c, and d.

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 fourth 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 and laboratory control sample duplicate (LCS/LCSD) and field duplicate were within the control limits.

The RPD between matrix spike and matrix spike duplicate (MS/MSD) exceedance observed for TPH-g in sample location MW-8 and the result was 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 location MW-8. The MS/MSD recovery exceedances were observed for m&p-xylene and toluene. These compounds were qualified as estimated in sample location MW-8.

The LCS recovery exceedance observed for compound 1,1,2-trichlorotrifluoroethane. The 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 laboratory results are presented in the same units as previous reports to allow comparison. The target compounds were not detected in an equipment and trip blank with below exceptions:

Carbon disulfide, n-butylbenzene, and p-isopropyltoluene were detected below the reporting limit in the method blank. Based on blank evaluation, the sample results for MW-8, MW-10, the blind duplicate, the trip blank, and the equipment blank were qualified as non-detect.

Carbon disulfide was detected below the reporting limit in the trip blank and equipment blank. Based on blank evaluation, the sample results for MW-8, MW-10, and the blind duplicate was qualified as non-detect.

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

Benzene concentrations was exceeded the ADEC groundwater cleanup levels in sample location MW-8.

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 fourth quarter 2020 event indicate the groundwater flow direction, southwest, is generally consistent with historical data.

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

Groundwater monitoring will continue in accordance with the current quarterly schedule. The first quarterly sampling event will be conducted in March of 2021.

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 (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	10/19/2020	110.63	NAVD 88	7.48	0.00	103.15	--	--	--	--	--	--	--	--	--	--	
MW-2	10/19/2020	111.09	NAVD 88	8.30	0.00	102.79	--	--	--	--	--	--	--	--	--	--	
MW-3	10/19/2020	111.44	NAVD 88	8.55	0.00	102.89	--	--	--	--	--	--	--	--	--	--	
MW-4	10/19/2020	108.88	NAVD 88	6.18	0.00	102.70	--	--	--	--	--	--	--	--	--	--	
MW-5	10/19/2020	108.76	NAVD 88	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate - snow and ice
MW-6	10/19/2020	111.16	NAVD 88	7.72	0.00	103.44	--	--	--	--	--	--	--	--	--	--	
MW-7	10/19/2020	107.35	NAVD 88	5.04	0.00	102.31	--	--	--	--	--	--	--	--	--	--	
MW-8	10/19/2020	108.70	NAVD 88	6.60	0.00	102.10	**0.535 J**	**0.524 J**	**0.0434**	**0.00213 J**	**0.0127**	**0.0357**	<0.00100	***<0.000125***	<0.00100	***<0.00500***	
MW-9R	10/19/2020	108.08	NAVD 88	--	--	--	--	--	--	--	--	--	--	--	--	--	No access agreement
MW-10	10/19/2020	109.17	NAVD 88	6.95	0.00	102.22	**0.919 [0.965]**	<0.100 [<0.100]	<0.00100 **[0.000916 J]**	<0.00100 [<0.00100]	<0.00100 **[0.000437 J]**	<0.00300 [<0.00300]	<0.00100 [<0.00100]	<0.00000500 [<0.00000500]	<0.00100 [<0.00100]	***<0.00500 [<0.00500]***	
QA (EQB)	10/19/2020	--	--	--	--	--	<0.800	<0.100	<0.00100	<0.00100	<0.00100	<0.00300	<0.00100	<0.00000500	<0.00100	***<0.00500***	
QA (TB)	10/19/2020	--	--	--	--	--	--	<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.

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 / Sample Date	MW-8 10/19/2020	MW-10 10/19/2020	QA (EQB) 10/19/2020	QA (TB) 10/19/2020
1,1,1-Trichloroethane	**8**	mg/L	<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***
1,1,2-Trichloroethane	**0.00041**	mg/L	***<0.00100 [<0.00100]***	***<0.00100***	***<0.00100***	***<0.00100***
1,1,2-Trichlorotrifluoroethane (Freon 113)	**10**	mg/L	<0.00100 J [<0.00100 J]	<0.00100 J	<0.00100 J	<0.00100 J
1,1-Dichloroethane	**0.028**	mg/L	<0.00100 **[0.000320 J]**	**0.000278 J**	<0.00100	<0.00100
1,1-Dichloroethene (Dichloroethylene)	**0.28**	mg/L	<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
1,2,4-Trichlorobenzene	**0.004**	mg/L	<0.00100 [<0.00100]	<0.00100	<0.00100	<0.00100
1,2,4-Trimethylbenzene	**0.056**	mg/L	**0.025** [<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	<0.00100
1,2-Dichloropropane	**0.0082**	mg/L	<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
1,4-Dichlorobenzene	**0.0048**	mg/L	<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
4-Methyl-2-pentanone	**6.3**	mg/L	<0.0100 [<0.0100]	<0.0100	<0.0100	<0.0100
Acetone	**14**	mg/L	<0.0500 [<0.0500]	<0.0500	<0.0500	<0.0500
Bromochloromethane	**--**	mg/L	<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
Bromoform	**0.033**	mg/L	<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
Carbon Disulfide	**0.81**	mg/L	<0.00100 B [<0.00100 B]	<0.000362 B	<0.00100 B	<0.00100 B
Carbon Tetrachloride	**0.0046**	mg/L	<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
Chloroethane	**--**	mg/L	<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***
Chloromethane (Methyl chloride)	**0.19**	mg/L	<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
cis-1,3-Dichloropropene	**0.0047**	mg/L	<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
Dichlorodifluoromethane (Freon 12)	**0.2**	mg/L	**0.00257 J [0.0142]**	**0.0114**	<0.00500	<0.00500
Isopropylbenzene	**--**	mg/L	**0.00757 [0.000151 J]**	**0.00157**	<0.00100	<0.00100
Methylene chloride (Dichloromethane)	**0.1**	mg/L	<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
Tetrachloroethene	**0.041**	mg/L	<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
trans-1,3-Dichloropropene	**0.0047**	mg/L	<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
Trichlorofluoromethane (Freon 11)	**5.2**	mg/L	<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***

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 *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.
B = Compound considered non-detect at the listed value due to associated blank contamination.
QA (TB) = Quality Assurance (Trip Blank)
QA (EB) = Quality Assurance (Equipment Blank)
[ ] = Duplicate Result
Constituents analyzed by United States Environemntal Proteection Agency Method 8260D

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	--	--	--	

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	11/10/2017	110.54	6.74	--	103.80	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
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-1	10/19/2020	110.63	7.48	0.00	103.15	--	--	--	--	--	--	--	--	--	--	--	
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	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

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	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	**--**	**--**	**--**	**--**	
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-2	10/19/2020	111.09	8.30	0.00	102.79	--	--	--	--	--	--	--	--	--	--	--	
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	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

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	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**	--	--	--	--	
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	10/19/2020	111.44	8.55	0.00	102.89	--	--	--	--	--	--	--	--	--	--	--	
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	--	--	--	--	

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	12/21/2010	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	**--**	**--**	**--**	**--**	
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-4	10/19/2020	108.88	6.18	0.00	102.70	--	--	--	--	--	--	--	--	--	--	--	
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**	**--**	**--**	**--**	**--**	

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	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	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
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-5	10/19/2020	108.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate - snow and ice
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	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

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	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	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
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-6	10/19/2020	111.16	7.72	0.00	103.44	--	--	--	--	--	--	--	--	--	--	--	
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	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

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	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
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-7	10/19/2020	107.35	5.04	0.00	102.31	--	--	--	--	--	--	--	--	--	--	--	
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	--	--	--	

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	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	**--**	**--**	**--**	
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]	**--**	**--**	**--**	

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	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]	**0.00111 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***	
MW-8	10/19/2020	108.70	6.60	0.00	102.10	**0.535 J**	**0.524 J**	--	**0.0434**	**0.00213 J**	**0.0127**	**0.0357**	<0.00100	***<0.000125***	<0.00100	***<0.00500***	
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	03/22/2010	107.58	6.69	--	100.89	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-9R	03/25/2010	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	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

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	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	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
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-9R	10/19/2020	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	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	--	**--**	

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	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	**--**	--	--	**--**	
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
MW-10	10/19/2020	109.17	6.95	0.00	102.22	**0.919 [0.965]**	<0.100 [<0.100]	--	<0.00100 **[0.000916 J]**	<0.00100 [<0.00100]	<0.00100 **[0.000437 J]**	<0.00300 [<0.00300]	<0.00100 [<0.00100]	<0.00000500 [<0.00000500]	<0.00100 [<0.00100]	***<0.00500 [<0.00500]***	
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-1	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
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-2	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
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-3	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
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
SP-4	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
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 (EQB)	10/19/2020	--	--	--	--	<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	**--**	**--**	**--**	

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)	9/23/2006	--	--	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	**--**	**--**	**--**	**--**	
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***	
QA (TB)	10/19/2020	--	--	--	--	--	<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 4a. Historical Groundwater Analytical Results - Additional VOCs
Second Quarter 2020 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	1,2,4-Trimethylbenzene mg/L	1,1-Dichloroethane mg/L	4-Methyl-2-pentanone mg/L	Dichlorodifluoromethane (Freon 12) mg/L	Isopropylbenzene mg/L	Trichlorofluoromethane (Freon 11) mg/L	1,1,2,2-Tetrachloroethane mg/L	1,1,2-Trichloroethane mg/L	Chloroform mg/L	Vinyl chloride (Chloroethene) mg/L	1,1,1-Trichloroethane mg/L	1,1,2-Trichlorotrifluoroethane (Freon 113) mg/L	Comments
ADEC Groundwater Cleanup Levels		**0.056**	**0.028**	**6.3**	**0.2**	**--**	**5.2**	**0.00076**	**0.00041**	**0.0022**	**0.00019**	**8**	**10**	
MW-1	4/29/2020	**0.00444**	<0.00100	<0.0100	**0.00101 J**	**0.000735 J**	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
MW-1	7/27/2020	**0.00604**	<0.00100	<0.0100	**0.000959**	**0.00111**	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
MW-1	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	7/27/2020	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.0100 [<0.0100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<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]	
MW-2	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	7/28/2020	**0.323 J [0.107 J]**	<0.00100 [<0.00100]	**0.00128 J [0.00127 J]**	<0.00500 [<0.00500]	**0.0174 [0.0172]**	<0.00500 **[0.00390 J]**	***<0.00100 [<0.00100]***	***<0.00100 [<0.00100]***	***<0.00500 [<0.00500]***	***<0.00100 [<0.00100]***	<0.00100 [<0.00100]	<0.00100 [<0.00100]	
MW-3	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	7/27/2020	<0.00100	<0.00100	<0.0100	**0.000900 J**	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
MW-4	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	7/28/2020	**0.025**	<0.00100	<0.0100	<0.00500	**0.00123**	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
MW-5	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	7/27/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
MW-6	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	7/28/2020	**0.16**	<0.00100	<0.0100	<0.00500	**0.0355**	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
MW-7	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	3/25/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
MW-8	4/29/2020	**0.0550 [0.0547]**	<0.00100 [<0.00100]	<0.0100 [<0.0100]	**0.000704 J** [<0.00500]	**0.00491 [0.00485]**	<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]	
MW-8	7/28/2020	**0.0368**	<0.00100	<0.0100	**0.00147**	**0.00732**	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
MW-8	10/19/2020	**0.025** [<0.00100]	<0.00100 **[0.000320 J]**	<0.0100 [<0.0100]	**0.00257 J [0.0142]**	**0.00757 [0.000151 J]**	<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 J [<0.00100 J]	
MW-10	3/25/2020	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.0100 [<0.0100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<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]	
MW-10	4/29/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
MW-10	7/28/2020	<0.00100	**0.000316 J**	<0.0100	**0.00952**	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
MW-10	10/19/2020	<0.00100	**0.000278 J**	<0.0100	**0.0114**	**0.00157**	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100 J	
SP-1	4/29/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
SP-1	7/28/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
SP-1	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
SP-2	4/29/2020	**0.00239**	<0.00100	<0.0100	**0.00509**	**0.000162 J**	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
SP-2	7/28/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
SP-2	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
SP-3	4/29/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
SP-3	7/28/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
SP-3	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
SP-4	4/29/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
SP-4	7/28/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
SP-4	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
QA (EQB)	3/25/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	**0.000583 J**	***<0.00100***	<0.00100	<0.00100	
QA (EQB)	4/29/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
QA (EQB)	7/27/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
QA (EQB)	10/19/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100 J	
QA (TB)	3/25/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
QA (TB)	4/29/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
QA (TB)	7/28/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100	
QA (TB)	10/19/2020	<0.00100	<0.00100	<0.0100	<0.00500	<0.00100	<0.00500	***<0.00100***	***<0.00100***	***<0.00500***	***<0.00100***	<0.00100	<0.00100 J	

Table 4a. Historical Groundwater Analytical Results - Additional VOCs
Second Quarter 2020 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	1,2,4-Trimethylbenzene mg/L	1,1-Dichloroethane mg/L	4-Methyl-2-pentanone mg/L	Dichlorodifluoromethane (Freon 12) mg/L	Isopropylbenzene mg/L	Trichlorofluoromethane (Freon 11) mg/L	1,1,2,2-Tetrachloroethane mg/L	1,1,2-Trichloroethane mg/L	Chloroform mg/L	Vinyl chloride (Chloroethene) mg/L	1,1,1-Trichloroethane mg/L	1,1,2-Trichlorotrifluoroethane (Freon 113) mg/L	Comments
ADEC Groundwater Cleanup Levels		**0.056**	**0.028**	**6.3**	**0.2**	**--**	**5.2**	**0.00076**	**0.00041**	**0.0022**	**0.00019**	**8**	**10**	

Notes:
ID = Identification
MW = Groundwater monitoring well
mg/L = Milligrams per liter
<0.00100 = Not detected at or above the Reported Detection Limit
Bold = Detected above laboratory 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.
[ ] = Blind Duplicate Sample Result
ADEC = Alaska Department of Environmental Conservation
Constituents analyzed by United States Environmental Protection Agency Method 8260D

Table 4b. Historical Groundwater Analytical Results - Additional VOCs
Second Quarter 2020 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	1,1-Dichloroethene (Dichloroethylene) mg/L	1,2,3-Trichlorobenzene mg/L	1,2,4-Trichlorobenzene mg/L	1,2-Dichlorobenzene (o-Dichlorobenzene) mg/L	1,2-Dichloropropane mg/L	1,3-Dichlorobenzene mg/L	1,4-Dichlorobenzene mg/L	2-Butanone (Methyl ethyl ketone) mg/L	Acetone mg/L	Bromochloromethane mg/L	Bromodichloromethane mg/L	Bromoform mg/L	Comments
ADEC Groundwater Cleanup Levels		**0.28**	**0.007**	**0.004**	**0.3**	**0.0082**	**0.0047**	**0.0048**	**--**	**14**	**--**	**0.0013**	**0.033**	
MW-1	4/29/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<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	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	
MW-1	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
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]	<0.0100 [<0.0100]	<0.0500 [<0.0500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	
MW-2	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
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]	<0.0100 [<0.0100]	<0.0500 [<0.0500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	
MW-3	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	7/27/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	
MW-4	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	7/28/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	
MW-5	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	7/27/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	
MW-6	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	7/28/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	
MW-7	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	3/25/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<0.00500	<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]	<0.0100 [<0.0100]	<0.0500 [<0.0500]	<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	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	
MW-8	10/19/2020	<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]	<0.0100 [<0.0100]	<0.0500 [<0.0500]	<0.00100 [<0.00100]	<0.00100 [<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]	<0.0100 [<0.0100]	<0.0500 [<0.0500]	<0.00500 [<0.00500]	<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	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	
MW-10	7/28/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	
MW-10	10/19/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<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	<0.0100	<0.0500	<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	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	
SP-1	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
SP-2	4/29/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<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	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	
SP-2	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
SP-3	4/29/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<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	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	
SP-3	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
SP-4	4/29/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<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	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	
SP-4	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
QA (EQB)	3/25/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<0.00500	<0.00100	<0.00100	
QA (EQB)	4/29/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<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	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	
QA (EQB)	10/19/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<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	<0.0100	<0.0500	<0.00500	<0.00100	<0.00100	
QA (TB)	4/29/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<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	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	
QA (TB)	10/19/2020	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.0500	<0.00100	<0.00100	<0.00100	

Table 4b. Historical Groundwater Analytical Results - Additional VOCs
Second Quarter 2020 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	1,1-Dichloroethene (Dichloroethylene) mg/L	1,2,3-Trichlorobenzene mg/L	1,2,4-Trichlorobenzene mg/L	1,2-Dichlorobenzene (o-Dichlorobenzene) mg/L	1,2-Dichloropropane mg/L	1,3-Dichlorobenzene mg/L	1,4-Dichlorobenzene mg/L	2-Butanone (Methyl ethyl ketone) mg/L	Acetone mg/L	Bromochloromethane mg/L	Bromodichloromethane mg/L	Bromoform mg/L	Comments
ADEC Groundwater Cleanup Levels		**0.28**	**0.007**	**0.004**	**0.3**	**0.0082**	**0.0047**	**0.0048**	**--**	**14**	**--**	**0.0013**	**0.033**	

Notes:
ID = Identification
MW = Groundwater monitoring well
mg/L = Milligrams per liter
<0.00100 = Not detected at or above the Reported Detection Limit
[ ] = Blind Duplicate Sample Result
ADEC = Alaska Department of Environmental Conservation
Constituents analyzed by United States Environmental Protection Agency Method 8260D

Table 4c. Historical Groundwater Analytical Results - Additional VOCs
Second Quarter 2020 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	Bromomethane (Methyl bromide) mg/L	Carbon Disulfide mg/L	Carbon Tetrachloride mg/L	Chlorobenzene mg/L	Chloroethane mg/L	Chloromethane (Methyl chloride) mg/L	cis-1,2-Dichloroethene mg/L	cis-1,3-Dichloropropene mg/L	Dibromochloromethane mg/L	Methylene chloride (Dichloromethane) mg/L	Styrene mg/L	Tetrachloroethene mg/L	Comments
ADEC Groundwater Cleanup Levels		**0.0075**	**0.81**	**0.0046**	**0.078**	**--**	**0.19**	**0.036**	**0.0047**	**0.0087**	**0.1**	**1.2**	**0.041**	
MW-1	4/29/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
MW-1	7/27/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
MW-1	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	7/27/2020	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00250 [<0.00250]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	
MW-2	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	7/28/2020	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00250 [<0.00250]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	
MW-3	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	7/27/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
MW-4	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	7/28/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
MW-5	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	7/27/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
MW-6	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	7/28/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
MW-7	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	3/25/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
MW-8	4/29/2020	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00250 [<0.00250]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	
MW-8	7/27/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
MW-8	10/19/2020	<0.00500 [<0.00500]	0.00100 B [<0.00100 B	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00250 [<0.00250]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	
MW-10	3/25/2020	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00250 [<0.00250]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00500 [<0.00500]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	
MW-10	4/29/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
MW-10	7/28/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
MW-10	10/19/2020	<0.00500	<0.000362 B	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
SP-1	4/29/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
SP-1	7/28/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
SP-1	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
SP-2	4/29/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
SP-2	7/28/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
SP-2	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
SP-3	4/29/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
SP-3	7/28/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
SP-3	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
SP-4	4/29/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
SP-4	7/28/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
SP-4	10/19/2020	--	--	--	--	--	--	--	--	--	--	--	--	
QA (EQB)	3/25/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
QA (EQB)	4/29/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
QA (EQB)	7/27/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
QA (EQB)	10/19/2020	<0.00500	<0.00100 B	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
QA (TB)	3/25/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
QA (TB)	4/29/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
QA (TB)	7/28/2020	<0.00500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	
QA (TB)	10/19/2020	<0.00500	<0.00100 B	<0.00100	<0.00100	<0.00500	<0.00250	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	

Table 4c. Historical Groundwater Analytical Results - Additional VOCs
Second Quarter 2020 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

Well ID	Sample Date	Bromomethane (Methyl bromide) mg/L	Carbon Disulfide mg/L	Carbon Tetrachloride mg/L	Chlorobenzene mg/L	Chloroethane mg/L	Chloromethane (Methyl chloride) mg/L	cis-1,2-Dichloroethene mg/L	cis-1,3-Dichloropropene mg/L	Dibromochloromethane mg/L	Methylene chloride (Dichloromethane) mg/L	Styrene mg/L	Tetrachloroethene mg/L	Comments
ADEC Groundwater Cleanup Levels		**0.0075**	**0.81**	**0.0046**	**0.078**	**--**	**0.19**	**0.036**	**0.0047**	**0.0087**	**0.1**	**1.2**	**0.041**	

Notes:
ID = Identification
MW = Groundwater monitoring well
mg/L = Milligrams per liter
<0.00100 = Not detected at or above the Reported Detection Limit
B = Compound considered non-detect at the listed value due to associated blank contamination
[ ] = Blind Duplicate Sample Result
ADEC = Alaska Department of Environmental Conservation
Constituents analyzed by United States Environmental Protection Agency Method 8260D

Table 4d. Historical Groundwater Analytical Results - Additional VOCs
Second Quarter 2020 to Current
Chevron-Branded Service Station 95414
5210 Old Seward Highway
Anchorage, Alaska

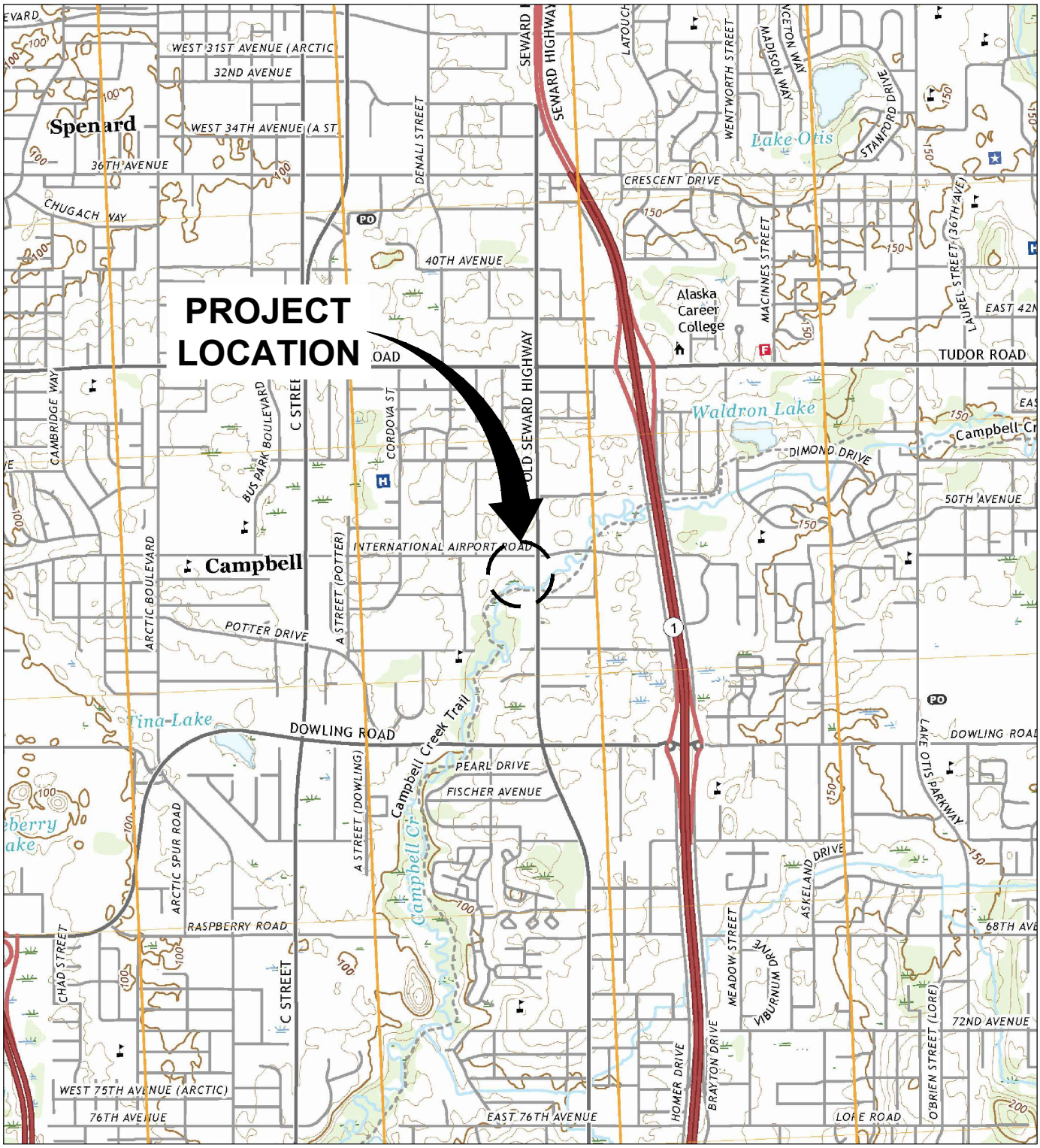
Well ID	Sample Date	trans-1,2-Dichloroethene mg/L	trans-1,3-Dichloropropene mg/L	Trichloroethene (Trichloroethylene) mg/L	Comments
ADEC Groundwater Cleanup Levels		**0.36**	**0.0047**	**0.0028**	
MW-1	4/29/2020	<0.00100	<0.00100	<0.00100	
MW-1	7/27/2020	<0.00100	<0.00100	<0.00100	
MW-1	10/19/2020	--	--	**--**	
MW-2	7/27/2020	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	
MW-2	10/19/2020	--	--	**--**	
MW-3	7/28/2020	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	
MW-3	10/19/2020	--	--	**--**	
MW-4	7/27/2020	<0.00100	<0.00100	<0.00100	
MW-4	10/19/2020	--	--	**--**	
MW-5	7/28/2020	<0.00100	<0.00100	<0.00100	
MW-5	10/19/2020	--	--	**--**	
MW-6	7/27/2020	<0.00100	<0.00100	<0.00100	
MW-6	10/19/2020	--	--	**--**	
MW-7	7/28/2020	<0.00100	<0.00100	<0.00100	
MW-7	10/19/2020	--	--	**--**	
MW-8	3/25/2020	<0.00100	<0.00100	<0.00100	
MW-8	4/29/2020	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	
MW-8	7/27/2020	<0.00100	<0.00100	<0.00100	
MW-8	10/19/2020	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	
MW-10	3/25/2020	<0.00100 [<0.00100]	<0.00100 [<0.00100]	<0.00100 [<0.00100]	
MW-10	4/29/2020	<0.00100	<0.00100	<0.00100	
MW-10	7/28/2020	<0.00100	<0.00100	<0.00100	
MW-10	10/19/2020	<0.00100	<0.00100	<0.00100	
SP-1	4/29/2020	<0.00100	<0.00100	<0.00100	
SP-1	7/28/2020	<0.00100	<0.00100	<0.00100	
SP-1	10/19/2020	--	--	**--**	
SP-2	4/29/2020	<0.00100	<0.00100	<0.00100	
SP-2	7/28/2020	<0.00100	<0.00100	<0.00100	
SP-2	10/19/2020	--	--	**--**	
SP-3	4/29/2020	<0.00100	<0.00100	<0.00100	
SP-3	7/28/2020	<0.00100	<0.00100	<0.00100	

SP-3	10/19/2020	--	--	**--**
SP-4	4/29/2020	<0.00100	<0.00100	<0.00100
SP-4	7/28/2020	<0.00100	<0.00100	<0.00100
SP-4	10/19/2020	--	--	**--**
QA (EQB)	3/25/2020	<0.00100	<0.00100	<0.00100
QA (EQB)	4/29/2020	<0.00100	<0.00100	<0.00100
QA (EQB)	7/27/2020	<0.00100	<0.00100	<0.00100
QA (EQB)	10/19/2020	<0.00100	<0.00100	<0.00100
QA (TB)	3/25/2020	<0.00100	<0.00100	<0.00100
QA (TB)	4/29/2020	<0.00100	<0.00100	<0.00100
QA (TB)	7/28/2020	<0.00100	<0.00100	<0.00100
QA (TB)	10/19/2020	<0.00100	<0.00100	<0.00100

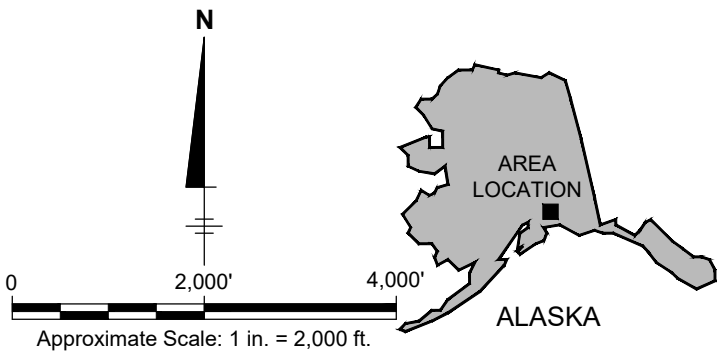
Notes:

ID = Identification
MW = Groundwater monitoring well
mg/L = Milligrams per liter
<0.00100 = Not detected at or above the Reported Detection Limit
[ ] = Blind Duplicate Sample Result
ADEC = Alaska Department of Environmental Conservation
Constituents analyzed by United States Environmental Protection Agency Method 8260D

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

N

CAR LOT

CONC.

10' SEWER EASEMENT

PUBLIC USE EASEMENT

MW-1

AGEN'S AUTOMOTIVE

FORMER SEPTIC UST

MW-2

FORMER DISPENSER ISLAND

FORMER STATION BUILDING

MW-3

FORMER USED OIL UST

MW-4

MW-5

MW-7

FORMER USTS

MW-6

FORMER DISPENSER ISLAND

MW-8

FORMER SIGN

MW-9

OLD SEWARD HIGHWAY

INTERNATIONAL AIRPORT ROAD

FORMER DISPENSER ISLAND

MW-6

SIGN

LANDSCAPE

CHEVRON STATION 95414

BUILDING

ASPHALT

FORMER GASOLINE UST BASIN

USTs

EXISTING USTs

MW-10

LID (TYPICAL)

CANOPY

MW-5

MW-3

20' UTILITY & DRAINAGE EASEMENT

10' UTILITY & DRAINAGE EASEMENT

EXISTING GASOLINE DISPENSERS

FORMER DISPENSER ISLAND

SIGN

TRACT 2C

TRACT 7

WALK

BUILDING

ASPHALT

MW-1

FORMER DIESEL DISPENSER

FORMER USED OIL USTS

ASPHALT

20' UTILITY EASEMENT

10' SANITARY SEWER EASEMENT

24" PIPE ENDS

10' UTILITY EASEMENT

MW-7

S/C

LANDSCAPE

MW-2

BLOCK RETAINING WALL

PROPANE TANK

MW-4

ASPHALT DRIVE

TRACT 6

MW-10

MW-8

OBSERVATION DECK

MW-9R

24" PIPE

36" PIPE

ARCTIC ROAD RUNNER RESTAURANT

CULVERT 1 (APPROX.)

CULVERTS 2 & 3

SP-8

SP-2

LOT 38

SP-4

SP-3

CAMPBELL CREEK

SP-1

OLD SEWARD HIGHWAY

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

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.

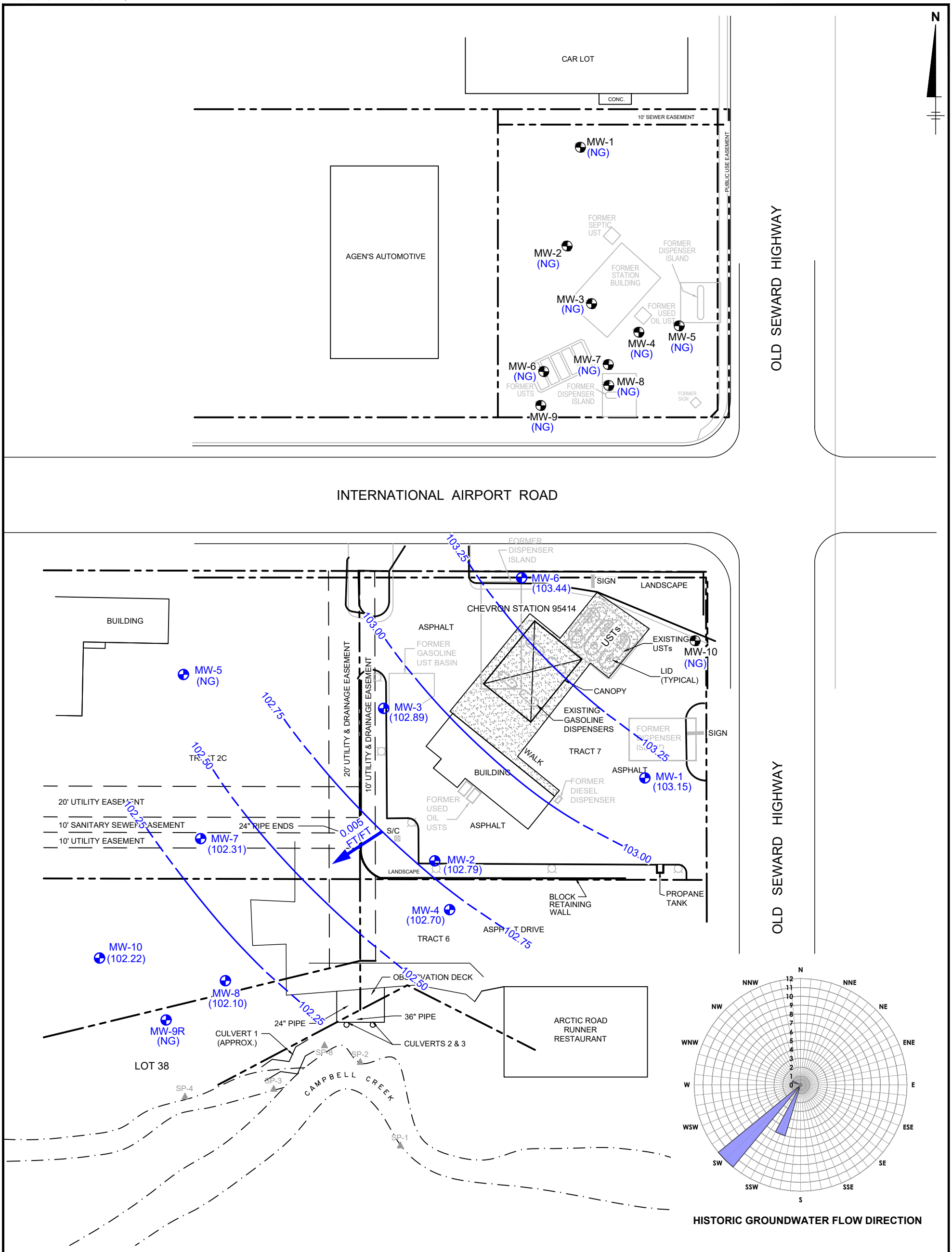
CHEVRON SERVICE STATION 95414
5210 OLD SEWARD HIGHWAY,
ANCHORAGE, ALASKA

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\machchir1256\BIM 360\Arcadis\ANA - CHEVRON CORPORATION\Project Files\ASR 95414 ALASKA\2020\30045460.5230.GEC\01-DWG\4Q2020-FIG03-GWECM.dwg LAYOUT: 3 SAVED: 12/2/2020 4:09 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 12/2/2020 4:10 PM BY: MACHCHIWAR, RAVANEELA



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
(103.44)	GROUNDWATER ELEVATION IN FEET RELATIVE TO NAVD88
103.25	GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
	APPROXIMATE GROUNDWATER FLOW DIRECTION
0.005 FT/FT	APPROXIMATE HYDRAULIC GRADIENT (FEET/FOOT)
(NG)	NOT GAUGED
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988

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 OCTOBER 19, 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\machchir1256\BIM 360\Arcadis\ANA - CHEVRON CORPORATION\Project Files\ASR 95414 ALASKA\2020\30045460.5230.GEC\01-DWG\4Q2020-FIG04-GWAM.dwg LAYOUT: 4 SAVED: 11/30/2020 2:55 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 11/30/2020 2:56 PM BY: MACHCHIWAR, RAVANEELA

N

CAR LOT

CONC.

10' SEWER EASEMENT

PUBLIC USE EASEMENT

MW-1

AGEN'S AUTOMOTIVE

FORMER SEPTIC UST

MW-2

FORMER DISPENSER ISLAND

FORMER STATION BUILDING

MW-3

FORMER USED OIL UST

MW-4

MW-5

MW-7

MW-6

FORMER USTS

FORMER DISPENSER ISLAND

MW-8

FORMER SIGN

MW-9

OLD SEWARD HIGHWAY

INTERNATIONAL AIRPORT ROAD

MW-10	
Sample Date	10/19/2020
TPH-d	**0.919 [0.965]**
TPH-g	<0.100 [<0.100]
Benzene	<0.00100 **[0.000916 J]**
Toluene	<0.00100 [<0.00100]
Ethylbenzene	<0.00100 **[0.000437 J]**
Total Xylenes	<0.00300 [<0.00300]
MTBE	<0.00100 [<0.00100]
EDB	<0.00000500 [<0.00000500]
EDC	<0.00100 [<0.00100]
Naphthalene	***<0.00500 [<0.00500]***

MW-8	
Sample Date	10/19/2020
TPH-d	**0.535 J**
TPH-g	**0.524 J**
Benzene	**0.0434**
Toluene	**0.00213 J**
Ethylbenzene	**0.0127**
Total Xylenes	**0.0357**
MTBE	<0.00100
EDB	***<0.000125***
EDC	<0.00100
Naphthalene	***<0.00500***

FORMER DISPENSER ISLAND

MW-6

SIGN

LANDSCAPE

CHEVRON STATION 95414

ASPHALT

FORMER GASOLINE UST BASIN

USTs

MW-10

EXISTING USTs

LID (TYPICAL)

CANOPY

MW-5

MW-3

EXISTING GASOLINE DISPENSERS

20' UTILITY & DRAINAGE EASEMENT

10' UTILITY & DRAINAGE EASEMENT

TRACT 2C

TRACT 7

FORMER DISPENSER ISLAND

SIGN

WALK

BUILDING

ASPHALT

MW-1

FORMER DIESEL DISPENSER

20' UTILITY EASEMENT

10' SANITARY SEWER EASEMENT

10' UTILITY EASEMENT

24" PIPE ENDS

FORMER USED OIL USTS

S/C

ASPHALT

MW-7

MW-2

LANDSCAPE

BLOCK RETAINING WALL

PROPANE TANK

MW-4

TRACT 6

ASPHALT DRIVE

MW-10

OBSERVATION DECK

MW-8

MW-9R (NS)

24" PIPE

36" PIPE

CULVERT 1 (APPROX.)

ARCTIC ROAD RUNNER RESTAURANT

SP-8

CULVERTS 2 & 3

LOT 38

SP-2

SP-4

SP-3

CAMPBELL CREEK

SP-1

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 OCTOBER 19, 2020

ARCADIS Design & Consultancy for natural and built assets

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: Water Quality Meter (i.e. YSI), Water Level Meter (WLM), Bladder Pump, Photoionization Detector (PID)

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

Date	Time	Description of Activities
10/19/2020	09:00	Arrived on site Open permit to work Locate all wells Unable to locate MW5
10/19/2020	10:00	Sample MW 10 for GRO, DRO, VOC Put samples in cooler Decon equipment Blind duplicate samples collected at this location
10/19/2020	11:00	Sample MW 8 for GRO, DRO, VOC Put samples in cooler Decon equipment MS/MSD samples collected at this location
10/19/2020	12:00	Gauge wells
10/19/2020	12:30	Load vehicle Close permit to work Mobilize offsite

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
10/19/2020	no					no				

Equipment and Calibration Information:

Supplier: Pine
Rental Number:
Bump Checked:
Model:
Calibrated:
Calibration Passed:

Water Quality Meter SN:

Date	Time	Calibrated Fulid and Value	Lot #	Expiration Date	Initial Reading	Final Reading

Daily Log

10/19/2020						

Equipment and Calibration Information:

Supplier: Pine

Model:

Rental Number:

Calibrated:

Bump Checked:

Calibration Passed:

PIDSN:

Date	Time	Calibrated Fulid and Value	Lot #	Expiration Date	Initial Reading	Final Reading
10/19/2020	--					

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Chevron
Site ID:	95414
Site Location:	5210 Old Seward Highway, Anchorage, AK 99501
Measuring Point:	Top of Casing
Date(s):	10/19/2020
Sampler(s):	Evan Wujcik
Gauging Equipment:	water level meter

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	10/19/2020	11:24	7.48	ND	13.70	0	--
MW-2	10/19/2020	10:43	8.3	ND	16.30	0	--
MW-3	10/19/2020	10:46	8.55	ND	18.30	0	--
MW-4	10/19/2020	10:40	6.18	ND	18.00	0	--
MW-6	10/19/2020	11:20	7.72	ND	16.40	0	--
MW-7	10/19/2020	11:31	5.04	ND	11.70	0	--
MW-8	10/19/2020	10:04	6.6	ND	12.20	0	--
MW-10	10/19/2020	09:27	6.95	ND	11.90	0	--

ft-bmp = feet below measuring point ND = Not Detected PID = Photoionization Detector Reading

ppmv = parts per million volume -- = Not Recorded

Chevron Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30043260	**Well ID**	MW-10	**Date**		10/19/2020	
Site Location	5210 Old Seward Highway, Anchorage, AK 99501	**Site ID**	95414	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6.95	**Total Depth (ft-bmp)**	11.9	**Water Column (ft)**	4.95	**Gallons in Well**	0.8
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Sample Method**			Low-Flow
Sample Time	10:00	**Volumes Purged**	0.99	**Sample ID**	MW-10-W-201019	**Evacuation Equipment**	Bladder
Purge Start	09:30	**Gallons Purged**	0.79	**Duplicate ID**	BD-1-W-201019		
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	200	6.95	600	--	6.42	0.472	62.0	22.89	8.02	22	Clear	None
09:36	200	6.95	1200	--	6.37	0.469	41.5	18.70	7.83	23	Gray	None
09:39	200	6.95	1800	--	6.28	0.473	26.7	12.35	7.77	20	Clear	None
09:42	200	6.95	2400	--	6.30	0.474	24.8	10.51	7.71	16	Clear	None
09:45	200	6.95	3000	--	6.34	0.475	22.0	9.13	7.70	14	Clear	None

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-201019 Sample Time: 10:00 Sample Depth (ft-bmp): 7.5

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**	10/19/2020		
Site Location	5210 Old Seward Highway, Anchorage, AK 99501	**Site ID**	95414	**Weather (°F)**	Clear	**Sampled by**	Evan Wujcik
Measuring Point Description	Top of Casing	**Screen Depth Interval (ft-bmp)**	-- to --	**Casing Diameter (in.)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6.6	**Total Depth (ft-bmp)**	12.2	**Water Column (ft)**	5.60	**Gallons in Well**	0.91
Water Quality Meter Make/Model	Horiba U-52	**Purge Method**	Low-Flow	**Sample Method**			Low-Flow
Sample Time	11:00	**Volumes Purged**	0.52	**Sample ID**	MW-8-W-201019	**Evacuation Equipment**	Bladder
Purge Start	10:30	**Gallons Purged**	0.48	**Duplicate ID**	MS/MSD		
Purge End	10:50	**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
10:33	200	6.60	600	--	6.41	0.960	15.4	3.61	7.42	-10	Clear	None
10:36	200	6.60	1200	--	6.40	0.960	14.8	3.59	7.40	-11	Clear	None
10:39	200	6.60	1800	--	6.41	0.960	14.1	3.57	7.40	-12	Clear	None

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-201019 Sample Time: 11:00 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

November 02, 2020

Arcadis - Chevron - AK

Sample Delivery Group:	L1276033
Samples Received:	10/21/2020
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

TABLE OF CONTENTS

EQB-1-W-201019 L1276033-01 GW

Collected by: EW | Collected date/time: 10/19/20 08:00 | Received date/time: 10/21/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1564627	1	10/23/20 17:20	10/23/20 17:20	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1563512	1	10/22/20 12:49	10/22/20 12:49	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1567183	1	10/28/20 19:08	10/28/20 19:08	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1567639	1	10/29/20 18:23	10/29/20 18:23	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1566671	1	10/28/20 18:53	10/29/20 12:43	DMG	Mt. Juliet, TN

MW-10-W-201019 L1276033-02 GW

Collected by: EW | Collected date/time: 10/19/20 10:00 | Received date/time: 10/21/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1564627	1	10/23/20 21:46	10/23/20 21:46	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1563512	1	10/22/20 13:12	10/22/20 13:12	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1567183	1	10/29/20 01:17	10/29/20 01:17	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1567639	1	10/29/20 18:44	10/29/20 18:44	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1566671	1	10/28/20 18:53	10/29/20 13:03	DMG	Mt. Juliet, TN

MW-8-W-201019 L1276033-03 GW

Collected by: EW | Collected date/time: 10/19/20 11:00 | Received date/time: 10/21/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1564627	1	10/23/20 22:10	10/23/20 22:10	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1563512	25	10/22/20 13:59	10/22/20 13:59	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1567183	1	10/29/20 01:38	10/29/20 01:38	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1567639	1	10/29/20 19:04	10/29/20 19:04	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1566671	1	10/28/20 18:53	10/29/20 13:23	DMG	Mt. Juliet, TN

BD-1-W-201019 L1276033-04 GW

Collected by: EW | Collected date/time: 10/19/20 00:00 | Received date/time: 10/21/20 09:00

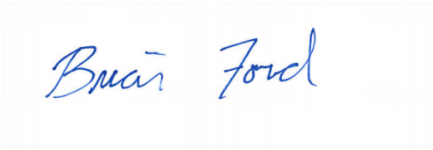
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1564872	1	10/24/20 19:47	10/24/20 19:47	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1563512	1	10/22/20 13:35	10/22/20 13:35	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1567183	1	10/29/20 01:58	10/29/20 01:58	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1567639	1	10/29/20 19:25	10/29/20 19:25	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102	WG1566671	1	10/28/20 18:53	10/29/20 14:23	DMG	Mt. Juliet, TN

TRIP BLANK-201019 L1276033-05 GW

Collected by: EW | Collected date/time: 10/19/20 00:00 | Received date/time: 10/21/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1564872	1	10/24/20 18:59	10/24/20 18:59	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1563512	1	10/22/20 11:38	10/22/20 11:38	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1567183	1	10/28/20 19:29	10/28/20 19:29	ACG	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
WG1564627	(MS) R3586963-5, L1276033-03	TPHGAK C6 to C10
WG1564872	(MS) R3588063-3, (MSD) R3588063-4	TPHGAK C6 to C10

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

Batch	Lab Sample ID	Analytes
WG1564627	(MSD) R3586963-4, (MSD) R3586963-6, L1276033-03	TPHGAK C6 to C10

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

The same analyte is found in the associated blank.

Batch	Analyte	Lab Sample ID
WG1567183	Carbon disulfide	L1276033-01, 02, 03, 04, 05
WG1567183	n-Butylbenzene	L1276033-02, 03, 04
WG1567183	p-Isopropyltoluene	L1276033-03
WG1567183	sec-Butylbenzene	L1276033-02, 04

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

Batch	Lab Sample ID	Analytes
WG1567183	(LCS) R3586993-1, L1276033-01, 02, 03, 04, 05	1,1,2-Trichlorotrifluoroethane

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

Batch	Lab Sample ID	Analytes
WG1563512	(MS) R3584737-3, (MSD) R3584737-4, L1276033-03	1,2-Dibromoethane
WG1567183	(MS) R3586993-5, (MS) R3586993-3, (MSD) R3586993-6, (MSD) R3586993-4, L1276033-03	2-Butanone (MEK), Acetone, Acrolein and Acrylonitrile

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

Batch	Lab Sample ID	Analytes
WG1567183	(MS) R3586993-5, (MSD) R3586993-6	m&p-Xylenes and Toluene

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	10/23/2020 17:20	WG1564627
(S) a,a,a-Trifluorotoluene(FID)	*105*			*50.0-150*		*10/23/2020 17:20*	WG1564627

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	10/22/2020 12:49	WG1563512
Acetone	U		11.3	50.0	1	10/28/2020 19:08	WG1567183
1,2-Dibromoethane	U		0.00410	0.00500	1	10/22/2020 12:49	WG1563512
Acrolein	U		2.54	50.0	1	10/28/2020 19:08	WG1567183
Acrylonitrile	U		0.671	10.0	1	10/28/2020 19:08	WG1567183
Benzene	U		0.0941	1.00	1	10/28/2020 19:08	WG1567183
Bromobenzene	U		0.118	1.00	1	10/28/2020 19:08	WG1567183
Bromochloromethane	U		0.128	1.00	1	10/28/2020 19:08	WG1567183
Bromodichloromethane	U		0.136	1.00	1	10/28/2020 19:08	WG1567183
Bromoform	U		0.129	1.00	1	10/28/2020 19:08	WG1567183
Bromomethane	U		0.605	5.00	1	10/28/2020 19:08	WG1567183
n-Butylbenzene	U		0.157	1.00	1	10/28/2020 19:08	WG1567183
sec-Butylbenzene	U		0.125	1.00	1	10/28/2020 19:08	WG1567183
tert-Butylbenzene	U		0.127	1.00	1	10/28/2020 19:08	WG1567183
Carbon disulfide	0.130	B J	0.0962	1.00	1	10/28/2020 19:08	WG1567183
Carbon tetrachloride	U		0.128	1.00	1	10/28/2020 19:08	WG1567183
Chlorobenzene	U		0.116	1.00	1	10/28/2020 19:08	WG1567183
Chlorodibromomethane	U		0.140	1.00	1	10/28/2020 19:08	WG1567183
Chloroethane	U		0.192	5.00	1	10/28/2020 19:08	WG1567183
Chloroform	U		0.111	5.00	1	10/28/2020 19:08	WG1567183
Chloromethane	U		0.960	2.50	1	10/28/2020 19:08	WG1567183
2-Chlorotoluene	U		0.106	1.00	1	10/28/2020 19:08	WG1567183
4-Chlorotoluene	U		0.114	1.00	1	10/28/2020 19:08	WG1567183
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	10/28/2020 19:08	WG1567183
Dibromomethane	U		0.122	1.00	1	10/28/2020 19:08	WG1567183
1,2-Dichlorobenzene	U		0.107	1.00	1	10/28/2020 19:08	WG1567183
1,3-Dichlorobenzene	U		0.110	1.00	1	10/28/2020 19:08	WG1567183
1,4-Dichlorobenzene	U		0.120	1.00	1	10/28/2020 19:08	WG1567183
Dichlorodifluoromethane	U		0.374	5.00	1	10/28/2020 19:08	WG1567183
1,1-Dichloroethane	U		0.100	1.00	1	10/28/2020 19:08	WG1567183
1,2-Dichloroethane	U		0.0819	1.00	1	10/28/2020 19:08	WG1567183
1,1-Dichloroethene	U		0.188	1.00	1	10/28/2020 19:08	WG1567183
cis-1,2-Dichloroethene	U		0.126	1.00	1	10/28/2020 19:08	WG1567183
trans-1,2-Dichloroethene	U		0.149	1.00	1	10/28/2020 19:08	WG1567183
1,2-Dichloropropane	U		0.149	1.00	1	10/28/2020 19:08	WG1567183
1,1-Dichloropropene	U		0.142	1.00	1	10/28/2020 19:08	WG1567183
1,3-Dichloropropane	U		0.110	1.00	1	10/28/2020 19:08	WG1567183
cis-1,3-Dichloropropene	U		0.111	1.00	1	10/28/2020 19:08	WG1567183
trans-1,3-Dichloropropene	U		0.118	1.00	1	10/28/2020 19:08	WG1567183
2,2-Dichloropropane	U		0.161	1.00	1	10/28/2020 19:08	WG1567183
Di-isopropyl ether	U		0.105	1.00	1	10/28/2020 19:08	WG1567183
Ethylbenzene	U		0.137	1.00	1	10/28/2020 19:08	WG1567183
Hexachloro-1,3-butadiene	U		0.337	1.00	1	10/29/2020 18:23	WG1567639
Isopropylbenzene	U		0.105	1.00	1	10/28/2020 19:08	WG1567183
p-Isopropyltoluene	U		0.120	1.00	1	10/28/2020 19:08	WG1567183
2-Butanone (MEK)	U		1.19	10.0	1	10/28/2020 19:08	WG1567183
Methylene Chloride	U		0.430	5.00	1	10/28/2020 19:08	WG1567183
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	10/28/2020 19:08	WG1567183
Methyl tert-butyl ether	U		0.101	1.00	1	10/28/2020 19:08	WG1567183

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	10/28/2020 19:08	WG1567183
n-Propylbenzene	U		0.0993	1.00	1	10/28/2020 19:08	WG1567183
Styrene	U		0.118	1.00	1	10/28/2020 19:08	WG1567183
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	10/28/2020 19:08	WG1567183
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	10/28/2020 19:08	WG1567183
1,1,2-Trichlorotrifluoroethane	U	J0 J4	0.180	1.00	1	10/28/2020 19:08	WG1567183
Tetrachloroethene	U		0.300	1.00	1	10/28/2020 19:08	WG1567183
Toluene	U		0.278	1.00	1	10/28/2020 19:08	WG1567183
1,2,3-Trichlorobenzene	U	C4	0.230	1.00	1	10/28/2020 19:08	WG1567183
1,2,4-Trichlorobenzene	U	C4	0.481	1.00	1	10/28/2020 19:08	WG1567183
1,1,1-Trichloroethane	U		0.149	1.00	1	10/28/2020 19:08	WG1567183
1,1,2-Trichloroethane	U		0.158	1.00	1	10/28/2020 19:08	WG1567183
Trichloroethene	U		0.190	1.00	1	10/28/2020 19:08	WG1567183
Trichlorofluoromethane	U		0.160	5.00	1	10/28/2020 19:08	WG1567183
1,2,4-Trimethylbenzene	U		0.322	1.00	1	10/28/2020 19:08	WG1567183
1,2,3-Trimethylbenzene	U		0.104	1.00	1	10/28/2020 19:08	WG1567183
1,3,5-Trimethylbenzene	U		0.104	1.00	1	10/28/2020 19:08	WG1567183
Vinyl chloride	U		0.234	1.00	1	10/28/2020 19:08	WG1567183
Xylenes, Total	U		0.174	3.00	1	10/28/2020 19:08	WG1567183
o-Xylene	U		0.174	1.00	1	10/28/2020 19:08	WG1567183
m&p-Xylene	U		0.430	2.00	1	10/28/2020 19:08	WG1567183
(S) Toluene-d8	*108*			*80.0-120*		*10/28/2020 19:08*	WG1567183
(S) Toluene-d8	*101*			*80.0-120*		*10/29/2020 18:23*	WG1567639
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*10/28/2020 19:08*	WG1567183
(S) 4-Bromofluorobenzene	*97.4*			*77.0-126*		*10/29/2020 18:23*	WG1567639
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*10/28/2020 19:08*	WG1567183
(S) 1,2-Dichloroethane-d4	*83.6*			*70.0-130*		*10/29/2020 18:23*	WG1567639

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	10/29/2020 12:43	WG1566671
(S) o-Terphenyl	*88.5*			*50.0-150*		*10/29/2020 12:43*	WG1566671

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	10/23/2020 21:46	WG1564627
(S) a,a,a-Trifluorotoluene(FID)	*105*			*50.0-150*		*10/23/2020 21:46*	WG1564627

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	10/22/2020 13:12	WG1563512
Acetone	U		11.3	50.0	1	10/29/2020 01:17	WG1567183
1,2-Dibromoethane	U		0.00410	0.00500	1	10/22/2020 13:12	WG1563512
Acrolein	U		2.54	50.0	1	10/29/2020 01:17	WG1567183
Acrylonitrile	U		0.671	10.0	1	10/29/2020 01:17	WG1567183
Benzene	U		0.0941	1.00	1	10/29/2020 18:44	WG1567639
Bromobenzene	U		0.118	1.00	1	10/29/2020 01:17	WG1567183
Bromochloromethane	U		0.128	1.00	1	10/29/2020 01:17	WG1567183
Bromodichloromethane	U		0.136	1.00	1	10/29/2020 01:17	WG1567183
Bromoform	U		0.129	1.00	1	10/29/2020 01:17	WG1567183
Bromomethane	U		0.605	5.00	1	10/29/2020 01:17	WG1567183
n-Butylbenzene	1.17	B	0.157	1.00	1	10/29/2020 01:17	WG1567183
sec-Butylbenzene	0.837	B J	0.125	1.00	1	10/29/2020 01:17	WG1567183
tert-Butylbenzene	U		0.127	1.00	1	10/29/2020 01:17	WG1567183
Carbon disulfide	0.362	B J	0.0962	1.00	1	10/29/2020 01:17	WG1567183
Carbon tetrachloride	U		0.128	1.00	1	10/29/2020 01:17	WG1567183
Chlorobenzene	U		0.116	1.00	1	10/29/2020 01:17	WG1567183
Chlorodibromomethane	U		0.140	1.00	1	10/29/2020 01:17	WG1567183
Chloroethane	U		0.192	5.00	1	10/29/2020 01:17	WG1567183
Chloroform	U		0.111	5.00	1	10/29/2020 01:17	WG1567183
Chloromethane	U		0.960	2.50	1	10/29/2020 01:17	WG1567183
2-Chlorotoluene	U		0.106	1.00	1	10/29/2020 01:17	WG1567183
4-Chlorotoluene	U		0.114	1.00	1	10/29/2020 01:17	WG1567183
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	10/29/2020 01:17	WG1567183
Dibromomethane	U		0.122	1.00	1	10/29/2020 01:17	WG1567183
1,2-Dichlorobenzene	U		0.107	1.00	1	10/29/2020 01:17	WG1567183
1,3-Dichlorobenzene	U		0.110	1.00	1	10/29/2020 01:17	WG1567183
1,4-Dichlorobenzene	U		0.120	1.00	1	10/29/2020 01:17	WG1567183
Dichlorodifluoromethane	11.4		0.374	5.00	1	10/29/2020 01:17	WG1567183
1,1-Dichloroethane	0.278	J	0.100	1.00	1	10/29/2020 01:17	WG1567183
1,2-Dichloroethane	U		0.0819	1.00	1	10/29/2020 01:17	WG1567183
1,1-Dichloroethene	U		0.188	1.00	1	10/29/2020 01:17	WG1567183
cis-1,2-Dichloroethene	U		0.126	1.00	1	10/29/2020 01:17	WG1567183
trans-1,2-Dichloroethene	U		0.149	1.00	1	10/29/2020 01:17	WG1567183
1,2-Dichloropropane	U		0.149	1.00	1	10/29/2020 01:17	WG1567183
1,1-Dichloropropene	U		0.142	1.00	1	10/29/2020 01:17	WG1567183
1,3-Dichloropropane	U		0.110	1.00	1	10/29/2020 01:17	WG1567183
cis-1,3-Dichloropropene	U		0.111	1.00	1	10/29/2020 01:17	WG1567183
trans-1,3-Dichloropropene	U		0.118	1.00	1	10/29/2020 01:17	WG1567183
2,2-Dichloropropane	U		0.161	1.00	1	10/29/2020 01:17	WG1567183
Di-isopropyl ether	U		0.105	1.00	1	10/29/2020 01:17	WG1567183
Ethylbenzene	U		0.137	1.00	1	10/29/2020 18:44	WG1567639
Hexachloro-1,3-butadiene	U		0.337	1.00	1	10/29/2020 01:17	WG1567183
Isopropylbenzene	1.57		0.105	1.00	1	10/29/2020 01:17	WG1567183
p-Isopropyltoluene	1.74		0.120	1.00	1	10/29/2020 01:17	WG1567183
2-Butanone (MEK)	U		1.19	10.0	1	10/29/2020 01:17	WG1567183
Methylene Chloride	U		0.430	5.00	1	10/29/2020 01:17	WG1567183
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	10/29/2020 01:17	WG1567183
Methyl tert-butyl ether	U		0.101	1.00	1	10/29/2020 18:44	WG1567639

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	10/29/2020 18:44	WG1567639
n-Propylbenzene	U		0.0993	1.00	1	10/29/2020 18:44	WG1567639
Styrene	U		0.118	1.00	1	10/29/2020 01:17	WG1567183
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	10/29/2020 01:17	WG1567183
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	10/29/2020 01:17	WG1567183
1,1,2-Trichlorotrifluoroethane	U	J0 J4	0.180	1.00	1	10/29/2020 01:17	WG1567183
Tetrachloroethene	U		0.300	1.00	1	10/29/2020 01:17	WG1567183
Toluene	U		0.278	1.00	1	10/29/2020 18:44	WG1567639
1,2,3-Trichlorobenzene	U	C4	0.230	1.00	1	10/29/2020 01:17	WG1567183
1,2,4-Trichlorobenzene	U	C4	0.481	1.00	1	10/29/2020 01:17	WG1567183
1,1,1-Trichloroethane	U		0.149	1.00	1	10/29/2020 01:17	WG1567183
1,1,2-Trichloroethane	U		0.158	1.00	1	10/29/2020 01:17	WG1567183
Trichloroethene	U		0.190	1.00	1	10/29/2020 01:17	WG1567183
Trichlorofluoromethane	U		0.160	5.00	1	10/29/2020 01:17	WG1567183
1,2,4-Trimethylbenzene	U		0.322	1.00	1	10/29/2020 18:44	WG1567639
1,2,3-Trimethylbenzene	U		0.104	1.00	1	10/29/2020 18:44	WG1567639
1,3,5-Trimethylbenzene	U		0.104	1.00	1	10/29/2020 18:44	WG1567639
Vinyl chloride	U		0.234	1.00	1	10/29/2020 01:17	WG1567183
Xylenes, Total	U		0.174	3.00	1	10/29/2020 18:44	WG1567639
o-Xylene	U		0.174	1.00	1	10/29/2020 18:44	WG1567639
m&p-Xylene	U		0.430	2.00	1	10/29/2020 18:44	WG1567639
(S) Toluene-d8	*109*			*80.0-120*		*10/29/2020 01:17*	WG1567183
(S) Toluene-d8	*102*			*80.0-120*		*10/29/2020 18:44*	WG1567639
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*10/29/2020 01:17*	WG1567183
(S) 4-Bromofluorobenzene	*95.3*			*77.0-126*		*10/29/2020 18:44*	WG1567639
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/29/2020 01:17*	WG1567183
(S) 1,2-Dichloroethane-d4	*85.3*			*70.0-130*		*10/29/2020 18:44*	WG1567639

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	919		229	800	1	10/29/2020 13:03	WG1566671
(S) o-Terphenyl	*91.5*			*50.0-150*		*10/29/2020 13:03*	WG1566671

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	524	J3 J6	10.0	100	1	10/23/2020 22:10	WG1564627
(S) a,a,a-Trifluorotoluene(FID)	*134*			*50.0-150*		*10/23/2020 22:10*	WG1564627

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		0.0500	0.125	25	10/22/2020 13:59	WG1563512
Acetone	U	J5	11.3	50.0	1	10/29/2020 01:38	WG1567183
1,2-Dibromoethane	U	J5	0.103	0.125	25	10/22/2020 13:59	WG1563512
Acrolein	U	J5	2.54	50.0	1	10/29/2020 01:38	WG1567183
Acrylonitrile	U	J5	0.671	10.0	1	10/29/2020 01:38	WG1567183
Benzene	43.4		0.0941	1.00	1	10/29/2020 01:38	WG1567183
Bromobenzene	U		0.118	1.00	1	10/29/2020 01:38	WG1567183
Bromochloromethane	U		0.128	1.00	1	10/29/2020 01:38	WG1567183
Bromodichloromethane	U		0.136	1.00	1	10/29/2020 01:38	WG1567183
Bromoform	U		0.129	1.00	1	10/29/2020 01:38	WG1567183
Bromomethane	U		0.605	5.00	1	10/29/2020 01:38	WG1567183
n-Butylbenzene	1.67	B	0.157	1.00	1	10/29/2020 01:38	WG1567183
sec-Butylbenzene	2.91		0.125	1.00	1	10/29/2020 01:38	WG1567183
tert-Butylbenzene	0.368	J	0.127	1.00	1	10/29/2020 01:38	WG1567183
Carbon disulfide	0.198	B J	0.0962	1.00	1	10/29/2020 01:38	WG1567183
Carbon tetrachloride	U		0.128	1.00	1	10/29/2020 01:38	WG1567183
Chlorobenzene	U		0.116	1.00	1	10/29/2020 01:38	WG1567183
Chlorodibromomethane	U		0.140	1.00	1	10/29/2020 01:38	WG1567183
Chloroethane	U		0.192	5.00	1	10/29/2020 01:38	WG1567183
Chloroform	U		0.111	5.00	1	10/29/2020 01:38	WG1567183
Chloromethane	U		0.960	2.50	1	10/29/2020 01:38	WG1567183
2-Chlorotoluene	U		0.106	1.00	1	10/29/2020 01:38	WG1567183
4-Chlorotoluene	U		0.114	1.00	1	10/29/2020 01:38	WG1567183
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	10/29/2020 01:38	WG1567183
Dibromomethane	U		0.122	1.00	1	10/29/2020 01:38	WG1567183
1,2-Dichlorobenzene	U		0.107	1.00	1	10/29/2020 01:38	WG1567183
1,3-Dichlorobenzene	U		0.110	1.00	1	10/29/2020 01:38	WG1567183
1,4-Dichlorobenzene	U		0.120	1.00	1	10/29/2020 01:38	WG1567183
Dichlorodifluoromethane	2.57	J	0.374	5.00	1	10/29/2020 01:38	WG1567183
1,1-Dichloroethane	U		0.100	1.00	1	10/29/2020 01:38	WG1567183
1,2-Dichloroethane	U		0.0819	1.00	1	10/29/2020 01:38	WG1567183
1,1-Dichloroethene	U		0.188	1.00	1	10/29/2020 01:38	WG1567183
cis-1,2-Dichloroethene	U		0.126	1.00	1	10/29/2020 01:38	WG1567183
trans-1,2-Dichloroethene	U		0.149	1.00	1	10/29/2020 01:38	WG1567183
1,2-Dichloropropane	U		0.149	1.00	1	10/29/2020 01:38	WG1567183
1,1-Dichloropropene	U		0.142	1.00	1	10/29/2020 01:38	WG1567183
1,3-Dichloropropane	U		0.110	1.00	1	10/29/2020 01:38	WG1567183
cis-1,3-Dichloropropene	U		0.111	1.00	1	10/29/2020 01:38	WG1567183
trans-1,3-Dichloropropene	U		0.118	1.00	1	10/29/2020 01:38	WG1567183
2,2-Dichloropropane	U		0.161	1.00	1	10/29/2020 01:38	WG1567183
Di-isopropyl ether	U		0.105	1.00	1	10/29/2020 01:38	WG1567183
Ethylbenzene	12.7		0.137	1.00	1	10/29/2020 01:38	WG1567183
Hexachloro-1,3-butadiene	U		0.337	1.00	1	10/29/2020 01:38	WG1567183
Isopropylbenzene	7.57		0.105	1.00	1	10/29/2020 01:38	WG1567183
p-Isopropyltoluene	0.514	B J	0.120	1.00	1	10/29/2020 01:38	WG1567183
2-Butanone (MEK)	U	J5	1.19	10.0	1	10/29/2020 01:38	WG1567183
Methylene Chloride	U		0.430	5.00	1	10/29/2020 01:38	WG1567183
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	10/29/2020 01:38	WG1567183
Methyl tert-butyl ether	U		0.101	1.00	1	10/29/2020 01:38	WG1567183

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	10/29/2020 19:04	WG1567639
n-Propylbenzene	17.0		0.0993	1.00	1	10/29/2020 01:38	WG1567183
Styrene	U		0.118	1.00	1	10/29/2020 01:38	WG1567183
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	10/29/2020 01:38	WG1567183
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	10/29/2020 01:38	WG1567183
1,1,2-Trichlorotrifluoroethane	U	J0 J4	0.180	1.00	1	10/29/2020 01:38	WG1567183
Tetrachloroethene	U		0.300	1.00	1	10/29/2020 01:38	WG1567183
Toluene	2.13		0.278	1.00	1	10/29/2020 19:04	WG1567639
1,2,3-Trichlorobenzene	U	C4	0.230	1.00	1	10/29/2020 01:38	WG1567183
1,2,4-Trichlorobenzene	U	C4	0.481	1.00	1	10/29/2020 01:38	WG1567183
1,1,1-Trichloroethane	U		0.149	1.00	1	10/29/2020 01:38	WG1567183
1,1,2-Trichloroethane	U		0.158	1.00	1	10/29/2020 01:38	WG1567183
Trichloroethene	U		0.190	1.00	1	10/29/2020 01:38	WG1567183
Trichlorofluoromethane	U		0.160	5.00	1	10/29/2020 01:38	WG1567183
1,2,4-Trimethylbenzene	25.0		0.322	1.00	1	10/29/2020 19:04	WG1567639
1,2,3-Trimethylbenzene	10.5		0.104	1.00	1	10/29/2020 19:04	WG1567639
1,3,5-Trimethylbenzene	U		0.104	1.00	1	10/29/2020 19:04	WG1567639
Vinyl chloride	U		0.234	1.00	1	10/29/2020 01:38	WG1567183
Xylenes, Total	35.7		0.174	3.00	1	10/29/2020 19:04	WG1567639
o-Xylene	1.39		0.174	1.00	1	10/29/2020 19:04	WG1567639
m&p-Xylene	34.3		0.430	2.00	1	10/29/2020 19:04	WG1567639
(S) Toluene-d8	*108*			*80.0-120*		*10/29/2020 01:38*	WG1567183
(S) Toluene-d8	*101*			*80.0-120*		*10/29/2020 19:04*	WG1567639
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*10/29/2020 01:38*	WG1567183
(S) 4-Bromofluorobenzene	*98.8*			*77.0-126*		*10/29/2020 19:04*	WG1567639
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*10/29/2020 01:38*	WG1567183
(S) 1,2-Dichloroethane-d4	*87.6*			*70.0-130*		*10/29/2020 19:04*	WG1567639

Sample Narrative:

L1276033-03 WG1563512: 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	535	J	229	800	1	10/29/2020 13:23	WG1566671
(S) o-Terphenyl	*95.0*			*50.0-150*		*10/29/2020 13:23*	WG1566671

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	10/24/2020 19:47	WG1564872
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*50.0-150*		*10/24/2020 19:47*	WG1564872

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	10/22/2020 13:35	WG1563512
Acetone	U		11.3	50.0	1	10/29/2020 01:58	WG1567183
1,2-Dibromoethane	U		0.00410	0.00500	1	10/22/2020 13:35	WG1563512
Acrolein	U		2.54	50.0	1	10/29/2020 01:58	WG1567183
Acrylonitrile	U		0.671	10.0	1	10/29/2020 01:58	WG1567183
Benzene	0.916	J	0.0941	1.00	1	10/29/2020 01:58	WG1567183
Bromobenzene	U		0.118	1.00	1	10/29/2020 01:58	WG1567183
Bromochloromethane	U		0.128	1.00	1	10/29/2020 01:58	WG1567183
Bromodichloromethane	U		0.136	1.00	1	10/29/2020 01:58	WG1567183
Bromoform	U		0.129	1.00	1	10/29/2020 01:58	WG1567183
Bromomethane	U		0.605	5.00	1	10/29/2020 01:58	WG1567183
n-Butylbenzene	0.232	B J	0.157	1.00	1	10/29/2020 01:58	WG1567183
sec-Butylbenzene	0.211	B J	0.125	1.00	1	10/29/2020 01:58	WG1567183
tert-Butylbenzene	U		0.127	1.00	1	10/29/2020 01:58	WG1567183
Carbon disulfide	0.167	B J	0.0962	1.00	1	10/29/2020 01:58	WG1567183
Carbon tetrachloride	U		0.128	1.00	1	10/29/2020 01:58	WG1567183
Chlorobenzene	U		0.116	1.00	1	10/29/2020 01:58	WG1567183
Chlorodibromomethane	U		0.140	1.00	1	10/29/2020 01:58	WG1567183
Chloroethane	U		0.192	5.00	1	10/29/2020 01:58	WG1567183
Chloroform	U		0.111	5.00	1	10/29/2020 01:58	WG1567183
Chloromethane	U		0.960	2.50	1	10/29/2020 01:58	WG1567183
2-Chlorotoluene	U		0.106	1.00	1	10/29/2020 01:58	WG1567183
4-Chlorotoluene	U		0.114	1.00	1	10/29/2020 01:58	WG1567183
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	10/29/2020 01:58	WG1567183
Dibromomethane	U		0.122	1.00	1	10/29/2020 01:58	WG1567183
1,2-Dichlorobenzene	U		0.107	1.00	1	10/29/2020 01:58	WG1567183
1,3-Dichlorobenzene	U		0.110	1.00	1	10/29/2020 01:58	WG1567183
1,4-Dichlorobenzene	U		0.120	1.00	1	10/29/2020 01:58	WG1567183
Dichlorodifluoromethane	14.2		0.374	5.00	1	10/29/2020 01:58	WG1567183
1,1-Dichloroethane	0.320	J	0.100	1.00	1	10/29/2020 01:58	WG1567183
1,2-Dichloroethane	U		0.0819	1.00	1	10/29/2020 01:58	WG1567183
1,1-Dichloroethene	U		0.188	1.00	1	10/29/2020 01:58	WG1567183
cis-1,2-Dichloroethene	U		0.126	1.00	1	10/29/2020 01:58	WG1567183
trans-1,2-Dichloroethene	U		0.149	1.00	1	10/29/2020 01:58	WG1567183
1,2-Dichloropropane	U		0.149	1.00	1	10/29/2020 01:58	WG1567183
1,1-Dichloropropene	U		0.142	1.00	1	10/29/2020 01:58	WG1567183
1,3-Dichloropropane	U		0.110	1.00	1	10/29/2020 01:58	WG1567183
cis-1,3-Dichloropropene	U		0.111	1.00	1	10/29/2020 01:58	WG1567183
trans-1,3-Dichloropropene	U		0.118	1.00	1	10/29/2020 01:58	WG1567183
2,2-Dichloropropane	U		0.161	1.00	1	10/29/2020 01:58	WG1567183
Di-isopropyl ether	U		0.105	1.00	1	10/29/2020 01:58	WG1567183
Ethylbenzene	0.437	J	0.137	1.00	1	10/29/2020 01:58	WG1567183
Hexachloro-1,3-butadiene	U		0.337	1.00	1	10/29/2020 01:58	WG1567183
Isopropylbenzene	0.151	J	0.105	1.00	1	10/29/2020 01:58	WG1567183
p-Isopropyltoluene	U		0.120	1.00	1	10/29/2020 01:58	WG1567183
2-Butanone (MEK)	U		1.19	10.0	1	10/29/2020 01:58	WG1567183
Methylene Chloride	U		0.430	5.00	1	10/29/2020 01:58	WG1567183
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	10/29/2020 01:58	WG1567183
Methyl tert-butyl ether	U		0.101	1.00	1	10/29/2020 01:58	WG1567183

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	10/29/2020 01:58	WG1567183
n-Propylbenzene	0.523	J	0.0993	1.00	1	10/29/2020 01:58	WG1567183
Styrene	U		0.118	1.00	1	10/29/2020 01:58	WG1567183
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	10/29/2020 01:58	WG1567183
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	10/29/2020 01:58	WG1567183
1,1,2-Trichlorotrifluoroethane	U	J0 J4	0.180	1.00	1	10/29/2020 01:58	WG1567183
Tetrachloroethene	U		0.300	1.00	1	10/29/2020 01:58	WG1567183
Toluene	U		0.278	1.00	1	10/29/2020 19:25	WG1567639
1,2,3-Trichlorobenzene	U	C4	0.230	1.00	1	10/29/2020 01:58	WG1567183
1,2,4-Trichlorobenzene	U	C4	0.481	1.00	1	10/29/2020 01:58	WG1567183
1,1,1-Trichloroethane	U		0.149	1.00	1	10/29/2020 01:58	WG1567183
1,1,2-Trichloroethane	U		0.158	1.00	1	10/29/2020 01:58	WG1567183
Trichloroethene	U		0.190	1.00	1	10/29/2020 01:58	WG1567183
Trichlorofluoromethane	U		0.160	5.00	1	10/29/2020 01:58	WG1567183
1,2,4-Trimethylbenzene	U		0.322	1.00	1	10/29/2020 19:25	WG1567639
1,2,3-Trimethylbenzene	0.143	J	0.104	1.00	1	10/29/2020 19:25	WG1567639
1,3,5-Trimethylbenzene	U		0.104	1.00	1	10/29/2020 19:25	WG1567639
Vinyl chloride	U		0.234	1.00	1	10/29/2020 01:58	WG1567183
Xylenes, Total	U		0.174	3.00	1	10/29/2020 19:25	WG1567639
o-Xylene	U		0.174	1.00	1	10/29/2020 19:25	WG1567639
m&p-Xylene	U		0.430	2.00	1	10/29/2020 19:25	WG1567639
(S) Toluene-d8	*108*			*80.0-120*		*10/29/2020 01:58*	WG1567183
(S) Toluene-d8	*102*			*80.0-120*		*10/29/2020 19:25*	WG1567639
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*10/29/2020 01:58*	WG1567183
(S) 4-Bromofluorobenzene	*99.1*			*77.0-126*		*10/29/2020 19:25*	WG1567639
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*10/29/2020 01:58*	WG1567183
(S) 1,2-Dichloroethane-d4	*85.9*			*70.0-130*		*10/29/2020 19:25*	WG1567639

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	965		229	800	1	10/29/2020 14:23	WG1566671
(S) o-Terphenyl	*94.2*			*50.0-150*		*10/29/2020 14:23*	WG1566671

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	10/24/2020 18:59	WG1564872
(S) a,a,a-Trifluorotoluene(FID)	*98.8*			*50.0-150*		*10/24/2020 18:59*	WG1564872

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	10/22/2020 11:38	WG1563512
Acetone	U		11.3	50.0	1	10/28/2020 19:29	WG1567183
1,2-Dibromoethane	U		0.00410	0.00500	1	10/22/2020 11:38	WG1563512
Acrolein	U		2.54	50.0	1	10/28/2020 19:29	WG1567183
Acrylonitrile	U		0.671	10.0	1	10/28/2020 19:29	WG1567183
Benzene	U		0.0941	1.00	1	10/28/2020 19:29	WG1567183
Bromobenzene	U		0.118	1.00	1	10/28/2020 19:29	WG1567183
Bromochloromethane	U		0.128	1.00	1	10/28/2020 19:29	WG1567183
Bromodichloromethane	U		0.136	1.00	1	10/28/2020 19:29	WG1567183
Bromoform	U		0.129	1.00	1	10/28/2020 19:29	WG1567183
Bromomethane	U		0.605	5.00	1	10/28/2020 19:29	WG1567183
n-Butylbenzene	U		0.157	1.00	1	10/28/2020 19:29	WG1567183
sec-Butylbenzene	U		0.125	1.00	1	10/28/2020 19:29	WG1567183
tert-Butylbenzene	U		0.127	1.00	1	10/28/2020 19:29	WG1567183
Carbon disulfide	0.148	B J	0.0962	1.00	1	10/28/2020 19:29	WG1567183
Carbon tetrachloride	U		0.128	1.00	1	10/28/2020 19:29	WG1567183
Chlorobenzene	U		0.116	1.00	1	10/28/2020 19:29	WG1567183
Chlorodibromomethane	U		0.140	1.00	1	10/28/2020 19:29	WG1567183
Chloroethane	U		0.192	5.00	1	10/28/2020 19:29	WG1567183
Chloroform	U		0.111	5.00	1	10/28/2020 19:29	WG1567183
Chloromethane	U		0.960	2.50	1	10/28/2020 19:29	WG1567183
2-Chlorotoluene	U		0.106	1.00	1	10/28/2020 19:29	WG1567183
4-Chlorotoluene	U		0.114	1.00	1	10/28/2020 19:29	WG1567183
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	10/28/2020 19:29	WG1567183
Dibromomethane	U		0.122	1.00	1	10/28/2020 19:29	WG1567183
1,2-Dichlorobenzene	U		0.107	1.00	1	10/28/2020 19:29	WG1567183
1,3-Dichlorobenzene	U		0.110	1.00	1	10/28/2020 19:29	WG1567183
1,4-Dichlorobenzene	U		0.120	1.00	1	10/28/2020 19:29	WG1567183
Dichlorodifluoromethane	U		0.374	5.00	1	10/28/2020 19:29	WG1567183
1,1-Dichloroethane	U		0.100	1.00	1	10/28/2020 19:29	WG1567183
1,2-Dichloroethane	U		0.0819	1.00	1	10/28/2020 19:29	WG1567183
1,1-Dichloroethene	U		0.188	1.00	1	10/28/2020 19:29	WG1567183
cis-1,2-Dichloroethene	U		0.126	1.00	1	10/28/2020 19:29	WG1567183
trans-1,2-Dichloroethene	U		0.149	1.00	1	10/28/2020 19:29	WG1567183
1,2-Dichloropropane	U		0.149	1.00	1	10/28/2020 19:29	WG1567183
1,1-Dichloropropene	U		0.142	1.00	1	10/28/2020 19:29	WG1567183
1,3-Dichloropropane	U		0.110	1.00	1	10/28/2020 19:29	WG1567183
cis-1,3-Dichloropropene	U		0.111	1.00	1	10/28/2020 19:29	WG1567183
trans-1,3-Dichloropropene	U		0.118	1.00	1	10/28/2020 19:29	WG1567183
2,2-Dichloropropane	U		0.161	1.00	1	10/28/2020 19:29	WG1567183
Di-isopropyl ether	U		0.105	1.00	1	10/28/2020 19:29	WG1567183
Ethylbenzene	U		0.137	1.00	1	10/28/2020 19:29	WG1567183
Hexachloro-1,3-butadiene	U		0.337	1.00	1	10/28/2020 19:29	WG1567183
Isopropylbenzene	U		0.105	1.00	1	10/28/2020 19:29	WG1567183
p-Isopropyltoluene	U		0.120	1.00	1	10/28/2020 19:29	WG1567183
2-Butanone (MEK)	U		1.19	10.0	1	10/28/2020 19:29	WG1567183
Methylene Chloride	U		0.430	5.00	1	10/28/2020 19:29	WG1567183
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	10/28/2020 19:29	WG1567183
Methyl tert-butyl ether	U		0.101	1.00	1	10/28/2020 19:29	WG1567183

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	10/28/2020 19:29	WG1567183
n-Propylbenzene	U		0.0993	1.00	1	10/28/2020 19:29	WG1567183
Styrene	U		0.118	1.00	1	10/28/2020 19:29	WG1567183
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	10/28/2020 19:29	WG1567183
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	10/28/2020 19:29	WG1567183
1,1,2-Trichlorotrifluoroethane	U	J0 J4	0.180	1.00	1	10/28/2020 19:29	WG1567183
Tetrachloroethene	U		0.300	1.00	1	10/28/2020 19:29	WG1567183
Toluene	U		0.278	1.00	1	10/28/2020 19:29	WG1567183
1,2,3-Trichlorobenzene	U	C4	0.230	1.00	1	10/28/2020 19:29	WG1567183
1,2,4-Trichlorobenzene	U	C4	0.481	1.00	1	10/28/2020 19:29	WG1567183
1,1,1-Trichloroethane	U		0.149	1.00	1	10/28/2020 19:29	WG1567183
1,1,2-Trichloroethane	U		0.158	1.00	1	10/28/2020 19:29	WG1567183
Trichloroethene	U		0.190	1.00	1	10/28/2020 19:29	WG1567183
Trichlorofluoromethane	U		0.160	5.00	1	10/28/2020 19:29	WG1567183
1,2,4-Trimethylbenzene	U		0.322	1.00	1	10/28/2020 19:29	WG1567183
1,2,3-Trimethylbenzene	U		0.104	1.00	1	10/28/2020 19:29	WG1567183
1,3,5-Trimethylbenzene	U		0.104	1.00	1	10/28/2020 19:29	WG1567183
Vinyl chloride	U		0.234	1.00	1	10/28/2020 19:29	WG1567183
Xylenes, Total	U		0.174	3.00	1	10/28/2020 19:29	WG1567183
o-Xylene	U		0.174	1.00	1	10/28/2020 19:29	WG1567183
m&p-Xylene	U		0.430	2.00	1	10/28/2020 19:29	WG1567183
(S) Toluene-d8	*109*			*80.0-120*		*10/28/2020 19:29*	WG1567183
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*10/28/2020 19:29*	WG1567183
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*10/28/2020 19:29*	WG1567183

Method Blank (MB)

(MB) R3586963-2 10/23/20 14:43

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)	*105*			*60.0-120*

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

(LCS) R3586963-1 10/23/20 13:31 • (LCSD) R3586963-7 10/24/20 00:59

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	376	373	94.0	93.3	60.0-120			0.801	20
(S) a,a,a-Trifluorotoluene(FID)				*107*	*108*	*60.0-120*				

L1275557-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1275557-02 10/23/20 17:44 • (MS) R3586963-3 10/23/20 22:58 • (MSD) R3586963-4 10/23/20 23:22

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	356	458	89.0	115	1	70.0-130		J3	25.1	20
(S) a,a,a-Trifluorotoluene(FID)					*107*	*107*		*50.0-150*				

L1276033-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1276033-03 10/23/20 22:10 • (MS) R3586963-5 10/23/20 23:47 • (MSD) R3586963-6 10/24/20 00:11

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TPHGAK C6 to C10	400	524	799	982	68.8	115	1	70.0-130	J6	J3	20.6	20
(S) a,a,a-Trifluorotoluene(FID)					*142*	*136*		*50.0-150*				

Method Blank (MB)

(MB) R3588063-2 10/24/20 18:11

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)	*99.0*			*60.0-120*

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

(LCS) R3588063-1 10/24/20 17:22 • (LCSD) R3588063-5 10/25/20 10:09

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	359	353	89.8	88.2	60.0-120			1.69	20
(S) a,a,a-Trifluorotoluene(FID)				*100*	*98.6*	*60.0-120*				

L1276654-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1276654-09 10/24/20 21:24 • (MS) R3588063-3 10/25/20 00:38 • (MSD) R3588063-4 10/25/20 01:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	400	U	86.1	102	21.5	25.5	1	70.0-130	J6	J6	16.9	20
(S) a,a,a-Trifluorotoluene(FID)					*101*	*101*		*50.0-150*				

Method Blank (MB)

(MB) R3584737-2 10/22/20 11:15

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

Laboratory Control Sample (LCS)

(LCS) R3584737-1 10/22/20 09:31

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
1,2,3-Trichloropropane	0.0500	0.0560	112	70.0-130	
1,2-Dibromoethane	0.0500	0.0450	90.0	70.0-130	

L1276033-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1276033-03 10/22/20 13:59 • (MS) R3584737-3 10/22/20 17:30 • (MSD) R3584737-4 10/22/20 17:53

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	%	%		%			%	%
1,2,3-Trichloropropane	1.25	U	1.40	1.33	112	106	25	70.0-130			5.13	20
1,2-Dibromoethane	1.25	U	2.68	2.22	214	178	25	70.0-130	E J5	J5	18.8	20

Sample Narrative:

OS: Non-target compounds too high to run at a lower dilution.

Method Blank (MB)

(MB) R3586993-2 10/28/20 18:27

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	0.255	J	0.157	1.00
sec-Butylbenzene	0.132	J	0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon disulfide	0.139	J	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) R3586993-2 10/28/20 18:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	0.667	J	0.337	1.00
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	0.132	J	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	0.306	J	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	*109*			*80.0-120*
(S) 4-Bromofluorobenzene	*106*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3586993-1 10/28/20 17:47

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	23.3	93.2	19.0-160	
Acrolein	25.0	23.8	95.2	10.0-160	

Laboratory Control Sample (LCS)

(LCS) R3586993-1 10/28/20 17:47

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acrylonitrile	25.0	26.1	104	55.0-149	
Benzene	5.00	4.95	99.0	70.0-123	
Bromobenzene	5.00	5.11	102	73.0-121	
Bromodichloromethane	5.00	4.76	95.2	75.0-120	
Bromochloromethane	5.00	5.14	103	76.0-122	
Bromoform	5.00	4.76	95.2	68.0-132	
Bromomethane	5.00	4.96	99.2	10.0-160	
n-Butylbenzene	5.00	5.02	100	73.0-125	
sec-Butylbenzene	5.00	5.16	103	75.0-125	
tert-Butylbenzene	5.00	5.10	102	76.0-124	
Carbon disulfide	5.00	4.97	99.4	61.0-128	
Carbon tetrachloride	5.00	4.85	97.0	68.0-126	
Chlorobenzene	5.00	4.95	99.0	80.0-121	
Chlorodibromomethane	5.00	4.77	95.4	77.0-125	
Chloroethane	5.00	5.00	100	47.0-150	
Chloroform	5.00	4.89	97.8	73.0-120	
Chloromethane	5.00	4.73	94.6	41.0-142	
2-Chlorotoluene	5.00	5.03	101	76.0-123	
4-Chlorotoluene	5.00	4.93	98.6	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.97	99.4	58.0-134	
Dibromomethane	5.00	4.92	98.4	80.0-120	
1,2-Dichlorobenzene	5.00	4.98	99.6	79.0-121	
1,3-Dichlorobenzene	5.00	4.86	97.2	79.0-120	
1,4-Dichlorobenzene	5.00	4.86	97.2	79.0-120	
Dichlorodifluoromethane	5.00	5.54	111	51.0-149	
1,1-Dichloroethane	5.00	4.90	98.0	70.0-126	
1,2-Dichloroethane	5.00	5.16	103	70.0-128	
1,1-Dichloroethene	5.00	5.06	101	71.0-124	
cis-1,2-Dichloroethene	5.00	5.00	100	73.0-120	
trans-1,2-Dichloroethene	5.00	4.95	99.0	73.0-120	
1,2-Dichloropropane	5.00	4.89	97.8	77.0-125	
1,1-Dichloropropene	5.00	4.83	96.6	74.0-126	
1,3-Dichloropropane	5.00	5.04	101	80.0-120	
cis-1,3-Dichloropropene	5.00	5.02	100	80.0-123	
trans-1,3-Dichloropropene	5.00	4.93	98.6	78.0-124	
2,2-Dichloropropane	5.00	5.04	101	58.0-130	
Di-isopropyl ether	5.00	5.11	102	58.0-138	
Ethylbenzene	5.00	4.94	98.8	79.0-123	
Hexachloro-1,3-butadiene	5.00	5.30	106	54.0-138	
Isopropylbenzene	5.00	5.02	100	76.0-127	

Laboratory Control Sample (LCS)

(LCS) R3586993-1 10/28/20 17:47

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
p-Isopropyltoluene	5.00	5.08	102	76.0-125	
2-Butanone (MEK)	25.0	25.7	103	44.0-160	
Methylene Chloride	5.00	4.98	99.6	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	26.7	107	68.0-142	
Methyl tert-butyl ether	5.00	5.09	102	68.0-125	
Naphthalene	5.00	5.26	105	54.0-135	
n-Propylbenzene	5.00	5.04	101	77.0-124	
Styrene	5.00	4.96	99.2	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	4.65	93.0	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	5.13	103	65.0-130	
Tetrachloroethene	5.00	4.85	97.0	72.0-132	
Toluene	5.00	4.96	99.2	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	3.32	66.4	69.0-132	J4
1,2,3-Trichlorobenzene	5.00	5.28	106	50.0-138	
1,2,4-Trichlorobenzene	5.00	5.13	103	57.0-137	
1,1,1-Trichloroethane	5.00	5.09	102	73.0-124	
1,1,2-Trichloroethane	5.00	5.04	101	80.0-120	
Trichloroethene	5.00	4.88	97.6	78.0-124	
Trichlorofluoromethane	5.00	5.16	103	59.0-147	
1,2,3-Trimethylbenzene	5.00	5.06	101	77.0-120	
1,2,4-Trimethylbenzene	5.00	4.97	99.4	76.0-121	
1,3,5-Trimethylbenzene	5.00	4.98	99.6	76.0-122	
Vinyl chloride	5.00	5.24	105	67.0-131	
Xylenes, Total	15.0	14.5	96.7	79.0-123	
o-Xylene	5.00	4.81	96.2	80.0-122	
m&p-Xylene	10.0	9.69	96.9	80.0-122	
(S) Toluene-d8			*107*	*80.0-120*	
(S) 4-Bromofluorobenzene			*106*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*105*	*70.0-130*	

L1278590-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1278590-01 10/28/20 22:12 • (MS) R3586993-3 10/28/20 23:34 • (MSD) R3586993-4 10/28/20 23:54

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 %
Benzene	5.00	U	5.42	5.01	108	100	1	17.0-158			7.86	27
Bromochloromethane	5.00	U	5.62	5.32	112	106	1	38.0-142			5.48	26
Carbon disulfide	5.00	0.110	4.38	3.96	85.4	77.0	1	10.0-156			10.1	28
Acetone	25.0	U	28.8	25.3	115	101	1	10.0-160			12.9	35

L1278590-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1278590-01 10/28/20 22:12 • (MS) R3586993-3 10/28/20 23:34 • (MSD) R3586993-4 10/28/20 23:54

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 %
Acrolein	25.0	U	89.2	88.5	357	354	1	10.0-160	J5	J5	0.788	39
Acrylonitrile	25.0	U	33.2	31.8	133	127	1	21.0-160			4.31	32
Bromobenzene	5.00	U	5.87	5.45	117	109	1	30.0-149			7.42	28
Bromodichloromethane	5.00	U	5.65	5.31	113	106	1	31.0-150			6.20	27
Bromoform	5.00	U	5.75	5.40	115	108	1	29.0-150			6.28	29
Bromomethane	5.00	U	4.97	4.27	99.4	85.4	1	10.0-160			15.2	38
n-Butylbenzene	5.00	U	5.06	4.96	101	99.2	1	31.0-150			2.00	30
sec-Butylbenzene	5.00	U	5.39	5.22	108	104	1	33.0-155			3.20	29
tert-Butylbenzene	5.00	U	5.46	5.25	109	105	1	34.0-153			3.92	28
Carbon tetrachloride	5.00	U	5.54	5.20	111	104	1	23.0-159			6.33	28
Chlorobenzene	5.00	U	5.47	5.10	109	102	1	33.0-152			7.00	27
Chlorodibromomethane	5.00	U	5.65	5.35	113	107	1	37.0-149			5.45	27
Chloroethane	5.00	U	5.19	4.78	104	95.6	1	10.0-160			8.22	30
Ethylbenzene	5.00	U	5.27	4.84	105	96.8	1	30.0-155			8.51	27
Chloroform	5.00	U	5.71	5.31	114	106	1	29.0-154			7.26	28
Chloromethane	5.00	U	4.29	3.91	85.8	78.2	1	10.0-160			9.27	29
2-Chlorotoluene	5.00	U	5.51	5.19	110	104	1	32.0-153			5.98	28
4-Chlorotoluene	5.00	U	5.43	5.11	109	102	1	32.0-150			6.07	28
1,2-Dibromo-3-Chloropropane	5.00	U	5.68	5.89	114	118	1	22.0-151			3.63	34
Dibromomethane	5.00	U	5.76	5.48	115	110	1	30.0-151			4.98	27
1,2-Dichlorobenzene	5.00	U	5.61	5.44	112	109	1	34.0-149			3.08	28
1,3-Dichlorobenzene	5.00	U	5.53	5.18	111	104	1	36.0-146			6.54	27
1,4-Dichlorobenzene	5.00	U	5.37	5.21	107	104	1	35.0-142			3.02	27
Dichlorodifluoromethane	5.00	U	4.80	3.98	96.0	79.6	1	10.0-160			18.7	29
1,1-Dichloroethane	5.00	U	5.46	5.11	109	102	1	25.0-158			6.62	27
1,2-Dichloroethane	5.00	U	5.99	5.61	120	112	1	29.0-151			6.55	27
1,1-Dichloroethene	5.00	U	5.12	4.79	102	95.8	1	11.0-160			6.66	29
cis-1,2-Dichloroethene	5.00	0.954	6.48	6.06	111	102	1	10.0-160			6.70	27
trans-1,2-Dichloroethene	5.00	U	5.10	4.79	102	95.8	1	17.0-153			6.27	27
1,2-Dichloropropane	5.00	U	5.68	5.34	114	107	1	30.0-156			6.17	27
1,1-Dichloropropene	5.00	U	5.41	5.02	108	100	1	25.0-158			7.48	27
1,3-Dichloropropane	5.00	U	5.80	5.59	116	112	1	38.0-147			3.69	27
cis-1,3-Dichloropropene	5.00	U	5.67	5.35	113	107	1	34.0-149			5.81	28
Toluene	5.00	U	5.41	4.97	108	99.4	1	26.0-154			8.48	28
trans-1,3-Dichloropropene	5.00	U	5.56	5.26	111	105	1	32.0-149			5.55	28
2,2-Dichloropropane	5.00	U	5.39	4.99	108	99.8	1	24.0-152			7.71	29
Di-isopropyl ether	5.00	U	6.15	5.78	123	116	1	21.0-160			6.20	28
Hexachloro-1,3-butadiene	5.00	U	4.89	5.07	97.8	101	1	20.0-154			3.61	34
Isopropylbenzene	5.00	U	5.42	5.10	108	102	1	28.0-157			6.08	27
p-Isopropyltoluene	5.00	U	5.21	5.09	104	102	1	30.0-154			2.33	29

L1278590-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1278590-01 10/28/20 22:12 • (MS) R3586993-3 10/28/20 23:34 • (MSD) R3586993-4 10/28/20 23:54

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 %
2-Butanone (MEK)	25.0	U	37.5	36.0	150	144	1	10.0-160			4.08	32
Xylenes, Total	15.0	U	15.7	14.6	105	97.3	1	29.0-154			7.26	28
Methylene Chloride	5.00	U	5.05	4.64	101	92.8	1	23.0-144			8.46	28
4-Methyl-2-pentanone (MIBK)	25.0	U	32.9	32.3	132	129	1	29.0-160			1.84	29
Methyl tert-butyl ether	5.00	U	6.17	5.95	123	119	1	28.0-150			3.63	29
o-Xylene	5.00	U	5.25	4.84	105	96.8	1	45.0-144			8.13	26
m&p-Xylenes	10.0	U	10.4	9.77	104	97.7	1	43.0-146			6.25	26
Naphthalene	5.00	1.06	5.40	5.88	86.8	96.4	1	12.0-156			8.51	35
n-Propylbenzene	5.00	U	5.35	5.07	107	101	1	31.0-154			5.37	28
Styrene	5.00	U	5.45	5.10	109	102	1	33.0-155			6.64	28
1,1,1,2-Tetrachloroethane	5.00	U	5.34	4.96	107	99.2	1	36.0-151			7.38	29
1,1,2,2-Tetrachloroethane	5.00	U	6.38	6.29	128	126	1	33.0-150			1.42	28
Tetrachloroethene	5.00	U	5.08	4.69	102	93.8	1	10.0-160			7.98	27
1,1,2-Trichlorotrifluoroethane	5.00	U	3.69	3.35	73.8	67.0	1	23.0-160			9.66	30
1,2,3-Trichlorobenzene	5.00	U	5.27	5.58	105	112	1	17.0-150			5.71	36
1,2,4-Trichlorobenzene	5.00	U	4.99	5.21	99.8	104	1	24.0-150			4.31	33
1,1,1-Trichloroethane	5.00	U	5.70	5.13	114	103	1	23.0-160			10.5	28
1,1,2-Trichloroethane	5.00	U	5.85	5.69	117	114	1	35.0-147			2.77	27
Trichloroethene	5.00	18.1	24.4	23.8	126	114	1	10.0-160			2.49	25
Trichlorofluoromethane	5.00	U	5.53	5.19	111	104	1	17.0-160			6.34	31
1,2,3-Trimethylbenzene	5.00	U	5.35	5.23	107	105	1	32.0-149			2.27	28
1,2,4-Trimethylbenzene	5.00	U	5.25	4.92	105	98.4	1	26.0-154			6.49	27
1,3,5-Trimethylbenzene	5.00	U	5.31	5.05	106	101	1	28.0-153			5.02	27
Vinyl chloride	5.00	U	5.07	4.53	101	90.6	1	10.0-160			11.2	27
(S) Toluene-d8					*106*	*106*		*80.0-120*				
(S) 4-Bromofluorobenzene					*104*	*106*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*108*	*107*		*70.0-130*				

L1276033-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1276033-03 10/29/20 01:38 • (MS) R3586993-5 10/29/20 04:41 • (MSD) R3586993-6 10/29/20 05:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	43.4	45.5	45.4	42.0	40.0	1	17.0-158			0.220	27
Bromochloromethane	5.00	U	5.20	4.48	104	89.6	1	38.0-142			14.9	26
Carbon disulfide	5.00	0.198	3.61	3.47	68.2	65.4	1	10.0-156			3.95	28
Acetone	25.0	U	116	114	464	456	1	10.0-160	J5	J5	1.74	35
Acrolein	25.0	U	162	146	648	584	1	10.0-160	J5	J5	10.4	39
Acrylonitrile	25.0	U	42.2	36.6	169	146	1	21.0-160	J5		14.2	32

L1276033-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1276033-03 10/29/20 01:38 • (MS) R3586993-5 10/29/20 04:41 • (MSD) R3586993-6 10/29/20 05:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromobenzene	5.00	U	6.83	6.00	137	120	1	30.0-149			12.9	28
Bromodichloromethane	5.00	U	5.09	4.43	102	88.6	1	31.0-150			13.9	27
Bromoform	5.00	U	5.48	4.38	110	87.6	1	29.0-150			22.3	29
Bromomethane	5.00	U	3.94	3.45	78.8	69.0	1	10.0-160			13.3	38
n-Butylbenzene	5.00	1.67	5.99	5.56	86.4	77.8	1	31.0-150			7.45	30
sec-Butylbenzene	5.00	2.91	7.40	7.12	89.8	84.2	1	33.0-155			3.86	29
tert-Butylbenzene	5.00	0.368	5.29	4.64	98.4	85.4	1	34.0-153			13.1	28
Carbon tetrachloride	5.00	U	4.54	4.38	90.8	87.6	1	23.0-159			3.59	28
Chlorobenzene	5.00	U	4.91	4.24	98.2	84.8	1	33.0-152			14.6	27
Chlorodibromomethane	5.00	U	5.33	4.44	107	88.8	1	37.0-149			18.2	27
Chloroethane	5.00	U	4.29	4.20	85.8	84.0	1	10.0-160			2.12	30
Ethylbenzene	5.00	12.7	16.2	15.9	70.0	64.0	1	30.0-155			1.87	27
Chloroform	5.00	U	5.84	5.27	117	105	1	29.0-154			10.3	28
Chloromethane	5.00	U	3.77	3.70	75.4	74.0	1	10.0-160			1.87	29
2-Chlorotoluene	5.00	U	4.87	4.34	97.4	86.8	1	32.0-153			11.5	28
4-Chlorotoluene	5.00	U	5.00	4.38	100	87.6	1	32.0-150			13.2	28
1,2-Dibromo-3-Chloropropane	5.00	U	5.93	4.74	119	94.8	1	22.0-151			22.3	34
Dibromomethane	5.00	U	5.66	4.90	113	98.0	1	30.0-151			14.4	27
1,2-Dichlorobenzene	5.00	U	5.28	4.55	106	91.0	1	34.0-149			14.9	28
1,3-Dichlorobenzene	5.00	U	4.96	4.25	99.2	85.0	1	36.0-146			15.4	27
1,4-Dichlorobenzene	5.00	U	5.11	4.30	102	86.0	1	35.0-142			17.2	27
Dichlorodifluoromethane	5.00	2.57	5.94	6.35	67.4	75.6	1	10.0-160			6.67	29
1,1-Dichloroethane	5.00	U	5.13	4.66	103	93.2	1	25.0-158			9.60	27
1,2-Dichloroethane	5.00	U	5.79	4.96	116	99.2	1	29.0-151			15.4	27
1,1-Dichloroethene	5.00	U	4.06	3.98	81.2	79.6	1	11.0-160			1.99	29
cis-1,2-Dichloroethene	5.00	U	4.99	4.56	99.8	91.2	1	10.0-160			9.01	27
trans-1,2-Dichloroethene	5.00	U	4.28	3.98	85.6	79.6	1	17.0-153			7.26	27
1,2-Dichloropropane	5.00	U	5.10	4.62	102	92.4	1	30.0-156			9.88	27
1,1-Dichloropropene	5.00	U	4.54	4.22	90.8	84.4	1	25.0-158			7.31	27
1,3-Dichloropropane	5.00	U	5.48	4.51	110	90.2	1	38.0-147			19.4	27
cis-1,3-Dichloropropene	5.00	U	5.19	4.36	104	87.2	1	34.0-149			17.4	28
Toluene	5.00	7.26	7.02	6.69	0.000	0.000	1	26.0-154	J6	J6	4.81	28
trans-1,3-Dichloropropene	5.00	U	5.14	4.23	103	84.6	1	32.0-149			19.4	28
2,2-Dichloropropane	5.00	U	4.11	3.92	82.2	78.4	1	24.0-152			4.73	29
Di-isopropyl ether	5.00	U	5.63	4.81	113	96.2	1	21.0-160			15.7	28
Hexachloro-1,3-butadiene	5.00	U	4.46	4.35	89.2	87.0	1	20.0-154			2.50	34
Isopropylbenzene	5.00	7.57	12.0	11.6	88.6	80.6	1	28.0-157			3.39	27
p-Isopropyltoluene	5.00	0.514	5.10	4.80	91.7	85.7	1	30.0-154			6.06	29
2-Butanone (MEK)	25.0	U	44.9	40.4	180	162	1	10.0-160	J5	J5	10.6	32
Xylenes, Total	15.0	39.7	47.7	46.4	53.3	44.7	1	29.0-154			2.76	28

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

L1276033-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1276033-03 10/29/20 01:38 • (MS) R3586993-5 10/29/20 04:41 • (MSD) R3586993-6 10/29/20 05:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methylene Chloride	5.00	U	4.06	3.46	81.2	69.2	1	23.0-144			16.0	28
4-Methyl-2-pentanone (MIBK)	25.0	U	32.6	26.1	130	104	1	29.0-160			22.1	29
Methyl tert-butyl ether	5.00	U	5.94	5.10	119	102	1	28.0-150			15.2	29
o-Xylene	5.00	2.76	5.90	5.44	62.8	53.6	1	45.0-144			8.11	26
m&p-Xylenes	10.0	36.9	41.8	41.0	49.0	41.0	1	43.0-146		J6	1.93	26
Naphthalene	5.00	3.92	6.08	5.66	43.2	34.8	1	12.0-156			7.16	35
n-Propylbenzene	5.00	17.0	20.9	20.8	78.0	76.0	1	31.0-154			0.480	28
Styrene	5.00	U	4.98	4.30	99.6	86.0	1	33.0-155			14.7	28
1,1,1,2-Tetrachloroethane	5.00	U	4.94	4.19	98.8	83.8	1	36.0-151			16.4	29
1,1,2,2-Tetrachloroethane	5.00	U	6.29	5.20	126	104	1	33.0-150			19.0	28
Tetrachloroethene	5.00	U	4.32	3.86	86.4	77.2	1	10.0-160			11.2	27
1,1,2-Trichlorotrifluoroethane	5.00	U	3.04	3.28	60.8	65.6	1	23.0-160			7.59	30
1,2,3-Trichlorobenzene	5.00	U	5.06	4.81	101	96.2	1	17.0-150			5.07	36
1,2,4-Trichlorobenzene	5.00	U	4.95	4.57	99.0	91.4	1	24.0-150			7.98	33
1,1,1-Trichloroethane	5.00	U	4.70	4.39	94.0	87.8	1	23.0-160			6.82	28
1,1,2-Trichloroethane	5.00	U	6.44	5.82	129	116	1	35.0-147			10.1	27
Trichloroethene	5.00	U	4.57	4.02	91.4	80.4	1	10.0-160			12.8	25
Trichlorofluoromethane	5.00	U	4.28	4.25	85.6	85.0	1	17.0-160			0.703	31
1,2,3-Trimethylbenzene	5.00	13.9	17.4	17.1	70.0	64.0	1	32.0-149			1.74	28
1,2,4-Trimethylbenzene	5.00	32.6	33.9	33.9	26.0	26.0	1	26.0-154			0.000	27
1,3,5-Trimethylbenzene	5.00	0.926	4.81	4.32	77.7	67.9	1	28.0-153			10.7	27
Vinyl chloride	5.00	U	3.97	3.97	79.4	79.4	1	10.0-160			0.000	27
(S) Toluene-d8					*106*	*105*		*80.0-120*				
(S) 4-Bromofluorobenzene					*106*	*105*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*107*	*106*		*70.0-130*				

Method Blank (MB)

(MB) R3587826-3 10/29/20 09:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Toluene	U		0.278	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	*101*			*80.0-120*
(S) 4-Bromofluorobenzene	*97.9*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*84.7*			*70.0-130*

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

(LCS) R3587826-1 10/29/20 08:51 • (LCSD) R3587826-2 10/29/20 09:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	5.22	5.27	104	105	70.0-123			0.953	20
Ethylbenzene	5.00	5.59	5.48	112	110	79.0-123			1.99	20
Hexachloro-1,3-butadiene	5.00	4.43	4.62	88.6	92.4	54.0-138			4.20	20
Methyl tert-butyl ether	5.00	4.78	4.97	95.6	99.4	68.0-125			3.90	20
Naphthalene	5.00	4.05	4.22	81.0	84.4	54.0-135			4.11	20
n-Propylbenzene	5.00	4.30	4.28	86.0	85.6	77.0-124			0.466	20
Toluene	5.00	5.11	5.29	102	106	79.0-120			3.46	20
1,2,3-Trimethylbenzene	5.00	4.29	4.33	85.8	86.6	77.0-120			0.928	20
1,2,4-Trimethylbenzene	5.00	4.25	4.27	85.0	85.4	76.0-121			0.469	20
1,3,5-Trimethylbenzene	5.00	4.05	4.01	81.0	80.2	76.0-122			0.993	20
Xylenes, Total	15.0	16.4	16.7	109	111	79.0-123			1.81	20
o-Xylene	5.00	5.66	5.55	113	111	80.0-122			1.96	20
m&p-Xylenes	10.0	10.7	11.1	107	111	80.0-122			3.67	20
(S) Toluene-d8				*99.9*	*99.9*	*80.0-120*				
(S) 4-Bromofluorobenzene				*99.2*	*98.1*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*88.6*	*86.5*	*70.0-130*				

Method Blank (MB)

(MB) R3587180-1 10/29/20 11:02

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	*86.0*			*60.0-120*

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

(LCS) R3587180-2 10/29/20 11:22 • (LCSD) R3587180-3 10/29/20 11:42

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	%	%	%			%	%
AK102 DRO C10-C25	3000	2400	2510	80.0	83.7	75.0-125			4.48	20
(S) o-Terphenyl				*81.0*	*82.7*	*60.0-120*				

L1276033-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1276033-03 10/29/20 13:23 • (MS) R3587180-6 10/29/20 13:43 • (MSD) R3587180-7 10/29/20 14:03

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	535	3290	3170	91.8	87.8	1	75.0-125			3.72	20
(S) o-Terphenyl					*84.5*	*82.5*		*50.0-150*				

L1276654-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1276654-09 10/29/20 18:47 • (MS) R3587180-8 10/29/20 19:08 • (MSD) R3587180-9 10/29/20 19:28

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	2810	2840	93.7	94.7	1	75.0-125			1.06	20
(S) o-Terphenyl					*89.5*	*87.0*		*50.0-150*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
C4	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Data is likely to show a low bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
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

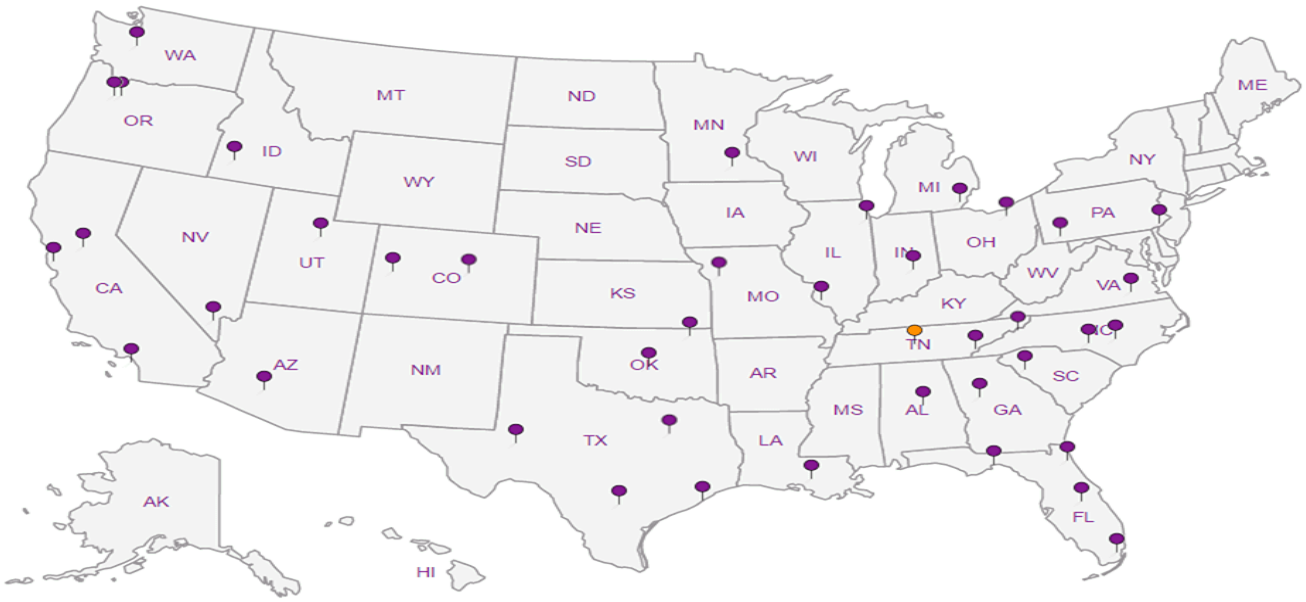
Third Party Federal Accreditations

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

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 (AKST)

Phone: 907-276-8095

Client Project # 30043260.5133

Lab Project # CHEVARCAK-95414

Collected by (print): E. Wojik

Site/Facility ID # 95414

P.O. # 30043260.5133

Collected by (signature):

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	123TCP/EDB V524LL 40mlAmb-HCl	AK101 40mlAmb HCl	AK102 100ml Amb HCl	VOCs 8260D 40mlAmb-HCl								Remarks	Sample # (lab only)
							HCl	HCl	HCl	HCl									
EQB-1-W-201019	Grab	GW	—	10.19.20	0800	11	X	X	X	X									01
MW-10-W-201019	Grab	GW	—	10.19.20	1000	11	X	X	X	X									02
MW-8-W-201019	Grab	GW	—	10.19.20	1100	33	X	X	X	X								MS/MSD	03
BD-1-W-201019	Grab	GW	—	10.19.20	—	11	X	X	X	X									04
Trip Blank	—	GW	—	10.19.20	—	3	X	X		X									05
		GW																	
		GW																	
		GW																	

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

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 # 276033

H021

Acctnum: CHEVARCAK

Template: T175808

Prelogin: P802943

PM: 110 - Brian Ford

PB: DN 10/9

Shipped Via:

* 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 0892 9972

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
	10.20.20	0800		3	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.1/3 °C Bottles Received: 30-2=28 66	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-21-20 Time: 900	Hold: Condition: NCF / OK
			MPappas		

APPENDIX D

ADEC Data Review Checklist

Laboratory Data Review Checklist

Completed By:

Bhagyashree A Fulzele

Title:

Project Chemist

Date:

November 12,2020

Consultant Firm:

ARCADIS U.S., Inc

Laboratory Name:

Pace Analytical

Laboratory Report Number:

L1276033

Laboratory Report Date:

11/02/2020

CS Site Name:

Fourth 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:

Not applicable.

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:

Not applicable.

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:

No.

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

Comments:

Method SW846 8260D: Compounds n-butylbenzene, sec-butylbenzene, carbon disulfide, hexachloro-1,3-butadiene, p-isopropyltoluene and 1,2,3-trichlorobenzene were detected below the reporting limit in preparation batch WG1567183. A blank action level was established at five times of the reported blank concentration. Compound n-butylbenzene result in sample BD-1-W-201019 was qualified as non-detect (UB) at reporting limit and in samples MW-10-W-201019 and MW-8-W-201019 qualified as non-detect (UB) at sample detection limit. Compound sec-butylbenzene result in samples MW-10-W-201019 and BD-1-W-201019 was qualified as non-detect (UB) at reporting limit. Compound carbon disulfide result in samples EQB-1-W-201019, MW-10-W-201019, MW-8-W-201019, BD-1-W-201019 and TRIP BLANK-201019 was qualified as non-detect (UB) at reporting limit. Compound p-isopropyltoluene result in sample MW-8-W-201019 was qualified as non-detect (UB) at reporting limit. Compounds hexachloro-1,3-butadiene and 1,2,3-trichlorobenzene were not detect in any of the associated samples, hence no other qualification was required.

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

Yes☒ No☐ N/A☐ Comments:

Yes.

v. Data quality or usability affected?

Comments:

The method blank contamination considered as minor and would result in the non-detect of associated data. The reported data should still consider as usable.

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:

Not applicable.

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 recovery for compound 1,1,2-trichlorotrifluoroethane was less than the control limit in preparation batch WG1567183. The compound in the associated samples was qualified as estimated (UJ)

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 1,1,2-trichlorotrifluoroethane result in samples EQB-1-W-201019, MW-10-W-201019, MW-8-W-201019, BD-1-W-201019 and TRIP BLANK-201019 was qualified as estimated (UJ).

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 recovey 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-8-W-201019 for method SW846 8260D, AK101 and AK102.

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

Yes☐ No☐ N/A☒ Comments:

Not applicable.

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 lower than the control limit for compound TPHGAK C6 to C10 in sample MW-8-W-201019 and qualified as estimated (J).

Method SW846 8260D: MS and/or MSD recovery was greater than the control limit for compounds 1,2-dibromoethane, acetone, acrolein, acrylonitrile and 2-butanone (MEK)in sample MW-8-W-201019. The compounds in the associated sample was non-detect hence no other qualification was required.

MS/MSD recovery was lesser than the control limit for compounds toluene and m&p-xylenes in sample MW-8-W-201019. The compound in the associated sample was qualified as estimated (J).

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-8-W-201019 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-8-W-201019 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 and RPD exceedances 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:

Not applicable.

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-201019.

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:

No.

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

Comments:

Method SW846 8260D: Compound carbon disulfide was detected less than the reporting limit in TRIP BLANK-201019. A blank action level was established at five times of the detected blank concentration. Compound carbon disulfide result in samples MW-10-W-201019, MW-8-W-201019 and BD-1-W-201019 was qualified as non-detect (UB) at reporting limit.

v. Data quality or usability affected?

Comments:

The trip blank contamination is considered minor and would result in the non-detect of the associated data. The reported data should still consider as usable.

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-201019 was collected from samples MW-10-W-201019.

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:

The field duplicate RPD between the parent and duplicate samples were acceptable.

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

Comments:

Data quality or usability was not affected.

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-201019.

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

Yes☐ No☒ N/A☐ Comments:

No.

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

Comments:

Method SW846 8260D: Compound carbon disulfide was detected less than the reporting limit in TRIP BLANK-201019. A blank action level was established at five times of the detected blank concentration. Compound carbon disulfide result in samples MW-10-W-201019, MW-8-W-201019 and BD-1-W-201019 was qualified as non-detect (UB) at reporting limit.

iii. Data quality or usability affected?

Comments:

The equipment blank contamination is considered minor and would result in the non-detect of the associated data. The reported data should still consider as usable.

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

a. Defined and appropriate?

Yes☒ No☐ N/A☐ Comments:

Yes.