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Mr. Robert Weimer
Alaska Department of Environmental Conservation (ADEC)
555 Cordova Street
Anchorage, Alaska 95501

Subject:
2019 Groundwater Monitoring Report, First Semi-Annual

ENVIRONMENT

Dear Mr. Weimer,

Date:
December 19, 2019

On behalf of Chevron Environmental Management Company (Chevron), Arcadis US, Inc. (Arcadis) has prepared the attached *2019 Groundwater Monitoring Report* for the first semi-annual groundwater sampling event for the following facility:

Chevron Service Station No.	ADEC File No.	Hazard ID:	Location
90430	2100.26.010	23615	6470 Debarr Road. Anchorage, Alaska

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

Sincerely,

Arcadis U.S., Inc.

Contact:
Nicole Monroe

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Our ref:
30015172

Nicole Monroe, P.E.
Project Manager
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ARCADIS Design & Consultancy for natural and built assets

Chevron Environmental Management Company

2019 FIRST SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Chevron Site No. 90430
6470 Debarr Road
Anchorage, Alaska
ADEC File No. 2100.26.010

December 19, 2019

2019 FIRST SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Former Chevron Branded Service Station 90430

6470 Debarr Road
Anchorage, Alaska

ADEC File ID: 2100.26.010
Hazard ID: 23615

Prepared for:

Chevron Environmental Management Company

Evan Wujcik
Environmental Engineer

Max Elias
Environmental Scientist

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Our Ref.:
30015172

Date:
December 19, 2019

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SEMI-ANNUAL STATUS REPORT
FIRST HALF 2019
December 19, 2019

Facility No:	Former Chevron-Branded Service Station. 90430	Address:	6470 Debarr Road, Anchorage, Alaska

Arcadis Contact Person / Phone No.:	Nicole Monroe / 503-785-9414
Arcadis Project No.:	30015172
Primary Agency/Regulatory ID No.:	Alaska Department of Environmental Conservation (ADEC) / Robert Weimer / ADEC file ID: 2100.26.010

WORK CONDUCTED THIS PERIOD [First Half 2019]:

1. Conducted semi-annual groundwater monitoring activities on April 23, 2019.
2. Well survey conducted on June 6, 2019
3. Prepared the *Semi-Annual Status Report, First Half 2019*.

WORK PROPOSED NEXT PERIOD [Second Half 2019]:

1. Conduct semi-annual groundwater monitoring activities in the second half of 2019.
2. Prepare the *Semi-Annual Status Report, Second Half 2019*.

Current Phase of Project:	Monitoring	
Frequency of Monitoring / Sampling:	Semi-Annual	
Is Liquid Non-Aqueous Phase Liquid (LNAPL) Present On-site:	No	
Cumulative LNAPL Recovered to Date:	0.0	(gallons)
Approximate Depth to Groundwater:	9.13 to 17.62	(feet below top of casing)
Approximate Groundwater Elevation:	214.24 to 220.06	(feet relative to corresponding datum)
Groundwater Flow Direction	West-Northwest	

Groundwater Gradient	0.04	(feet per foot)
Current Remediation Techniques:	None	
Permits for Discharge:	None	
Summary of Unusual Activity:	None	
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 first semi-annual groundwater sampling events of 2019 for Chevron facility 90430, located at 6470 Debarr Road, Anchorage, Alaska (the site). The site location and site plan are shown on Figure 1 and Figure 2.

This work was conducted under the direction of a "qualified person" [18 AAC 75. 990 (100), and 18 AAC 78.995 (118)]. A site background and historical summary are attached as Appendix A and field notes, data sheets, and general procedures are included as Attachment B.

2 GROUNDWATER MONITORING

2.1 Groundwater Gauging Methods

The 2019 first semi-annual groundwater gauging events was conducted on April 23, 2019. Site monitoring wells were gauged with an oil/water interface probe to determine depth-to-water and to ascertain if LNAPL was present. A well survey was conducted on June 6, 2019.

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 2019 first semi-annual event, monitoring wells MW-3, MW-4R, MW-5R, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-14, MW-15, MW-16 and MW-17 were scheduled to be gauged for groundwater elevations and the presence of LNAPL. The groundwater monitoring event field notes are presented in Appendix B.

The inferred groundwater flow direction for the second semi-annual 2019 monitoring events is to the west-northwest and is consistent with historical flow direction. Current and historical groundwater depth-to-water and elevation data are included in Table 1. A groundwater contour map is presented as Figure 4.

2.3 Groundwater Sampling Methods

The first semi-annual groundwater monitoring event was conducted on April 23, 2019. Groundwater samples were collected from monitoring wells MW-3, MW-4R, MW-5R, MW-7, MW-10, MW-11, MW-14, and MW-16 using a low flow sampling method.

Sampling procedures were conducted in accordance with ADEC *Field Sampling Guidance* (ADEC, 2017). 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 Eurofins Lancaster Laboratories Environmental (Eurofins) in Lancaster, Pennsylvania, under proper chain-of-custody procedures. Field notes documenting the first and second semi-annual event are presented in Appendix C.

Groundwater samples collected from monitoring wells MW-3, MW-5R, MW-7, MW-10, MW-11, MW-14, and MW-16 were also submitted to the analytical laboratory for MTBE by USEPA Method 8260C. Additionally, groundwater sampled from MW-4R were submitted for the following analyses:

- Lead by USEPA Method 6010C
- 1,2-Dibromoethane by USEPA Method SW-846 8011

A groundwater duplicate sample was collected from monitoring wells MW-10. The duplicate samples were analyzed for BTEX, TPH-g and MTBE. The duplicate samples were submitted blind with the sample set to Eurofins.

2.4 Groundwater Analytical Results

Routine analytical results for the above-mentioned constituents obtained from the first semi-annual 2019 groundwater monitoring event are summarized in Table 1 and are shown on Figure 4.

3 LABORATORY DATA QUALITY ASSURANCE SUMMARY

As required by ADEC (Technical Memorandum 06-002, dated March 2009), Arcadis completed a laboratory data review checklist for each of the laboratory reports generated for the 2019 first semi-annual event. The laboratory report is included as Appendix C and data review checklists are included as Appendix D. The following quality assurance (QA) 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 matrix spike / matrix spike duplicate (MS/MSD), laboratory control sample / laboratory control sample duplicate (LCS/LCSD) and field duplicates (FD) were within the control limits.

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 LCS/LCSD and MS/MSD were within the control limits.

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

3.3 Representativeness

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

3.4 Comparability

The laboratory results are presented in the same units as previous reports 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

The sensitivity of the analyses was adequate for the samples as the detection limits were less than the ADEC GCLs for compounds.

4 CONCLUSIONS AND RECOMMENDATIONS

The groundwater data collected during the first semi-annual 2019 event indicates groundwater flow directions (west-northwest) are generally consistent with historical data. During the first semi-annual 2019 groundwater monitoring events, groundwater samples were collected for analysis from monitoring wells MW-3, MW-4R, MW-5R, MW-7, MW-10, MW-11, MW-14, and MW-16. Analytical results from the monitoring wells are generally consistent with historical data.

Groundwater monitoring will continue in accordance with the current semi-annual schedule. The second semi-annual sampling event of 2019 will be conducted in the fall of 2019.

5 REFERENCES

ADEC. *Field Sampling Guidance*. Division of Spill Prevention and Response Contaminated Sites Program. August, 2017.

ADEC Technical Memorandum, March, 2017. *Data Quality Objectives, Checklists, Quality Assurance Requirements for Laboratory Data, and Sample Handling*. ADEC, Division of Spill Prevention and Response Contaminated Sites Program.

Appendix A: 90430 Site Description and Background

1 90430 SITE BACKGROUND AND HISTORY

1.1 Site Description and Vicinity

The former Chevron facility 90430 is located at 6470 Debarr Road in Anchorage, Alaska. The site currently consists of a vacant lot with secured fenced area and a drive-thru coffee shop. The surrounding properties are mixed commercial and residential; properties to the west are primarily commercial businesses, and those to the north, south, and east are residences.

1.2 Site History

The site originally included five underground storage tanks (USTs), one used oil UST, one heating oil UST, and piping. Station facilities were upgraded in 1995 and included three USTs, five dispenser pumps, and an oil/water separator. In 2000, the site was decommissioned and the facility building, USTs, dispenser pumps, and oil/water separator were removed from the property.

2 SITE CHARACTERIZATIONS

A soil and groundwater remediation system which included 27 air sparge (AS) wells and 13 soil vapor extraction (SVE) wells was shut down in February 2013 and removed in June 2014. Currently, 13 groundwater monitoring wells remain in place, nine of which are sampled semi-annually.

3 CURRENT SITE MONITORING ACTIVITIES

The site currently has a network of 13 monitoring wells (MW-33, MW-4R, MW-5R, MW-7 through MW-12, and MW-14 through MW-17). Historically, concentrations of benzene, gasoline range organics (GRO), and diesel range organics (DRO) have exceeded their respective ADEC Method 2 groundwater cleanup levels.

4 GEOLOGY AND HYDROGEOLOGY

4.1 Site Hydrogeology

The site is east of Cook Inlet within south-central Alaska. From 1993 until present, static groundwater depths at the site have ranged between 7.62 to 22.60 feet below top of casing (ft btoc).

5 REFERENCES

GHD Inc. 2018. Second Semiannual 2018 Groundwater Monitoring Report: Former Chevron-Branded Service Station 90430, 6470 Debarr Road, Anchorage, AK. November 9

TABLES

Table 1. Current Groundwater Gauging and Analytical Results
Former Chevron-Branded Service Station 90430
6470 Dbarr Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	Datum	DTW* (ft bTOC)	LNAPL thickness (feet)	GW Elev (ft)	TPH-g (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	Lead (mg/L)
ADEC Groundwater Cleanup Levels							**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.000075**	**0.015**
MW-3	04/23/2019	229.97	NADV88	10.70	0.00	219.27	**4.6**	**0.046**	**0.48**	**0.071**	**1.3**	--	--	--
MW-4R	04/23/2019	230.06	NADV88	10.61	0.00	219.45	**55**	**3.2**	**12 D**	**2.7**	**12**	--	<0.0000096	<0.0071
MW-5R	04/23/2019	231.17	NADV88	16.45	0.00	214.72	**1.4**	**0.61**	<0.001	<0.002	<0.005	**0.024**	--	--
MW-7	04/23/2019	231.51	NADV88	16.77	0.00	214.74	**1.2**	**0.18**	**0.017**	**0.055**	**0.15**	**0.0004 J**	--	--
MW-8	04/23/2019	232.68	NADV88	17.62	0.00	215.06	--	--	--	--	--	--	--	--
MW-9	04/23/2019	229.19	NADV88	9.13	0.00	220.06	--	--	--	--	--	--	--	--
MW-10	04/23/2019	229.56	NADV88	13.36	0.00	216.20	[<0.014] <0.014	[<0.0002] <0.0002	<0.0002] <0.0002	[<0.014] <0.014	[<0.001] <0.001	[<0.0002] <0.0002	--	--
MW-11	04/23/2019	231.74	NADV88	17.06	0.00	214.68	<0.014	<0.0002	<0.0002	<0.0004	<0.001	<0.0002	--	--
MW-12	04/23/2019	229.29	NADV88	13.48	0.00	215.81	--	--	--	--	--	--	--	--
MW-14	04/23/2019	229.59	NADV88	9.75	0.00	219.84	**34**	**0.039**	**7.3 D**	**0.91**	**5.7 D**	--	--	--
MW-15	04/23/2019	233.09	NADV88	15.37	0.00	217.72	--	--	--	--	--	--	--	--
MW-16	04/23/2019	230.54	NADV88	16.30	0.00	214.24	<0.014	<0.0002	<0.0002	<0.0004	<0.001	<0.0002	--	--
MW-17	04/23/2019	230.06	NADV88	15.38	0.00	214.68	--	--	--	--	--	--	--	--
QA	04/23/2019	--	--	--	--	--	<0.014	<0.0002	<0.0002	<0.0004	<0.001	<0.0002	--	--

Notes:

ID = Identification
MW = Groundwater monitoring well
TOC = Top of casing
DTW = Depth to groundwater
ft bTOC = Feet below top of casing
ft = Feet
GW Elev = Groundwater elevation
mg/L = Milligrams per liter
<0.0002 = Not detected at or above the method detection limit (MDL)
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
Bold = Value exceeds MDL
LNAPL = Light Non-Aqueous Phase Liquid
[ ] = Blank Duplicate Sample Results
NADV88 = North American Vertical Datum of 1988
QA = Quality Assurance (Trip Blank Sample)

TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to Alaska Series Method AK101
Samples analyzed by USEPA Method 8260C:
Benzene, toluene, ethylbenzene and total xylenes (collectively BTEX)
MTBE = Methyl tert-butyl ether
EDB = 1,2-Dibromoethane by USEPA Method SW-846 8011
Lead by USEPA Method 6010C
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
D = The result reported from diluted analysis
* = Depth to water taken from Recent Survey Notes 6/6/2019
ADEC = Alaska Department of Environmental Conservation

Table 2. Historical Groundwater Gauging and Analytical Results
Third Quarter 1992 to Current
Former Chevron-Branded Service Station 90430
6470 Debarr Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft btoc)	LNAPL Thickness ft	GW Elev ft	TPH mg/L	TPH-g mg/L	Benzene mg/L	Toluene mg/L	Ethyl-benzene mg/L	Total Xylenes mg/L	MTBE mg/L	EDC mg/L	EDB mg/L	Lead mg/L	Naphthalene mg/L	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.0017**	**0.000075**	**0.015**	**0.0017**	
MW-3	8/26/1992	99.08	13.52	--	85.56	ND	**0.023**	**0.017**	**0.026**	ND	**0.027**	**--**	**--**	**--**	**--**	**--**	
MW-3	8/24/1993	99.08	15.33	--	83.75	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	11/08/1993	99.08	14.31	--	84.77	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	12/12/1994	99.08	15.81	--	84.11	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	3/20/1995	99.08	16.20	--	83.69	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	6/16/1995	99.08	13.40	--	86.24	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	8/25/1995	99.08	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Inaccessible
MW-3	11/14/1995	98.89	14.26	--	86.21	--	--	--	--	--	--	--	--	--	--	--	
MW-3	02/13/1996	98.89	15.98	--	84.49	--	--	--	--	--	--	--	--	--	--	--	
MW-3	5/30/1996	98.89	14.14	--	86.29	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/23/1996	98.89	15.75	--	84.59	--	--	--	--	--	--	--	--	--	--	--	
MW-3	10/22/1996	98.89	15.80	--	83.63	--	--	--	--	--	--	--	--	--	--	--	
MW-3	4/27/1997	98.89	14.14	--	84.81	--	--	--	--	--	--	--	--	--	--	--	
MW-3	9/08/1997	98.89	11.61	--	87.28	--	**155**	**7.99**	**45.4**	**5.94**	**32.6**	--	--	--	--	--	
MW-3	4/16/1998	98.89	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Inaccessible
MW-3	9/17/1998	98.89	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	4/26/1999	98.89	14.79	--	84.24	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Not sampled due to presence of LNAPL
MW-3	10/04/1999	223.31	11.62	--	211.69	--	--	--	--	--	--	--	--	--	--	--	
MW-3	5/24/2000	223.31	11.55	--	211.76	--	**366**	**57.5**	**82**	**4.76**	**27.1**	<1 / **0.0795**	--	--	--	--	
MW-3	9/28/2000	223.31	11.88	--	211.43	--	**192**	**19.3**	**49**	**3.96**	**24**	<2.5	--	--	--	--	
MW-3	5/09/2001	223.31	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Unable to locate
MW-3	9/30/2001	223.31	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Unable to locate
MW-3	5/03/2002	223.31	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Inaccessible
MW-3	10/01/2002	223.31	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Unable to locate
MW-3	6/03/2003	223.10	12.07	--	211.03	--	**160**	**10**	**31**	**2.7**	**20**	**0.035**	**--**	**--**	**--**	**--**	
MW-3	10/05/2003	223.10	7.71	--	215.39	--	**16**	**0.37**	**1.9**	**0.25**	**2.8**	<0.002	**--**	**--**	**--**	**--**	
MW-3	6/09/2004	223.10	11.24	--	211.86	--	**24**	**1.3**	**3.5**	**0.43**	**3.8**	**0.016**	**--**	**--**	**--**	**--**	
MW-3	9/27/2004	223.10	7.23	--	215.87	--	**11**	**0.23**	**2.1**	**0.5**	**5**	<0.003	**--**	**--**	**--**	**--**	
MW-3	5/15/2005	223.10	9.83	--	213.27	--	**5.4**	**0.23**	**0.68**	**0.081**	**0.59**	**0.003**	**--**	**--**	**--**	**--**	
MW-3	9/26/2005	223.10	8.52	--	214.58	--	<0.01	<0.0005	<0.0005	<0.0005	**0.0006**	<0.002	**--**	**--**	**--**	**--**	
MW-3	5/12/2006	223.10	10.84	--	212.26	--	**75 / 70**	**2.9 / 2.9**	**14 / 12**	**1.9 / 1.5**	**9.8 / 7.8**	**0.029 / 0.03**	**--**	**--**	**--**	**--**	
MW-3	9/27/2006	222.52	9.65	--	212.87	--	**180 / 150**	**3.4 / 3.2**	**25 / 25**	**4.3 / 3.8**	**22 / 20**	<0.025 / <0.025	**--**	**--**	**--**	**--**	
MW-3	5/23/2007	222.52	10.49	--	212.03	--	**170 / 420**	**2.2 / 3.3**	**11 / 12**	**4.5 / 2.5**	**37 / 29**	**0.029 / 0.055**	**--**	**--**	**--**	**--**	
MW-3	9/20/2007	222.52	9.69	--	212.83	--	**41 / 35**	**0.46 / 0.17**	**2.7 / 0.98**	**0.44 / 0.18**	**13** / 10	<0.003 / <0.003	**--**	**--**	**--**	**--**	
MW-3	5/20/2008	222.52	9.30	--	213.22	--	**5.3 / 5.1**	**0.19 / 0.21**	**0.78 / 0.91**	**0.17 / 0.18**	**1.5 / 1.5**	**0.003 / 0.003**	**--**	**--**	**--**	**--**	
MW-3	9/13/2008	222.52	12.10	--	210.42	--	**120**	**11**	**19**	**1.6**	**27**	**0.013**	**--**	**--**	**--**	**--**	
MW-3	5/21/2009	222.52	10.46	--	212.06	--	**100**	**2**	**26**	**2.1**	**13**	<0.25	**--**	**--**	**--**	**--**	
MW-3	9/15/2009	222.52	12.40	--	210.12	--	**87**	**4.5**	**9.8**	**1.3**	**24**	**--**	**--**	**--**	**--**	**--**	
MW-3	6/22/2010	222.52	12.49	--	210.03	--	**23**	**1.8**	**2.6**	**0.13**	**5.3**	**--**	**--**	**--**	**--**	**0.0087**	
MW-3	10/03/2010	222.52	11.10	--	211.42	--	**23**	**2.6**	**1.8**	**0.080**	**4.6**	**--**	**--**	**--**	**--**	**--**	
MW-3	4/18/2011	222.52	8.61	--	213.91	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	**--**	**--**	**--**	**--**	**--**	
MW-3	10/05/2011	222.52	14.90	--	207.62	--	**47**	**5.0**	**8.0**	**0.59**	**10**	**--**	**--**	**--**	**--**	**--**	
MW-3	5/24/2012	222.52	12.70	--	209.82	--	**8.2**	**0.31**	**0.50**	**0.076**	**1.6**	**--**	**--**	**--**	**--**	**--**	
MW-3	8/2/2012	222.52	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Well dry
MW-3	5/14/2013	222.52	9.70	--	212.82	--	--	--	--	--	--					--	
MW-3	5/15/2013	--	--	--	--	--	<0.050	<0.00024	**0.00059 J**	<0.00024	**0.0011 J**	--	--	--	--	--	
MW-3	5/15/2013	--	--	--	--	--	<0.050	<0.00024	<0.00023	<0.00024	**0.00086 J**	--	--	--	--	--	Hydrasleeve sample; no purge
MW-3	9/17/2013	222.52	9.68	--	212.84	--	**0.17**	**0.024**	**0.0012**	<0.00024	**0.018**	--	--	--	--	--	
MW-3	4/29/2014	222.52	10.20	--	212.32	--	--	--	--	--	--	--	--	--	--	--	
MW-3	5/1/2014	--	--	--	--	--	<0.050	<0.00015	**0.00076 J**	**0.00024 J**	<0.00040	--	--	--	--	--	
MW-3	5/1/2014	--	--	--	--	--	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	--	--	--	--	--	Hydrasleeve sample; no purge
MW-3	10/03/2014	222.52	10.95	--	211.57	--	<0.050	**0.0056**	**0.0011**	**0.0012**	**0.0049**	--	--	--	--	--	
MW-3	5/05/2015	222.52	12.85	--	209.67	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	<0.0001	
MW-3	11/05/2015	222.52	10.28	--	212.24	--	<0.010	<0.0005	<0.0005	<0.0005	**0.0006 J**	--	--	--	--	<0.0001	
MW-3	04/18/2016	222.52	12.31	--	210.21	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	<0.0001	Hydrasleeve sample; no purge
MW-3	09/26/2016	222.52	10.44	--	212.08	--	<0.010	<0.0005	<0.0005	<0.0005	**0.0006 J**	--	--	<0.0000095	<0.0062	**0.0002 J**	Hydrasleeve sample; no purge
MW-3	04/25/2017	222.52	10.15	--	212.37	--	**0.77**	**0.002**	**0.035**	**0.013**	**0.20**	--	--	--	--	<0.0001	Hydrasleeve sample; no purge
MW-3	10/05/2017	222.52	11.09	--	211.43	--	**0.11**	**0.023**	**0.0005 J**	**0.007**	**0.010**	--	--	--	--	**0.0030**	Hydrasleeve sample; no purge
MW-3	4/23/2018	222.52	10.54	--	211.98	--	**0.067 J**	<0.0005	**0.002**	<0.0005	**0.017**	--	--	--	--	--	
MW-3	8/29/2018	221.47	11.34	--	210.13	--	**0.16**	**0.04**	**0.0004 J**	**0.002**	**0.004 J**	--	--	--	--	--	TOC adjusted for 2" cut in order for lid to be placed back on.
MW-3	4/23/2019	229.97	10.70	0.00	219.27	--	**4.6**	**0.046**	0.48	**0.071**	**1.3**	--	--	--	--	--	
MW-4	8/26/1992	99.63	15.35	--	84.28	ND	ND	**0.0033**	**0.005**	ND	ND	--	--	--	--	--	
MW-4	5/17/1993	99.63	13.49	--	86.14	ND	**0.085**	**0.004**	**0.005**	ND	ND	--	--	--	--	--	
MW-4	8/24/1993	99.63	16.08	--	83.55	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/08/1993	99.63	15.60	--	84.03	--	--	--	--	--	--	--	--	--	--	--	
MW-4	12/12/1994	99.63	16.95	--	82.69	--	--	--	--	--	--	--	--	--	--	--	
MW-4	3/20/1995	99.63	15.20	--	84.56	--	--	--	--	--	--	--	--	--	--	--	

Table 2. Historical Groundwater Gauging and Analytical Results
Third Quarter 1992 to Current
Former Chevron-Branded Service Station 90430
6470 Debarr Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft btoc)	LNAPL Thickness ft	GW Elev ft	TPH mg/L	TPH-g mg/L	Benzene mg/L	Toluene mg/L	Ethyl-benzene mg/L	Total Xylenes mg/L	MTBE mg/L	EDC mg/L	EDB mg/L	Lead mg/L	Naphthalene mg/L	Comments
	ADEC Groundwater Cleanup Levels					**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.0017**	**0.000075**	**0.015**	**0.0017**	
MW-4	6/16/1995	99.63	15.25	--	84.62	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/25/1995	99.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
MW-4	11/14/1995	99.93	15.95	--	84.27	--	--	--	--	--	--	--	--	--	--	--	
MW-4	02/13/1996	99.93	17.37	--	82.62	--	--	--	--	--	--	--	--	--	--	--	
MW-4	5/30/1996	99.93	18.68	--	82.65	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/23/1996	99.93	21.22	--	81.16	--	--	--	--	--	--	--	--	--	--	--	
MW-4	10/22/1996	99.93	18.31	--	81.99	--	--	--	--	--	--	--	--	--	--	--	
MW-4	4/27/1997	99.93	20.70	--	81.12	--	--	--	--	--	--	--	--	--	--	--	
MW-4	9/8/1997	99.93	16.29	--	83.64	--	**482**	**43.5**	**89.7**	**10.1**	**50.6**	--	--	--	--	--	
MW-4	4/16/1998	99.93	17.60	--	82.33	--	**522 / 254**	**43.9 / 21.6**	**79.5 / 43.6**	**10.8 / 6.03**	**56.1 / 31.8**	--	--	--	--	--	
MW-4	9/17/1998	99.93	16.85	--	83.08	--	**323 / 312**	**41 / 40.9**	**57.4 / 57.2**	**6.6 / 6.46**	**34.6 / 33.9**	--	--	--	--	--	
MW-4	4/26/1999	99.93	19.92	--	80.66	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to presence of LNAPL
MW-4	10/04/1999	224.41	12.81	--	211.60	--	--	--	--	--	--	--	--	--	--	--	
MW-4	5/24/2000	224.41	15.50	--	209.08	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to presence of LNAPL (skimmer in well)
MW-4	9/28/2000	224.41	15.74	--	208.72	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to presence of LNAPL (skimmer in well)
MW-4	5/9/2001	224.41	18.00	--	206.59	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to presence of LNAPL (skimmer in well)
MW-4	9/30/2001	224.41	18.39	--	206.23	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to presence of LNAPL (skimmer in well)
MW-4	5/3/2002	224.41	16.05	--	208.57	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to presence of LNAPL (skimmer in well)
MW-4	10/01/2002	224.41	14.60	--	210.03	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to presence of LNAPL (skimmer in well)
MW-4	6/3/2003	224.46	15.85	--	208.76	--	--	--	--	--	--	--	--	--	--	--	Not sampled due to presence of LNAPL (skimmer in well)
MW-4	10/05/2003	224.46	15.13	--	209.34	**--**	**310**	**9.3**	**33**	**6.5**	**36**	**10**	**--**	**--**	**--**	**--**	
MW-4	6/9/2004	224.46	13.93	--	210.67	**--**	**370**	**12**	**69**	**11**	**66**	**3.8**	**--**	**--**	**--**	**--**	
MW-4	9/27/2004	224.46	13.75	--	210.71	**--**	**130**	**21**	**14**	**3.7**	**16**	**5.1**	**--**	**--**	**--**	**--**	
MW-4	5/15/2005	224.46	12.11	--	212.35	**--**	**430**	**19**	**66**	**9.1**	**57**	**0.67**	**--**	**--**	**--**	**--**	
MW-4	9/26/2005	224.46	13.63	--	210.83	**--**	**1.7**	**0.34**	**0.27**	**0.022**	**0.13**	**0.004**	**--**	**--**	**--**	**--**	
MW-4	5/12/2006	224.46	13.56	--	210.90	**--**	**97**	**9.8**	**7.7**	**3**	**12**	**3.6**	<0.002	<0.002	**--**	**--**	
MW-4R	9/27/2006	223.21	10.35	--	212.86	**--**	**72**	**7.8**	**12**	**0.67**	**4.6**	<0.01	<0.01	<0.0000098	**--**	**--**	
MW-4R	5/23/2007	223.21	10.55	--	212.66	**--**	**31**	**2**	**3.4**	**0.37**	**3.1**	<0.005	<0.005	<0.0000097	**--**	**--**	
MW-4R	9/20/2007	223.21	9.89	--	213.32	**--**	**2.2**	**0.2**	**0.35**	**0.048**	**0.29**	<0.0005	<0.0005	<0.0000097	**--**	**--**	
MW-4R	5/20/2008	223.21	9.11	--	214.10	**--**	**1 / 0.9**	**0.008 / 0.007**	**0.11 / 0.09**	**0.025 / 0.022**	**0.18 / 0.15**	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0000094 / <0.0000093	**--**	**--**	
MW-4R	9/13/2008	223.21	12.46	--	210.75	**--**	**110**	**27**	**27**	**0.8**	**7.8**	<0.025	<0.025	<0.0000098	**--**	**--**	
MW-4R	5/21/2009	223.21	10.55	--	212.66	**--**	**0.84 / 2.7**	**0.075 / 0.23**	**0.13 / 0.37**	**0.023 / 0.064**	**0.11 / 0.32**	<0.0025 / <0.0025	<0.0005 / <0.0005	<0.0000097 / <0.0000096	**--**	**--**	
MW-4R	9/15/2009	223.21	12.77	--	210.44	**--**	**1.2 / 1.2**	**0.19 / 0.18**	**0.13 / 0.13**	**0.013 / 0.013**	**0.15 / 0.14**	--	--	<0.0000098 / <0.000010	**0.0069 J/0.0069 J**	--	
MW-4R	6/22/2010	223.21	12.63	--	210.58	**--**	**7.0**	**1.5**	**1.4**	**0.024**	**0.38**	--	--	<0.000018	**0.0069 J**	--	
MW-4R	10/03/2010	223.21	11.65	--	211.56	**--**	**2.1**	**0.39**	**0.29**	**0.029**	**0.17**	--	--	<0.0000098	< 0.0069	--	
MW-4R	4/18/2011	223.21	10.29	--	212.92	**--**	<0.010 / <0.010	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0015 / <0.0015	--	--	<0.0000095 / <0.0000094	**0.0185 / 0.0209**	--	
MW-4R	10/05/2011	223.21	15.05	--	208.16	**--**	**63 / 64**	**11 / 11**	**15 / 15**	**0.63 / 0.62**	**5.4 / 5.4**	--	--	<0.0000099 / <0.0000097	**0.0063 J / 0.0064 J**	--	
MW-4R	5/24/2012	223.21	12.72	--	210.49	**--**	**21 J / 150 J**	**1.9 J / 18 J**	**3.5 J / 32 J**	**0.19 J / 1.6 J**	**1.8 J / 11 J**	--	--	<0.0000096 / <0.0000096	<0.0022 / <0.0022	--	
MW-4R	8/2/2012	223.21	17.99	--	205.22	**--**	**--**	**--**	**--**	**--**	**--**	--	--	--	--	--	Insufficient water to sample
MW-4R	5/14/2013	223.21	10.03	--	213.18	**--**	**--**	**--**	**--**	**--**	**--**	--	--	--	--	--	
MW-4R	5/15/2013	--	--	--	--	**--**	**58.3**	**3.3**	**7.6**	**0.88**	**6.3**	--	--	**0.000016**	<0.0019	--	
MW-4R	5/15/2013	--	--	--	--	**--**	**0.13**	**0.0059**	**0.078**	**0.0051**	**0.051**	--	--	<0.0000027	<0.0019	--	Hydrasleeve sample; no purge
MW-4R	9/17/2013	223.21	10.21	--	213.00	**--**	**0.66 J / 4.8 J**	**0.013 J / 0.050 J**	**0.15 J / 0.38 J**	**0.033 J / 0.13 J**	**0.22 J / 0.55 J**	**-- / --**	**-- / --**	<0.0000026 / <<0.0000026	<0.0012 / **0.0024 J**	**-- / --**	
MW-4R	4/29/2014	223.21	10.56	--	212.65	**--**	**--**	**--**	**--**	**--**	**--**	--	--	--	--	--	
MW-4R	5/1/2014	--	--	--	--	**--**	**66.9**	**3.1**	**11.6**	**1.7**	**8.7**	--	--	<0.0000044 / <0.0000044	**0.00032 / 0.00037**	--	
MW-4R	5/1/2014	--	--	--	--	**--**	**0.44**	**0.0042**	**0.037**	**0.0049**	**0.16**	--	--	<0.0000044 / <0.0000044	**0.0023 J / 0.00096 J**	--	Hydrasleeve sample; no purge
MW-4R	10/03/2014	223.21	9.25	--	213.96	**--**	**10.6 J/14.6**	**0.14 J/0.49 J**	**0.69 J/2.5 J**	**0.21 J/0.46 J**	**1.2 J/2.5 J**	--	--	<0.000014/<0.000014	**0.00021/0.00013**	--	
MW-4R	5/5/2015	223.21	11.82	--	211.39	**--**	**82 / 93**	**2.7 / 3.0**	**15 / 20**	**2.4 / 2.6**	**11 / 12**	--	--	<0.0000097 / <0.0000097	<0.0047 / <0.0047	**0.041 / 0.033**	
MW-4R	4/18/2016	223.21	11.36	--	211.85	**--**	**28 J / 14 J**	**0.25 / 0.25**	**1.2 / 1.1**	**0.74 / 0.61**	**3.4 / 2.7**	--	--	<0.0000095 / 0.000053	**0.0067 J / --**	**0.030 / 0.035**	Hydrasleeve sample; no purge
MW-4R	9/26/2016	223.21	9.84	--	213.37	**--**	**77 / 76**	**3.8 / 4.3**	**15 / 17**	**1.8 / 2.1**	**8.9 / 9.5**	--	--	<0.000017 /<0.000017	<0.0062 / <0.0062	**0.036 / 0.036**	Hydrasleeve sample; no purge
MW-4R	4/26/2017	223.21	8.98	--	214.23	**--**	**46 / 56**	**2.9 / 2.9**	**12 / 13**	**1.7 / 1.7**	**9.0 / 8.9**	--	--	<0.0000096 / <0.0000097	<0.0062 / <0.0062	**0.037 / 0.029**	
MW-4R	10/04/2017	223.21	9.95	--	213.26	**--**	**17 / 22**	**0.77 / 0.83**	**3.9 / 4.8**	**0.73 / 0.79**	**3.3 / 3.6**	-- / <0.005	--	<0.0000098 / <0.0000097	<0.0060 / <0.0060	**0.036 / 0.033**	
MW-4R	4/23/2018	223.21	9.30	--	213.91	**--**	**1.3 / 1.9**	**0.093 / 0.064**	**0.37 / 0.31**	**0.18 / 0.14**	**0.65 / 0.50**	--	--	<0.0000094 / <0.0000095	<0.0060 / <0.0060	--	
MW-4R	8/29/2018	223.21	10.31	--	212.90	**--**	**0.84**	**0.009**	**0.11**	**0.041**	**0.18**	--	--	<0.0000096 R / <0.0000097 R	<0.0071 / <0.0071	--	
MW-4R	4/23/2019	230.06	10.61	0.00	219.45	**--**	**55**	**3.2**	**12 D**	**2.7**	**12**	--	--	<0.0000096	<0.0071	--	
MW-5	8/26/1992	100.01	16.75	--	83.26	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-5	5/17/1993	100.01	16.49	--	83.52	ND	**0.076**	**0.0005**	ND	ND	ND	--	--	--	--	--	
MW-5	8/24/1993	100.01	17.16	--	82.85	ND	ND	**0.002**	ND	ND	ND	--	--	--	--	--	
MW-5	11/08/1993	100.01	16.80	--	83.21	ND	ND	**0.001**	ND	ND	ND	--	--	--	--	--	
MW-5	3/20/1994	100.01	17.69	--	82.32	ND	ND	**0.0006**	ND	ND	ND	--	--	--	--	--	
MW-5	6/4/1994	100.01	16.87	--	83.14	ND	ND	**0.0009**	ND	ND	ND	--	--	--	--	--	
MW-5	8/18/1994	100.01	17.23	--	82.78	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-5	8/25/1995	100.01	17.23	--	--	ND	**0.88**	**0.65**	**0.0018**	ND	ND	--	--	--	--	--	
MW-5	11/14/1995	100.18	16.93	--	83.25	ND	**0.71**	**0.25**	ND	ND	ND	--	--	--	--	--	
MW-5	02/13/1996	100.18	17.78	--	82.40	ND	**27**	**5.5**	**0.12**	ND	ND	--	--	--	--	--	
MW-5	5/30/1996	100.18	18.26	--	81.92	**--**	**7.85**	**2.79**	<0.0005	**0.00223**	<0.0005	--	--	--	--	--	
MW-5	8/23/1996	100.18	18.40	--	81.78	**--**	**0.239**	**0.0926**	<0.0005	<0.0005	<0.001	--	--	--	--	--	

Table 2. Historical Groundwater Gauging and Analytical Results
Third Quarter 1992 to Current
Former Chevron-Branded Service Station 90430
6470 Debarr Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft btoc)	LNAPL Thickness ft	GW Elev ft	TPH mg/L	TPH-g mg/L	Benzene mg/L	Toluene mg/L	Ethyl-benzene mg/L	Total Xylenes mg/L	MTBE mg/L	EDC mg/L	EDB mg/L	Lead mg/L	Naphthalene mg/L	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.0017**	**0.000075**	**0.015**	**0.0017**	
MW-5	10/22/1996	100.18	18.80	--	81.38	--	**7.01 / 7.46**	**0.758 / 0.893**	<0.0005 / <0.0005	<0.0005 / 0.000566	<0.001 / <0.001	--	--	--	--	--	
MW-5	4/27/1997	100.18	17.96	--	82.22	--	**0.348**	<0.0005	<0.0005	<0.0005	<0.001	--	--	--	--	--	
MW-5	9/8/1997	100.18	16.85	--	83.33	--	**0.52 / 0.733**	<0.0005 / 0.00225	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	--	--	--	--	--	
MW-5	4/16/1998	100.18	16.85	--	83.33	--	**1.55**	**0.251**	<0.0005	<0.0005	<0.001	--	--	--	--	--	
MW-5	9/17/1998	100.18	17.15	--	83.03	--	**1.87**	**0.0249**	<0.0005	<0.0005	<0.001	--	--	--	--	--	
MW-5	4/26/1999	100.18	17.04	--	83.14	--	**4.32 / 4.78**	**2.18 / 2.14**	<0.05 / <0.05	<0.05 / <0.05	<0.05 / <0.05	**53.7 / 69.7 / 53.4**	--	--	--	--	
MW-5	10/04/1999	100.18	17.11	--	--	--	**0.309**	**0.141**	<0.0005	<0.0005	<0.0005	**38.5**	--	--	--	--	
MW-5	5/24/2000	100.18	16.80	--	83.38	--	**16.8**	**8.63**	<0.1	<0.1	<0.2	**72.1 / 38.4**	--	--	--	--	
MW-5	9/28/2000	100.18	16.97	--	83.21	--	<12.5	**0.71**	<0.125	<0.125	<0.25	**10.3**	--	--	--	--	
MW-5	5/9/2001	100.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
MW-5	9/30/2001	100.18	17.37	--	82.81	--	**1.05**	**0.52**	<0.005	<0.005	<0.01	**9.58 / 18.5 / 15.5**	--	--	--	--	
MW-5	5/3/2002	100.18	16.30	--	83.88	--	<0.05	**0.0082**	**0.000539**	<0.0005	<0.001	**0.366 / 0.365 / 0.311**	--	--	--	--	
MW-5	10/1/2002	100.18	16.36	--	83.82	--	--	--	--	--	--	--	--	--	--	--	
MW-5	12/05/2002	224.60	16.74	--	207.86	--	**44 / 43**	**19 / 17**	**0.42 / 0.23**	**0.42 / 0.41**	**0.013 / 0.034**	**58 / 52**	--	--	--	--	
MW-5	6/3/2003	224.60	16.96	--	207.64	--	**57**	**23**	<0.01	**0.53**	<0.01	**70**	--	--	--	--	
MW-5	10/05/2003	224.60	16.38	--	208.22	--	**23**	**9.9**	<0.025	**0.37**	<0.025	**29**	--	--	--	--	
MW-5	6/9/2004	224.60	16.71	--	207.89	--	**30**	**13**	<0.005	**0.48**	**0.019**	**36**	--	--	--	--	
MW-5	9/27/2004	224.60	16.29	--	208.31	--	**23**	**9.5**	**0.11**	**0.45**	<0.01	**17**	--	--	--	--	
MW-5	5/15/2005	224.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
MW-5	9/26/2005	224.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
MW-5R	9/27/2006	224.73	16.17	--	208.56	--	**30**	**11**	**0.29**	**0.43**	**0.02**	**4.4**	--	--	--	--	
MW-5R	5/23/2007	224.73	16.17	--	208.56	--	**27**	**7.6**	**0.13**	**0.36**	**0.089**	**7.7**	--	--	--	--	
MW-5R	9/20/2007	224.73	16.15	--	208.58	--	**28**	**10**	<0.0005	**0.42**	**0.011**	**12**	--	--	--	--	
MW-5R	5/20/2008	224.73	16.12	--	208.61	--	**1.7**	**0.56**	<0.0005	**0.022**	<0.0005	**0.94**	--	--	--	--	
MW-5R	9/13/2008	224.73	16.38	--	208.35	--	**3.8 / 3.2**	**1.4 / 1.2**	<0.001 / <0.001	**0.017 / 0.006**	<0.001 / <0.001	**1.6 / 1.5**	--	--	--	--	
MW-5R	5/21/2009	224.73	16.55	--	208.18	--	**4.6**	**2**	<0.0025	**0.0042**	<0.0075	**0.91**	--	--	--	--	
MW-5R	9/15/2009	224.73	16.74	--	207.99	--	<0.010	**0.0010 J**	<0.0005	<0.0005	<0.0015	--	--	--	--	--	
MW-5R	6/22/2010	224.73	17.07	--	207.66	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	**0.20**	--	--	--	--	
MW-5R	10/03/2010	224.73	16.50	--	208.23	--	**0.012 J**	<0.0005	<0.0005	<0.0005	<0.0015	**0.60**	--	--	--	--	
MW-5R	4/18/2011	224.73	16.35	--	208.38	--	**0.019 J**	<0.0005	<0.0005	<0.0005	<0.0005	**0.14**	--	--	--	--	
MW-5R	10/05/2011	224.73	16.80	--	207.93	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	**0.38**	--	--	--	--	
MW-5R	5/24/2012	224.73	16.11	--	208.62	--	**0.090 J**	<0.0005	<0.0005	<0.0005	<0.0005	**1.2**	--	--	--	--	
MW-5R	8/2/2012	224.73	15.98	--	208.75	--	**0.014 J**	<0.0005	<0.0005	<0.0005	<0.0015	**1.2**	--	--	--	--	
MW-5R	5/14/2013	224.73	15.48	--	209.25	--	--	--	--	--	--	--				--	
MW-5R	5/15/2013	--	--	--	--	--	<0.050	**0.00049 J**	<0.00023	<0.00024	<0.00072	**0.98**	--	--	--	--	
MW-5R	5/15/2013	--	--	--	--	--	**0.075 J**	<0.0060	<0.0058	<0.0059	<0.018	**1.6**	--	--	--	--	Hydrasleeve sample; no purge
MW-5R	9/17/2013	224.73	13.48	--	211.25	--	**0.54**	**2.0**	**0.0075 J**	**0.0043 J**	<0.0072	**1.1**	--	--	--	--	
MW-5R	4/29/2014	224.73	15.28	--	209.45	--	--	--	--	--	--	--	--	--	--	--	
MW-5R	5/1/2014	--	--	--	--	--	<0.050 / <0.050	<0.0015 / <0.0015	0.0049 J / <0.0028	<0.0016 / <0.0016	<0.0040 / <0.0040	**1.4 / 1.5**	--	--	--	--	
MW-5R	5/1/2014	--	--	--	--	--	<0.050 / <0.050	<0.0038 / <0.0038	<0.0028 / <0.0084	<0.0041 / <0.0041	<0.010 / <0.010	**3.0 / 3.2**	--	--	--	--	Hydrasleeve sample; no purge
MW-5R	10/03/2014	224.73	15.85	--	208.88	--	**0.13**	**0.030 J**	<0.0055	<0.0082	<0.020	**2.0**	--	--	--	--	
MW-5R	5/5/2015	224.73	16.38	--	208.35	--	**0.070 J / --**	**0.013 / 0.011**	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	**0.93 / 0.93**	--	--	--	<0.001	
MW-5R	11/05/2015	224.73	16.15	--	208.58	--	**8.9**	**2.9**	<0.005	<0.005	<0.005	**0.36**		--	--	<0.0001	
MW-5R	4/18/2016	224.73	16.21	--	208.52	--	**15**	**5.8**	<0.005	<0.005	<0.005	**0.29**	--	--	--	<0.0001	Hydrasleeve sample; no purge
MW-5R	9/26/2016	224.73	15.87	--	208.86	--	**8.2**	**4.3**	<0.003	<0.003	<0.003	--	--	<0.0000096	**0.0698**	<0.0001	Hydrasleeve sample; no purge
MW-5R	4/25/2017	224.73	15.12	--	209.61	--	**3.1 / 3.2**	**1.3 / 1.3**	<0.003 / 0.006	<0.003 / <0.003	<0.003/ 0.003 J	--	--	--	--	<0.00009 / <0.0001	Hydrasleeve sample; no purge
MW-5R	10/05/2017	224.73	16.28	--	208.45	--	**13 / 13**	**5.8 / 5.6**	<0.010 / <0.013	<0.010 / <0.013	<0.010 / <0.013	**0.16 / --**	--	--	--	<0.0001 / <0.0001	Hydrasleeve sample; no purge
MW-5R	4/23/2018	224.73	15.74	--	208.99	--	**8.7**	**4.4 / 4.2**	<0.005 / <0.005	<0.005 / <0.005	<0.005 / <0.005	**0.20 / 0.20**	--	--	--	--	
MW-5R	8/29/2018	224.73	15.96	--	208.77	--	**8.5**	**3.7 / 3.7**	<0.002 R / <0.002 R	<0.002 / 0.003 J	**0.007 J /** <0.002 R	**0.10 / 0.11**	--	--	--	--	
MW-5R	4/23/2019	231.17	16.45	0.00	214.72	--	**1.4**	**0.61**	<0.001	<0.002	<0.005	**0.024**	--	--	--	--	DTW from well survey on 6/6/2019
MW-6	8/26/1992	98.33	12.96	--	85.37	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-6	5/17/1993	98.33	12.44	--	85.89	ND	**0.09**	**0.01**	**0.002**	ND	ND	--	--	--	--	--	
MW-6	8/24/1993	98.33	13.18	--	85.15	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-6	11/08/1993	98.33	12.64	--	85.69	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-6	11/14/1995	99.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	02/13/1996	99.02	14.51	--	84.51	--	--	--	--	--	--	--	--	--	--	--	
MW-6	5/30/1996	99.02	13.66	--	85.36	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/23/1996	99.02	14.41	--	84.61	--	--	--	--	--	--	--	--	--	--	--	
MW-6	10/22/1996	99.02	14.86	--	84.16	--	--	--	--	--	--	--	--	--	--	--	
MW-6	4/27/1997	99.02	13.95	--	85.07	--	--	--	--	--	--	--	--	--	--	--	
MW-6	9/8/1997	99.02	12.38	--	86.64	--	--	--	--	--	--	--	--	--	--	--	
MW-6	4/16/1998	99.02	13.45	--	85.57	--	--	--	--	--	--	--	--	--	--	--	
MW-6	9/17/1998	99.02	13.65	--	85.37	--	--	--	--	--	--	--	--	--	--	--	
MW-6	4/26/1999	99.02	14.19	--	84.83	--	--	--	--	--	--	--	--	--	--	--	
MW-6	10/04/1999	223.38	11.72	--	211.66	--	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.01	--	--	--	--	
MW-6	5/24/2000	223.38	12.85	--	210.53	--	--	--	--	--	--	--	--	--	--	--	
MW-6	9/28/2000	223.38	12.31	--	211.07	--	--	--	--	--	--	--	--	--	--	--	

Table 2. Historical Groundwater Gauging and Analytical Results
Third Quarter 1992 to Current
Former Chevron-Branded Service Station 90430
6470 Debarr Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft btoc)	LNAPL Thickness ft	GW Elev ft	TPH mg/L	TPH-g mg/L	Benzene mg/L	Toluene mg/L	Ethyl-benzene mg/L	Total Xylenes mg/L	MTBE mg/L	EDC mg/L	EDB mg/L	Lead mg/L	Naphthalene mg/L	Comments
	ADEC Groundwater Cleanup Levels					**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.0017**	**0.000075**	**0.015**	**0.0017**	
MW-6	5/9/2001	223.38	13.84	--	209.54	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	9/30/2001	223.38	14.01	--	209.37	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	5/3/2002	223.38	11.55	--	211.83	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	10/1/2002	223.38	10.76	--	212.62	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	6/3/2003	223.42	13.45	--	209.97	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	10/05/2003	223.42	10.93	--	212.49	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	6/9/2004	223.42	12.98	--	210.44	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	9/27/2004	223.42	10.81	--	212.61	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6	5/15/2005	223.42	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Unable to locate
MW-6	9/26/2005	223.42	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Unable to locate
MW-6	5/12/2006	223.42	16.65	--	206.77	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Well Abandoned
MW-7	8/26/1992	99.81	16.24	--	83.57	**16**	**150**	**4.8**	**20**	**1.4**	**38**	**--**	--	--	--	--	
MW-7	5/17/1993	99.81	16.24	--	83.57	**7**	**62**	**2.3**	**8.4**	**0.9**	**20**	**--**	--	--	--	--	
MW-7	8/24/1993	99.81	16.57	--	83.24	ND	**78**	**1.7**	**6.9**	**0.88**	**20**	**--**	--	--	--	--	
MW-7	11/08/1993	99.81	16.35	--	83.46	**1.4**	**52**	**1.4**	**5.5**	**0.63**	**18**	**--**	--	--	--	--	
MW-7	3/20/1994	99.81	17.07	--	82.74	**6.9**	**55**	**1.3**	**6**	**0.88**	**15**	**--**	--	--	--	--	
MW-7	6/4/1994	99.81	16.46	--	83.35	**7.5**	**76**	**0.63**	**3.8**	**0.49**	**21**	**--**	--	--	--	--	
MW-7	8/18/1994	99.81	16.60	--	83.21	**10**	**56**	**0.6**	**3.4**	**0.47**	**19**	**--**	--	--	--	--	
MW-7	12/12/1994	99.81	16.88	--	82.93	**9**	**65**	**0.82**	**4.1**	**0.54**	**16**	**--**	--	--	--	--	
MW-7	3/20/1995	99.81	16.35	--	83.46	**12**	**38**	**0.11**	**0.59**	**0.12**	**10**	**--**	--	--	--	--	
MW-7	6/16/1995	99.81	16.95	--	82.86	--	**45**	**0.26**	**1.5**	**0.25**	**10**	**--**	--	--	--	--	
MW-7	7/13/1995	99.81	--	--	--	**18**	**--**	**--**	**--**	**--**	**--**	**--**	--	--	--	--	
MW-7	8/25/1995	99.81	16.09	--	--	**40**	**38**	**0.35**	**1.9**	**0.32**	**7.6**	**--**	--	--	--	--	
MW-7	11/14/1995	99.87	16.20	--	83.67	**16**	**37**	**0.43**	**2**	**0.3**	**9.5**	**--**	--	--	--	--	
MW-7	02/13/1996	99.87	16.81	--	83.06	**14**	**53 / 45**	**0.44 / 0.43**	**2.5 / 2.6**	**0.42 / 0.4**	**13 / 13**	**--**	--	--	--	--	
MW-7	5/30/1996	99.87	17.23	--	82.64	--	--	--	--	--	--	--	--	--	--	--	Insufficient water to sample
MW-7	8/23/1996	99.87	17.27	--	82.60	--	--	--	--	--	--	--	--	--	--	--	Insufficient water to sample
MW-7	10/22/1996	99.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-7	9/8/1997	99.87	16.62	--	83.25	--	**2.11**	**0.00552**	**0.00737**	**0.00698**	**0.0621**	--	--	--	--	--	
MW-7	4/16/1998	99.87	16.80	--	83.07	--	--	--	--	--	--	--	--	--	--	--	Insufficient water to sample
MW-7	9/17/1998	99.87	16.35	--	83.52	--	**0.31**	**0.00147**	**0.000969**	<0.0005	**0.00791**	**--**	--	--	--	--	
MW-7	4/26/1999	99.87	16.17	--	83.70	--	<0.05	<0.0025	<0.0025	<0.0025	**0.0027**	**1.2**	--	--	--	--	
MW-7	10/04/1999	224.26	16.41	--	207.85	--	<0.05	<0.0005	<0.0005	<0.0005	**0.00075**	**2.31**	--	--	--	--	
MW-7	5/24/2000	224.26	16.68	--	207.58	--	**0.0684**	<0.00165	**0.00408**	<0.0011	**0.00893**	**11.7 / 9.92**	--	--	--	--	
MW-7	9/28/2000	224.26	16.26	--	208.00	--	<10	<0.04	<0.1	<0.1	<0.2	**5.99**	--	--	--	--	
MW-7	5/9/2001	224.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
MW-7	9/30/2001	224.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well Dry
MW-7	5/3/2002	224.26	15.81	--	208.45	--	<0.05	<0.0002	<0.0005	<0.0005	<0.001	**0.0586 / 0.0785**	--	--	--	--	
MW-7	10/1/2002	224.26	16.80	--	207.46	--	--	--	--	--	--	--	--	--	--	--	Insufficient water to sample
MW-7	12/05/2002	224.30	16.49	--	207.81	--	**21**	**1.8**	**1.8**	**0.53**	**3.4**	**6.4**	--	--	--	--	
MW-7	6/3/2003	224.30	16.65	--	207.65	--	**8.3**	**1.3**	**0.079**	**0.39**	**1.2**	**3.8**	--	--	--	--	
MW-7	10/05/2003	224.30	16.22	--	208.08	--	**4.7**	**0.31**	**0.37**	**0.14**	**0.79**	**1**	--	--	--	--	
MW-7	6/9/2004	224.30	16.61	--	207.69	--	**4.2**	**0.26**	**0.037**	**0.12**	**1.1**	**0.92**	--	--	--	--	
MW-7	9/27/2004	224.30	16.08	--	208.22	--	**1.8**	**0.31**	**0.25**	**0.15**	**0.59**	**0.34**	--	--	--	--	
MW-7	5/15/2005	224.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
MW-7	9/26/2005	224.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
MW-7	5/12/2006	224.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
MW-7	9/27/2006	224.52	16.48	--	208.04	--	**26**	**1.1**	**2.4**	**0.81**	**3.4**	**0.23**	--	--	--	--	
MW-7	5/23/2007	224.52	16.50	--	208.02	--	**42**	**3.7**	**4.6**	**1.3**	**5.2**	**0.72**	--	--	--	--	
MW-7	9/20/2007	224.52	16.36	--	208.16	--	**63**	**11**	**10**	**2.2**	**7.7**	**1.7**	--	--	--	--	
MW-7	5/20/2008	224.52	16.37	--	208.15	--	**7.8**	**0.44**	**0.99**	**0.27**	**1.8**	**0.096**	--	--	--	--	
MW-7	9/13/2008	224.52	16.49	--	208.03	--	**64**	**4.1**	**11**	**2.4**	**9.4**	**0.35**	--	--	--	--	
MW-7	5/21/2009	224.52	16.76	--	207.76	--	**48**	**6.1**	**7.5**	**1.4**	**5.1**	**0.21**	--	--	--	--	
MW-7	9/15/2009	224.52	16.92	--	207.60	--	**75**	**9.2**	**15**	**2.6**	**9.1**	--	--	--	--	--	
MW-7	6/22/2010	224.52	17.36	--	207.16	--	**19 / 21**	**0.70 / 0.75**	**2.5 / 2.9**	**0.57 / 0.59**	**3.2 / 3.3**	**0.040 / 0.039**	--	--	--	--	
MW-7	10/03/2010	224.52	17.03	--	207.49	--	**23 / 19**	**1.9 / 1.6**	**3.3 / 2.8**	**0.62 / 0.58**	**3.0 / 2.7**	**0.061 / 0.054**	--	--	--	--	
MW-7	4/18/2011	224.52	16.89	--	207.63	--	**4.7**	**0.40**	**1.4**	**0.27**	**1.6**	**0.016**	--	--	--	--	
MW-7	10/05/2011	224.52	17.20	--	207.32	--	**38**	**0.94**	**7.9**	**1.2**	**7.3**	**0.019**	--	--	--	--	
MW-7	5/24/2012	224.52	16.31	--	208.21	--	--	--	--	--	--	--	--	--	--	--	
MW-7	5/25/2012	--	--	--	--	--	**13**	**0.35**	**1.9**	**0.37**	**2.1**	**0.006**	--	--	--	--	
MW-7	8/2/2012	224.52	16.04	--	208.48	--	**29**	**1.8**	**4.0**	**0.92**	**4.1**	**0.015**	--	--	--	--	
MW-7	5/14/2013	224.52	15.50	--	209.02	--	--	--	--	--	--	--	--	--	--	--	
MW-7	5/15/2013	--	--	--	--	--	**14.4**	**1.0**	**1.1**	**0.40**	**1.8**	**0.0062**	--	--	--	--	
MW-7	5/15/2013	--	--	--	--	--	**17.0**	**1.1**	**1.3**	**0.46**	**2.0**	**0.0082**	--	--	--	--	Hydrasleeve sample; no purge
MW-7	9/17/2013	224.52	15.42	--	209.10	--	**9.1 J**	**0.57**	**1.0**	**0.31**	**2.3**	**0.016**	--	--	--	--	
MW-7	4/29/2014	224.52	15.30	--	209.22	--	--	--	--	--	--	--	--	--	--	--	
MW-7	5/1/2014	--	--	--	--	--	**2.5**	**0.26**	**0.19**	**0.084**	**0.33**	**0.011**	**--**	**--**	**--**	**--**	

Table 2. Historical Groundwater Gauging and Analytical Results
Third Quarter 1992 to Current
Former Chevron-Branded Service Station 90430
6470 Debarr Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft btoc)	LNAPL Thickness ft	GW Elev ft	TPH mg/L	TPH-g mg/L	Benzene mg/L	Toluene mg/L	Ethyl-benzene mg/L	Total Xylenes mg/L	MTBE mg/L	EDC mg/L	EDB mg/L	Lead mg/L	Naphthalene mg/L	Comments
	ADEC Groundwater Cleanup Levels					**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.0017**	**0.000075**	**0.015**	**0.0017**	
MW-7	5/1/2014	--	--	--	--	--	**11.7**	**1.5**	**1.7**	**0.43**	**1.6**	**0.0045 J**	**--**	**--**	**--**	**--**	Hydrasleeve sample; no purge
MW-7	10/03/2014	224.52	15.94	--	208.58	--	**11.2**	**0.87**	**0.71**	**0.28**	**1.3**	<0.0017	**--**	**--**	**--**	**--**	
MW-7	5/5/2015	224.52	16.50	--	208.02	--	**18**	**2.1**	**0.89**	**0.65**	**2.9**	**0.005 J**	**--**	**--**	**--**	**0.078**	
MW-7	11/05/2015	224.52	16.24	--	208.28	--	**2.2**	**0.20**	**0.037**	**0.082**	**0.25**	<0.005		**--**	**--**	**0.029**	
MW-7	4/18/2016[1]	224.52	16.17	--	208.35	--	**6.4**	**0.64**	**0.17**	**0.36**	**0.98**	<0.003	**--**	**--**	**--**	**0.087 J**	
MW-7	9/26/2016[1]	224.52	15.80	--	208.72	--	**4.8**	**0.68**	**0.026**	**0.42**	**0.56**	**--**	**--**	**0.000038**	**0.029**	**0.090**	
MW-7	4/25/2017[1]	224.52	15.02	--	209.50	--	**1.1**	**0.096**	**0.087**	**0.051**	**0.17**	**--**	**--**	**--**	**--**	**0.009**	
MW-7	10/05/2017	224.52	16.09	--	208.43	--	**3.0**	**0.31**	**0.013**	**0.20**	**0.30**	**0.001 J**	**--**	**--**	**--**	**0.046**	
MW-7	4/23/2018	224.52	15.60	--	208.92	--	**4.2**	**0.54**	**0.13**	**0.34**	**0.46**	<0.005	**--**	**--**	**--**	**--**	
MW-7	8/29/2018	224.52	15.87	--	208.65	--	**7.7**	**0.94**	**0.1**	**0.71**	**0.87**	<0.002 R	**--**	**--**	**--**	**--**	
MW-7	4/23/2019	231.51	16.77	0.00	214.74	--	**1.2**	**0.18**	**0.017**	**0.055**	**0.15**	**0.0004 J**	**--**	**--**	**--**	**--**	DTW from well survey on 6/6/2019
MW-8	10/06/1994	101.00	20.51	--	80.49	--	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-8	12/12/1994	101.00	20.96	--	80.04	--	--	--	--	--	--	--	--	--	--	--	
MW-8	3/20/1995	101.00	17.05	--	83.95	--	ND	ND	**0.001**	ND	**0.003**	--	--	--	--	--	
MW-8	6/16/1995	101.00	18.94	--	82.06	--	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-8	8/25/1995	101.00	19.84	--	81.16	--	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-8	11/14/1995	101.32	19.64	--	81.68	--	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-8	02/13/1996	101.32	21.55	--	79.77	--	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-8	5/30/1996	101.32	22.53	--	78.79	--	<0.05 / <0.05	**0.00116** / <0.0005	**0.00109 / 0.000502**	**0.000618** / <0.0005	**0.00204** / <0.0005	**--**	**--**	**--**	--	--	
MW-8	8/23/1996	101.32	22.48	--	78.84	--	<0.05 / <0.05	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	**--**	**--**	**--**	--	--	
MW-8	10/22/1996	101.32	22.60	--	78.72	--	<0.05	<0.0005	<0.0005	<0.0005	<0.001	**--**	**--**	**--**	--	--	
MW-8	4/27/1997	101.32	21.93	--	79.39	--	<0.05 / <0.05	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	**--**	**--**	**--**	--	--	
MW-8	9/8/1997	101.32	20.38	--	80.94	--	<0.05	<0.0005	<0.0005	<0.0005	<0.001	**--**	**--**	**--**	--	--	
MW-8	4/16/1998	101.32	19.98	--	81.34	--	<0.05	<0.0005	**0.000633**	<0.0005	<0.001	**--**	**--**	**--**	--	--	
MW-8	9/17/1998	101.32	20.23	--	81.09	--	<0.05	<0.0005	<0.0005	<0.0005	<0.001	**--**	**--**	**--**	--	--	
MW-8	4/26/1999	101.32	22.60	--	78.72	--	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	**--**	**--**	--	--	
MW-8	10/04/1999	225.69	21.01	--	204.68	--	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.01	**--**	**--**	--	--	
MW-8	5/24/2000	225.69	18.40	--	207.29	--	<0.05	<0.0005	<0.0005	<0.0005	<0.001	<0.001 / <0.002	**--**	**--**	--	--	
MW-8	9/28/2000	225.69	20.78	--	204.91	--	<0.05	<0.0002	<0.0005	<0.0005	<0.001	**0.00125**	**--**	**--**	--	--	
MW-8	5/9/2001	225.69	21.11	--	204.58	--	<0.05	<0.0002	<0.0005	<0.0005	<0.001	<0.001	**--**	**--**	--	--	
MW-8	9/30/2001	225.69	21.14	--	204.55	--	<0.05	<0.0002	<0.0005	<0.0005	<0.001	<0.001	**--**	**--**	--	--	
MW-8	5/3/2002	225.69	21.31	--	204.38	--	<0.05	**0.000216**	<0.0005	<0.0005	<0.001	<0.001	**--**	**--**	--	--	
MW-8	10/1/2002	225.69	22.58	--	203.11	--	--	--	--	--	--	--	--	--	--	--	Insufficient wast to sample
MW-8	12/05/2002	225.72	17.83	--	207.89	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-8	6/3/2003	225.72	18.72	--	207.00	--	<0.01 / <0.01	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.002 / <0.002	**--**	**--**	**--**	**--**	
MW-8	10/05/2003	225.72	19.94	--	205.78	--	<0.01 / <0.01	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.002 / <0.002	**--**	**--**	**--**	**--**	
MW-8	6/9/2004	225.72	17.58	--	208.14	--	<0.01 / <0.01	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.002 / <0.002	**--**	**--**	**--**	**--**	
MW-8	9/27/2004	225.72	19.92	--	205.80	--	<0.01 / <0.01	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.002 / <0.002	**--**	**--**	**--**	**--**	
MW-8	5/15/2005	225.72	16.36	--	209.36	--	**0.012 /** <0.01	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.002 / <0.002	**--**	**--**	**--**	**--**	
MW-8	9/26/2005	225.72	18.84	--	206.88	--	<0.01 / <0.01	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.002 / <0.002	**--**	**--**	**--**	**--**	
MW-8	5/12/2006	225.72	18.68	--	207.04	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	**--**	**--**	**--**	**--**	
MW-8	9/27/2006	226.24	17.63	--	208.61	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	**--**	**--**	**--**	**--**	
MW-8	5/23/2007	226.24	17.61	--	208.63	--	<0.01	<0.0005	<0.0005	<0.0005	**0.002**	<0.0005	**--**	**--**	**--**	**--**	
MW-8	9/20/2007	226.24	19.19	--	207.05	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-8	5/20/2008	226.24	16.80	--	209.44	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-8	9/13/2008	226.24	18.85	--	207.39	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-8	5/21/2009	226.24	18.75	--	207.49	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0015	<0.0025	**--**	**--**	**--**	**--**	
MW-8	6/22/2010	226.24	18.76	--	207.48	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	10/03/2010	226.24	18.73	--	207.51	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	4/18/2011	226.24	19.87	--	206.37	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	10/05/2011	226.24	19.49	--	206.75	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	5/24/2012	226.24	16.32	--	209.92	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	8/2/2012	226.24	18.15	--	208.09	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	5/14/2013	226.24	16.56	--	209.68	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	9/17/2013	226.24	12.79	--	213.45	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**		**--**	
MW-8	4/29/2014	226.24	15.36	--	210.88	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	10/03/2014	226.24	16.05	--	210.19	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	5/5/2015	226.24	18.59	--	207.65	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-8	11/05/2015	226.24	17.41	--	208.83	--	**--**	**--**	**--**	**--**	**--**	**--**		**--**	**--**	**--**	
MW-8	4/18/2016	226.24	19.05	--	207.19	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Gauge only
MW-8	9/26/2016	226.24	18.51	--	207.73	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Gauge only
MW-8	4/25/2017	226.24	18.18	--	208.06	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Gauge only
MW-8	10/04/2017	226.24	18.18	--	208.06	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Gauge only
MW-8	4/23/2018	226.24	18.18	--	208.06	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Gauge only
MW-8	8/29/2018	226.24	18.80	--	207.44	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Gauge only
MW-8	4/23/2019	232.68	17.62	0.00	215.06	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	DTW from well survey on 6/6/2019
MW-9	10/04/1999	222.20	10.79	--	211.41	--	**12.6**	<0.012	**2.49**	**0.204**	**3.14**	<0.25 / <0.01	**--**	**--**	**--**	**--**	

Table 2. Historical Groundwater Gauging and Analytical Results
Third Quarter 1992 to Current
Former Chevron-Branded Service Station 90430
6470 Debarr Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft btoc)	LNAPL Thickness ft	GW Elev ft	TPH mg/L	TPH-g mg/L	Benzene mg/L	Toluene mg/L	Ethyl-benzene mg/L	Total Xylenes mg/L	MTBE mg/L	EDC mg/L	EDB mg/L	Lead mg/L	Naphthalene mg/L	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.0017**	**0.000075**	**0.015**	**0.0017**	
MW-9	5/24/2000	222.20	9.32	--	212.88	--	**7.58**	**0.0806**	**2.38**	<0.05	**1.81**	<0.1 / <0.002	--	--	--	--	
MW-9	9/28/2000	222.20	10.43	--	211.77	--	**5.27 / 6.11**	**0.0206 / 0.0246**	**1.11 / 1.37**	**0.177 / 0.216**	**1.5 / 1.79**	<0.025 / <0.02	--	--	--	--	
MW-9	5/9/2001	222.20	11.70	--	210.50	--	**2.6**	**0.00934**	**0.482**	**0.114**	**0.604**	**0.00531** / <0.005	--	--	--	--	
MW-9	9/30/2001	222.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
MW-9	5/3/2002	222.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
MW-9	10/1/2002	222.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
MW-9	12/05/2002	222.24	9.99	--	212.25	--	**2.1**	**0.006**	**0.36**	**0.062**	**0.4**	<0.0005	--	--	--	--	
MW-9	6/3/2003	222.24	10.67	--	211.57	--	**0.86**	**0.002**	**0.13**	**0.02**	**0.17**	<0.002	--	--	--	--	
MW-9	10/05/2003	222.24	9.87	--	212.37	--	**0.42**	**0.001**	**0.079**	**0.018**	**0.064**	<0.002	--	--	--	--	
MW-9	6/9/2004	222.24	9.59	--	212.65	--	**3.6**	**0.007**	**0.73**	**0.11**	**0.53**	<0.002	--	--	--	--	
MW-9	9/27/2004	222.24	9.16	--	213.08	--	**3.6**	**0.011**	**1.1**	**0.17**	**0.87**	<0.002	--	--	--	--	
MW-9	5/15/2005	222.24	8.28	--	213.96	--	**8.4**	**0.012**	**1.5**	**0.22**	**1.2**	<0.002	--	--	--	--	
MW-9	9/26/2005	222.24	8.48	--	213.76	--	<0.01	<0.0005	**0.002**	<0.0005	**0.004**	<0.002	--	--	--	--	
MW-9	5/12/2006	222.24	9.27	--	212.97	--	**2.6**	**0.003**	**0.3**	**0.091**	**0.46**	<0.002	<0.002	<0.002	--	--	
MW-9	9/27/2006	222.19	8.56	--	213.63	--	**1.5**	**0.002**	**0.19**	**0.056**	**0.32**	<0.002	<0.002	<0.0000097	--	--	
MW-9	5/23/2007	222.19	8.87	--	213.32	--	**0.2**	<0.0005	**0.014**	**0.005**	**0.046**	<0.0005	<0.0005	<0.0000098	--	--	
MW-9	9/20/2007	222.19	9.49	--	212.70	--	**0.07**	<0.0005	**0.003**	**0.004**	**0.017**	<0.0005	<0.0005	<0.0000098	--	--	
MW-9	5/20/2008	222.19	8.02	--	214.17	--	**0.1**	<0.0005	**0.002**	**0.009**	**0.026**	<0.0005	<0.0005	<0.0000092	--	--	
MW-9	9/13/2008	222.19	10.56	--	211.63	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0000097	--	--	
MW-9	5/21/2009	222.19	9.14	--	213.05	--	**0.23**	<0.0005	**0.0034**	**0.029**	**0.07**	<0.0025	<0.0005	<0.0000098	--	--	
MW-9	9/15/2009	222.19	10.71	--	211.48	--	**0.039 J**	<0.0005	<0.0005	**0.0070**	**0.010**	--	--	<0.0000096	<0.0069	--	
MW-9	6/22/2010	222.19	10.44	--	211.75	--	--	--	--	--	--	--	--	--	--	--	
MW-9	10/03/2010	222.19	10.05	--	212.14	--	--	--	--	--	--	--	--	--	--	--	
MW-9	4/18/2011	222.19	9.05	--	213.14	--	--	--	--	--	--	--	--	--	--	--	
MW-9	10/05/2011	222.19	11.00	--	211.19	--	--	--	--	--	--	--	--	--	--	--	
MW-9	5/24/2012	222.19	9.02	--	213.17	--	--	--	--	--	--	--	--	--	--	--	
MW-9	8/2/2012	222.19	12.65	--	209.54	--	--	--	--	--	--	--	--	--	--	--	
MW-9	5/14/2013	222.19	7.35	--	214.84	--	--	--	--	--	--	--	--	--	--	--	
MW-9	9/17/2013	222.19	7.27	--	214.92	--	--	--	--	--	--	--	--	--	--	--	
MW-9	4/29/2014	222.19	7.52	--	214.67	--	--	--	--	--	--	--	--	--	--	--	
MW-9	10/03/2014	222.19	8.42	--	213.77	--	--	--	--	--	--	--	--	--	--	--	
MW-9	5/5/2015	222.19	10.34	--	211.85	--	--	--	--	--	--	--	--	--	--	--	
MW-9	11/05/2015	222.19	8.41	--	213.78	--	--	--	--	--	--	--	--	--	--	--	
MW-9	4/18/2016	222.19	9.91	--	212.28	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-9	9/26/2016	222.19	8.75	--	213.44	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-9	4/25/2017	222.19	7.54	--	214.65	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-9	10/04/2017	222.19	8.71	--	213.48	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-9	4/23/2018	222.19	7.62	--	214.57	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-9	8/29/2018	222.19	9.18	--	213.01	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-9	4/23/2019	229.19	9.13	0.00	220.06	--	--	--	--	--	--	--	--	--	--	--	DTW from well survey on 6/6/2019
MW-10	10/04/1999	222.58	16.82	--	205.76	--	**0.085**	<0.0005	**0.00515**	**0.00105**	**0.00185**	**0.0242 / 0.0272**	--	--	--	--	
MW-10	5/24/2000	222.58	12.37	--	210.21	--	<0.05 / <0.05	<0.0005 / <0.0005	<0.0005 / **0.00073**	<0.0005 / <0.0005	<0.001 / <0.001	<0.001 / <0.002 / <0.001 / <0.002	--	--	--	--	
MW-10	9/28/2000	222.58	16.55	--	206.03	--	<0.05	<0.0002	**0.00098**	<0.0005	**0.00133**	**0.00336**	--	--	--	--	
MW-10	5/9/2001	222.58	16.93	--	205.65	--	<0.05	<0.0002	<0.0005	<0.0005	<0.001	**0.0526 / 0.0675**	--	--	--	--	
MW-10	9/30/2001	222.58	18.67	--	203.91	--	<0.05 / <0.05	<0.0002 / <0.0002	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	**0.0342 / 0.0386 / 0.0339 / 0.0387**	--	--	--	--	
MW-10	5/3/2002	222.58	14.64	--	207.94	--	<0.05	**0.000317**	**0.000612**	<0.0005	<0.001	<0.001	--	--	--	--	
MW-10	10/1/2002	222.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
MW-10	12/05/2002	222.61	13.82	--	208.79	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	**0.067**	--	--	--	--	
MW-10	6/3/2003	222.61	14.78	--	207.83	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	**0.005**	--	--	--	--	
MW-10	10/05/2003	222.61	16.31	--	206.30	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	**0.13**	--	--	--	--	
MW-10	6/9/2004	222.61	13.09	--	209.52	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
MW-10	9/27/2004	222.61	16.12	--	206.49	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	**0.058**	--	--	--	--	
MW-10	5/15/2005	222.61	11.26	--	211.35	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
MW-10	9/26/2005	222.61	14.82	--	207.79	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
MW-10	5/12/2006	222.61	14.41	--	208.20	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	**0.32**	--	--	--	--	
MW-10	9/27/2006	222.57	13.71	--	208.86	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
MW-10	5/23/2007	222.57	13.15	--	209.42	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0007	--	--	--	--	
MW-10	9/20/2007	222.57	15.50	--	207.07	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	**0.028**	--	--	--	--	
MW-10	5/20/2008	222.57	11.56	--	211.01	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	
MW-10	9/13/2008	222.57	15.22	--	207.35	--	<0.01 / <0.01	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	**0.0006 / 0.0007**	--	--	--	--	
MW-10	5/21/2009	222.57	14.32	--	208.25	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0015	**0.32**	--	--	--	--	
MW-10	9/15/2009	222.57	16.11	--	206.46	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	
MW-10	6/22/2010	222.57	14.75	--	207.82	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	**0.001**	--	--	--	--	
MW-10	10/03/2010	222.57	15.03	--	207.54	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	**0.001**	--	--	--	--	
MW-10	4/18/2011	222.57	16.06	--	206.51	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	
MW-10	10/05/2011	222.57	15.88	--	206.69	--	**0.018 J**	**0.0006 J**	**0.0022**	<0.0005	**0.0045 J**	**0.0009 J**	--	--	--	--	
MW-10	5/24/2012	222.57	10.84	--	211.73	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	
MW-10	8/2/2012	222.57	14.65	--	207.92	--	**0.076 J / 0.076 J**	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	**0.0016 J /** <0.0015	<0.0005 / <0.0005	--	--	--	--	

Table 2. Historical Groundwater Gauging and Analytical Results
Third Quarter 1992 to Current
Former Chevron-Branded Service Station 90430
6470 Debarr Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft btoc)	LNAPL Thickness ft	GW Elev ft	TPH mg/L	TPH-g mg/L	Benzene mg/L	Toluene mg/L	Ethyl-benzene mg/L	Total Xylenes mg/L	MTBE mg/L	EDC mg/L	EDB mg/L	Lead mg/L	Naphthalene mg/L	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.0017**	**0.000075**	**0.015**	**0.0017**	
MW-10	5/14/2013	222.57	10.20	--	212.37	--	**--**	**--**	**--**	**--**	**--**	--	--	--	--	--	
MW-10	5/16/2013	--	--	--	--	--	<0.050 / <0.050	<0.00024 / <0.00024	<0.00023 / <0.00023	<0.00024 / <0.00024	<0.00072 / <0.00072	<0.00050 / <0.00050	--	--	--	--	
MW-10	5/16/2013	--	--	--	--	--	<0.050 / <0.050	<0.00024 / <0.00024	<0.00023 / <0.00023	<0.00024 / <0.00024	<0.00072 / <0.00072	<0.00050 / <0.00050	--	--	--	--	Hydrasleeve sample; no purge
MW-10	9/17/2013	222.57	16.98	--	205.59	--	<0.050 / <0.050	<0.00024 / <0.00024	<0.00023 / **0.00036 J**	<0.00024 / <0.00024	<0.00072 / <0.00072	<0.00050 / <0.00050	--	--	--	--	
MW-10	4/29/2014	222.57	10.14	--	212.43	--	**--**	**--**	**--**	**--**	**--**	--	--	--	--	--	
MW-10	4/30/2014	--	--	--	--	--	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	<0.00017	--	--	--	--	
MW-10	4/30/2014	--	--	--	--	--	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	<0.00017	--	--	--	--	Hydrasleeve sample; no purge
MW-10	10/03/2014	222.57	9.93	--	212.64	--	<0.050	**0.00026 J**	<0.00011	**0.00023 J**	<0.00040	<0.00017	--	--	--	--	
MW-10	5/5/2015	222.57	14.57	--	208.00	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	<0.0001	
MW-10	11/05/2015	222.57	13.36	--	209.21	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		--	--	<0.0001	
MW-10	4/18/2016	222.57	15.24	--	207.33	--	**--**	**--**	**--**	**--**	**--**	**--**	--	--	--	--	Unable to get hydrosleeve/bailer through ice - not sampled
MW-10	9/26/2016	222.57	15.03	--	207.54	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	<0.0000095	<0.0062	--	Hydrasleeve sample; no purge
MW-10	4/25/2017	222.57	14.32	--	208.25	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	<0.0001	Hydrasleeve sample; no purge
MW-10	10/05/2017	222.57	14.61	--	207.96	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	**0.001**	--	--	--	<0.0001	Hydrasleeve sample; no purge
MW-10	4/23/2018	222.57	14.21	--	208.36	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	**0.0008 J**	--	--	--	--	
MW-10	8/29/2018	222.57	15.42	--	207.15	--	<0.014 R	<0.0002 R	<0.0002 R	<0.0002 R	<0.0005 R	**0.0007 J**	--	--	--	--	
MW-10	4/23/2019	229.56	13.36	0.00	216.20	--	<0.014 [<0.014]	<0.0002 [<0.0002]	<0.0002 [<0.0002]	<0.0004 [<0.0004]	<0.001 [<0.001]	<0.0002 [<0.0002]	--	--	--	--	DTW from well survey on 6/6/2019
MW-11	10/04/1999	224.49	17.44	--	207.05	--	<0.05	<0.0005	**0.00094**	<0.0005	**0.00069**	**0.335 / 0.318**	--	--	--	--	
MW-11	5/24/2000	224.49	17.25	--	207.24	--	<0.05	<0.0005	<0.0005	<0.0005	<0.001	**0.175 / 0.127**	--	--	--	--	
MW-11	9/28/2000	224.49	16.80	--	207.69	--	<0.05	<0.0002	<0.0005	<0.0005	<0.001	**0.0591**	--	--	--	--	
MW-11	5/9/2001	224.49	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	--	--	--	--	Unable to locate
MW-11	9/30/2001	224.49	17.30	--	207.19	--	<0.05	**0.00305**	<0.0005	<0.0005	<0.001	**0.0113 / 0.0104**	--	--	--	--	
MW-11	5/3/2002	224.49	16.32	--	208.17	--	<0.05 / <0.05	<0.0002 / **0.000206**	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.001 / <0.001	<0.001 / 0.00109	--	--	--	--	
MW-11	10/1/2002	224.49	16.44	--	208.05	--	**--**	**--**	**--**	**--**	**--**	**--**	--	--	--	--	
MW-11	12/05/2002	224.78	17.03	--	207.75	--	**0.041**	**0.028**	<0.0005	<0.0005	<0.0005	**0.15**	--	--	--	--	
MW-11	6/3/2003	224.78	17.21	--	207.57	--	<0.01	**0.003**	<0.0005	<0.0005	<0.0005	**0.29**	--	--	--	--	
MW-11	10/05/2003	224.78	16.83	--	207.95	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	**0.06**	--	--	--	--	
MW-11	6/9/2004	224.78	17.13	--	207.65	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	**0.029**	--	--	--	--	
MW-11	9/27/2004	224.78	16.69	--	208.09	--	**0.13**	**0.028**	<0.0005	<0.0005	<0.0005	**0.21**	--	--	--	--	
MW-11	5/15/2005	224.78	16.71	--	208.07	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	**0.013**	--	--	--	--	
MW-11	9/26/2005	224.78	16.49	--	208.29	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
MW-11	5/12/2006	224.78	17.22	--	207.56	--	<0.01	**0.0007**	<0.0005	<0.0005	<0.0005	**0.009**	--	--	--	--	
MW-11	9/27/2006	224.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
MW-11	5/23/2007	225.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
MW-11	9/20/2007	225.73	16.71	--	209.02	--	**0.2**	**0.067**	<0.0005	<0.0005	<0.0005	**0.15**	--	--	--	--	
MW-11	5/20/2008	225.73	16.63	--	209.10	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	**0.0008**	--	--	--	--	
MW-11	9/13/2008	225.73	16.74	--	208.99	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	
MW-11	5/21/2009	225.73	17.13	--	208.60	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0015	**0.0091**	--	--	--	--	
MW-11	9/15/2009	225.73	17.28	--	208.45	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	
MW-11	6/22/2010	225.73	17.74	--	207.99	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	
MW-11	10/03/2010	225.73	17.32	--	208.41	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	
MW-11	4/18/2011	225.73	17.20	--	208.53	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	
MW-11	10/05/2011	225.73	17.50	--	208.23	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	**0.004**	--	--	--	--	
MW-11	5/24/2012	225.73	16.51	--	209.22	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	
MW-11	8/2/2012	225.73	16.25	--	209.48	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	
MW-11	5/14/2013	225.73	15.72	--	210.01	--	**--**	**--**	**--**	**--**	**--**	--	--	--	--	--	
MW-11	5/15/2013	--	--	--	--	--	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	<0.00050	--	--	--	--	
MW-11	5/15/2013	--	--	--	--	--	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	<0.00050	--	--	--	--	Hydrasleeve sample; no purge
MW-11	9/17/2013	225.73	15.63	--	210.10	--	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	--	--	--	--	--	
MW-11	4/29/2014	225.73	15.57	--	210.16	--	**--**	**--**	**--**	**--**	**--**	--	--	--	--	--	
MW-11	5/1/2014	--	--	--	--	--	<0.050	<0.00015	<0.00056	<0.00016	<0.00040	**0.00034 J**	--	--	--	--	
MW-11	5/1/2014	--	--	--	--	--	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	<0.00017	--	--	--	--	Hydrasleeve sample; no purge
MW-11	10/03/2014	225.73	15.07	--	210.66	--	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	--	--	--	--	--	
MW-11	5/5/2015	225.73	16.71	--	209.02	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	<0.0001	
MW-11	11/05/2015	225.73	16.48	--	209.25	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		--	--	<0.0001	
MW-11	4/18/2016	225.73	16.40	--	209.33	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	<0.0001	Hydrasleeve sample; no purge
MW-11	9/26/2016	225.73	16.03	--	209.70	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	<0.0000095	**0.074**	**0.00009**	Hydrasleeve sample; no purge
MW-11	04/25/2017	225.73	--	--	--	--	**--**	**--**	**--**	**--**	**--**	--	--	--	--	--	Inaccessible
MW-11	10/05/2017	225.73	16.31	--	209.42	--	<0.10	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	<0.0001	Hydrasleeve sample; no purge
MW-11	4/23/2018	225.73	15.82	--	209.91	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	
MW-11	8/29/2018	225.73	16.06	--	209.67	--	<0.014 R	<0.0002 R	<0.0002 R	<0.0002 R	<0.0005 R	--	--	--	--	--	
MW-11	4/23/2019	231.74	17.06	0.00	214.68	--	<0.014	<0.0002	<0.0002	<0.0004	<0.001	<0.0002	--	--	--	--	DTW from well survey on 6/6/2019
MW-12	9/28/2000	--	17.71	--	--	--	<0.05	<0.0002	<0.0005	<0.0005	<0.001	<0.001	--	--	--	--	
MW-12	5/9/2001	--	17.88	--	--	--	<0.05	**0.000202**	<0.0005	<0.0005	<0.001	<0.001	--	--	--	--	
MW-12	9/30/2001	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	--	--	--	Unable to locate
MW-12	5/3/2002	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	--	--	--	Unable to locate
MW-12	10/1/2002	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--	--	--	--	Unable to locate

Table 2. Historical Groundwater Gauging and Analytical Results
Third Quarter 1992 to Current
Former Chevron-Branded Service Station 90430
6470 Debarr Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft btoc)	LNAPL Thickness ft	GW Elev ft	TPH mg/L	TPH-g mg/L	Benzene mg/L	Toluene mg/L	Ethyl-benzene mg/L	Total Xylenes mg/L	MTBE mg/L	EDC mg/L	EDB mg/L	Lead mg/L	Naphthalene mg/L	Comments
	ADEC Groundwater Cleanup Levels					**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.0017**	**0.000075**	**0.015**	**0.0017**	
MW-12	12/05/2002	222.31	13.70	--	208.61	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	**0.038**	--	--	--	--	
MW-12	6/3/2003	222.31	14.96	--	207.35	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	**0.016**	--	--	--	--	
MW-12	10/05/2003	222.31	16.88	--	205.43	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	**0.006**	--	--	--	--	
MW-12	6/9/2004	222.31	12.73	--	209.58	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	**0.002**	--	--	--	--	
MW-12	9/27/2004	222.31	16.72	--	205.59	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	**0.004**	--	--	--	--	
MW-12	5/15/2005	222.31	11.35	--	210.96	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
MW-12	9/26/2005	222.31	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Unable to locate
MW-12	5/12/2006	222.31	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Unable to locate
MW-12	9/27/2006	222.27	13.85	--	208.42	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
MW-12	5/23/2007	222.27	13.41	--	208.86	--	--	--	--	--	--	--	--	--	--	--	
MW-12	9/20/2007	222.27	16.11	--	206.16	--	--	--	--	--	--	--	--	--	--	--	
MW-12	5/20/2008	222.27	12.17	--	210.10	--	--	--	--	--	--	--	--	--	--	--	
MW-12	9/13/2008	222.27	15.40	--	206.87	--	--	--	--	--	--	--	--	--	--	--	
MW-12	5/21/2009	222.27	14.91	--	207.36	--	--	--	--	--	--	--	--	--	--	--	
MW-12	6/22/2010	222.27	14.61	--	207.66	--	--	--	--	--	--	--	--	--	--	--	
MW-12	10/03/2010	222.27	15.42	--	206.85	--	--	--	--	--	--	--	--	--	--	--	
MW-12	4/18/2011	222.27	16.50	--	205.77	--	--	--	--	--	--	--	--	--	--	--	
MW-12	10/05/2011	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Unable to locate
MW-12	5/24/2012	222.27	11.47	--	210.80	--	--	--	--	--	--	--	--	--	--	--	
MW-12	8/2/2012	222.27	14.70	--	207.57	--	--	--	--	--	--	--	--	--	--	--	
MW-12	5/14/2013	222.27	11.21	--	211.06	--	--	--	--	--	--	--	--	--	--	--	
MW-12	9/17/2013	222.27	14.11	--	208.16	--	--	--	--	--	--	--	--	--	--	--	
MW-12	4/29/2014	222.27	10.71	--	211.56	--	--	--	--	--	--	--	--	--	--	--	
MW-12	10/03/2014	222.27	10.55	--	211.72	--	--	--	--	--	--	--	--	--	--	--	
MW-12	5/5/2015	222.27	13.89	--	208.38	--	--	--	--	--	--	--	--	--	--	--	
MW-12	11/05/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
MW-12	4/18/2016	222.27	15.92	--	206.35	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-12	9/26/2016	222.27	16.00	--	206.27	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-12	4/25/2017	222.27	15.03	--	207.24	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-12	10/04/2017	222.27	15.11	--	207.16	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-12	4/23/2018	222.27	14.89	--	207.38	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-12	8/29/2018	222.27	16.05	--	206.22	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-12	4/23/2019	229.29	13.48	0.00	215.81	--	--	--	--	--	--	--	--	--	--	--	DTW from well survey on 6/6/2019
MW-13	10/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
MW-13	12/05/2002	221.31	14.03	--	207.28	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	
MW-13	6/3/2003	221.31	14.22	--	207.09	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
MW-13	10/05/2003	221.31	13.88	--	207.43	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
MW-13	6/9/2004	221.31	14.21	--	207.10	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
MW-13	9/27/2004	221.31	13.71	--	207.60	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
MW-13	5/15/2005	221.31	13.89	--	207.42	--	**0.24**	<0.0005	**0.004**	**0.004**	**0.026**	<0.002	--	--	--	--	
MW-13	9/26/2005	221.31	13.72	--	207.59	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
MW-13	5/12/2006	221.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Ostruction at 3.77 ft bTOC
MW-13	9/27/2006	221.63	13.96	--	207.67	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	**--**	**--**	**--**	**--**	
MW-13	5/23/2007	221.63	14.15	--	207.48	--	<0.01	<0.0005	<0.0005	<0.0005	**0.0005**	<0.0005	**--**	**--**	**--**	**--**	
MW-13	9/20/2007	221.63	14.09	--	207.54	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-13	5/20/2008	221.63	14.11	--	207.52	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-13	9/13/2008	221.63	14.19	--	207.44	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-13	5/21/2009	221.63	14.59	--	207.04	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0015	<0.0025	**--**	**--**	**--**	**--**	
MW-13	10/07/2009	221.63	14.67	--	206.96	--	<0.010 / <0.010	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0015 / <0.0015	**--**	**--**	**--**	**--**	**--**	
MW-14	9/27/2006	222.33	8.96	--	213.37	--	**140**	**5.2**	**35**	**1.5**	**11**	<0.005	**--**	**--**	**--**	**--**	
MW-14	5/23/2007	222.33	9.37	--	212.96	--	**120 / 130**	**1.9 / 1.8**	**23 / 21**	**1.7 / 1.8**	**14 / 15**	<0.025 / <0.025	**--**	**--**	**--**	**--**	
MW-14	9/20/2007	222.33	9.53	--	212.80	--	**180 / 180**	**3.5 / 3.5**	**47 / 41**	**2.5 / 2.4**	**23 / 23**	<0.025 / <0.025	**--**	**--**	**--**	**--**	
MW-14	5/20/2008	222.33	8.60	--	213.73	--	**120**	**0.77**	**15**	**1.5**	**13**	<0.01	**--**	**--**	**--**	**--**	
MW-14	9/13/2008	222.33	11.15	--	211.18	--	**6**	**0.085**	**1.1**	**0.17**	**0.68**	<0.0005	**--**	**--**	**--**	**--**	
MW-14	5/21/2009	222.33	9.84	--	212.49	--	**2.1**	**0.16**	**0.23**	**0.043**	**0.29**	**0.0042**	**--**	**--**	**--**	**--**	
MW-14	9/15/2009	222.33	11.53	--	210.80	--	**0.27**	**0.0028**	**0.081**	**0.0073**	**0.048**	**--**	**--**	**--**	**--**	**--**	
MW-14	6/22/2010	222.33	11.47	--	210.86	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	**--**	**--**	**--**	**--**	**--**	
MW-14	10/03/2010	222.33	10.70	--	211.63	--	**1.8**	**0.026**	**0.18**	**0.088**	**0.41**	**--**	**--**	**--**	**--**	**--**	
MW-14	4/18/2011	222.33	9.53	--	212.80	--	**0.13**	**0.0015 J**	**0.041**	**0.0027**	**0.022**	**--**	**--**	**--**	**--**	**--**	
MW-14	10/05/2011	222.33	12.43	--	209.90	--	<0.010	<0.0005	**0.0024**	<0.0005	<0.0015	**--**	**--**	**--**	**--**	**--**	
MW-14	5/24/2012	222.33	10.06	--	212.27	--	**5.0**	**0.16**	**1.4**	**0.088**	**0.44**	**--**	**--**	**--**	**--**	**--**	
MW-14	8/2/2012	222.33	14.91	--	207.42	--	**1.4**	**0.029**	**0.31**	**0.026**	**0.11**	**--**	**--**	**--**	**--**	**--**	
MW-14	5/14/2013	222.33	9.27	--	213.06	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-14	5/16/2013	--	--	--	--	--	**24.6**	**0.12**	**5.1**	**0.48**	**3.3**	**--**	**--**	**--**	**--**	**--**	
MW-14	5/16/2013	--	--	--	--	--	**12.7**	**0.071**	**2.9**	**0.28**	**2.1**	**--**	**--**	**--**	**--**	**--**	Hydrasleeve sample; no purge
MW-14	9/17/2013	222.33	8.28	--	214.05	--	**1.6**	**0.028**	**0.19**	**0.16**	<0.072	**--**	**--**	**--**	**--**	**--**	
MW-14	4/29/2014	222.33	8.59	--	213.74	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

Table 2. Historical Groundwater Gauging and Analytical Results
Third Quarter 1992 to Current
Former Chevron-Branded Service Station 90430
6470 Debarr Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft btoc)	LNAPL Thickness ft	GW Elev ft	TPH mg/L	TPH-g mg/L	Benzene mg/L	Toluene mg/L	Ethyl-benzene mg/L	Total Xylenes mg/L	MTBE mg/L	EDC mg/L	EDB mg/L	Lead mg/L	Naphthalene mg/L	Comments
	ADEC Groundwater Cleanup Levels					**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.0017**	**0.000075**	**0.015**	**0.0017**	
MW-14	5/1/2014	--	--	--	--	--	**62.9**	**0.16**	**16.0 J**	**1.3**	**9.9**	**--**	**--**	**--**	**--**	**--**	
MW-14	5/1/2014	--	--	--	--	--	**52.6**	**0.12**	**11.5**	**0.96**	**9.2**	**--**	**--**	**--**	**--**	**--**	Hydrasleeve sample; no purge
MW-14	10/03/2014	222.33	8.86	--	213.47	--	**50.4**	**0.13**	**10.9**	**1.1**	**5.7**	**--**	**--**	**--**	**--**	**--**	
MW-14	5/5/2015	222.33	10.91	--	211.42	--	**39**	**0.10**	**9.7**	**0.85**	**6.3**	**--**	**--**	**--**	**--**	**0.003**	
MW-14	11/05/2015	222.33	8.93	--	213.40	--	**33**	**0.085 J**	**8.4**	**0.77**	**4.3**	**--**		**--**	**--**	**--**	
MW-14	4/18/2016	222.33	10.59	--	211.74	--	**12**	**0.015**	**2.0**	**0.2**	**1.9**	**--**	**--**	**--**	**--**	**0.0006**	Hydrasleeve sample; no purge
MW-14	9/26/2016	222.33	9.28	--	213.05	--	**34**	**0.076 J**	**9.7**	**0.73**	**4.7**	**--**	**--**	<0.0000095	<0.0062	**0.004**	Hydrasleeve sample; no purge
MW-14	4/25/2017	222.33	8.34	--	213.99	--	**5.1**	**0.008**	**1.0**	**0.11**	**0.75**	**--**	**--**	**--**	**--**	**0.0003 J**	
MW-14	10/04/2017	222.33	9.32	--	213.01	--	**18**	**0.030**	**3.6**	**0.61**	**3.2**	**--**	**--**	**--**	**--**	**0.002**	
MW-14	4/23/2018	222.16	8.41	--	213.75	--	**18**	**0.026**	**4.2**	**0.72**	**4.1**	**--**	**--**	**--**	**--**	**--**	TOC adjusted for 2" cut in order for lid to be placed back on.
MW-14	8/29/2018	222.16	9.68	--	212.48	--	**0.14 / 0.14**	**0.0003 J**	**0.014**	**0.006**	**0.024**	**--**	**--**	**--**	**--**	**--**	
MW-14	4/23/2019	229.59	9.75	0.00	219.84	--	**34**	**0.039**	**7.3 D**	**0.91**	**5.7 D**	**--**	**--**	**--**	**--**	**--**	DTW from well survey on 6/6/2019
MW-15	9/27/2006	226.12	15.14	--	210.98	--	<0.01 / <0.01	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.002 / <0.002	--	--	--	--	
MW-15	5/23/2007	226.12	14.37	--	211.75	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	
MW-15	9/20/2007	226.12	16.56	--	209.56	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	
MW-15	5/20/2008	226.12	13.03	--	213.09	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	
MW-15	9/13/2008	226.12	16.89	--	209.23	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	
MW-15	5/21/2009	226.12	15.06	--	211.06	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0015	<0.0025	--	--	--	--	
MW-15	6/22/2010	226.12	16.34	--	209.78	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-15	10/03/2010	226.12	16.41	--	209.71	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-15	4/18/2011	226.12	17.17	--	208.95	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-15	10/05/2011	226.12	17.12	--	209.00	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-15	5/24/2012	226.12	13.87	--	212.25	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-15	8/2/2012	226.12	16.32	--	209.80	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-15	5/14/2013	226.12	12.08	--	214.04	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-15	9/17/2013	226.12	13.51	--	212.61	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-15	4/29/2014	226.12	12.34	--	213.78	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-15	10/03/2014	226.12	13.65	--	212.47	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-15	5/5/2015	226.12	16.32	--	209.80	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-15	11/05/2015	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Unable to locate
MW-15	4/18/2016	226.12	16.61	--	209.51	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-15	9/26/2016	226.12	16.14	--	209.98	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-15	4/25/2017	226.12	14.13	--	211.99	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-15	10/05/2017	226.12	15.76	--	210.36	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-15	4/23/2018	226.12	14.15	--	211.97	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-15	8/29/2018	226.12	16.63	--	209.49	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-15	04/23/2019	233.09	15.37	0.00	217.72	--	--	--	--	--	--	--	--	--	--	--	Gauge only, DTW from well survey on 6/6/2019
MW-16	9/27/2006	223.57	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Unable to locate
MW-16	5/23/2007	223.57	16.06	--	207.51	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	**0.001**	**--**	**--**	**--**	**--**	
MW-16	9/20/2007	223.57	15.99	--	207.58	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-16	5/20/2008	223.57	15.91	--	207.66	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-16	9/13/2008	223.57	16.05	--	207.52	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-16	5/21/2009	223.57	16.40	--	207.17	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0015	<0.0025	**--**	**--**	**--**	**--**	
MW-16	9/15/2009	223.57	16.55	--	207.02	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	**--**	**--**	**--**	**--**	**--**	
MW-16	6/22/2010	223.57	16.95	--	206.62	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-16	10/03/2010	223.57	16.60	--	206.97	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	**--**	**--**	**--**	**--**	**--**	
MW-16	4/18/2011	223.57	16.44	--	207.13	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-16	10/05/2011	223.57	16.78	--	206.79	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	**--**	**--**	**--**	**--**	**--**	
MW-16	5/24/2012	223.57	15.84	--	207.73	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-16	8/2/2012	223.57	15.50	--	208.07	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	**--**	**--**	**--**	**--**	**--**	
MW-16	5/14/2013	223.57	15.03	--	208.54	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-16	5/15/2013	--	--	--	--	--	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	<0.00050	**--**	**--**	**--**	**--**	
MW-16	5/15/2013	--	--	--	--	--	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	<0.00050	**--**	**--**	**--**	**--**	Hydrasleeve sample; no purge
MW-16	9/17/2013	223.57	14.93	--	208.64	--	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	**--**	**--**	**--**	**--**	**--**	
MW-16	4/29/2014	223.57	15.82	--	207.75	--	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-16	5/1/2014	--	--	--	--	--	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	<0.00017	**--**	**--**	**--**	**--**	
MW-16	5/1/2014	--	--	--	--	--	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	<0.00017	**--**	**--**	**--**	**--**	Hydrasleeve sample; no purge
MW-16	10/03/2014	223.57	15.43	--	208.14	--	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	**--**	**--**	**--**	**--**	**--**	
MW-16	5/5/2015	223.57	16.03	--	207.54	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	<0.0001	
MW-16	11/05/2015	223.57	17.73	--	205.84	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	**0.002**		**--**	**--**	<0.0001	
MW-16	4/18/2016	223.57	15.72	--	207.85	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	**0.0009 J**	**--**	**--**	**--**	<0.0001	Hydrasleeve sample; no purge
MW-16	9/26/2016	223.57	15.32	--	208.25	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	<0.0000095	**0.0176**	<0.00009	Hydrasleeve sample; no purge
MW-16	4/25/2017	223.57	14.59	--	208.98	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	<0.0001	Hydrasleeve sample; no purge
MW-16	10/04/2017	223.57	15.63	--	207.94	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	<0.00009	Hydrasleeve sample; no purge
MW-16	4/23/2018	223.57	15.15	--	208.42	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**--**	**--**	**--**	**--**	
MW-16	8/29/2018	223.57	15.41	--	208.16	--	<0.014 R	<0.0002 R	<0.0002 R	<0.0002 R	<0.0005 R	**--**	**--**	**--**	**--**	**--**	
MW-16	4/23/2019	230.54	16.30	0.00	214.24	--	<0.014	<0.0002	<0.0002	<0.0004	<0.001	<0.0002	**--**	**--**	**--**	**--**	DTW from well survey on 6/6/2019

Table 2. Historical Groundwater Gauging and Analytical Results
Third Quarter 1992 to Current
Former Chevron-Branded Service Station 90430
6470 Debarr Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft btoc)	LNAPL Thickness ft	GW Elev ft	TPH mg/L	TPH-g mg/L	Benzene mg/L	Toluene mg/L	Ethyl-benzene mg/L	Total Xylenes mg/L	MTBE mg/L	EDC mg/L	EDB mg/L	Lead mg/L	Naphthalene mg/L	Comments
ADEC Groundwater Cleanup Levels						**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.0017**	**0.000075**	**0.015**	**0.0017**	
MW-17	9/27/2006	223.07	15.12	--	207.95	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
MW-17	5/23/2007	223.07	15.12	--	207.95	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	
MW-17	9/20/2007	223.07	15.07	--	208.00	--	--	--	--	--	--	--	--	--	--	--	
MW-17	5/20/2008	223.07	14.95	--	208.12	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	
MW-17	9/13/2008	223.07	15.05	--	208.02	--	--	--	--	--	--	--	--	--	--	--	
MW-17	5/21/2009	223.07	15.43	--	207.64	--	--	--	--	--	--	--	--	--	--	--	
MW-17	9/15/2009	223.07	15.61	--	207.46	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	
MW-17	6/22/2010	223.07	16.05	--	207.02	--	--	--	--	--	--	--	--	--	--	--	
MW-17	10/03/2010	223.07	15.68	--	207.39	--	--	--	--	--	--	--	--	--	--	--	
MW-17	4/18/2011	223.07	15.45	--	207.62	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	
MW-17	10/05/2011	223.07	15.82	--	207.25	--	--	--	--	--	--	--	--	--	--	--	
MW-17	5/24/2012	223.07	14.85	--	208.22	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	
MW-17	8/2/2012	223.07	14.60	--	208.47	--	--	--	--	--	--	--	--	--	--	--	
MW-17	5/14/2013	223.07	14.01	--	209.06	--	--	--	--	--	--	--	--	--	--	--	
MW-17	5/16/2013	--	--	--	--	--	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	--	--	--	--	--	
MW-17	5/16/2013	--	--	--	--	--	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	--	--	--	--	--	Hydrasleeve sample; no purge
MW-17	9/17/2013	223.07	13.98	--	209.09	--	--	--	--	--	--	--	--	--	--	--	
MW-17	4/29/2014	223.07	13.85	--	209.22	--	--	--	--	--	--	--	--	--	--	--	
MW-17	4/30/2014	--	--	--	--	--	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	--	--	--	--	--	
MW-17	4/30/2014	--	--	--	--	--	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	--	--	--	--	--	Hydrasleeve sample; no purge
MW-17	10/03/2014	223.07	14.45	--	208.62	--	--	--	--	--	--	--	--	--	--	--	
MW-17	5/5/2015	223.07	15.09	--	207.98	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	<0.0001	
MW-17	11/05/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
MW-17	4/18/2016	223.07	14.73	--	208.34	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	<0.0001	Hydrasleeve sample; no purge
MW-17	9/26/2016	223.07	14.34	--	208.73	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-17	4/25/2017	223.07	12.59	--	210.48	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	<0.0001	Hydrasleeve sample; no purge
MW-17	10/04/2017	223.07	14.69	--	208.38	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-17	4/23/2018	223.07	14.18	--	208.89	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	
MW-17	8/29/2018	223.07	14.44	--	208.63	--	--	--	--	--	--	--	--	--	--	--	Gauge only
MW-17	4/23/2019	230.06	15.38	0.00	214.68	--	--	--	--	--	--	--	--	--	--	--	DTW from well survey on 6/6/2019
TRIPBLANK	02/13/1996	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	
TRIPBLANK	5/30/1996	--	--	--	--	--	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	
TRIPBLANK	8/23/1996	--	--	--	--	--	<0.05	<0.0005	**0.000609**	<0.0005	<0.001	--	--	--	--	--	
TRIPBLANK	10/22/1996	--	--	--	--	--	<0.05	<0.0005	<0.0005	<0.0005	<0.001	--	--	--	--	--	
TRIPBLANK	4/27/1997	--	--	--	--	--	<0.05	<0.0005	<0.0005	<0.0005	<0.001	--	--	--	--	--	
TRIPBLANK	9/8/1997	--	--	--	--	--	<0.05	<0.0005	<0.0005	<0.0005	<0.001	--	--	--	--	--	
TRIPBLANK	9/17/1998	--	--	--	--	--	<0.05	<0.0005	<0.0005	<0.0005	<0.001	--	--	--	--	--	
TRIPBLANK	4/26/1999	--	--	--	--	--	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	--	--	--	--	
TRIPBLANK	5/24/2000	--	--	--	--	--	<0.05	<0.0005	<0.0005	<0.0005	<0.001	<0.001	--	--	--	--	
TRIPBLANK	9/28/2000	--	--	--	--	--	<0.05	<0.0002	**0.000574**	<0.0005	<0.001	<0.001	--	--	--	--	
TRIPBLANK	5/9/2001	--	--	--	--	--	<0.05	--	--	--	--	--	--	--	--	--	
TRIPBLANK	9/30/2001	--	--	--	--	--	<0.05	<0.0002	<0.0005	<0.0005	<0.001	<0.001	--	--	--	--	
TRIPBLANK	5/3/2002	--	--	--	--	--	<0.05	<0.0002	<0.0005	<0.0005	<0.001	<0.001	--	--	--	--	
TRIPBLANK	6/3/2003	--	--	--	--	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
TRIPBLANK	10/05/2003	--	--	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
TRIPBLANK	6/9/2004	--	--	--	--	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
TRIPBLANK	9/27/2004	--	--	--	--	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
TRIPBLANK	5/15/2005	--	--	--	--	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
TRIPBLANK	9/26/2005	--	--	--	--	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
TRIPBLANK	5/12/2006	--	--	--	--	--	<0.01	<0.0005	<0.0005	<0.0005	**0.0005**	<0.002	--	--	--	--	
TRIPBLANK	9/27/2006	--	--	--	--	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--	--	--	--	
TRIPBLANK	5/23/2007	--	--	--	--	--	<0.01	<0.0005	**0.0006**	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	
TRIPBLANK	9/20/2007	--	--	--	--	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	
TRIPBLANK	5/20/2008	--	--	--	--	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	
TRIPBLANK	9/13/2008	--	--	--	--	--	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	
TRIPBLANK	5/21/2009	--	--	--	--	--	<0.011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	
TRIPBLANK	9/15/2009	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	
TRIPBLANK	10/07/2009	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	
TRIPBLANK	6/10/2010	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.000017	--	--	
TRIPBLANK	10/03/2010	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	<0.0005	--	--	--	--	
TRIPBLANK	4/18/2011	--	--	--	--	--	<0.010	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0015	<0.0005	--	--	--	--	
TRIPBLANK	10/05/2011	--	--	--	--	--	**0.010 J**	<0.0005	<0.0005	<0.0005	<0.0015	<0.0005	--	<0.0000098	--	--	
TRIPBLANK	5/24/2012	--	--	--	--	--	<0.010	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0015	<0.0005	--	<0.0000096	--	--	
TRIPBLANK	8/2/2012	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0015	<0.0005	--	--	--	--	
TRIPBLANK	5/16/2013	--	--	--	--	--	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	<0.00050	--	<0.0000026	--	--	
TRIPBLANK	5/16/2013	--	--	--	--	--	<0.050	<0.00024	<0.00023	<0.00024	<0.00072	<0.00050	--	--	--	--	
TRIPBLANK	9/17/2013	--	--	--	--	--	--	<0.00024	<0.00023	<0.00024	<0.00072	<0.00050	--	<0.0000027	--	--	

Table 2. Historical Groundwater Gauging and Analytical Results
Third Quarter 1992 to Current
Former Chevron-Branded Service Station 90430
6470 Debarr Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	DTW (ft btoc)	LNAPL Thickness ft	GW Elev ft	TPH mg/L	TPH-g mg/L	Benzene mg/L	Toluene mg/L	Ethyl-benzene mg/L	Total Xylenes mg/L	MTBE mg/L	EDC mg/L	EDB mg/L	Lead mg/L	Naphthalene mg/L	Comments
	ADEC Groundwater Cleanup Levels					**1.5**	**2.2**	**0.0046**	**1.1**	**0.015**	**0.19**	**0.14**	**0.0017**	**0.000075**	**0.015**	**0.0017**	
TRIPBLANK	5/1/2014	--	--	--	--	--	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	<0.00017	--	--	--	--	
TRIPBLANK	5/1/2014	--	--	--	--	--	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	<0.00017	--	--	--	--	
TRIPBLANK	10/03/2014	--	--	--	--	--	<0.050	<0.00015	<0.00011	<0.00016	<0.00040	<0.00017	--	--	--	--	
TRIPBLANK	5/5/2015	--	--	--	--	--	<0.010	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0005	<0.0005 / <0.0015	<0.0005	--	--	--	--	
TRIPBLANK	11/05/2015	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0000098	--	--	
TRIPBLANK	04/18/2016	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	<0.0000097	--	--	
TRIPBLANK	09/26/2016	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	<0.0000096	--	--	
TRIPBLANK	4/26/2017	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	<0.0000096	--	--	
TRIPBLANK	10/04/2017	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	
TRIPBLANK	4/23/2018	--	--	--	--	--	<0.010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0000094	--	--	
TRIPBLANK	8/29/2018	--	--	--	--	--	<0.014 R	<0.0002 R	<0.0002 R	<0.0002 R	<0.0005 R	--	--	<0.0000098 R	--	--	
TRIPBLANK	8/29/2018	--	--	--	--	--	<0.014	<0.0002	<0.0002	<0.0004	<0.001	<0.0002	--	<0.0000098 R	--	--	

Notes:

ID = Identification
MW = Groundwater monitoring well
TOC = Top of casing
DTW = Depth to groundwater
ft bTOC = Feet below top of casing
ft = Feet
GW Elev = Groundwater elevation
LNAPL = Light Non-Aqueous Phase Liquid
ADEC = Alaska Department of Environmental Conservation
mg/L = Milligrams per liter
<0.0002 or ND= Not detected at or above the method detection limit (MDL)
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Levels
Bold = Value exceeds MDL
x [y] OR x / y = Duplicate Sample Results
R = The sample results are rejected
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

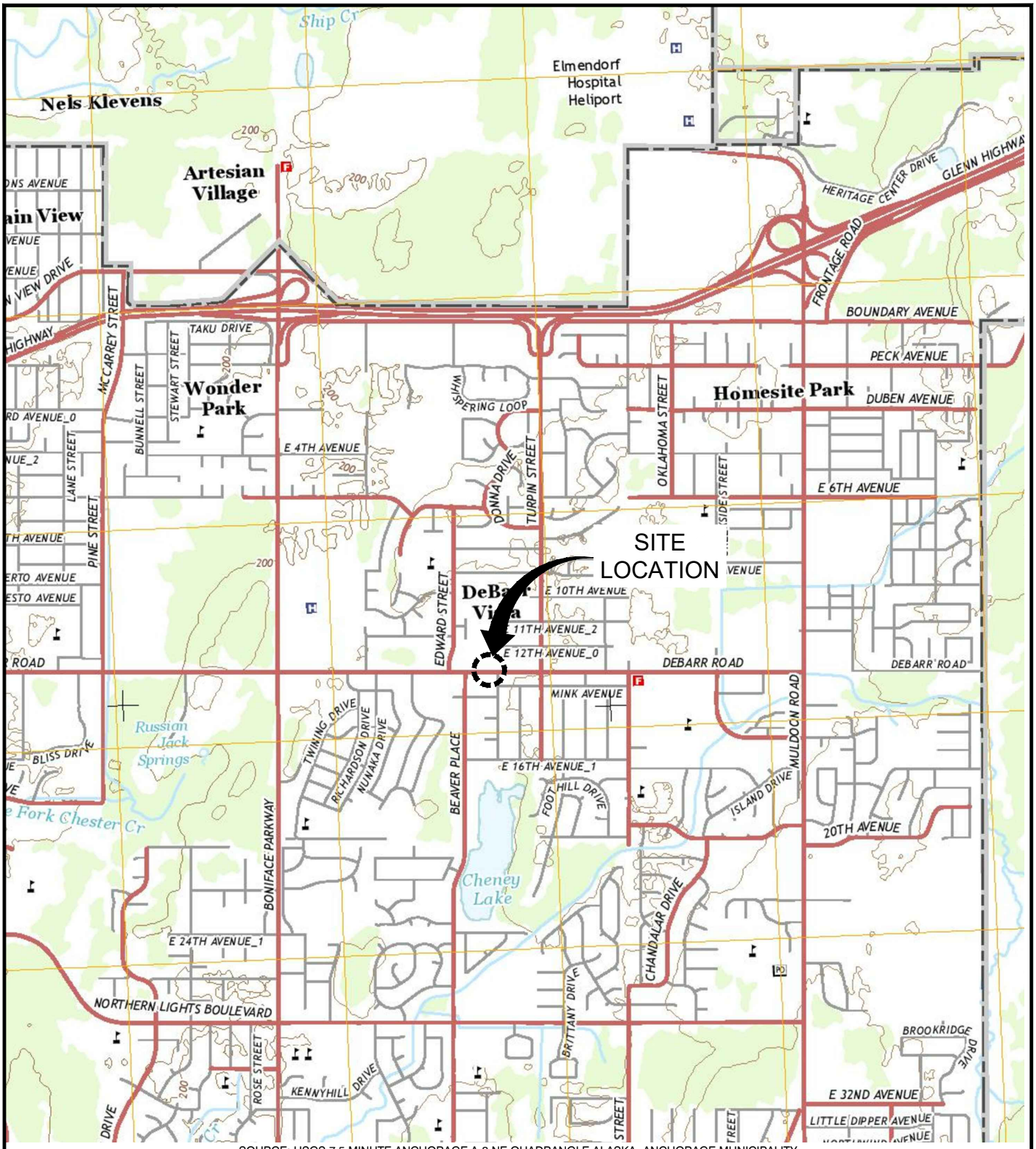
TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to Alaska Series Method AK101
Samples analyzed by USEPA Method 8260B:
Benzene, toluene, ethylbenzene and total xylenes (collectively BTEX)
MTBE = Methyl tert-butyl ether
EDC = 1, 2 Dicholorethane
Napthalene
Lead by USEPA Method 6010C
EDB = 1,2-Dibromoethane by USEPA Method SW-846 8011

Table 3. Historical PAH's Results
Third Quarter 1992 to Current
Former Chevron-Branded Service Station 90430
6470 Debarr Road, Anchorage, Alaska

Well ID	Sample Date	Acenaphthene mg/L	Acenaphthylene mg/L	Anthracene mg/L	Benzo(a)anthracene mg/L	Benzo(a)pyrene mg/L	Benzo(b)fluoranthene mg/L	Benzo(g,h,i)perylene mg/L	Benzo(k)fluoranthene mg/L	Chrysene mg/L	Dibenz(a,h)anthracene mg/L	Fluoranthene mg/L	Fluorene mg/L	Indeno(1,2,3-cd)pyrene mg/L	Naphthalene mg/L	Phenanthrene mg/L	Pyrene mg/L
ADEC Groundwater Cleanup Levels		**0.53**	**0.26**	**0.043**	**0.00030**	**0.00025**	**0.0025**	**0.00026**	**0.0008**	**0.002**	**0.00025**	**0.26**	**0.29**	**0.00019**	**0.0017**	**0.17**	**0.12**
MW-3	6/22/2010	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	**0.0006**	<0.000095	**0.0087**	**0.00021 J**	**0.000098 J**
MW-3	5/5/2015	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-3	11/5/2015	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-3	4/18/2016	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-3	9/26/2016	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	**0.0002 J**	<0.00009	<0.00009
MW-3	4/25/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-3	10/5/2017	**0.0002 J**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.0006**	<0.0001	**0.003**	**0.0003 J**	<0.0001
MW-4R	5/5/2015	0.0005 J / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	**0.001 / 0.0009**	<0.0001 / <0.0001	**0.041 / 0.033**	**0.0002 J / 0.0003 J**	<0.0001 / <0.0001
MW-4R	11/5/2015	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	**0.001 / 0.0009**	<0.0001 / <0.0001	**0.028 / 0.025**	**0.0003 J / 0.0003 J**	<0.0001 / <0.0001
MW-4R	4/18/2016	**0.0002 J / 0.0002 J**	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	**0.0008 / 0.0009**	<0.0001 / <0.0001	**0.030 / 0.035**	**0.0002 J / 0.0002 J**	<0.0001 / <0.0001
MW-4R	9/26/2016	<0.00009 / 0.0003 J	<0.00009 / <0.00009	<0.00009 / <0.00009	<0.00009 / <0.00009	<0.00009 / <0.00009	<0.00009 / <0.00009	<0.00009 / <0.00009	<0.00009 / <0.00009	<0.00009 / <0.00009	0.0001 J / <0.00009	<0.00009 / <0.00009	**0.001 / 0.001**	<0.00009 / <0.00009	**0.036 / 0.036**	**0.0003 J / 0.0003 J**	<0.00009 / <0.00009
MW-4R	4/26/2017	0.0004 J / <0.0001	<0.0001 / <0.0003	<0.0001 / <0.0003	<0.0001 / <0.0003	<0.0001 / <0.0003	<0.0001 / <0.0003	<0.0001 / <0.0003	<0.0001 / <0.0003	<0.0001 / <0.0003	<0.0001 / <0.0003	<0.0001 / <0.0003	**0.0007 J / 0.001**	<0.0001 / <0.0003	**0.037 / 0.029**	0.0003 J / <0.0003	<0.0001 / <0.0003
MW-4R	10/4/2017	**0.0005 J / 0.0004 J**	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	**0.0009 / 0.0008**	<0.0001 / <0.0001	**0.036 / 0.033**	**0.0003 J / 0.0003 J**	<0.0001 / <0.0001
MW-5R	5/5/2015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5R	11/5/2015	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-5R	4/18/2016	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-5R	9/26/2016	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.0001 J**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-5R	4/25/2017	<0.00009 / <0.0001	<0.00009 / <0.0001	<0.00009 / <0.0001	<0.00009 / <0.0001	<0.00009 / <0.0001	<0.00009 / <0.0001	<0.00009 / <0.0001	<0.00009 / <0.0001	<0.00009 / <0.0001	<0.00009 / <0.0001	<0.00009 / <0.0001	<0.00009 / <0.0001	<0.00009 / <0.0001	<0.00009 / <0.0001	<0.00009 / <0.0001	<0.00009 / <0.0001
MW-5R	10/5/2017	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001	<0.0001 / <0.0001
MW-7	5/5/2015	**0.0002 J**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.078**	<0.0001	**0.0001 J**
MW-7	11/5/2015	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.029**	<0.0001	<0.0001
MW-7	4/18/2016	**0.0002 J**	<0.0001 J	<0.0001 J	<0.0001 J	<0.0001J	<0.0001J	**0.0001 J**	<0.0001 J	<0.0001J	<0.0001J	<0.0001J	<0.0001J	<0.0001J	**0.087 J**	<0.0001J	<0.0001J
MW-7	9/26/2016	**0.0002 J**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.0002 J**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.09**	<0.0001	<0.0001
MW-7	4/25/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.009**	<0.0001	<0.0001
MW-7	10/5/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.046**	<0.0001	<0.0001
MW-10	5/5/2015	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-10	11/5/2015	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-10	9/26/2016	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-10	4/25/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-10	10/5/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-11	5/5/2015	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-11	11/5/2015	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-11	4/18/2016	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-11	9/26/2016	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009
MW-11	10/5/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-14	5/5/2015	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.003**	<0.0001	<0.0001
MW-14	4/18/2016	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.0006**	<0.0001	<0.0001
MW-14	9/26/2016	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.0001 J**	<0.0001	**0.0001 J**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.004**	<0.0001	<0.0001
MW-14	4/25/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.0003 J**	<0.0001	<0.0001
MW-14	10/4/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.002**	<0.0001	<0.0001
MW-16	5/5/2015	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-16	11/5/2015	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-16	4/18/2016	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-16	9/26/2016	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009
MW-16	4/25/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-16	10/5/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00009	<0.0001	<0.0001
MW-17	5/5/2015	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-17	4/18/2016	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-17	4/25/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

Notes:
PAHs = poly aromatic hydrocarbons by Method SW8270
ADEC = Alaska Department of Environmental Conservation
[a] = Levels established in ADEC Table C Groundwater Cleanup Levels (18 AAC 75.345)
Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level
Bold = Value exceeds MDL
mg/L = milligrams per liter
J = Estimated value
-- = Not measured / not analyzed
<x = Constituent not detected above x milligrams per liter
x / y = Sample results / blind duplicate results

FIGURES



SOURCE: USGS 7.5 MINUTE ANCHORAGE A-8 NE QUADRANGLE ALASKA -ANCHORAGE MUNICIPALITY

N

AREA LOCATION

ALASKA

0 2,000' 4,000'

APPROXIMATE SCALE : 1 in. = 2,000 ft.

FORMER CHEVRON SERVICE STATION 90430
6470 DEBARR ROAD
ANCHORAGE, ALASKA

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

DEBARR ROAD

10' Utility Easement

6' Arterial Landscape Easement

BEAVER PLACE

Shed

MW-17

Drive-Thru Coffee Kiosk

MW-6

Former USTs
(removed in 2000)

Former
Dispenser
Islands

Chain Link Fence (Typ.)

MW-13

Day Care

Grocery

Pizza

Florist

MW-11

MW-7

Former
Dispenser
Island

Former
Station Building

Former USTs

MW-3

MW-5R

Former Used
Oil UST

Former Heating
Oil UST

MW-4R

MW-14

A-B-K COMMERCIAL
SUBDIVISION NO. 3
Plat (95-59)

MW-16

Remediation
Building

MW-9

10' Sanitary Sewer Easement

10' Sanitary Sewer Easement

LOT 3
BLOCK 1

LOT 4
BLOCK 1

LOT 6A
BLOCK 1

MW-15

MW-8

MW-10

MW-12

10' Landscape Easement

10' Utility Easement

MINK AVENUE

N

LEGEND

PROPERTY BOUNDARY

MW-7 GROUNDWATER MONITORING WELL

MW-6 ABANDONED GROUNDWATER MONITORING WELL

x EXISTING FENCE

UST UNDERGROUND STORAGE TANK

0 40' 80'

APPROXIMATE SCALE

FORMER CHEVRON SERVICE STATION 90430
6470 DEBARR ROAD
ANCHORAGE, ALASKA

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

DEBARR ROAD

BEAVER PLACER PLACE

MINK AVENUE

10' Utility Easement

6' Arterial Landscape Easement

10' Sanitary Sewer Easement

10' Sanitary Sewer Easement

10' Landscape Easement

10' Utility Easement

Shed

Drive-Thru Coffee Kiosk

MW-17 (214.68)

MW-6

Former USTs (removed in 2000)

Former Dispenser Islands

Chain Link Fence (Typ.)

MW-13 (NG)

Day Care

Grocery

Pizza

Florist

MW-11 (214.68)

MW-7 (214.74)

Former Dispenser Island

Former Station Building

Former USTs

MW-3 (219.27)

0.04 FT/FT

A-B-K COMMERCIAL SUBDIVISION NO. 3 Plat (95-59)

MW-5R (214.72)

Former Used Oil UST

Former Heating Oil UST

MW-4R (219.45)

MW-14 (219.84)

MW-16 (214.24)

Remediation Building

MW-9 (220.06)

LOT 6A BLOCK 1

MW-15 (217.72)

LOT 3 BLOCK 1

LOT 4 BLOCK 1

MW-8 (215.06)

MW-10 (216.20)

MW-12 (215.81)

215.00

216.00

217.00

218.00

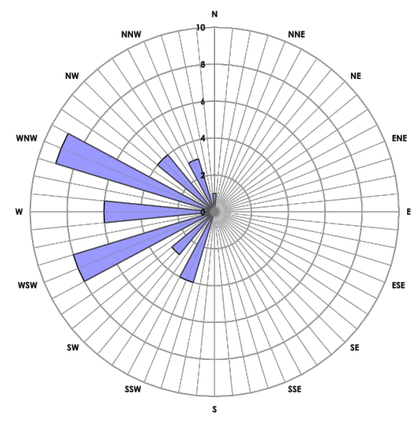
219.00

220.00

LEGEND

	PROPERTY BOUNDARY
MW-7	GROUNDWATER MONITORING WELL
MW-6	ABANDONED GROUNDWATER MONITORING WELL
x	EXISTING FENCE
UST	UNDERGROUND STORAGE TANK
(220.06)	GROUNDWATER ELEVATION IN FEET
220.00	GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
	APPROXIMATE DIRECTION OF GROUNDWATER FLOW
0.04 FT/FT	APPROXIMATE HYDRAULIC GRADIENT (FEET/FOOT)
(NG)	NOT GAUGED

N



HISTORIC GROUNDWATER FLOW DIRECTION

0 40' 80'

APPROXIMATE SCALE

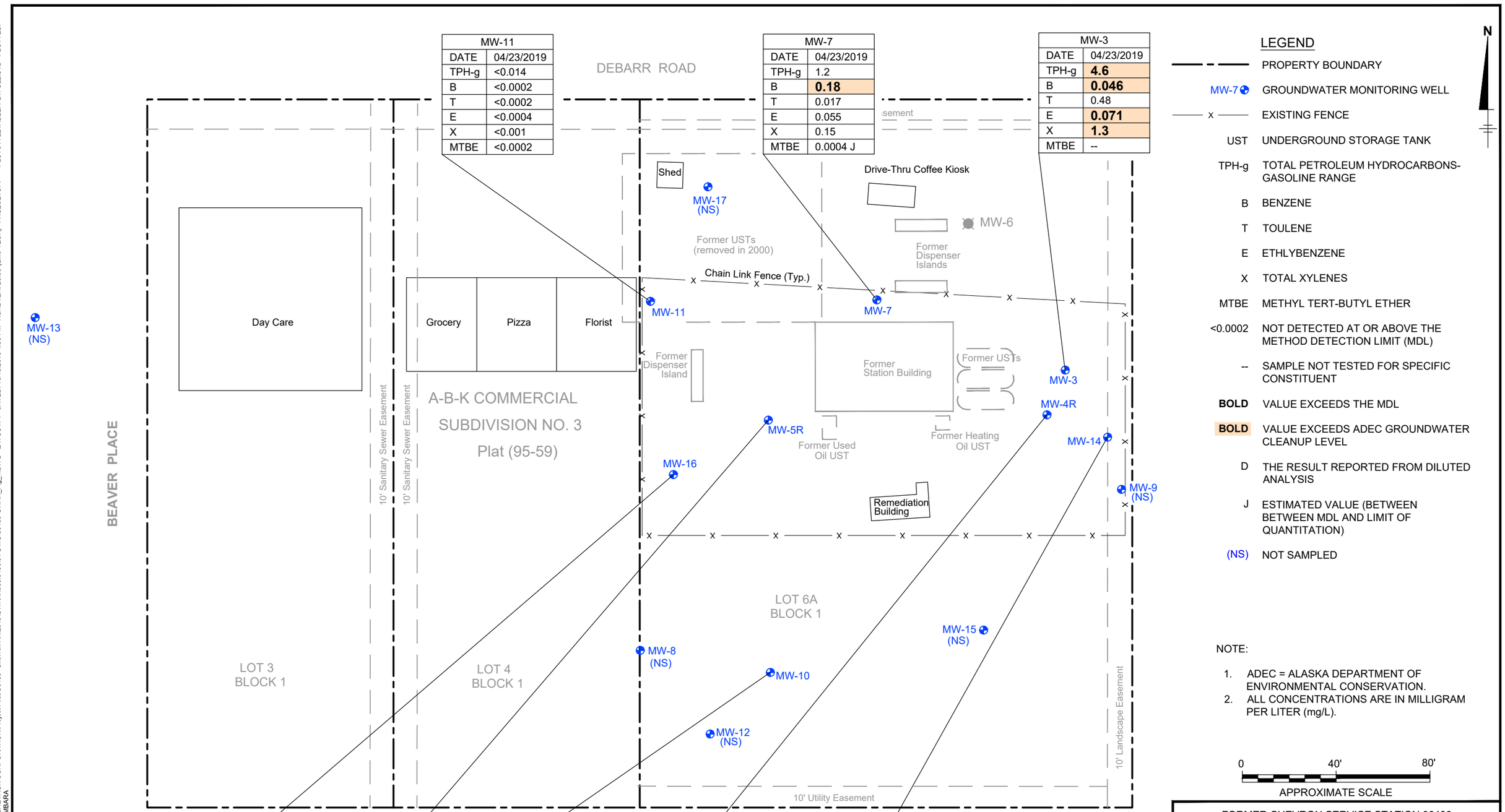
FORMER CHEVRON SERVICE STATION 90430
6470 DEBARR ROAD
ANCHORAGE, ALASKA

GROUNDWATER ELEVATION CONTOUR MAP JUNE 6, 2019

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\nb8986\BIM 360\Arcadis\ANA - CHEVRON CORPORATION\Project Files\90430- Chevron AK\2019\GWRAK000.0430\01-DWG\90430-GWC_Fig_3.DWG LAYOUT: 3 SAVED: 11/27/2019 4:51 PM ACADVER: 23.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 11/27/2019 5:42 PM BY: N. BALA



MW-16	
DATE	04/23/2019
TPH-g	<0.014
B	<0.0002
T	<0.0002
E	<0.0004
X	<0.001
MTBE	<0.0002

MW-5R	
DATE	04/23/2019
TPH-g	1.4
B	**0.61**
T	<0.001
E	<0.002
X	<0.005
MTBE	0.024

MW-10	
DATE	04/23/2019
TPH-g	<0.014
B	<0.0002
T	<0.0002
E	<0.0004
X	<0.001
MTBE	<0.0002

MW-4R	
DATE	04/23/2019
TPH-g	**55**
B	**3.2**
T	**12 D**
E	**2.7**
X	**12**
MTBE	--

MW-14	
DATE	04/23/2019
TPH-g	**34**
B	**0.039**
T	**7.3 D**
E	**0.91**
X	**5.7 D**
MTBE	--

FORMER CHEVRON SERVICE STATION 90430
6470 DEBARR ROAD
ANCHORAGE, ALASKA

GROUNDWATER ANALYTICAL RESULTS APRIL 23, 2019

ARCADIS Design & Consultancy for natural and built assets

FIGURE 4

APPENDIX A

Site Background and History

ARCADIS Design & Consultancy for natural and built assets

Chevron Environmental Management Company

Appendix A:

Site History and Background

Former Chevron Facility 90430
6470 Debarr Road
Anchorage, Alaska
ADEC File No: 2100.26.010
HAZARD ID No: 23615

December 19, 2019

APPENDIX B

Field Data Sheets

ARCADIS Design & Consultancy for natural and built assets

Daily Log

Project Name Chevron 90430 Project Number _____ Page 1 of 2

Site Location 6470 Dobar Rd. Anchorage, AK Date 4/23/2019

Field Personnel David Brandon / Evan Wojcik

Time	Description of Activities
0700	Arrive @ 900 H Street, Anchorage Office
0736	Prep Bottles, Labels, Coolers for 90430 ISAIG GWM
0800	Load Vehicle
0900	Depart Office for FedEx to ship 91356 ISAIG GW Sample and Pine Equipment (306456 & 306450 O&M)
0915	Depart FedEx for Site
1000	Begin gauging 90430 Monitoring Wells
	Well Gauging Note

Well ID	PID	DTW	TD	Notes
MW-3	197 ppm	9.50	17.4	No Bolts
MW-4R	2.7	10.67	17.5	
MW-5R	0.0	16.15	21.2	
MW-7	0.0	16.28	18.0	
MW-8	0.0	19.12	23.5	Needs Another Lock
MW-9	0.0	8.08	—	No Bolts
MW-10	0.0	15.01	24.9	
MW-11	0.0	16.55	21.6	
MW-12	0.0	16.19	25.8	
[redacted]	[redacted]	[redacted]	[redacted]	
MW-14	0.9	~~15.48~~ 8.69	~~19.7~~ 19.0	No Lock
MW-15	0.0	15.40	19.7	"
MW-16	0.0	15.90	24.2	No Lock
MW-17	0.0	14.83	23.7	

ARCADIS | Design & Consultancy for natural and built assets

Daily Log

Project Name _____ Project Number _____ Page 2 of 2

Site Location _____ Date _____

Field Personnel _____

Time	Description of Activities
1050	Sample MW-10 for GRO, BTEX, MTBE
1115	Decon equipment move to next well
1220	Sample MW-16 for GRO, BTEX, MTBE
1255	Decon equipment move to next well
1305	Sample MW-5R for GRO, BTEX, MTBE
1330	Decon equipment move to next well
1330	Sample MW-11 for GRO, BTEX, MTBE
1350	Decon equipment move to next well
1405	Sample MW-7 for GRO, BTEX, MTBE
1430	Decon equipment move to next well
1440	Sample MW-4R for GRO, BTEX, EDB, Lead
1505	Decon equipment move to next well
1525	Sample MW-14 for GRO, BTEX
1550	Decon equipment move to next well
1555	Sample MW-3 for GRO, BTEX
1620	Decon equipment, load vehicle, contact PM for close work
1630	Depart site for office
1645	Arrive at office, unload vehicle, finish paperwork

GROUNDWATER SAMPLING FORM

ARCADIS

Project No. Chevron 90430 | Well ID MW-10 | Date 4/23/19

Project Name/Location 6470 Dibrar Rd Anchorage AK | Weather clear 30°

Measuring Pt. Description Top of casing | Screen Setting (ft-bmp) well log unavailable | Casing Diameter (in.) 2 | Well Material X PVC ___ SS

Static Water Level (ft-bmp) 15.01 | Total Depth (ft-bmp) 24.9 | Water Column (ft) 9.9 | Gallons in Well 1.58

MP Elevation — | Pump Intake (ft-bmp) ~2 | Purge Method: Low Flow Centrifugal Submersible Other Bladder | Sample Method Low Flow

Pump On/Off 1050 / 1115 | Volumes Purged 1.833

Sample Time: Label 1105 | Gallons Purged 0.564

Purge Start 1053

Purge End 1102

Replicate/ Code No. ___ | Sampled by EJW

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons (mL) Purged	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
1053	3	300	15.03	900	7.39	515	162.9	9.10	4.1	58.3	cloudy	
1056	6	300	15.02	1800	6.95	514	146.7	9.09	4.1	67.7	clear	
1059	9	300	15.03	2700	6.77	514	143.9	9.09	3.9	76.9	clear	
1102	12	300	15.07	3600	6.72	514	139.8	9.06	3.9	81.8	clear	
						✓		✓		✓		
Stabilization Calculations (±)						< 3%		< 10%		< 10		
						< 3%		< 10%		< 10		
						< 3%		< 10%		< 10		
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
GRO AK 101	40mL VOA	3	HCl
BTEX 8260	40mL VOA	3	HCl
MTBE 8260	40mL VOA	3	HCl

Comments BD-1-W-190423 sampled at MW-10

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: S. of fence, in line with MW-5R

Condition of Well: sound

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well: —

GROUNDWATER SAMPLING FORM

ARCADIS

Page 1 of 1

Project No. Chevron 90430 Well ID MW-16 Date 4/23/14

Project Name/Location 6470 Debarr Rd Anchorage AK Weather clear 30°

Measuring Pt. Description Top of Casing Screen Setting (ft-bmp) well logs unavailable Casing Diameter (in.) 2 Well Material X PVC ___ SS

Static Water Level (ft-bmp) 15.80 Total Depth (ft-bmp) 24.2 Water Column (ft) 8.4 Gallons in Well 1.34

MP Elevation — Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Centrifugal Submersible Other Bladder Sample Method Low Flow

Pump On/Off 1220 / 1255 Volumes Purged 1.53

Sample Time: Label 1240 Gallons Purged 1.008

Purge Start 1225

Purge End 1234 Replicate/ Code No. ___ Sampled by EJW

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged (mL)	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
1225	5	300	15.82	1500	6.90	299.0	403.8	10.09	4.7	94.0	cloudy	
1228	8	300	15.84	2400	6.72	293.1	352.2	10.07	4.7	99.5	cloudy	
1231	11	300	15.81	3300	6.67	292.3	318.6	10.10	4.6	103.6	cloudy	
1234	14	300	15.81	4200	6.62	293.9	261.3	10.09	4.6	107.8	cloudy	
					✓	✓		✓		✓		
Stabilization Calculations (±)					<0.1	<3%				<10		
					<0.1	<3%				<10		
					<0.1	<3%				<10		
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
GRO AK 101	40 mL VOA	3	HCl
BTEX 8260	40 mL VOA	3	HCl
MTBE 8260	40 mL VOA	3	HCl

Comments MW-16-MS/MSD-W-190423 sampled at MW-11

Well Casing Volumes

Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.26 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

Well Information

Well Location: SW corner inside fence Well Locked at Arrival: Yes / No

Condition of Well: missing lock Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: —

GW Sample Form

10/15/2018

GROUNDWATER SAMPLING FORM

ARCADIS

Project No. Chevron 90430 | Well ID MW-5R | Date 4/23/19

Project Name/Location 6470 Debarr Rd Anchorage AK | Weather clear 30°

Measuring Pt. Description Top of Casing | Screen Setting (ft-bmp) well Logs unavailable | Casing Diameter (in.) 2 | Well Material X PVC ___ SS

Static Water Level (ft-bmp) 16.15 | Total Depth (ft-bmp) 21.2 | Water Column (ft) 5.05 | Gallons in Well 0.808

MP Elevation – | Pump Intake (ft-bmp) ~2 | Purge Method: Low Flow Centrifugal Submersible Other Bladder | Sample Method Low Flow

Pump On/Off 1305 / 1330 | Volumes Purged 0.94

Sample Time: Label 1320 | Gallons Purged 0.864

Purge Start 1308

Purge End 1317

Replicate/ Code No. ___ | Sampled by EW

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged (mL)	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
1308	3	300	16.18	900	6.80	1181	65.0	8.58	5.3	9.8	clear	
1311	6	300	16.19	1800	6.76	1184	27.6	0.77	4.7	-33.4	clear	
1314	9	300	16.16	2700	6.77	1183	24.1	0.63	4.7	-37.8	clear	
1317	12	300	16.18	3600	6.77	1180	24.0	0.55	4.6	-40.8	clear	
					✓	✓				✓		
Stabilization Calculations (±)					<.1	<3%				<10		
					<.1	<3%				<10		
					<.1	<3%				<10		
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
GRO AK 101	40mL VOA	3	HCl
BTEX 8260	40mL VOA	3	HCl
MTBE 8260	40mL VOA	3	HCl

Comments ___

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: West side, middle of fenced area

Condition of Well: good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well: ^

GROUNDWATER SAMPLING FORM

ARCADIS

Project No. Chevron 90430 Well ID ~~MW-11~~ MW-11 Date 4/23/19

Project Name/Location 6470 Debarr Rd Anchorage AK Weather clear 30°

Measuring Pt. Description Top of casing Screen Setting (ft-bmp) well logs unavailable Casing Diameter (in.) 4 Well Material X PVC ___ SS

Static Water Level (ft-bmp) 16.55 Total Depth (ft-bmp) 21.6 Water Column (ft) 5.05 Gallons in Well 3.28

MP Elevation — Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Centrifugal Submersible Other Bladder Sample Method Low Flow

Pump On/Off 1320 / 1360 Volumes Purged 3.79

Sample Time: Label 1340 Gallons Purged 0.864

Purge Start 1323

Purge End 1332

Replicate/ Code No. ___ Sampled by EW

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
1323	3	300	16.56	900	7.38	449.3	107.2	7.55	5.4	25.9	clear	
1326	6	300	16.56	1800	7.20	446.4	122.0	7.48	5.3	31.4	clear	
1329	9	300	16.57	2700	7.08	441.7	107.3	7.53	5.3	40.4	clear	
1332	12	300	16.55	3600	7.02	440.0	114.8	7.48	5.3	45.2	clear	
						✓		✓	✓	✓		
Stabilization Calculations (±)						<3%		<10%	<3%			
						<3%		<10%	<3%			
						<3%		<10%	<3%			
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
GRO AK 101	40 mL VOA	3	HCl
BTEX 8260	40 mL VOA	3	HCl
MTBE 8260	40 mL VOA	3	HCl

Comments ___

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: NW corner inside fence

Condition of Well: good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well: ___

GROUNDWATER SAMPLING FORM

ARCADIS

Page 1 of 1

Project No. Chevron 90430 Well ID MW-7 Date 4/23/19

Project Name/Location 6470 Debarr Rd Anchorage, AK Weather clear 30°

Measuring Pt. Description Top of Casing Screen Setting (ft-bmp) well logs unavailable Casing Diameter (in.) 4 Well Material X PVC ___ SS

Static Water Level (ft-bmp) 16.28 Total Depth (ft-bmp) 18.0 Water Column (ft) 1.7 Gallons in Well 1.1

MP Elevation ~~[redacted]~~ Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Centrifugal Submersible Other Bladder Sample Method Low Flow

Pump On/Off 1405 / 1430 Volumes Purged 1.28

Sample Time: Label 1420 Gallons Purged 0.864

Purge Start 1408

Purge End 1417

Replicate/ Code No. ___ Sampled by EW

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
1408	3	300	16.29	900	7.18	673	37.5	4.09	4.4	31.1	clear	
1411	6	300	16.30	1800	6.90	1011	29.6	3.23	4.0	25.4	clear	
1414	9	300	16.28	2700	6.75	1008	21.2	2.61	4.0	22.9	clear	
1417	12	300	16.27	3600	6.71	1004	16.4	2.17	4.0	22.0	clear	
						✓			✓	✓		
Stabilization Calculations (±)						< 3%			< 3%	< 10		
						< 3%			< 3%	< 10		
						< 3%			< 3%	< 10		
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
GRO AK 101	40 mL VOA	3	HCl
BTEX 8260	40 mL VOA	3	HCl
MTBE 8260	40 mL VOA	3	HCl

Comments ___

Well Casing Volumes

Gallons/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	

Well Information

Well Location: North end in fenced area next to fence

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well: —

GW Samp Form

10/15/2018

GROUNDWATER SAMPLING FORM

ARCADIS

Project No. Chevron 90430 | Well ID MW-4R | Date 4/23/19

Project Name/Location 6470 Debar Rd Anchorage AK | Weather clear 30°

Measuring Pt. Description Top of Casing | Screen Setting (ft-bmp) Well Logs unavailable | Casing Diameter (in.) 2 | Well Material X PVC ___ SS

Static Water Level (ft-bmp) 10.67 | Total Depth (ft-bmp) 17.5 | Water Column (ft) 6.8 | Gallons in Well 1.01

MP Elevation — | Pump Intake (ft-bmp) ~2 | Purge Method: Low Flow Centrifugal ___ Submersible ___ Other Bladder | Sample Method Low Flow

Pump On/Off 1440 / 1505 | Volumes Purged 1.26

Sample Time: Label 1455 | Gallons Purged 0.864

Purge Start 1443

Purge End 1452

Replicate/ Code No. ___

Sampled by EW

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons (mL) Purged	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
1443	3	300	10.69	900	6.97	770	19.8	8.15	3.5	38.6	clear	
1446	6	300	10.69	1800	6.84	775	18.9	8.12	3.5	39.8	clear	
1449	9	300	10.66	2700	6.77	785	14.2	7.25	3.5	32.6	clear	
1452	12	300	10.67	3600	6.72	406	12.2	5.92	3.5	24.5	clear	
					✓				✓	✓		
Stabilization Calculations (±)					<0.1				<3%	<10		
					<0.1				<3%	<10		
					<0.1				<3%	<10		
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled		Container	Number	Preservative
GRO	AK 101	40 mL VOA	3	HCl
BTEX	8260	40 mL VOA	3	HCl
EDB	8011	40 mL VOA	3	HCl
Lead	6010	100 mL HDPE	1	HNO3

Comments ___

Well Casing Volumes

Gallons/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	

Well Information

Well Location:	E. side inside fence, middle of lot	Well Locked at Arrival:	Yes / No
Condition of Well:	good	Well Locked at Departure:	Yes / No
Well Completion:	Flush Mount / Stick Up	Key Number To Well:	—

GW Samp Form

10/15/2018

GROUNDWATER SAMPLING FORM

ARCADIS

Page 1 of 1

Project No. Chevron [redacted] 90430 Well ID ~~[redacted]~~ MW-14 Date 4/23/19

Project Name/Location 6470 Debarr Rd Anchorage, AK Weather clear 30°

Measuring Pt. Description Top of casing Screen Setting (ft-bmp) Well Logs unavailable Casing Diameter (in.) 2 Well Material X PVC ___ SS

Static Water Level (ft-bmp) 8.69 Total Depth (ft-bmp) 18.0 Water Column (ft) 9.3 Gallons in Well 1.01

MP Elevation — Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Centrifugal ___ Submersible ___ Other Bladder Sample Method Low Flow

Pump On/Off 1525 / 1550 Volumes Purged 1.72

Sample Time: Label 1540 Gallons Purged 0.864

Purge Start 1528

Purge End 1537

Replicate/ Code No. ___ Sampled by EW

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged (mL)	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
1528	3	300	8.70	900	7.03	727	32.6	5.40	3.4	-8.2	clear	
1531	6	300	8.72	1800	6.73	719	31.4	3.88	3.4	12.3	clear	
1534	9	300	8.70	2700	6.66	716	31.7	3.04	3.5	16.4	clear	
1537	12	300	8.69	3600	6.59	711	36.9	2.08	3.6	19.8	clear	
					✓	✓	✓		✓	✓		
Stabilization Calculations (±)					<0.1		<10%			<10		
					<0.1		<10%			<10		
					<0.1		<10%			<10		
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
GRO AK 101	40mL VOA	3	HCl
BTEX 8260	40mL VOA	3	HCl
~~EDB 8011~~	~~40mL VOA~~	~~3~~	~~HCl~~
~~Lead 6010~~	~~100mL HDPE~~	~~1~~	~~HNO3~~

Comments ___

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: East side, inside fence, next to gate

Condition of Well: no lock

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well: —

GW Sampling Form

10/15/2018

GROUNDWATER SAMPLING FORM

ARCADIS

Project No. Chevron 90430 | Well ID MW-3 | Date 4/23/19

Project Name/Location 6470 Debarr Rd. Anchorage AK | Weather clear 30°

Measuring Pt. Description Top of casing | Screen Setting (ft-bmp) Well Logs unavailable | Casing Diameter (in.) 4 | Well Material X PVC ___ SS

Static Water Level (ft-bmp) 9.50 | Total Depth (ft-bmp) 17.4 | Water Column (ft) 7.9 | Gallons in Well 5.14

MP Elevation — | Pump Intake (ft-bmp) ~2 | Purge Method: Low Flow Centrifugal Submersible Other Bladder | Sample Method Low Flow

Pump On/Off 1555 / 1620 | Volumes Purged 5.94

Sample Time: Label 1610 | Gallons Purged 6.864

Purge Start 1558

Purge End 1607

Replicate/ Code No. ___ | Sampled by EW

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged (AL)	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
1558	3	300	9.53	900	6.90	411.7	15.5	2.19	3.3	37.9	clear	
1601	6	300	9.51	1800	6.73	409.4	16.2	1.89	3.3	44.9	clear	
1604	9	300	9.50	2700	6.59	399.9	18.4	1.61	3.2	51.6	clear	
1607	12	300	9.52	3600	6.53	404.0	17.9	1.62	3.2	54.8	clear	
						✓			✓	✓		
Stabilization Calculations (±)						<3%			<5%	<10		
						<3%			<5%	<10		
						<3%			<3%	<10		
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
GRO AK 101	40 mL VOA	3	HCl
BTEX 8260	40 mL VOA	3	HCl

Comments ___

Well Casing Volumes

Gallons/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	

Well Information

Well Location:	NE side inside fence	Well Locked at Arrival:	Yes / No
Condition of Well:	no bolts	Well Locked at Departure:	Yes / No
Well Completion:	Flush Mount / Stick Up	Key Number To Well:	—

GW Samp Form

10/15/2018

Chevron Generic Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only
Acct. # _____ Group # _____ Sample # _____

SCR #: _____

Client Information

Facility # 90430 0709 WBS Groundwater Sampling - Monitoring
Site Address 6470 Debarr Rd. Anchorage, Alaska
Chevron PM Eric Hedrick
Lead Consultant Arcadis
Consultant/Office 111 SW Columbia St., Ste 670, Portland OR 97201
Consultant Project Mgr. Nicole Monroe
Sampler Evan Lelujeik / David Beardin
State where samples were collected:
For Compliance: Yes ☑ No ☐

Preservation Codes

H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
F = Field Filtered O = Other

☐ Results in Dry Weight
☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil	Water	Oil	Sediment	Ground	Potable	NPDES	Surface	Air	Total Number of Containers	BTEX + MTBE 8021 / 8260 (Naphth)	8260 full scan	Oxygenates	TPH-GRO 8015 / 8260	TPH-DRO without Silica Gel Cleanup	TPH-DRO with Silica Gel Cleanup	VPH / EPH / Method	Lead Total / Diss. Method		Remarks
															H			H				N	H	
															☐	BTEX 8260		☐				6010	ED-B 8011	
EAB-FW-190423	4.23.19	1045	✓			✓								10	X			X				X	X	
MW-10-W-190423	4.23.19	1105	✓			✓								6	X			X						
MW-16-W-190423	4.23.19	1240	✓			✓								6	X			X						
MW-16-MS/MSD-W-190423	4.23.19	1240	✓			✓								6	X			X						
MW-5R-W-190423	4.23.19	1320	✓			✓								6	X			X						
MW-11-W-190423	4.23.19	1340	✓			✓								6	X			X						
MW-7-W-190423	4.23.19	1420	✓			✓								6	X			X						
MW-4R-W-190423	4.23.19	1455	✓			✓								10		X		X				X	X	
MW-14-W-190423	4.23.19	1540	✓			✓								6		X		X						
MW-3-W-190423	4.23.19	1610	✓			✓								6		X		X						

Turnaround Time Requested (TAT) (please circle)
Standard | 5 day | 4 day | ~~72 hour~~ | 48 hour | 24 hour

Data Package (circle if required)
Type I - Full | Type III | Type VI (Raw Data)

EDD (circle if required)
CVX-RTBU-FI_05 (default) | Other: _____

	Relinquished by	Date	Time	Received by	Date	Time
1		4.23.19	1700	Arcadis Cold Storage		
2				Fed Ex		
3						

Relinquished by Commercial Carrier: UPS _____ FedEx ✓ Other _____

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

Chevron Generic Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # _____ For Eurofins Lancaster Laboratories Environmental use only Group # _____ Sample # _____

Client Information

Facility # 90430 WBS

Site Address 6470 Deburr Rd. Anchorage, AK

Chevron PM Eric Hetrick Lead Consultant

Consultant/Office 111 SW Columbia St, Ste 670 Portland, OR 97201

Consultant Project Mgr. Nicole Monroe

Sampler Evan Klijcik / David Beandon

State where samples were collected: Alaska For Compliance: Yes ☒ No ☐

SCR #: _____

Preservation Codes

H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
F = Field Filtered O = Other

☐ Results in Dry Weight

☐ J value reporting needed

☐ Must meet lowest detection limits possible for 8260 compounds

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil	Matrix: Sediment	Matrix: Water	Matrix: Ground	Matrix: Potable	Matrix: NPDES	Matrix: Surface	Matrix: Air	Matrix: Oil	Total Number of Containers	BTEX + MTBE 8260 ☒ Naphth ☐ 8021	8260 full scan	Oxygenates	TPH-GRO ☐ 8260 ☐ 8015	TPH-DRO without Silica Gel Cleanup	TPH-DRO with Silica Gel Cleanup	VPH ☐ EPH ☐ Method	Lead Total ☐ Diss. ☒ Method 6010	EDB 8011
															H			H				N	H
BD-1-W-190423	4.23.19	—	✓				✓							6	X			X					
Trip Blank	4.18.19	—					✓							4	X			X					

Remarks

Turnaround Time Requested (TAT) (please circle)

Standard 5 day 4 day
72 hour 48 hour 24 hour

Data Package (circle if required)

Type I - Full Type III Type VI (Raw Data)

EDD (circle if required)

CVX-RTBU-FI_05 (default) Other: _____

Relinquished by	Date	Time	Received by	Date	Time
[signature]	4.23.19	1700	Arcalis Cold Storage		
			Fed Ex		

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

ARCADIS | Design & Consultancy for natural and built assets

Daily Log

Project Name 90430 **Project Number** 90430 **Page** 1 **of** 1

Site Location 6470 Debarr Rd Anchorage, AK **Date** 6/6/19

Field Personnel D. Beaudin, E. Wojcik, McLane Surveyors

Time	Description of Activities		
1215	Arrive on site		
	Well ID	DTW	notes
	MW-3	10.70	
	MW-4R	10.61	
	MW-5R	16.45	
	MW-7	16.77	
	MW-8	17.62	
	MW-9	9.13 ~~7.85~~	
	MW-10	13.36	
	MW-11	17.06	
	MW-12	13.48	
	MW-13	—	
	MW-14	9.75	
	MW-15	15.37	
	MW-16	16.30	
	MW-17	15.38	
1445	Depart site		

APPENDIX C

Laboratory Analytical Results

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ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

Report Date: May 05, 2019 08:45

Project: 90430

Account #: 11964
Group Number: 2040704
SDG: LSV48
PO Number: 0015310210
Release Number: HETRICK
State of Sample Origin: AK

Electronic Copy To	Arcadis	Attn: Melissa Blanchette
Electronic Copy To	Arcadis	Attn: Arti Patel
Electronic Copy To	Arcadis	Attn: Nicole Monroe

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

To view our laboratory's current scopes of accreditation please go to https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/ . Historical copies may be requested through your project manager.

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
QA-O-190423 Grab Water	04/23/2019 10:45	1042726
MW-10-W-190423 Grab Groundwater	04/23/2019 11:05	1042727
MW-16-W-190423 Grab Groundwater	04/23/2019 12:40	1042728
MW-16-W-190423MS Grab Groundwater	04/23/2019 12:40	1042729
MW-16-W-190423MSD Grab Groundwater	04/23/2019 12:40	1042730
MW-5R-W-190423 Grab Groundwater	04/23/2019 13:20	1042731
MW-11-W-190423 Grab Groundwater	04/23/2019 13:40	1042732
MW-7-W-190423 Grab Groundwater	04/23/2019 14:20	1042733
MW-4R-W-190423 Grab Groundwater	04/23/2019 14:55	1042734
MW-14-W-190423 Grab Groundwater	04/23/2019 15:40	1042735
MW-3-W-190423 Grab Groundwater	04/23/2019 16:10	1042736
BD-1-WD-190423 Grab Groundwater	04/23/2019	1042737
QA-T-190418 Water	04/18/2019	1042738

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Sample Description: **QA-O-190423 Grab Water**
Facility# 90430
6470 Debarr Rd - Anchorage, AK

Project Name: **90430**

Submittal Date/Time: 04/25/2019 10:20
Collection Date/Time: 04/23/2019 10:45
SDG#: LSV48-01EB

Chevron
ELLE Sample #: GW 1042726
ELLE Group #: 2040704
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
13130	Benzene	71-43-2	N.D.	0.2	1	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1	1
13130	Toluene	108-88-3	2	0.2	1	1
13130	Xylene (Total)	1330-20-7	N.D.	1	5	1
GC Volatiles	**AK 101**		**mg/l**	**mg/l**	**mg/l**	
01438	TPH-GRO AK water C6-C10	n.a.	N.D.	0.014	0.10	1
Volatiles by Extraction	**SW-846 8011**		**mg/l**	**mg/l**	**mg/l**	
10398	Ethylene dibromide	106-93-4	N.D. D1	0.0000096	0.000029	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
07055	Lead	7439-92-1	N.D.	0.0071	0.0150	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE 8260C	SW-846 8260C	1	F191201AA	04/30/2019 11:42	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	F191201AA	04/30/2019 11:41	Alexander D Sechrist	1
01438	TPH-GRO AK water C6-C10	AK 101	1	19118B20A	04/28/2019 15:12	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030C	1	19118B20A	04/28/2019 15:11	Marie D Beamenderfer	1
10398	EDB by 8011	SW-846 8011	1	191180002A	04/30/2019 03:15	Jessica L Miller	1
07786	EDB Extraction (8011)	SW-846 8011	1	191180002A	04/29/2019 10:00	David S Schrum	1
07055	Lead	SW-846 6010C	1	191161404407	04/30/2019 06:32	Kevin Litwa	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	191161404407	04/29/2019 06:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-10-W-190423 Grab Groundwater**
Facility# 90430
6470 Debarr Rd - Anchorage, AK

Project Name: **90430**

Submittal Date/Time: 04/25/2019 10:20
Collection Date/Time: 04/23/2019 11:05
SDG#: LSV48-02

Chevron
ELLE Sample #: GW 1042727
ELLE Group #: 2040704
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
13130	Benzene	71-43-2	N.D.	0.2	1	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1	1
13130	Toluene	108-88-3	N.D.	0.2	1	1
13130	Xylene (Total)	1330-20-7	N.D.	1	5	1
GC Volatiles	**AK 101**		**mg/l**	**mg/l**	**mg/l**	
01438	TPH-GRO AK water C6-C10	n.a.	N.D.	0.014	0.10	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE 8260C	SW-846 8260C	1	F191201AA	04/30/2019 12:04	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	F191201AA	04/30/2019 12:03	Alexander D Sechrist	1
01438	TPH-GRO AK water C6-C10	AK 101	1	19118B20A	04/28/2019 15:40	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030C	1	19118B20A	04/28/2019 15:39	Marie D Beamenderfer	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-16-W-190423 Grab Groundwater**
Facility# 90430
6470 Debarr Rd - Anchorage, AK

Project Name: **90430**

Submittal Date/Time: 04/25/2019 10:20
Collection Date/Time: 04/23/2019 12:40
SDG#: LSV48-03BKG

Chevron
ELLE Sample #: GW 1042728
ELLE Group #: 2040704
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
13130	Benzene	71-43-2	N.D.	0.2	1	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1	1
13130	Toluene	108-88-3	N.D.	0.2	1	1
13130	Xylene (Total)	1330-20-7	N.D.	1	5	1
GC Volatiles	**AK 101**		**mg/l**	**mg/l**	**mg/l**	
01438	TPH-GRO AK water C6-C10	n.a.	N.D.	0.014	0.10	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE 8260C	SW-846 8260C	1	F191201AA	04/30/2019 12:27	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	F191201AA	04/30/2019 12:26	Alexander D Sechrist	1
01438	TPH-GRO AK water C6-C10	AK 101	1	19118B20A	04/28/2019 16:07	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030C	1	19118B20A	04/28/2019 16:06	Marie D Beamenderfer	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-16-W-190423MS Grab Groundwater**
Facility# 90430
6470 Debarr Rd - Anchorage, AK

Project Name: **90430**

Submittal Date/Time: 04/25/2019 10:20
Collection Date/Time: 04/23/2019 12:40
SDG#: LSV48-03MS

Chevron
ELLE Sample #: GW 1042729
ELLE Group #: 2040704
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
13130	Benzene	71-43-2	22	0.2	1	1
13130	Ethylbenzene	100-41-4	21	0.4	1	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	20	0.2	1	1
13130	Toluene	108-88-3	22	0.2	1	1
13130	Xylene (Total)	1330-20-7	64	1	5	1
GC Volatiles	**AK 101**		**mg/l**	**mg/l**	**mg/l**	
01438	TPH-GRO AK water C6-C10	n.a.	1.3	0.014	0.10	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE 8260C	SW-846 8260C	1	F191201AA	04/30/2019 12:49	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	F191201AA	04/30/2019 12:48	Alexander D Sechrist	1
01438	TPH-GRO AK water C6-C10	AK 101	1	19118B20A	04/28/2019 16:35	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030C	1	19118B20A	04/28/2019 16:34	Marie D Beamenderfer	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-16-W-190423MSD Grab Groundwater**
Facility# 90430
6470 Debarr Rd - Anchorage, AK

Project Name: **90430**

Submittal Date/Time: 04/25/2019 10:20
Collection Date/Time: 04/23/2019 12:40
SDG#: LSV48-03MSD

Chevron
ELLE Sample #: GW 1042730
ELLE Group #: 2040704
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
13130	Benzene	71-43-2	23	0.2	1	1
13130	Ethylbenzene	100-41-4	22	0.4	1	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	22	0.2	1	1
13130	Toluene	108-88-3	23	0.2	1	1
13130	Xylene (Total)	1330-20-7	67	1	5	1
GC Volatiles	**AK 101**		**mg/l**	**mg/l**	**mg/l**	
01438	TPH-GRO AK water C6-C10	n.a.	1.3	0.014	0.10	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE 8260C	SW-846 8260C	1	F191201AA	04/30/2019 13:11	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	F191201AA	04/30/2019 13:10	Alexander D Sechrist	1
01438	TPH-GRO AK water C6-C10	AK 101	1	19118B20A	04/28/2019 17:02	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030C	1	19118B20A	04/28/2019 17:01	Marie D Beamenderfer	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-5R-W-190423 Grab Groundwater**
Facility# 90430
6470 Debarr Rd - Anchorage, AK

Project Name: **90430**

Submittal Date/Time: 04/25/2019 10:20
Collection Date/Time: 04/23/2019 13:20
SDG#: LSV48-04

Chevron
ELLE Sample #: GW 1042731
ELLE Group #: 2040704
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
13130	Benzene	71-43-2	610	1	5	5
13130	Ethylbenzene	100-41-4	N.D.	2	5	5
13130	Methyl Tertiary Butyl Ether	1634-04-4	24	1	5	5
13130	Toluene	108-88-3	N.D.	1	5	5
13130	Xylene (Total)	1330-20-7	N.D.	5	25	5
GC Volatiles	**AK 101**		**mg/l**	**mg/l**	**mg/l**	
01438	TPH-GRO AK water C6-C10	n.a.	1.4	0.014	0.10	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE 8260C	SW-846 8260C	1	F191201AA	04/30/2019 13:33	Alexander D Sechrist	5
01163	GC/MS VOA Water Prep	SW-846 5030C	1	F191201AA	04/30/2019 13:32	Alexander D Sechrist	5
01438	TPH-GRO AK water C6-C10	AK 101	1	19118B20A	04/28/2019 17:30	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030C	1	19118B20A	04/28/2019 17:29	Marie D Beamenderfer	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-11-W-190423 Grab Groundwater**
Facility# 90430
6470 Debarr Rd - Anchorage, AK

Project Name: **90430**

Submittal Date/Time: 04/25/2019 10:20
Collection Date/Time: 04/23/2019 13:40
SDG#: LSV48-05

Chevron
ELLE Sample #: GW 1042732
ELLE Group #: 2040704
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
13130	Benzene	71-43-2	N.D.	0.2	1	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1	1
13130	Toluene	108-88-3	N.D.	0.2	1	1
13130	Xylene (Total)	1330-20-7	N.D.	1	5	1
GC Volatiles	**AK 101**		**mg/l**	**mg/l**	**mg/l**	
01438	TPH-GRO AK water C6-C10	n.a.	N.D.	0.014	0.10	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE 8260C	SW-846 8260C	1	F191201AA	04/30/2019 13:55	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	F191201AA	04/30/2019 13:54	Alexander D Sechrist	1
01438	TPH-GRO AK water C6-C10	AK 101	1	19118B20A	04/28/2019 17:57	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030C	1	19118B20A	04/28/2019 17:56	Marie D Beamenderfer	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-7-W-190423 Grab Groundwater**
Facility# 90430
6470 Debarr Rd - Anchorage, AK

Project Name: **90430**

Submittal Date/Time: 04/25/2019 10:20
Collection Date/Time: 04/23/2019 14:20
SDG#: LSV48-06

Chevron
ELLE Sample #: GW 1042733
ELLE Group #: 2040704
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**		**ug/l**	**ug/l**	
13130	Benzene	71-43-2	180		0.2	1	1
13130	Ethylbenzene	100-41-4	55		0.4	1	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	0.4	J	0.2	1	1
13130	Toluene	108-88-3	17		0.2	1	1
13130	Xylene (Total)	1330-20-7	150		1	5	1
GC Volatiles	**AK 101**		**mg/l**		**mg/l**	**mg/l**	
01438	TPH-GRO AK water C6-C10	n.a.	1.2		0.014	0.10	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE 8260C	SW-846 8260C	1	F191201AA	04/30/2019 14:17	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	F191201AA	04/30/2019 14:16	Alexander D Sechrist	1
01438	TPH-GRO AK water C6-C10	AK 101	1	19118B20A	04/28/2019 18:25	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030C	1	19118B20A	04/28/2019 18:24	Marie D Beamenderfer	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-4R-W-190423 Grab Groundwater**
Facility# 90430
6470 Debarr Rd - Anchorage, AK

Project Name: **90430**

Submittal Date/Time: 04/25/2019 10:20
Collection Date/Time: 04/23/2019 14:55
SDG#: LSV48-07

Chevron
ELLE Sample #: GW 1042734
ELLE Group #: 2040704
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
13130	Benzene	71-43-2	3,200	10	50	50
13130	Ethylbenzene	100-41-4	2,700	20	50	50
13130	Toluene	108-88-3	12,000	100	500	500
13130	Xylene (Total)	1330-20-7	12,000	50	250	50
GC Volatiles	**AK 101**		**mg/l**	**mg/l**	**mg/l**	
01438	TPH-GRO AK water C6-C10	n.a.	55	0.70	5.0	50
Volatiles by Extraction	**SW-846 8011**		**mg/l**	**mg/l**	**mg/l**	
10398	Ethylene dibromide	106-93-4	N.D. D1	0.0000096	0.000029	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
07055	Lead	7439-92-1	N.D.	0.0071	0.0150	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX 8260C	SW-846 8260C	1	F191222AA	05/02/2019 17:01	Alexander D Sechrist	50
13130	BTEX 8260C	SW-846 8260C	1	F191232AA	05/03/2019 16:56	Alexander D Sechrist	500
01163	GC/MS VOA Water Prep	SW-846 5030C	1	F191222AA	05/02/2019 17:00	Alexander D Sechrist	50
01163	GC/MS VOA Water Prep	SW-846 5030C	2	F191232AA	05/03/2019 16:55	Alexander D Sechrist	500
01438	TPH-GRO AK water C6-C10	AK 101	1	19118B20A	04/28/2019 19:47	Marie D Beamenderfer	50
01146	GC VOA Water Prep	SW-846 5030C	1	19118B20A	04/28/2019 19:46	Marie D Beamenderfer	50
10398	EDB by 8011	SW-846 8011	1	191180002A	04/30/2019 03:46	Jessica L Miller	1
07786	EDB Extraction (8011)	SW-846 8011	1	191180002A	04/29/2019 10:00	David S Schrum	1
07055	Lead	SW-846 6010C	1	191161404407	04/30/2019 06:49	Kevin Litwa	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	191161404407	04/29/2019 06:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: **MW-14-W-190423 Grab Groundwater**
Facility# 90430
6470 Debarr Rd - Anchorage, AK

Project Name: **90430**

Submittal Date/Time: 04/25/2019 10:20
Collection Date/Time: 04/23/2019 15:40
SDG#: LSV48-08

Chevron
ELLE Sample #: GW 1042735
ELLE Group #: 2040704
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
13130	Benzene	71-43-2	39	1	5	5
13130	Ethylbenzene	100-41-4	910	2	5	5
13130	Toluene	108-88-3	7,300	10	50	50
13130	Xylene (Total)	1330-20-7	5,700	50	250	50
GC Volatiles	**AK 101**		**mg/l**	**mg/l**	**mg/l**	
01438	TPH-GRO AK water C6-C10	n.a.	34	0.28	2.0	20

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX 8260C	SW-846 8260C	1	F191222AA	05/02/2019 17:23	Alexander D Sechrist	50
13130	BTEX 8260C	SW-846 8260C	1	F191232AA	05/03/2019 17:18	Alexander D Sechrist	5
01163	GC/MS VOA Water Prep	SW-846 5030C	1	F191222AA	05/02/2019 17:22	Alexander D Sechrist	50
01163	GC/MS VOA Water Prep	SW-846 5030C	2	F191232AA	05/03/2019 17:17	Alexander D Sechrist	5
01438	TPH-GRO AK water C6-C10	AK 101	1	19118B20A	04/28/2019 20:42	Marie D Beamenderfer	20
01146	GC VOA Water Prep	SW-846 5030C	1	19118B20A	04/28/2019 20:41	Marie D Beamenderfer	20

*=This limit was used in the evaluation of the final result

Sample Description: **MW-3-W-190423 Grab Groundwater**
Facility# 90430
6470 Debarr Rd - Anchorage, AK

Project Name: **90430**

Submittal Date/Time: 04/25/2019 10:20
Collection Date/Time: 04/23/2019 16:10
SDG#: LSV48-09

Chevron
ELLE Sample #: GW 1042736
ELLE Group #: 2040704
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
13130	Benzene	71-43-2	46	1	5	5
13130	Ethylbenzene	100-41-4	71	2	5	5
13130	Toluene	108-88-3	480	1	5	5
13130	Xylene (Total)	1330-20-7	1,300	5	25	5
GC Volatiles	**AK 101**		**mg/l**	**mg/l**	**mg/l**	
01438	TPH-GRO AK water C6-C10	n.a.	4.6	0.070	0.50	5

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX 8260C	SW-846 8260C	1	F191222AA	05/02/2019 17:46	Alexander D Sechrist	5
01163	GC/MS VOA Water Prep	SW-846 5030C	1	F191222AA	05/02/2019 17:45	Alexander D Sechrist	5
01438	TPH-GRO AK water C6-C10	AK 101	1	19118B20A	04/28/2019 21:09	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030C	1	19118B20A	04/28/2019 21:08	Marie D Beamenderfer	5

*=This limit was used in the evaluation of the final result

Sample Description: **BD-1-WD-190423 Grab Groundwater**
Facility# 90430
6470 Debarr Rd - Anchorage, AK

Project Name: **90430**

Submittal Date/Time: 04/25/2019 10:20
Collection Date/Time: 04/23/2019
SDG#: LSV48-10FD

Chevron
ELLE Sample #: GW 1042737
ELLE Group #: 2040704
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
13130	Benzene	71-43-2	N.D.	0.2	1	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1	1
13130	Toluene	108-88-3	N.D.	0.2	1	1
13130	Xylene (Total)	1330-20-7	N.D.	1	5	1
GC Volatiles	**AK 101**		**mg/l**	**mg/l**	**mg/l**	
01438	TPH-GRO AK water C6-C10	n.a.	N.D.	0.014	0.10	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE 8260C	SW-846 8260C	1	F191212AA	05/01/2019 12:27	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	F191212AA	05/01/2019 12:26	Alexander D Sechrist	1
01438	TPH-GRO AK water C6-C10	AK 101	1	19118B20A	04/28/2019 19:20	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030C	1	19118B20A	04/28/2019 19:19	Marie D Beamenderfer	1

*=This limit was used in the evaluation of the final result

Sample Description: **QA-T-190418 Water**
Facility# 90430
6470 Debarr Rd - Anchorage, AK

Project Name: **90430**

Submittal Date/Time: 04/25/2019 10:20
Collection Date/Time: 04/18/2019
SDG#: LSV48-11TB

Chevron
ELLE Sample #: GW 1042738
ELLE Group #: 2040704
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
13130	Benzene	71-43-2	N.D.	0.2	1	1
13130	Ethylbenzene	100-41-4	N.D.	0.4	1	1
13130	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1	1
13130	Toluene	108-88-3	N.D.	0.2	1	1
13130	Xylene (Total)	1330-20-7	N.D.	1	5	1
GC Volatiles	**AK 101**		**mg/l**	**mg/l**	**mg/l**	
01438	TPH-GRO AK water C6-C10	n.a.	N.D.	0.014	0.10	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13130	BTEX/MTBE 8260C	SW-846 8260C	1	F191212AA	05/01/2019 12:49	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	F191212AA	05/01/2019 12:48	Alexander D Sechrist	1
01438	TPH-GRO AK water C6-C10	AK 101	1	19118A20A	04/28/2019 23:53	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030C	1	19118A20A	04/28/2019 23:52	Marie D Beamenderfer	1

*=This limit was used in the evaluation of the final result

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Quality Control Summary

Client Name: Chevron
Reported: 05/05/2019 08:45

Group Number: 2040704

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: F191201AA	Sample number(s): 1042726-1042733		
Benzene	N.D.	0.2	1
Ethylbenzene	N.D.	0.4	1
Methyl Tertiary Butyl Ether	N.D.	0.2	1
Toluene	N.D.	0.2	1
Xylene (Total)	N.D.	1	5
Batch number: F191212AA	Sample number(s): 1042737-1042738		
Benzene	N.D.	0.2	1
Ethylbenzene	N.D.	0.4	1
Methyl Tertiary Butyl Ether	N.D.	0.2	1
Toluene	N.D.	0.2	1
Xylene (Total)	N.D.	1	5
Batch number: F191222AA	Sample number(s): 1042734-1042736		
Benzene	N.D.	0.2	1
Ethylbenzene	N.D.	0.4	1
Toluene	N.D.	0.2	1
Xylene (Total)	N.D.	1	5
Batch number: F191232AA	Sample number(s): 1042734-1042735		
Benzene	N.D.	0.2	1
Ethylbenzene	N.D.	0.4	1
Toluene	N.D.	0.2	1
	mg/l	mg/l	mg/l
Batch number: 19118A20A	Sample number(s): 1042738		
TPH-GRO AK water C6-C10	N.D.	0.014	0.10
Batch number: 19118B20A	Sample number(s): 1042726-1042737		
TPH-GRO AK water C6-C10	N.D.	0.014	0.10
Batch number: 191180002A	Sample number(s): 1042726,1042734		
Ethylene dibromide	N.D.	0.000010	0.000030
Batch number: 191161404407	Sample number(s): 1042726,1042734		
Lead	N.D.	0.0071	0.0150

LCS/LCSD

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 05/05/2019 08:45

Group Number: 2040704

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F191201AA	Sample number(s): 1042726-1042733								
Benzene	20	20.5			103		80-120		
Ethylbenzene	20	19.56			98		80-120		
Methyl Tertiary Butyl Ether	20	20.01			100		69-122		
Toluene	20	20.4			102		80-120		
Xylene (Total)	60	59.72			100		80-120		
Batch number: F191212AA	Sample number(s): 1042737-1042738								
Benzene	20	20.8	20	20.29	104	101	80-120	2	30
Ethylbenzene	20	19.87	20	19.27	99	96	80-120	3	30
Methyl Tertiary Butyl Ether	20	20.13	20	19.68	101	98	69-122	2	30
Toluene	20	20.76	20	20.16	104	101	80-120	3	30
Xylene (Total)	60	59.72	60	58.28	100	97	80-120	2	30
Batch number: F191222AA	Sample number(s): 1042734-1042736								
Benzene	20	20.86	20	20.63	104	103	80-120	1	30
Ethylbenzene	20	20.18	20	19.33	101	97	80-120	4	30
Toluene	20	20.78	20	20.15	104	101	80-120	3	30
Xylene (Total)	60	61.23	60	59.21	102	99	80-120	3	30
Batch number: F191232AA	Sample number(s): 1042734-1042735								
Benzene	20	21.24			106		80-120		
Ethylbenzene	20	19.27			96		80-120		
Toluene	20	20.32			102		80-120		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 19118A20A	Sample number(s): 1042738								
TPH-GRO AK water C6-C10	1.10	1.14			104		60-120		
Batch number: 19118B20A	Sample number(s): 1042726-1042737								
TPH-GRO AK water C6-C10	1.10	1.20			109		60-120		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 191180002A	Sample number(s): 1042726,1042734								
Ethylene dibromide	0.000128	0.000152	0.000128	0.000155	119	121	60-140	2	20
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 191161404407	Sample number(s): 1042726,1042734								
Lead	0.150	0.159			106		87-113		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 05/05/2019 08:45

Group Number: 2040704

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: F191201AA	Sample number(s): 1042726-1042733 UNSPK: 1042728									
Benzene	N.D.	20	21.89	20	23.06	109	115	80-120	5	30
Ethylbenzene	N.D.	20	21.26	20	22.15	106	111	80-120	4	30
Methyl Tertiary Butyl Ether	N.D.	20	20.45	20	21.65	102	108	69-122	6	30
Toluene	N.D.	20	22.05	20	22.97	110	115	80-120	4	30
Xylene (Total)	N.D.	60	64.36	60	67.13	107	112	80-120	4	30
	mg/l	**mg/l**	**mg/l**	**mg/l**	**mg/l**					
Batch number: 19118B20A	Sample number(s): 1042726-1042737 UNSPK: 1042728									
TPH-GRO AK water C6-C10	N.D.	1.10	1.30	1.10	1.28	119	117	60-120	2	20
	mg/l	**mg/l**	**mg/l**	**mg/l**	**mg/l**					
Batch number: 191180002A	Sample number(s): 1042726,1042734 UNSPK: 1042726									
Ethylene dibromide	N.D.	0.000123	0.000146			118		60-140		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Batch number: 191180002A	Sample number(s): 1042726,1042734 BKG: 1042734			
Ethylene dibromide	N.D.	N.D.	0 (1)	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE 8260C
Batch number: F191201AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1042726	94	95	100	97
1042727	93	96	102	98
1042728	93	95	101	97
1042729	92	99	102	99
1042730	93	98	101	97

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 05/05/2019 08:45

Group Number: 2040704

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE 8260C
Batch number: F191201AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1042731	94	95	101	99
1042732	93	96	103	99
1042733	93	95	101	98
Blank	93	92	101	98
LCS	92	98	101	99
MS	92	99	102	99
MSD	93	98	101	97
Limits:	80-120	80-120	80-120	80-120

Analysis Name: BTEX/MTBE 8260C
Batch number: F191212AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1042737	94	97	100	98
1042738	95	97	100	97
Blank	93	99	100	96
LCS	94	98	100	99
LCSD	92	102	101	100
Limits:	80-120	80-120	80-120	80-120

Analysis Name: BTEX 8260C
Batch number: F191222AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1042734	94	98	99	96
1042736	95	98	100	99
Blank	109	98	100	98
LCS	93	99	100	99
LCSD	95	99	101	98
Limits:	80-120	80-120	80-120	80-120

Analysis Name: BTEX 8260C
Batch number: F191232AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1042735	95	99	100	97
Blank	96	99	99	98
LCS	94	100	98	99
Limits:	80-120	80-120	80-120	80-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 05/05/2019 08:45

Group Number: 2040704

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO AK water C6-C10
Batch number: 19118A20A

	Trifluorotoluene-F
1042738	79
Blank	80
LCS	91
Limits:	60-120

Analysis Name: TPH-GRO AK water C6-C10
Batch number: 19118B20A

	Trifluorotoluene-F
1042726	85
1042727	84
1042728	84
1042729	89
1042730	90
1042731	85
1042732	80
1042733	86
1042734	84
1042735	79
1042736	82
1042737	75
Blank	83
LCS	92
MS	89
MSD	90
Limits:	60-120

Analysis Name: EDB by 8011
Batch number: 191180002A

	1,1,2,2-Tetrachloroethane-D1	1,1,2,2-Tetrachloroethane-D2
1042726	74	67
1042734	70	112
Blank	68	65
DUP	65	102
LCS	64	62
LCSD	62	61
MS	71	66
Limits:	46-136	46-136

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Chevron Generic Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 11964 | For Eurofins Lancaster Laboratories Environmental use only Group # 2040704 Sample # 1042726-38

Client Information

Facility # 90430 WBS 0709 Groundwater Sampling - Monitoring

Site Address 6470 Debarr Rd. Anchorage, Alaska

Chevron PM: Eric Hedrick | Lead Consultant: Arcadis

Consultant/Office: 111 SW Columbia St, Ste 670, Portland, OR 97201

Consultant Project Mgr.: Nicole Monroe

Sampler: Evan Wojcik / David Beardin

State where samples were collected: | For Compliance: Yes ☑ No ☐

SCR #:

Matrix

Soil ☐ | Sediment ☐ | Potable ☐ | Ground ☒ | NPDES ☐ | Surface ☐ | Air ☐ | Oil ☐

Analyses Requested

Preservation and Filtration Codes

Sample Identification	Collected Date	Collected Time	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☒	~~8260 full scan~~	Oxygenates ____	TPH-GRO 8260 ☐ 8015 ☐ AK101	TPH-DRO without Silica Gel Cleanup ☐	TPH-DRO with Silica Gel Cleanup ☐	VPH ☐ EPH ☐ Method ____	Lead Total ☒ Diss. ☐ Method 6010	EDB 8011
EQB-1-W-190423	4.23.19	1045	✓		10	X			X				X	X
MW-10-W-190423	4.23.19	1105	✓		6	X			X					
MW-16-W-190423	4.23.19	1240	✓		6	X			X					
MW-16-MS/MSD-W-190423	4.23.19	1240	✓		6	X			X					
MW-5R-W-190423	4.23.19	1320	✓		6	X			X					
MW-11-W-190423	4.23.19	1340	✓		6	X			X					
MW-7-W-190423	4.23.19	1420	✓		6	X			X					
MW-4R-W-190423	4.23.19	1455	✓		10		X		X				X	X
MW-14-W-190423	4.23.19	1540	✓		6		X		X					
MW-3-W-190423	4.23.19	1610	✓		6		X		X					

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; $S = H_2SO_4$; $P = H_3PO_4$; F = Field Filtered; O = Other

☐ Results in Dry Weight

☐ J value reporting needed

☐ Must meet lowest detection limits possible for 8260 compounds

Remarks

Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | ~~72 hour~~ | 48 hour | 24 hour

Data Package (circle if required)

Type I - Full | Type III | Type VI (Raw Data)

EDD (circle if required)

CVX-RTBU-FI_05 (default) | Other: ____

Relinquished by	Date	Time	Received by	Date	Time
	4.23.19	1700	Arcadis Cold Storage		
	4.24.19	0830	FedEx		

Relinquished by Commercial Carrier: UPS ____ FedEx ✓ Other ____

Received by | Date 4-26 | Time 1020

Temperature Upon Receipt 0.6 °C

Custody Seals Intact? Yes | No

(3) 4-26-19

Chevron Generic Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 11964 For Eurofins Lancaster Laboratories Environmental use only Group # 2040704 Sample # 1042726-38

SCR #:

Client Information

Facility # 90430 WBS

Site Address: 6470 Debarr Rd, Anchorage, AK

Chevron PM: Eric Hetrick Lead Consultant

Consultant/Office: 111 SW Columbia St, Ste 670 Portland, OR 97201

Consultant Project Mgr.: Nicole Monroe

Sampler: Evan Klujcik / David Beandon

State where samples were collected: Alaska

For Compliance: Yes ☒ No ☐

Matrix: ☐ Sediment ☑ Ground ☐ Surface ☐ Potable ☐ NPDES ☐ Soil Water ☐ Air ☐ Oil

Analyses Requested — Preservation and Filtration Codes: H (BTEX + MTBE), H (TPH-GRO), N (Lead)

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE ~~8021~~ ☐ 8260 ☒ ~~Naphth~~ ☐	8260 full scan	Oxygenates	TPH-GRO AK101 ☐ 8015 ☐ 8260	TPH-DRO without Silica Gel Cleanup ☐	TPH-DRO with Silica Gel Cleanup ☐	VPH ☐ EPH ☐ Method	Lead Total ☒ Diss. ☐ Method 6010	EDB 8011		
BD-1-W-190423	4.23.19	—	✓			✓		6	X			X							
Trip Blank	4.18.19	—				✓		4	X			X							

Preservation Codes

H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, F = Field Filtered, O = Other

☐ Results in Dry Weight

☐ J value reporting needed

☐ Must meet lowest detection limits possible for 8260 compounds

Remarks

Turnaround Time Requested (TAT) (please circle)

(Standard) 5 day 4 day
72 hour 48 hour 24 hour

Data Package (circle if required)

Type I - Full (Type III) Type VI (Raw Data)

EDD (circle if required)

(CVX-RTBU-FI_05 (default)) Other: ______

Relinquished by	Date	Time	Received by	Date	Time
[signature]	4.23.19	1700	Arcadis Cold Storage		
[signature]	4.24.19	0830	Fed Ex		
Relinquished by Commercial Carrier: UPS ___ FedEx ___ Other ___			[signature]	4-25-19	1020

Temperature Upon Receipt 0.6 °C

Custody Seals Intact? (Yes) No

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7047 1117

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 247309

Group Number(s): 2040704

Client: Chevron

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	04/25/2019 10:20
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	AK		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	4
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Cory Jeremiah (10469) at 17:23 on 04/25/2019

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	0.6	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

APPENDIX D

ADEC Data Review Checklist

Laboratory Data Review Checklist

Completed By:

Suresh PR

Title:

Project Chemist

Date:

July 2, 2019

CS Report Name:

First Semiannual 2019 Groundwater Monitoring Report

Report Date:

May 05, 2019

Consultant Firm:

ARCADIS U.S., Inc

Laboratory Name:

Eurofins Lancaster Laboratory, Lancaster, Pennsylvania

Laboratory Report Number:

2040704 – LSV48

ADEC File Number:

2100.26.010

Hazard Identification Number:

23615

1. Laboratory

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

   ☑ Yes ☐ No 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 Comments:

Samples were not transferred to another lab.

2. Chain of Custody (CoC)

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

   ☑ Yes ☐ No Comments:

Yes.

   b. Correct Analyses requested?

   ☑ Yes ☐ No Comments:

Yes.

3. Laboratory Sample Receipt Documentation

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

   ☑ Yes ☐ No Comments:

Yes.

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

   ☑ Yes ☐ No Comments:

Yes.

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

   ☑ Yes ☐ No 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 Comments:

No discrepancies.

e. Data quality or usability affected?

☐ Yes ☒ No Comments:

Data quality/usability was not affected.

4. Case Narrative

a. Present and understandable?

☐ Yes ☒ No Comments:

Case narrative was not provided by the laboratory

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

☒ Yes ☐ No Comments:

Yes.

c. Were all corrective actions documented?

☐ Yes ☒ No Comments:

No.

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

☐ Yes ☒ No Comments:

Data quality/usability was not affected.

5. Samples Results

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

☒ Yes ☐ No Comments:

Yes.

b. All applicable holding times met?

☒ Yes ☐ No Comments:

Yes.

c. All soils reported on a dry weight basis?

☐ Yes ☒ No Comments:

No soil samples were submitted for analysis.

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

☒ Yes ☐ No Comments:

Yes.

e. Data quality or usability affected?

☐ Yes ☒ No Comments:

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 Comments:

Yes.

ii. All method blank results less than Method Detection Limit (MDL)?

☒ Yes ☐ No Comments:

Yes.

iii. If above MDL, what samples are affected?

☐ Yes ☒ No Comments:

None of the data affected.

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

☐ Yes ☒ No Comments:

No.

v. Data quality or usability affected?

☐ Yes ☒ No Comments:

Data quality/usability was not affected.

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

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

☒ Yes ☐ No Comments:

Yes.

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

☒ Yes ☐ No Comments:

Yes.

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

☒ Yes ☐ No Comments:

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

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

☒ Yes ☐ No Comments:

The RPDs between LCS/LCSD were within the control limits.

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

☐ Yes ☒ No Comments:

None of the sample affected.

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

☐ Yes ☒ No Comments:

No.

vii. Data quality or usability affected?

☐ Yes ☒ No Comments:

Data quality/usability was not affected.

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

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

☒ Yes ☐ No Comments:

Sample MW-16-W-190423 was used as the MS/MSD analysis.

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

☒ Yes ☐ No Comments:

The MS and MSD recoveries in sample MW-16-W-190423 were within the control limits.

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

☒ Yes ☐ No Comments:

Yes.

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

☐ Yes ☒ No Comments:

No.

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

☐ Yes ☒ No Comments:

No.

vi. Data quality or usability affected? (use comment box to explain)

☐ Yes ☒ No Comments:

Data quality/usability was not affected.

d. Surrogates – Organics Only

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

☒ Yes ☐ No Comments:

Yes

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

☒ Yes ☐ No Comments:

All surrogate recoveries were within the control limits.

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

☐ Yes ☒ No Comments:

No.

iv. Data quality or usability affected? (use comment box to explain)

☐ Yes ☒ No Comments:

Data quality/usability was not affected.

e. Trip blank – Volatile analyses only (GRO, BTEX, etc): Water and Soil

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

☒ Yes ☐ No Comments:

Yes.

ii. All results less than MDL?

☒ Yes ☐ No Comments:

Yes.

iii. If above MDL, what samples are affected?

☐ Yes ☒ No Comments:

None of the data affected.

iv. Data quality or usability affected?

☐ Yes ☒ No Comments:

Data quality/usability was not affected.

f. Field Duplicate

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

☒ Yes ☐ No Comments:

Yes.

ii. Submitted blind to lab?

☒ Yes ☐ No Comments:

BD-1-WD-190423 was collected from MW-10-W-190423.

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

RPD (%) = 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 Comments:

The RPDs between parent and duplicate samples were acceptable.

iv. Data quality or usability affected?

☐ Yes ☒ No Comments:

Data quality/usability was not affected.

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

☒ Yes ☐ No

Equipment blank sample was collected as QA-O-190423.

i. If above MDL, what samples are affected?

☐ Yes ☒ No Comments:

The compound toluene (2 ug/l) was detected in an equipment blank sample QA-O-190423. An action limit was established at five times of the reported blank concentration. Toluene results in associated samples were greater than the action limit and hence qualification is not required.

ii. Data quality or usability affected?

Data quality/usability was not affected.

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

a. Defined and appropriate?

☒ Yes ☐ No Comments:

Yes.