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

Subject:  
2019 Groundwater Monitoring Report, Third Quarter

ENVIRONMENT

Dear Mr. Weimer,

On behalf of Chevron Environmental Management Company (Chevron), Arcadis US, Inc. (Arcadis) has prepared the attached *2019 Groundwater Monitoring Report* for the third quarter groundwater sampling events for the following facility:

Date:  
December 31, 2019

Contact:  
Nicole Monroe

**Chevron Branded**

<u>Station No.</u>	<u>ADEC File No.</u>	<u>Hazard ID:</u>	<u>Location</u>
95414	2100.26.062	24602	5210 Old Seward Highway Anchorage, Alaska

Phone:  
503.785.9414

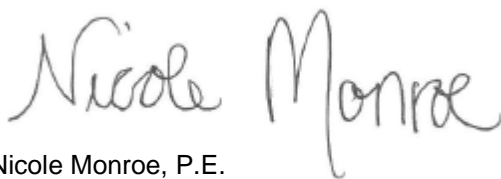
Email:  
[Nicole.Monroe@arcadis.com](mailto:Nicole.Monroe@arcadis.com)

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

Sincerely,

Our ref:  
30015201

Arcadis U.S., Inc.



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

Copies:  
Tim Bishop (*electronic copy*)  
Mark Engelke  
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Richard Sanchis

Chevron Environmental Management Company

# **2019 THIRD QUARTER GROUNDWATER MONITORING REPORT**

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

December 31 2019

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## 2019 THIRD QUARTER GROUNDWATER MONITORING REPORT

### Former Chevron Facility 95414

5210 Old Seward Highway  
Anchorage, Alaska

ADEC File No: 2100.26.062  
HAZARD ID No: 24602

Prepared for:

Chevron Environmental Management  
Company

Prepared by:

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Our Ref.:  
30015201

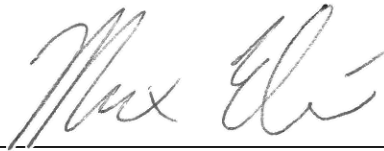
Date:  
December 31, 2019

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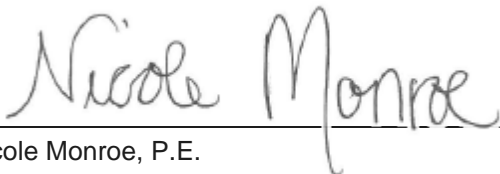
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Evan Wujcik  
Environmental Engineer



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

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**QUARTERLY STATUS REPORT  
 THIRD QUARTER 2019  
 December 31, 2019**

Facility No.:	Chevron Service Station No. 95414	Address:	5210 Old Seward Highway Anchorage, Alaska
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Arcadis Contact Person / Phone No.:	Nicole Monroe / 503-785-9414
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Arcadis Project No.:	30015201
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Primary Agency/Regulatory ID No.:	Alaska Department of Environmental Conservation (ADEC) / Robert Weimer / ADEC file ID: 2100.26.062
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**WORK CONDUCTED THIS PERIOD [Third Quarter 2019]:**

1. Conducted quarterly groundwater monitoring activities on September 17, 2019.
2. Prepared the *Quarterly Status Report, Third Quarter 2019*.

**WORK PROPOSED NEXT PERIOD [Fourth Quarter 2019]:**

1. Conduct quarterly groundwater monitoring activities in the Fourth Quarter of 2019.
2. Prepare the *Quarterly Status Report, Fourth Quarter 2019*.

Current Phase of Project:	Monitoring	
Frequency of Monitoring / Sampling:	Quarterly	
Is Light Non-Aqueous Phase Liquid (LNAPL) Present On-site:	No	
Cumulative LNAPL Recovered to Date:	0.0	(gallons)
Approximate Depth to Groundwater:	5.26 to 8.81	(feet below top of casing)
Approximate Groundwater Elevation:	101.72 to 103.08	(feet relative to corresponding datum)
Groundwater Flow Direction	Southwest	

Groundwater Gradient	0.0014	(feet per foot)
Current Remediation Techniques:	None	
Permits for Discharge:	None	
Summary of Unusual Activity:	Unable to access MW-9R	
Agency Directive Requirements:	None	

## 1 INTRODUCTION

On behalf of Chevron Environmental Management Company (CEMC), Arcadis US, Inc. (Arcadis), has prepared this report to document the third quarter groundwater sampling event of 2019 for Chevron Service Station No. 95414, located at 5210 Old Seward Highway in Anchorage, Alaska (the site). The site location and site plan are shown on Figure 1 and Figure 2 respectively.

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 a historical site summary are attached as Appendix A.

## 2 GROUNDWATER MONITORING

### 2.1 Groundwater Gauging Methods

The 2019 third quarterly groundwater gauging event was conducted on September 17, 2019. Site monitoring wells were gauged with an oil/water interface probe to determine depth-to-water and to ascertain if LNAPL was present. In order to prevent the possibility of cross-contamination, wells were gauged in the order of lowest to highest historical petroleum hydrocarbon concentrations in groundwater. In addition, non-disposable groundwater gauging equipment was decontaminated prior to and after each use with a detergent solution and rinsed in potable water.

### 2.2 Groundwater Elevation and Flow Direction

During the 2019 third quarter event, monitoring wells MW-1 through MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-10 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 third quarter 2019 monitoring events is to the southwest and is consistent with the historical flow direction. Current and historical groundwater depth-to-water and elevation data are included in Table 1 and Table 2 respectively. A groundwater contour map is presented as Figure 3.

## 2.3 Groundwater Sampling Methods

The third quarter groundwater monitoring event was conducted on September 17, 2019. Groundwater samples were collected from MW-1 through MW-8, MW-10 and SP-1 through SP-3. MW-9R was not accessible and could not be sampled. SP-4 was not sampled.

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:

- $\pm 3\%$  for temperature (minimum of  $\pm 0.2\text{ C}^\circ$ ),
- $\pm 0.1$  for pH,
- $\pm 3\%$  for conductivity,
- $\pm 10\text{ mv}$  for redox potential,
- $\pm 10\%$  for dissolved oxygen, and
- $\pm 10\%$  for turbidity.

Sample bottles were labeled, stored in a cooler packed with ice, and submitted to Eurofins TestAmerica Seattle (Eurofins) in Tacoma, Washington, under proper chain-of-custody procedures. Field notes documenting the first and second-annual event are presented in Appendix B.

Groundwater samples collected from monitoring wells MW-1 through MW-8, MW-10 and SP-1 through SP-3 were submitted to the analytical laboratory for the following analyses:

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), by United States Environmental Protection Agency (USEPA) method 8260C
- Total Petroleum Hydrocarbons-Gasoline range organics (TPH-g) by Alaska method AK101
- Total Petroleum Hydrocarbons- Diesel range organics (TPH-d) by Alaska method AK102

Additionally, groundwater samples collected from monitoring wells MW-2, MW-6, MW-7 and MW-10 were submitted to the analytical laboratory for full scan volatiles by USEPA Method 8260-C. A groundwater duplicate sample was collected from monitoring wells MW-4 and SP-1. The duplicate samples were analyzed for BTEX, TPH-g, and TPH-d. 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 third quarter 2019 groundwater monitoring event are summarized in Table 2 and are shown on Figure 4. Historical analytical groundwater data are summarized in Table 2. Historical PAH analytical results are summarized in Table 3.

## 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 third quarter event. The laboratory reports are 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 field duplicate (FD) was within the control limit.

The RPD between laboratory control sample (LCS) / laboratory control sample duplicate (LCSD) for compounds chloromethane and trichlorofluoromethane exceeded the control limit. The associated results were qualified as estimated.

The precision of the data, as measured by laboratory quality control (QC) indicators, suggest that the Data Quality Objectives (DQOs) were met with exception of the estimated data.

### 3.2 Accuracy

The percent recoveries for LCS/LCSD were within the control limits.

The surrogate recovery exceedance was observed in sample MW-7-W-190917 for method SW8011. The associated result was qualified as estimated.

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

### 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 third quarter 2019 event indicate the groundwater flow direction, southwest, is generally consistent with historical data.

During the third quarter 2019 groundwater monitoring events, groundwater samples were collected for analysis from monitoring wells MW-1 through MW-8, MW-10 and SP-1 to SP-3. Analytical results from the monitoring wells are generally consistent with historical data.

Groundwater monitoring will continue in accordance with the current quarterly schedule. The fourth quarterly 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.

# TABLES



**Table 1. Current Groundwater Gauging and Analytical Results**

Chevron-Branded Service Station 95414  
5210 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	Datum	DTW* (ft bTOC)	LNAPL Thickness (ft)	GW Elev (ft)	TPH-g mg/L	TPH-d mg/L	Benzene mg/L	Toluene mg/L	Ethylbenzene mg/L	Total Xylenes	MTBE mg/L	EDB mg/L	Comments
<b>ADEC Groundwater Cleanup Levels</b>							<b>2.2</b>	<b>1.5</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.0005</b>	
MW-1	9/17/2019	110.63	NAVD 88	7.65	0.00	102.98	<b>0.11 J</b>	<b>0.35</b>	<b>0.0052</b>	< 0.00068 B	< 0.00020 B	<b>0.016</b>	--	--	
MW-2	9/17/2019	111.09	NAVD 88	8.54	0.00	102.55	< 0.1	<b>0.43</b>	< 0.000030	< 0.000050	< 0.00020 B	<0.00050 B	< 0.000070	< 0.000020	
MW-3	9/17/2019	111.44	NAVD 88	8.81	0.00	102.63	<b>4.0</b>	<b>1.6</b>	<b>0.11</b>	<b>0.0084</b>	<b>0.28 D</b>	<b>0.701 D</b>	< 0.000070	< 0.000020	
MW-4	9/17/2019	108.88	NAVD 88	6.38	0.00	102.5	< 0.1 [ <b>&lt; 0.1</b> ]	<b>0.26 [0.25 J]</b>	< 0.000030 [ <b>0.000035 J</b> ]	< 0.000050 [ <b>&lt; 0.000050</b> ]	< 0.00020 B [ <b>&lt; 0.00020 B</b> ]	<0.00050 B [ <b>&lt;0.00050 B</b> ]	-- [-]	-- [-]	
MW-5	9/17/2019	108.76	NAVD 88	6.41	0.00	102.35	<b>0.22 J</b>	<b>0.33</b>	<b>0.0066</b>	< 0.00059 B	<b>0.00057</b>	<b>0.00138</b>	--	--	
MW-6	9/17/2019	111.16	NAVD 88	8.08	0.00	103.08	< 0.1	<b>1.2</b>	<b>0.00059 J</b>	< 0.00020 B	< 0.00020 B	<0.00050 B	<b>0.0005</b>	< 0.000020	
MW-7	9/17/2019	107.35	NAVD 88	5.26	0.00	102.09	<b>5.8</b>	<b>2.2</b>	<b>0.19</b>	<b>0.018</b>	<b>0.36 D</b>	<b>0.827 D</b>	< 0.000070	< 0.000020	
MW-8	9/17/2019	108.70	NAVD 88	6.98	0.00	101.72	<b>0.28</b>	<b>0.56</b>	<b>0.0073</b>	< 0.00025 B	< 0.00022 B	<b>0.00136 J</b>	--	--	
MW-9R	9/17/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to access
MW-10	9/17/2019	109.17	NAVD 88	7.19	0.00	101.98	< 0.1	<b>0.42</b>	< 0.000030	< 0.000050	< 0.00020 B	<0.00065 B	< 0.00030 B	< 0.000020	
SP-1	9/17/2019	--	--	--	--	--	< 0.1 [ <b>&lt; 0.1</b> ]	< 0.098 [ <b>&lt; 0.091</b> ]	< 0.000030 [ <b>&lt; 0.000030</b> ]	< 0.000050 [ <b>&lt; 0.000050</b> ]	< 0.00020 B [ <b>&lt; 0.00020 B</b> ]	<0.00050 B [ <b>&lt;0.00050 B</b> ]	-- [-]	-- [-]	
SP-2	9/17/2019	--	--	--	--	--	< 0.1	<b>0.66</b>	< 0.000030	< 0.000050	< 0.00020 B	<0.00050 B	--	--	
SP-3	9/17/2019	--	--	--	--	--	< 0.1	<b>0.69</b>	< 0.000030	< 0.000050	< 0.00020 B	<0.00050 B	--	--	
SP-4	9/17/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	
QA (EQB)	9/17/2019	--	--	--	--	--	< 0.1	< 0.091	<0.00003	<b>0.00054</b>	<b>0.000065 J</b>	<0.0003 J	< 0.000070	--	
QA (TB)	9/17/2019	--	--	--	--	--	< 0.1	--	<0.00003	<b>0.000056 J</b>	<b>0.000059 J</b>	<0.0003 J	< 0.000070	--	

**Notes:**

- 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
- Bold** = Value exceeds MDL
- Bold and Shaded** = Value exceeds ADEC Groundwater Cleanup Level
- <14 = Not detected at or above the Method Detection Limit (MDL)
- NAVD 88 = North American Vertical Datum of 1988
- ADEC = Alaska Department of Environmental Conservation
- = Not analyzed/ Not measured/ Not Available
- [ ] = Duplicate Result
- \* = Depth to water taken from Recent Well Survey 09/17/2019
- QA (TB) = Quality Assurance (Trip Blank)
- QA (EB) = Quality Assurance (Equipment Blank)
- LNAPL = Light Non-Aqueous Phase Liquid
- LOQ = Limit of quantitation
- TPH-d = Total petroleum hydrocarbons, diesel range by LUFT GC/MS according to USEPA Method AK 102-SV/103mod-SV
- TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to Environmental Protection Agency (EPA) Method 8260B
- Samples analyzed by EPA Method 8260B:
  - Benzene, toluene, ethylbenzene and total xylenes (collectively BTEX)
  - MTBE = Methyl tert-butyl ether
  - EDB = 1,2-Dibromoethane
- J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- B = Compound considered non-detect at the listed value due to associated blank contamination
- D = Results reported from a diluted sample



**Table 2. Historical Groundwater Gauging and Analytical Results  
Third Quarter 1998 to Current**  
Chevron-Branded Service Station 95414  
5210 Old Seward Highway  
Anchorage, Alaska

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





**Table 2. Historical Groundwater Gauging and Analytical Results  
Third Quarter 1998 to Current**  
Chevron-Branded Service Station 95414  
5210 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>						<b>1.5</b>	<b>2.2</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.000075</b>	<b>0.0017</b>	
MW-2	10/05/2010	110.64	9.53	--	101.11	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	
MW-2	12/21/2010	110.64	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	03/09/2011	110.64	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	06/13/2011	110.64	8.32	--	102.32	<b>0.47</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	
MW-2	09/15/2011	110.64	8.55	--	102.09	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	
MW-2	12/08/2011	110.64	7.65	--	102.99	--	--	--	--	--	--	--	--	--	--	
MW-2	03/21/2012	110.64	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	06/20/2012	110.64	7.32	--	103.32	--	--	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	
MW-2	09/19/2012	110.64	6.81	--	103.83	--	--	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	
MW-2	11/06/2012	111.15	6.17	--	104.98	--	--	--	--	--	--	--	--	--	--	
MW-2	04/01/2013	111.15	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	05/02/2013	111.15	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	09/18/2013	111.15	7.45	--	103.70	--	--	--	--	--	--	--	--	--	--	
MW-2	09/19/2013	111.15	--	--	--	<0.42	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-2	11/12/2013	111.15	7.49	--	103.66	--	--	--	--	--	--	--	--	--	--	
MW-2	03/27/2014	111.15	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	05/12/2014	111.15	8.15	--	103.00	<0.40	<0.10	--	<b>0.0018</b>	<0.0010	<0.0010	<0.0030	--	--	--	
MW-2	05/12/2014	111.15	--	--	--	<0.45	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-2	09/12/2014	111.15	8.04	--	103.11	<0.40	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-2	09/12/2014	111.15	--	--	--	<0.40	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-2	11/14/2014	111.15	8.61	--	102.54	--	--	--	--	--	--	--	--	--	--	
MW-2	03/06/2015	111.15	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	04/30/2015	111.15	8.62	--	102.53	<b>0.62</b>	<0.10	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-2	09/22/2015	111.15	8.21	--	102.94	<b>0.070J</b>	<0.10	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-2	11/09/2015	111.15	8.22	--	102.93	--	--	--	--	--	--	--	--	--	--	
MW-2	03/09/2016	111.15	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	06/06/2016	111.15	8.00	--	103.15	<b>0.72</b>	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	
MW-2	09/21/2016	111.15	7.92	--	103.23	<b>0.78</b>	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	
MW-2	11/01/2016	111.15	8.33	--	102.82	--	--	--	--	--	--	--	--	--	--	
MW-2	04/13/2017	111.15	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	06/01/2017	111.15	8.42	--	102.73	<b>0.12 J</b>	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-2	08/16/2017	111.15	8.42	--	102.73	<b>0.18 J</b>	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-2	11/10/2017	111.15	7.56	--	103.59	--	--	--	--	--	--	--	--	--	--	
MW-2	03/27/2018	111.15	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	06/18/2018	111.15	7.33	--	103.82	<b>0.22 J</b>	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-2	08/08/2018	111.05	8.11	--	102.94	--	--	--	--	--	--	--	--	--	--	
MW-2	10/30/2018	111.15	8.01	--	103.14	<0.20 J	<0.014	--	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	--	--	TOC adjusted for 0.1 ft cut
MW-2	3/29/2019	111.09	8.39	0.00	102.70	--	--	--	--	--	--	--	--	--	--	
MW-2	5/14/2019	111.09	7.96	0.00	103.13	< 0.014	< 0.28 B J	--	< 0.0002	< 0.0002	< 0.0004	< 0.001	< 0.0002	< 0.0002	< 0.0003	
MW-2	9/17/2019	111.09	8.54	0.00	102.55	<b>0.43</b>	<0.1	--	<0.00003	< 0.000050	< 0.00020 B	<0.00050 B	< 0.000070	< 0.000020	--	
MW-3	09/03/1998	100.55	8.60	--	91.95	--	--	--	--	--	--	--	--	--	--	
MW-3	05/20/2000	100.55	8.50	--	92.05	<b>2.59</b>	--	--	--	--	--	--	<0.010	--	--	
MW-3	09/21/2000	100.55	8.83	--	91.72	--	--	--	--	--	--	--	--	--	--	
MW-3	05/01/2001	100.55	8.94	--	91.61	--	--	--	--	--	--	--	--	--	--	
MW-3	09/25/2001	100.55	8.95	--	91.60	--	--	--	--	--	--	--	--	--	--	
MW-3	05/07/2002	110.84	8.42	--	102.42	--	--	--	--	--	--	--	--	--	--	
MW-3	09/29/2002	110.84	7.74	--	103.10	--	--	--	--	--	--	--	--	--	--	
MW-3	06/06/2003	110.90	8.78	--	102.12	--	--	--	--	--	--	--	--	--	--	
MW-3	10/03/2003	110.90	7.73	--	103.17	--	--	--	--	--	--	--	--	--	--	
MW-3	12/18/2003	110.90	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	03/22/2004	110.90	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	06/09/2004	110.90	8.29	--	102.61	<b>3.4</b>	<b>15</b>	--	<b>0.65</b>	<b>0.26</b>	<b>0.59</b>	<b>2.6</b>	<0.0020	--	--	
MW-3	09/21/2004	110.90	9.13	--	101.77	<b>5.9</b>	<b>16</b>	--	<b>0.57</b>	<b>0.18</b>	<b>0.62</b>	<b>2.4</b>	<0.0020	--	--	
MW-3	10/29/2004	110.90	--	--	--	--	<b>10</b>	--	<b>0.33</b>	<b>0.15</b>	<b>0.56</b>	<b>1.6</b>	<0.0010	--	--	
MW-3	12/06/2004	110.90	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	03/21/2005	110.90	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	05/15/2005	110.90	8.72	--	102.18	<b>3.3</b>	<b>14</b>	--	<b>0.57</b>	<b>0.39</b>	<b>0.53</b>	<b>1.9</b>	<0.0020	--	--	
MW-3	09/28/2005	110.90	7.79	--	103.11	<b>2.9</b>	<b>12</b>	--	<b>0.27</b>	<b>0.17</b>	<b>0.54</b>	<b>2.1</b>	<0.0020	--	--	

**Table 2. Historical Groundwater Gauging and Analytical Results  
Third Quarter 1998 to Current**  
Chevron-Branded Service Station 95414  
5210 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>						<b>1.5</b>	<b>2.2</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.000075</b>	<b>0.0017</b>	
MW-3	12/07/2005	110.90	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	04/07/2006	110.90	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	05/18/2006	110.90	8.57	--	102.33	2.3	15	--	0.42	0.51	0.61	2.5	--	--	--	
MW-3	09/28/2006	110.90	7.24	--	103.66	2.9	12	--	0.20	0.18	0.43	1.6	--	--	--	
MW-3	12/20/2006	110.90	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	03/15/2007	110.90	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	5/21/2007	110.90	8.49	--	102.41	2.5 [2.4]	11 [9.4]	--	0.50 [0.41]	0.13 [0.086]	0.50 [0.48]	1.8 [1.7]	--	--	--	
MW-3	9/27/2007	110.90	7.71	--	103.19	3.2 [3.2]	7.2 [11]	--	0.39 [0.38]	0.48 [0.43]	0.50 [0.52]	1.7 [1.7]	--	--	--	
MW-3	5/17/2008	110.90	8.43	--	102.47	2.0 [2.1]	16 [16]	--	0.48 [0.49]	0.54 [0.56]	0.77 [0.75]	2.8 [2.7]	--	--	--	
MW-3	06/26/2008	110.90	8.16	--	102.74	2.6	11	--	0.30	0.20	0.50	1.8	--	--	--	
MW-3	09/17/2008	110.90	7.68	--	103.22	2.1	14	--	0.30	0.50	0.70	2.5	--	--	--	
MW-3	03/20/2009	110.90	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	06/08/2009	110.90	7.95	--	102.95	1.5	13	--	0.26	0.19	0.55	2.0	--	--	--	
MW-3	09/23/2009	110.90	8.86	--	102.04	2.3	14	--	0.39	0.17	0.69	2.4	--	--	--	
MW-3	12/09/2009	110.90	7.99	--	102.91	--	--	--	--	--	--	--	--	--	--	
MW-3	03/22/2010	110.90	9.22	--	101.68	--	--	--	--	--	--	--	--	--	--	
MW-3	05/06/2010	110.90	8.29	--	102.61	--	--	--	--	--	--	--	--	--	--	
MW-3	05/10/2010	110.90	8.56	--	102.34	2.1	12	--	0.38	0.098	0.6	2.3	--	--	--	
MW-3	10/05/2010	110.90	8.69	--	102.21	2.1	10	--	0.20	0.065	0.52	1.5	--	--	--	
MW-3	12/21/2010	110.90	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	03/09/2011	110.90	9.21	--	101.69	--	--	--	--	--	--	--	--	--	--	
MW-3	06/13/2011	110.90	8.40	--	102.50	2.2	8.1	--	0.38	0.057	0.39	1.2	--	--	--	
MW-3	09/15/2011	110.90	8.69	--	102.21	2.5	12	--	0.15	0.14	0.48	1.9	--	--	--	
MW-3	12/08/2011	110.90	7.37	--	103.53	--	--	--	--	--	--	--	--	--	--	
MW-3	03/21/2012	110.90	9.01	--	101.89	--	--	--	--	--	--	--	--	--	--	
MW-3	6/20/2012	110.90	7.95	--	102.95	2.8 [1.9]	12	--	0.10	0.061	0.47	1.7	--	--	--	
MW-3	9/19/2012	110.90	6.81	--	104.09	3.2 [1.8]	11	--	0.095	0.038	0.520	1.70	--	--	--	TPH-d with silica gel cleanup
MW-3	11/06/2012	111.42	6.55	--	104.87	--	--	--	--	--	--	--	--	--	--	
MW-3	04/01/2013	111.42	9.02	--	102.40	--	--	--	--	--	--	--	--	--	--	
MW-3	05/02/2013	111.42	8.71	--	102.71	--	--	--	--	--	--	--	--	--	--	
MW-3	09/18/2013	111.42	7.29	--	104.13	--	--	--	--	--	--	--	--	--	--	
MW-3	09/19/2013	111.42	--	--	--	3.4 [2.2]	8.98	--	0.101	0.0365	0.411	1.27	--	--	--	
MW-3	11/12/2013	111.42	7.98	--	103.44	--	--	--	--	--	--	--	--	--	--	
MW-3	03/27/2014	111.42	8.58	--	102.84	--	--	--	--	--	--	--	--	--	--	
MW-3	05/12/2014	111.42	8.07	--	103.35	2.7	8.46	--	0.142	0.0198	0.317	1.13	--	--	--	
MW-3	05/12/2014	111.42	--	--	--	2.0	9.65	--	0.143	0.0126	0.378	0.804	--	--	--	
MW-3	09/12/2014	111.42	7.95	--	103.47	2.4	6.65	--	0.0320	0.0141	0.216	0.686	--	--	--	
MW-3	11/14/2014	111.42	8.83	--	102.59	--	--	--	--	--	--	--	--	--	--	
MW-3	03/06/2015	111.42	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	04/30/2015	111.42	8.71	--	102.71	5.2	11	--	0.24	0.058	0.40	1.4	--	--	--	
MW-3	09/22/2015	111.42	8.10	--	103.32	3.6	7.6	--	0.26	0.042	0.39	1.3	--	--	--	
MW-3	11/09/2015	111.42	8.12	--	103.30	--	--	--	--	--	--	--	--	--	--	
MW-3	03/09/2016	111.42	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	6/6/2016	111.42	7.98	--	103.44	5.2 [6.0]	17 [18]	--	0.21 [0.22]	0.052 [0.054]	0.67 [0.72]	3.4 [3.6]	--	--	--	
MW-3	09/21/2016	111.42	7.82	--	103.60	2.7	3.7	--	0.088	0.01	0.13	0.48	--	--	--	
MW-3	11/01/2016	111.42	8.22	--	103.20	--	--	--	--	--	--	--	--	--	--	
MW-3	04/13/2017	111.42	8.23	--	103.19	--	--	--	--	--	--	--	--	--	--	
MW-3	06/01/2017	111.42	8.17	--	103.25	2.2	11	--	0.13	0.041	0.41	1.7	<0.001	--	--	
MW-3	08/16/2017	111.42	8.17	--	103.25	2.6 J	13	--	0.12	0.035	0.41	1.8	<0.001	--	--	
MW-3	11/10/2017	111.42	7.65	--	103.77	--	--	--	--	--	--	--	--	--	--	
MW-3	03/27/2018	111.42	8.75	--	102.67	--	--	--	--	--	--	--	--	--	--	
MW-3	6/18/2018	111.42	7.10	--	104.32	1.4 J [1.4 J]	11 [11]	--	0.093 [0.090]	0.041 [0.040]	0.38 [0.38]	1.8 [1.8]	<0.0005 [ <0.0005]	--	--	
MW-3	08/09/2018	111.42	8.02	--	103.40	--	--	--	--	--	--	--	--	--	--	
MW-3	10/30/2018	111.42	8.00	--	103.42	2.1 [1.6 J]	6.6 [6.5]	--	0.093 [0.093]	0.023 [0.023]	0.30 [0.30]	1.1 [1.1]	<0.004 [ <0.001]	--	--	
MW-3	3/29/2019	111.44	5.32	0.00	106.12	--	--	--	--	--	--	--	--	--	--	
MW-3	5/14/2019	111.44	8.12	0.00	103.32	1.2	< 0.39 B J	--	0.011	< 0.003 B	0.036	0.11	< 0.0002	--	--	
MW-3	9/17/2019	111.44	8.81	0.00	102.63	1.6	4.0	--	0.11	0.0084	0.28 D	0.701 D	< 0.000070	< 0.000020	--	
MW-4	08/16/2000	--	6.15	--	--	--	--	--	--	--	--	--	--	--	--	

**Table 2. Historical Groundwater Gauging and Analytical Results  
Third Quarter 1998 to Current**  
Chevron-Branded Service Station 95414  
5210 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Comments			
<b>ADEC Groundwater Cleanup Levels</b>									<b>1.5</b>	<b>2.2</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.000075</b>	<b>0.0017</b>	
MW-4	09/21/2000	--	6.30	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-4	09/26/2000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-4	05/01/2001	--	6.68	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-4	09/25/2001	--	6.39	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-4	05/07/2002	108.14	7.00	--	101.14	--	--	--	--	--	--	--	--	--	--	--			
MW-4	09/29/2002	108.14	5.67	--	102.47	--	--	--	--	--	--	--	--	--	--	--			
MW-4	06/06/2003	108.26	6.18	--	102.08	--	--	--	--	--	--	--	--	--	--	--			
MW-4	10/03/2003	108.26	5.64	--	102.62	--	--	--	--	--	--	--	--	--	--	--			
MW-4	12/18/2003	108.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-4	03/22/2004	108.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-4	06/09/2004	108.26	5.86	--	102.40	<b>1.0</b>	<b>1.7</b>	--	<b>0.11</b>	<b>0.0040</b>	<b>0.045</b>	<b>0.075</b>	<0.0020	--	--	--			
MW-4	06/09/2004	108.26	--	--	--	<b>0.61</b>	<b>0.12</b>	--	<b>0.0070</b>	<0.00050	<0.00050	<b>0.0040</b>	<0.0020	--	--	--			
MW-4	09/21/2004	108.26	6.78	--	101.48	<b>0.32</b>	<b>0.061</b>	--	<0.00050	<0.00050	<0.00050	<b>0.0030</b>	<0.0020	--	--	--			
MW-4	09/21/2004	108.26	--	--	--	<b>0.43</b>	<b>0.064</b>	--	<0.00050	<0.00050	<0.00050	<b>0.0030</b>	<0.0020	--	--	--			
MW-4	12/06/2004	108.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-4	03/21/2005	108.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-4	05/15/2005	108.26	5.94	--	102.32	<b>0.84</b>	<b>0.089</b>	--	<b>0.0010</b>	<0.00050	<0.00050	<b>0.0040</b>	<0.0020	--	--	--			
MW-4	09/28/2005	108.26	9.40	--	98.86	<b>1.8</b>	<b>0.026</b>	--	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	--	--	--			
MW-4	12/07/2005	108.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-4	04/07/2006	108.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-4	05/18/2006	108.26	6.61	--	101.65	<b>0.75</b>	<b>0.026</b>	--	<0.00050	<0.00050	<0.00050	<b>0.0010</b>	--	--	--	--			
MW-4	09/28/2006	108.26	5.44	--	--	<b>1.8</b>	<b>0.10</b>	--	<b>0.0020</b>	<0.00050	<0.00050	<b>0.0010</b>	--	--	--	--			
MW-4	12/20/2006	108.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-4	03/15/2007	108.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-4	05/21/2007	108.26	6.36	--	101.90	<b>0.64</b>	--	--	<b>0.0010</b>	<0.00050	<0.00050	<b>0.0020</b>	--	--	--	--			
MW-4	09/27/2007	108.26	5.85	--	102.41	<b>0.85</b>	--	--	<0.00050	<0.00050	<0.00050	<b>0.0010</b>	--	--	--	--			
MW-4	05/19/2008	108.26	6.53	--	101.73	<b>0.54</b>	--	--	<b>0.0010</b>	<0.00050	<0.00050	<b>0.0020</b>	--	--	--	--			
MW-4	06/26/2008	108.26	5.91	--	102.35	<b>0.49</b>	<b>0.060</b>	--	<0.0010	<0.0010	<0.0010	<0.0020	--	--	--	--			
MW-4	09/17/2008	108.26	5.60	--	102.66	<b>0.44</b>	<b>0.050</b>	--	<0.0010	<0.0010	<0.0010	<0.0020	--	--	--	--			
MW-4	03/20/2009	108.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-4	06/09/2009	108.26	5.74	--	102.52	<b>0.27</b>	<b>0.032</b>	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	--			
MW-4	09/23/2009	108.26	6.59	--	101.67	<b>0.11</b>	<b>0.029</b>	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	--			
MW-4	12/09/2009	108.26	5.44	--	102.82	--	--	--	--	--	--	--	--	--	--	--			
MW-4	03/22/2010	108.26	6.75	--	101.51	--	--	--	--	--	--	--	--	--	--	--			
MW-4	05/06/2010	108.26	6.25	--	102.01	--	--	--	--	--	--	--	--	--	--	--			
MW-4	05/10/2010	108.26	7.15	--	101.11	<b>0.63</b>	<b>0.033</b>	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	--			
MW-4	10/05/2010	108.26	6.26	--	102.00	<b>0.75</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	--			
MW-4	12/21/2010	108.26	5.39	--	102.87	--	--	--	--	--	--	--	--	--	--	--			
MW-4	03/09/2011	108.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-4	06/13/2011	108.26	6.08	--	102.18	<b>0.39</b>	<b>0.015</b>	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	--			
MW-4	09/15/2011	108.26	6.36	--	101.90	<b>0.37</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	--			
MW-4	12/08/2011	108.26	5.50	--	102.76	--	--	--	--	--	--	--	--	--	--	--			
MW-4	03/21/2012	108.26	6.67	--	101.59	--	--	--	--	--	--	--	--	--	--	--			
MW-4	6/20/2012	108.26	5.18	--	103.08	0.17 [ <0.048]	<b>0.019</b>	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	--			
MW-4	9/19/2012	108.26	4.60	--	103.66	0.24 J [ <0.050]	<b>1 [ 0.014 J]</b>	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	--			
MW-4	11/06/2012	108.94	4.00	--	104.94	--	--	--	--	--	--	--	--	--	--	--			
MW-4	04/01/2013	108.94	6.79	--	102.15	--	--	--	--	--	--	--	--	--	--	--			
MW-4	05/02/2013	108.94	6.60	--	102.34	<0.50	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	--			
MW-4	05/02/2013	108.94	--	--	--	<0.50	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	--			
MW-4	09/18/2013	108.94	5.32	--	103.62	--	--	--	--	--	--	--	--	--	--	--			
MW-4	9/19/2013	108.94	--	--	--	0.55 [ <0.43]	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	--			
MW-4	11/12/2013	108.94	5.56	--	103.38	--	--	--	--	--	--	--	--	--	--	--			
MW-4	03/27/2014	108.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-4	05/12/2014	108.94	6.05	--	102.89	<0.40	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	--			
MW-4	05/12/2014	108.94	--	--	--	<0.42	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	--			
MW-4	09/12/2014	108.94	5.96	--	102.98	<0.40	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	--			
MW-4	11/14/2014	108.94	6.25	--	102.69	--	--	--	--	--	--	--	--	--	--	--			
MW-4	03/06/2015	108.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-4	04/30/2015	108.94	6.37	--	102.57	<b>0.37</b>	<b>0.019 J</b>	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	--			

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Third Quarter 1998 to Current**  
Chevron-Branded Service Station 95414  
5210 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Comments			
<b>ADEC Groundwater Cleanup Levels</b>									<b>1.5</b>	<b>2.2</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.000075</b>	<b>0.0017</b>	
MW-4	09/22/2015	108.94	5.92	--	103.02	<b>0.073 J</b>	<b>0.014 J</b>	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--				
MW-4	11/09/2015	108.94	5.96	--	102.98	--	--	--	--	--	--	--	--	--	--				
MW-4	03/09/2016	108.94	4.06	--	104.88	--	--	--	--	--	--	--	--	--	--				
MW-4	06/06/2016	108.94	5.72	--	103.22	<b>0.23 J</b>	<b>0.015 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--				
MW-4	09/21/2016	108.94	5.72	--	103.22	<b>0.63</b>	<b>0.014 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--				
MW-4	11/01/2016	108.94	6.09	--	102.85	--	--	--	--	--	--	--	--	--	--				
MW-4	04/13/2017	108.94	6.49	--	102.45	--	--	--	--	--	--	--	--	--	--				
MW-4	06/01/2017	108.94	6.26	--	102.68	<b>0.33</b>	<b>0.021 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
MW-4	08/16/2017	108.94	6.26	--	102.68	<b>0.16 J</b>	<b>0.032 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
MW-4	11/10/2017	108.94	5.34	--	103.60	--	--	--	--	--	--	--	--	--	--				
MW-4	03/27/2018	108.94	6.71	--	102.23	--	--	--	--	--	--	--	--	--	--				
MW-4	06/19/2018	108.94	5.25	--	103.69	<b>0.15 J</b>	<b>0.022 J</b>	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
MW-4	08/08/2018	108.84	6.01	--	102.83	--	--	--	--	--	--	--	--	--	--				
MW-4	10/30/2018	108.94	5.93	--	103.01	<0.15 J	<b>0.017 J</b>	--	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	--	--	TOC adjusted for 0.1 ft cut			
MW-4	3/29/2019	108.88	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-4	5/14/2019	108.88	5.85	0.00	103.03	<b>0.033 J</b>	< 0.2 7 B J	--	< 0.0002	< 0.0002	< 0.0004	< 0.001	< 0.0002	--	--				
MW-4	9/17/2019	108.88	6.38	0.00	102.5	<b>0.26 [0.25 J]</b>	< 0.1 [- 0.1]	--	< 0.000057 J B [0.000035 J]	< 0.000050 [- 0.000050]	< 0.00020 B [- 0.00020 B]	<0.00013 J [- 0.00050 B]	-- [-]	-- [-]	--				
MW-5	08/16/2000	--	5.97	--	--	--	--	--	--	--	--	--	--	--	--				
MW-5	09/21/2000	--	6.25	--	--	--	--	--	--	--	--	--	--	--	--				
MW-5	05/01/2001	--	6.06	--	--	--	--	--	--	--	--	--	--	--	--				
MW-5	09/25/2001	--	6.40	--	--	--	--	--	--	--	--	--	--	--	--				
MW-5	05/07/2002	108.01	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-5	09/29/2002	108.01	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-5	12/07/2002	108.14	6.18	--	101.96	--	--	--	--	--	--	--	--	--	--				
MW-5	06/06/2003	108.14	6.29	--	101.85	--	--	--	--	--	--	--	--	--	--				
MW-5	10/03/2003	108.14	4.79	--	103.35	--	--	--	--	--	--	--	--	--	--				
MW-5	12/18/2003	108.14	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-5	03/22/2004	108.14	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-5	06/09/2004	108.14	6.83	--	101.31	<b>0.70</b>	<b>0.32</b>	--	<b>0.039</b>	<b>0.0010</b>	<b>0.0090</b>	<b>0.020</b>	<0.0020	--	--				
MW-5	09/21/2004	108.14	6.65	--	101.49	<b>0.53</b>	<b>0.33</b>	--	<b>0.030</b>	<b>0.0010</b>	<b>0.0030</b>	<b>0.022</b>	<0.0020	--	--				
MW-5	12/06/2004	108.14	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-5	03/21/2005	108.14	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-5	05/15/2005	108.14	5.87	--	102.27	<b>0.82</b>	<b>0.15</b>	--	<b>0.015</b>	<0.00050	<b>0.0020</b>	<b>0.0030</b>	<0.0020	--	--				
MW-5	09/28/2005	108.14	5.42	--	102.72	<b>0.67</b>	<b>0.15</b>	--	<b>0.015</b>	<b>0.00060</b>	<b>0.00090</b>	<b>0.011</b>	<0.0020	--	--				
MW-5	12/07/2005	108.14	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-5	04/07/2006	108.14	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-5	05/18/2006	108.14	6.36	--	101.78	<b>0.62</b>	<b>1.3</b>	--	<b>0.068</b>	<b>0.027</b>	<b>0.034</b>	<b>0.088</b>	--	--	--				
MW-5	09/28/2006	108.14	4.56	--	--	<0.24	<b>0.17</b>	--	<b>0.010</b>	<0.00050	<b>0.0010</b>	<b>0.013</b>	--	--	--				
MW-5	12/20/2006	108.14	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-5	03/15/2007	108.14	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-5	05/21/2007	108.14	6.11	--	102.03	--	--	--	<b>0.094</b>	<b>0.043</b>	<b>0.054</b>	<b>0.16</b>	--	--	--				
MW-5	09/27/2007	108.14	5.15	--	102.99	--	--	--	<b>0.030</b>	<b>0.0020</b>	<b>0.0090</b>	<b>0.030</b>	--	--	--				
MW-5	05/19/2008	108.14	6.05	--	102.09	--	--	--	<b>0.039</b>	<b>0.0020</b>	<b>0.019</b>	<b>0.012</b>	--	--	--				
MW-5	06/26/2008	108.14	5.87	--	102.27	--	--	--	<b>0.020</b>	<0.0010	<b>0.0050</b>	<b>0.0030</b>	--	--	--				
MW-5	09/17/2008	108.14	6.05	--	102.09	<b>0.41</b>	<b>0.10</b>	--	<b>0.010</b>	<0.0010	<0.0010	<0.0020	--	--	--				
MW-5	03/20/2009	108.14	7.10	--	101.04	--	--	--	--	--	--	--	--	--	--				
MW-5	06/08/2009	108.14	5.51	--	102.63	<b>0.57</b>	<b>1.5</b>	--	<b>0.042</b>	<b>0.020</b>	<b>0.041</b>	<b>0.11</b>	--	--	--				
MW-5	09/23/2009	108.14	6.38	--	101.76	--	--	--	<b>0.024</b>	<b>0.0018</b>	<b>0.0090</b>	<b>0.029</b>	--	--	--				
MW-5	12/09/2009	108.14	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-5	03/22/2010	108.14	6.90	--	101.24	--	--	--	--	--	--	--	--	--	--				
MW-5	05/06/2010	108.14	5.69	--	102.45	--	--	--	--	--	--	--	--	--	--				
MW-5	05/10/2010	108.14	5.61	--	102.53	--	--	--	--	--	--	--	--	--	--				
MW-5	10/05/2010	108.14	--	--	--	--	--	--	<b>0.054</b>	<b>0.0029</b>	<0.00050	<b>0.00090</b>	<b>0.0039</b>	--	--				
MW-5	12/21/2010	108.14	5.86	--	102.28	--	--	--	--	--	--	--	--	--	--				
MW-5	03/09/2011	108.14	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-5	06/13/2011	108.14	5.90	--	102.24	<b>0.59</b>	<b>0.30</b>	--	<b>0.015</b>	<b>0.0032</b>	<b>0.011</b>	<b>0.027</b>	--	--	--				
MW-5	09/15/2011	108.14	6.34	--	101.8	--	--	--	<b>0.030</b>	<b>0.0017</b>	<b>0.016</b>	<b>0.057</b>	--	--	--				
MW-5	12/08/2011	108.14	5.33	--	102.81	--	--	--	--	--	--	--	--	--	--				

**Table 2. Historical Groundwater Gauging and Analytical Results  
Third Quarter 1998 to Current**  
Chevron-Branded Service Station 95414  
5210 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Comments	
<b>ADEC Groundwater Cleanup Levels</b>						<b>1.5</b>	<b>2.2</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>2.2</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.000075</b>	<b>0.0017</b>	
MW-5	03/21/2012	108.14	6.50	--	101.64	--	--	--	--	--	--	--	--	--	--	--	
MW-5	06/20/2012	108.14	5.10	--	103.04	--	--	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	--	
MW-5	09/19/2012	108.14	3.15	--	104.99	--	--	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	--	
MW-5	11/06/2012	108.66	4.10	--	104.56	--	--	--	--	--	--	--	--	--	--	--	
MW-5	04/01/2013	108.66	6.84	--	101.82	--	--	--	--	--	--	--	--	--	--	--	
MW-5	5/2/2013	108.66	6.50	--	102.16	1.2 [ 0.59]	2.54	--	0.0588	0.0205	0.0943	0.219	--	--	--	--	TPH-d with silica gel cleanup
MW-5	5/2/2013	108.66	--	--	--	0.98 [ <0.50]	2.64	--	0.0577	0.0204	0.0945	0.213	--	--	--	--	
MW-5	09/18/2013	108.66	4.80	--	103.86	--	--	--	--	--	--	--	--	--	--	--	
MW-5	09/19/2013	108.66	--	--	--	<0.42	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	--	
MW-5	11/12/2013	108.66	5.43	--	103.23	--	--	--	--	--	--	--	--	--	--	--	
MW-5	03/27/2014	108.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	05/12/2014	108.66	5.53	--	103.13	--	--	--	--	--	--	--	--	--	--	--	
MW-5	05/13/2014	108.66	--	--	--	<0.40	0.115	--	0.0028	<0.0010	<0.0010	0.0063	--	--	--	--	
MW-5	05/13/2014	108.66	--	--	--	<0.40	0.109	--	0.0042	<0.0010	<0.0010	0.0074	--	--	--	--	
MW-5	09/12/2014	108.66	5.50	--	103.16	<0.42	0.214	--	0.0020	<0.0010	<0.0010	0.0048	--	--	--	--	
MW-5	11/14/2014	108.66	6.39	--	102.27	--	--	--	--	--	--	--	--	--	--	--	
MW-5	03/06/2015	108.66	5.00	--	103.66	--	--	--	--	--	--	--	--	--	--	--	
MW-5	04/30/2015	108.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	09/22/2015	108.66	5.53	--	103.13	0.65	0.014 J	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	--	
MW-5	11/09/2015	108.66	8.31	--	100.35	--	--	--	--	--	--	--	--	--	--	--	
MW-5	03/09/2016	108.66	5.32	--	103.34	--	--	--	--	--	--	--	--	--	--	--	
MW-5	06/06/2016	108.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	09/21/2016	108.66	5.69	--	102.97	1.1	0.041 J	--	0.0009 J	<0.0005	<0.0005	0.001	--	--	--	--	
MW-5	11/01/2016	108.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	04/13/2017	108.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	06/01/2017	108.66	6.02	--	102.64	0.52	0.78	--	0.016	0.004	0.016	0.062	<0.0005	--	--	--	
MW-5	08/16/2017	108.66	6.02	--	102.64	0.25 J	0.32	--	0.008	0.0008 J	0.003	0.018	<0.0005	--	--	--	
MW-5	11/10/2017	108.66	5.33	--	103.33	--	--	--	--	--	--	--	--	--	--	--	
MW-5	03/27/2018	108.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	06/19/2018	108.39	4.66	--	103.73	0.32 J	0.24	--	0.007	0.0005 J	0.003	0.016	<0.0005	--	--	--	
MW-5	08/08/2018	108.39	5.58	--	102.81	--	--	--	--	--	--	--	--	--	--	--	
MW-5	10/31/2018	108.39	5.64	--	102.75	0.50 J	0.15	--	0.005	0.0003 J	0.0003 J	0.013	<0.0002	--	--	--	
MW-5	3/29/2019	108.76	5.95	0.00	102.81	--	--	--	--	--	--	--	--	--	--	--	
MW-5	5/13/2019	108.76	5.60	0.00	103.16	0.35	< 0.26 B J	--	0.008	< 0.001 B	0.006	0.027	< 0.0002	--	--	--	
MW-5	9/17/2019	108.76	6.41	0.00	102.35	0.33	0.22 J	--	0.0066	< 0.00059 B	0.00057	0.00138	--	--	--	--	
MW-6	09/21/2000	--	8.28	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	05/01/2001	--	8.76	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	09/25/2001	--	8.25	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	05/07/2002	110.58	8.39	--	102.19	--	--	--	--	--	--	--	--	--	--	--	
MW-6	09/29/2002	110.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	12/07/2002	110.61	8.07	--	102.54	--	--	--	--	--	--	--	--	--	--	--	
MW-6	06/06/2003	110.61	8.34	--	102.27	--	--	--	--	--	--	--	--	--	--	--	
MW-6	10/03/2003	110.61	7.85	--	102.76	--	--	--	--	--	--	--	--	--	--	--	
MW-6	12/18/2003	110.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	03/22/2004	110.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	06/09/2004	110.61	7.97	--	102.64	--	--	--	--	--	--	--	--	--	--	--	
MW-6	09/21/2004	110.61	8.70	--	101.91	--	--	--	--	--	--	--	--	--	--	--	
MW-6	10/29/2004	110.61	--	--	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-6	12/06/2004	110.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	03/21/2005	110.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	05/15/2005	110.61	7.61	--	103.00	--	--	--	--	--	--	--	--	--	--	--	
MW-6	09/28/2005	110.61	7.23	--	103.38	--	--	--	--	--	--	--	--	--	--	--	
MW-6	12/07/2005	110.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	04/07/2006	110.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	05/18/2006	110.61	8.51	--	102.10	--	--	--	--	--	--	--	--	--	--	--	
MW-6	09/28/2006	110.61	7.04	--	103.57	--	--	--	--	--	--	--	--	--	--	--	
MW-6	12/20/2006	110.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	03/15/2007	110.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

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Third Quarter 1998 to Current**  
Chevron-Branded Service Station 95414  
5210 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>						<b>1.5</b>	<b>2.2</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.000075</b>	<b>0.0017</b>	
MW-6	05/21/2007	110.61	8.01	--	102.60	--	--	--	--	--	--	--	--	--	--	
MW-6	09/27/2007	110.61	7.38	--	103.23	--	--	--	--	--	--	--	--	--	--	
MW-6	05/17/2008	110.61	7.89	--	102.72	--	--	--	--	--	--	--	--	--	--	
MW-6	06/26/2008	110.61	7.50	--	103.11	<b>0.35</b>	<0.010	--	<0.0010	<0.0010	<0.0010	<0.0020	--	--	--	
MW-6	09/17/2008	110.61	7.26	--	103.35	<b>0.32</b>	<0.010	--	<0.0010	<0.0010	<0.0010	<0.0020	--	--	--	
MW-6	03/20/2009	110.61	8.53	--	102.08	--	--	--	--	--	--	--	--	--	--	
MW-6	06/09/2009	110.61	7.50	--	103.11	<b>1.3</b>	<b>0.010</b>	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	
MW-6	09/23/2009	110.61	8.02	--	102.59	<b>0.36</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	
MW-6	12/09/2009	110.61	7.37	--	103.24	--	--	--	--	--	--	--	--	--	--	
MW-6	03/22/2010	110.61	8.55	--	102.06	--	--	--	--	--	--	--	--	--	--	
MW-6	05/06/2010	110.61	7.71	--	102.90	--	--	--	--	--	--	--	--	--	--	
MW-6	05/10/2010	110.61	8.40	--	102.21	<b>1.2</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	
MW-6	10/05/2010	110.61	7.96	--	102.65	<b>2.4</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	
MW-6	12/21/2010	110.61	7.67	--	102.94	--	--	--	--	--	--	--	--	--	--	
MW-6	03/09/2011	110.61	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	06/13/2011	110.61	7.80	--	102.81	<b>3.7</b>	<b>0.012</b>	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	
MW-6	09/15/2011	110.61	7.99	--	102.62	<b>2.8</b>	<b>0.010</b>	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	
MW-6	12/08/2011	110.61	7.94	--	102.67	--	--	--	--	--	--	--	--	--	--	
MW-6	03/21/2012	110.61	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	6/20/2012	110.61	7.29	--	103.32	1.5 [ <0.050]	<b>0.012</b>	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	TPH-d with silica gel cleanup
MW-6	07/05/2012	110.61	--	--	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	
MW-6	9/19/2012	110.61	6.76	--	103.85	0.81 [ <0.050]	<0.010	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	TPH-d with silica gel cleanup
MW-6	11/06/2012	111.10	6.54	--	104.56	--	--	--	--	--	--	--	--	--	--	
MW-6	04/01/2013	111.10	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	5/2/2013	111.10	8.25	--	102.85	<0.50 [ <0.50]	<0.10	--	<0.0010	<b>0.0013</b>	<0.0010	<0.0030	--	--	--	TPH-d with silica gel cleanup
MW-6	05/02/2013	111.10	--	--	--	<b>1.5</b>	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-6	09/18/2013	111.10	6.85	--	104.25	--	--	--	--	--	--	--	--	--	--	
MW-6	9/19/2013	111.10	--	--	--	1.2 [ <0.42]	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	TPH-d with silica gel cleanup
MW-6	11/12/2013	111.10	7.43	--	103.67	--	--	--	--	--	--	--	--	--	--	
MW-6	03/27/2014	111.10	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	05/12/2014	111.10	7.65	--	103.45	<b>0.89</b>	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-6	05/12/2014	111.10	--	--	--	<b>1.6</b>	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-6	09/12/2014	111.10	5.50	--	105.60	<b>0.89</b>	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-6	11/14/2014	111.10	8.54	--	102.56	--	--	--	--	--	--	--	--	--	--	
MW-6	03/06/2015	111.10	7.10	--	104.00	--	--	--	--	--	--	--	--	--	--	
MW-6	04/30/2015	111.10	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	09/22/2015	111.10	7.62	--	103.48	<b>1.4</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-6	11/09/2015	111.10	8.31	--	102.79	--	--	--	--	--	--	--	--	--	--	
MW-6	03/09/2016	111.10	7.35	--	103.75	--	--	--	--	--	--	--	--	--	--	
MW-6	6/7/2016	111.10	7.88	--	103.22	<b>1.3 [ 1.3]</b>	<0.010 [ <0.010]	--	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	--	--	--	
MW-6	9/21/2016	111.10	7.44	--	103.66	<b>2.7 [ 2.3]</b>	<0.010 [ <0.010]	--	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	--	--	--	
MW-6	11/01/2016	111.10	7.80	--	103.30	--	--	--	--	--	--	--	--	--	--	
MW-6	04/13/2017	111.10	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	06/01/2017	111.10	7.45	--	103.65	<b>3.0</b>	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-6	08/16/2017	111.10	7.88	--	103.22	<b>1.7 J</b>	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-6	11/10/2017	111.10	7.42	--	103.68	--	--	--	--	--	--	--	--	--	--	
MW-6	03/27/2018	111.10	8.31	--	102.79	--	--	--	--	--	--	--	--	--	--	
MW-6	06/18/2018	111.10	6.91	--	104.19	<b>2.4 J</b>	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-6	08/09/2018	111.10	7.71	--	103.39	--	--	--	--	--	--	--	--	--	--	
MW-6	10/31/2018	111.10	7.58	--	103.52	<b>2.4 J</b>	<0.014	--	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	--	--	
MW-6	3/29/2019	111.16	7.85	0.00	103.31	--	--	--	--	--	--	--	--	--	--	
MW-6	5/14/2019	111.16	7.44	0.00	103.72	< 0.014	<b>0.77 J</b>	--	< 0.0002	< 0.0002	< 0.0004	< 0.001	< 0.0002	< 0.0002	< 0.0003	
MW-6	9/17/2019	111.16	8.08	0.00	103.08	<b>1.2</b>	<0.1	--	--	< 0.00020 B	< 0.00020 B	<0.00050 B	<b>0.0005</b>	< 0.000020	--	
MW-7	09/29/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	12/07/2002	4.87	101.82	--	101.82	--	--	--	--	--	--	--	--	--	--	
MW-7	06/06/2003	4.90	101.79	--	101.79	--	--	--	--	--	--	--	--	--	--	
MW-7	10/03/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	10/04/2003	3.22	103.47	--	103.47	--	--	--	--	--	--	--	--	--	--	

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5210 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>						<b>1.5</b>	<b>2.2</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.000075</b>	<b>0.0017</b>	
MW-7	12/18/2003	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	03/22/2004	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	06/09/2004	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	09/21/2004	106.69	6.26	--	100.43	7.3	8.0	--	0.26	0.031	0.29	0.73	<0.0020	--	--	
MW-7	12/06/2004	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	03/21/2005	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	05/15/2005	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	09/28/2005	106.69	4.09	--	102.60	0.22	0.089	--	0.0040	<0.00050	0.0030	0.0040	<0.0020	--	--	
MW-7	12/07/2005	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	04/07/2006	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	05/18/2006	106.69	5.14	--	101.55	3.3	4.5	--	0.18	0.025	0.18	0.45	--	--	--	
MW-7	09/28/2006	106.69	3.55	--	103.14	4.4	3.2	--	0.077	0.0080	0.11	0.22	--	--	--	
MW-7	12/20/2006	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	03/15/2007	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	05/21/2007	106.69	5.05	--	101.64	0.60	3.2	--	0.16	0.014	0.15	0.42	--	--	--	
MW-7	09/27/2007	106.69	4.17	--	102.52	0.36	0.50	--	0.016	0.0020	0.024	0.056	--	--	--	
MW-7	05/19/2008	106.69	5.15	--	101.54	0.85	6.1	--	0.33	0.092	0.33	1.1	--	--	--	
MW-7	06/26/2008	106.69	4.71	--	101.98	1.6	10	--	0.30	0.080	0.40	1.2	--	--	--	
MW-7	09/17/2008	106.69	3.62	--	103.07	0.51	3.6	--	0.10	0.020	0.20	0.50	--	--	--	
MW-7	03/20/2009	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	06/08/2009	106.69	4.45	--	102.24	1.3	10	--	0.32	0.051	0.34	1.1	--	--	--	
MW-7	09/23/2009	106.69	5.19	--	101.50	1.6	11	--	0.32	0.035	0.46	1.4	--	--	--	
MW-7	12/09/2009	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	03/22/2010	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	05/06/2010	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	05/10/2010	106.69	4.61	--	102.08	1.7	4.5	--	0.18	0.050	0.19	0.54	--	--	--	
MW-7	12/21/2010	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	03/09/2011	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	06/13/2011	106.69	4.95	--	101.74	1.7	9.3	--	0.32	0.034	0.38	1.2	--	--	--	
MW-7	09/15/2011	106.69	5.29	--	101.40	2.1	9.0	--	0.24	0.020	0.34	1.0	--	--	--	
MW-7	12/08/2011	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	03/21/2012	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	06/20/2012	106.69	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	9/19/2012	106.69	4.30	--	102.39	1.1 [ 0.60]	5.1	--	0.076	0.0074	0.12	0.30	--	--	--	TPH-d with silica gel cleanup
MW-7	11/06/2012	107.26	2.74	--	104.52	--	--	--	--	--	--	--	--	--	--	
MW-7	04/01/2013	107.26	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	05/02/2013	107.26	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	09/18/2013	107.26	3.80	--	103.46	--	--	--	--	--	--	--	--	--	--	
MW-7	9/19/2013	107.26	--	--	--	1.1 [ 0.80]	2.54	--	0.0661	0.00650	0.113	0.266	--	--	--	TPH-d with silica gel cleanup
MW-7	11/12/2013	107.26	4.24	--	103.02	--	--	--	--	--	--	--	--	--	--	
MW-7	03/27/2014	107.26	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	05/12/2014	107.26	4.62	--	102.64	--	--	--	--	--	--	--	--	--	--	
MW-7	05/13/2014	107.26	--	--	--	<0.40	0.963	--	0.0464	0.00370	0.0482	0.0900	--	--	--	
MW-7	05/13/2014	107.26	--	--	--	<0.40	0.538	--	0.00830	<0.00100	0.0108	0.0297	--	--	--	
MW-7	09/12/2014	107.26	4.50	--	102.76	<0.40	0.219	--	0.0038	<0.0010	0.0042	0.0064	--	--	--	
MW-7	11/14/2014	107.26	5.27	--	101.99	--	--	--	--	--	--	--	--	--	--	
MW-7	04/30/2015	107.26	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	09/22/2015	107.26	4.50	--	102.76	0.94	0.011J	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-7	11/09/2015	107.26	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	03/09/2016	107.26	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	06/06/2016	107.26	4.31	--	102.95	1.1	0.041 J	--	<0.0005	<0.0005	<0.0005	0.0007 J	--	--	--	
MW-7	09/21/2016	107.26	4.47	--	102.79	1.2	2.3	--	0.081	0.007	0.094	0.17	--	--	--	
MW-7	11/01/2016	107.26	5.02	--	102.24	--	--	--	--	--	--	--	--	--	--	
MW-7	04/13/2017	107.26	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	06/01/2017	107.26	5.09	--	102.17	1.4	6.9	--	0.18	0.018	0.29	0.53	<0.001	--	--	
MW-7	08/16/2017	107.26	5.03	--	102.23	0.73 J	5.2	--	0.12	0.015	0.20	0.54	<0.0005	--	--	
MW-7	11/10/2017	107.26	4.63	--	102.63	--	--	--	--	--	--	--	--	--	--	
MW-7	03/27/2018	107.26	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	6/19/2018	107.06	3.83	--	103.23	1.0 J [ 1.1 J]	8.6 [ 9.5]	--	0.19 [ 0.18]	0.027 [ 0.025]	0.28 [ 0.26]	0.68 [ 0.69]	<0.0005 [ <0.001]	--	--	

**Table 2. Historical Groundwater Gauging and Analytical Results**

**Third Quarter 1998 to Current**

Chevron-Branded Service Station 95414

5210 Old Seward Highway

Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>						1.5	2.2	1.1	0.0046	1.1	0.015	0.19	0.14	0.000075	0.0017	
MW-7	08/09/2018	107.06	4.45	--	102.61	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/31/2018	107.06	4.68	--	102.38	1.6 J [ 1.4 J]	6.1 [ 6.0]	--	0.095 [ 0.093]	0.010 [ 0.010]	0.21 [ 0.21]	0.65 [ 0.63]	<0.0004 [ <0.0004]	--	--	
MW-7	3/29/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well obstructed by ice
MW-7	5/13/2019	107.35	4.33	0.00	103.02	2.8 [ 2.9]	0.43 J [ < 0.42 B J]	--	0.15 [ 0.15]	0.042 [ 0.042]	0.22 [ 0.23]	0.42 D [ 0.45 D]	< 0.0002 [ < 0.0002]	< 0.0002 [ < 0.0002]	0.001 [ 0.001]	
MW-7	9/17/2019	107.35	5.26	0.00	102.09	2.2	5.8	--	0.19	0.018	0.36 D	0.827 D	< 0.000070	< 0.000020	--	
MW-8	10/03/2003	108.20	5.55	--	102.65	--	--	--	--	--	--	--	--	--	--	
MW-8	12/18/2003	108.20	5.89	--	102.31	--	--	--	--	--	--	--	--	--	--	
MW-8	03/22/2004	108.20	7.16	--	101.04	0.90	2.2	--	0.11	0.0050	0.076	0.16	<0.00050	--	--	
MW-8	03/22/2004	108.20	--	--	--	0.89	2.6	--	0.11	0.0050	0.078	0.16	<0.00050	--	--	
MW-8	06/09/2004	108.20	6.22	--	101.98	1.3	2.6	--	0.15	0.0080	0.11	0.10	<0.0020	--	--	
MW-8	09/21/2004	108.20	7.27	--	100.93	1.5	4.1	--	0.23	0.014	0.15	0.34	<0.0020	--	--	
MW-8	12/06/2004	108.20	6.67	--	101.53	1.1	4.8	--	0.18	0.015	0.19	0.37	<0.0020	--	--	
MW-8	03/21/2005	108.20	7.14	--	101.06	1.0	1.6	--	0.12	0.0030	0.080	0.027	<0.0020	--	--	
MW-8	03/21/2005	108.20	--	--	--	0.92	1.7	--	0.12	0.0020	0.078	0.027	<0.0020	--	--	
MW-8	5/15/2005	108.20	6.26	--	101.94	0.91 [ 0.60]	4.3 [ 0.086]	--	0.21 [ 0.0010]	0.012 [ <0.00050]	0.17 [ <0.00050]	0.16 [ 0.0030]	<0.0020 [ <0.0020]	--	--	
MW-8	09/28/2005	108.20	5.94	--	102.26	0.92	3.5	--	0.25	0.019	0.17	0.24	<0.0020	--	--	
MW-8	12/07/2005	108.20	6.01	--	102.19	0.99	1.1	--	0.036	0.0030	0.026	0.027	<0.0020	--	--	
MW-8	04/07/2006	108.20	7.30	--	100.90	1.1	1.5	--	0.096	0.0040	0.052	0.077	<0.00050	--	--	
MW-8	04/07/2006	108.20	--	--	--	0.98	1.5	--	0.096	0.0040	0.050	0.069	<0.00050	--	--	
MW-8	05/18/2006	108.20	7.06	--	101.14	0.72	3.6	--	0.16	0.010	0.14	0.17	--	--	--	
MW-8	09/28/2006	108.20	5.82	--	102.38	1.0	4.3	--	0.19	0.016	0.17	0.40	--	--	--	
MW-8	12/20/2006	108.20	5.00	--	103.20	0.86	1.0	--	0.038	0.0027	0.027	0.040	--	--	--	
MW-8	03/15/2007	108.20	7.37	--	100.83	0.62	0.10	--	0.020	0.0020	0.010	0.020	0.0050	--	--	
MW-8	03/15/2007	108.20	--	--	--	0.70	0.030	--	0.020	0.0020	0.010	0.020	<0.010	--	--	
MW-8	05/21/2007	108.20	7.04	--	101.16	0.98	1.4	--	0.062	0.0020	0.047	0.030	--	--	--	
MW-8	09/27/2007	108.15	6.22	--	101.93	1.6	4.9	--	0.16	0.011	0.14	0.26	--	--	--	
MW-8	12/11/2007	108.15	6.24	--	101.91	0.75	1.7	--	0.040	0.0030	0.030	0.070	<0.10	--	--	
MW-8	03/04/2008	108.15	6.67	--	101.48	--	--	--	--	--	--	--	--	--	--	
MW-8	05/19/2008	108.15	7.08	--	101.07	0.72	4.9	--	0.19	0.014	0.20	0.34	--	--	--	
MW-8	06/04/2008	108.15	7.74	--	100.41	0.71	2.9	--	0.10	0.010	0.10	0.20	--	--	--	
MW-8	06/26/2008	108.15	6.28	--	101.87	0.70	2.1	--	0.060	0.0040	0.050	0.040	--	--	--	
MW-8	09/17/2008	108.15	5.81	--	102.34	--	--	--	--	--	--	--	--	--	--	
MW-8	09/18/2008	108.15	--	--	--	0.98	6.1	--	0.20	0.020	0.20	0.50	--	--	--	
MW-8	12/10/2008	108.15	6.16	--	101.99	0.72	1.2	--	0.040	0.0030	0.020	0.050	<0.010	--	--	
MW-8	03/20/2009	108.15	7.46	--	100.69	0.88	0.97	--	0.027	0.0016	0.015	0.021	<0.010	--	--	
MW-8	06/09/2009	108.15	5.90	--	102.25	0.68	2.4	--	0.078	0.0052	0.073	0.087	--	--	--	
MW-8	09/23/2009	108.15	6.83	--	101.32	0.78	3.6	--	0.15	0.010	0.10	0.20	--	--	--	
MW-8	12/09/2009	108.15	5.99	--	102.16	0.64	1.6	--	0.038	0.0029	0.025	0.062	--	--	--	
MW-8	03/22/2010	108.15	7.33	--	100.82	--	--	--	--	--	--	--	--	--	--	
MW-8	03/25/2010	108.15	--	--	--	0.64	0.87	--	0.024	0.0014	0.012	0.0072	--	--	--	
MW-8	05/06/2010	108.15	6.79	--	101.36	--	--	--	--	--	--	--	--	--	--	
MW-8	05/10/2010	108.15	6.48	--	101.67	0.79	4.8	--	0.14	0.010	0.14	0.28	--	--	--	
MW-8	10/05/2010	108.15	6.88	--	101.27	0.99	2.3	--	0.091	0.0056	0.066	0.083	--	--	--	
MW-8	12/21/2010	108.15	5.60	--	102.55	0.81	1.1	--	0.020	0.0028	0.010	0.032	--	--	--	
MW-8	03/09/2011	108.15	7.41	--	100.74	0.87	1.0	--	0.026	0.0024	0.013	0.039	--	--	--	
MW-8	06/13/2011	108.15	7.60	--	100.55	1.3	2.4	--	0.084	0.0058	0.071	0.11	--	--	--	
MW-8	09/15/2011	108.15	6.91	--	101.24	1.6	4.8	--	0.15	0.013	0.11	0.26	--	--	--	
MW-8	12/8/2011	108.15	5.89	--	102.26	0.86 [ 0.22]	1.6	--	0.042	0.0034	0.029	0.062	--	--	--	TPH-d with silica gel cleanup
MW-8	3/21/2012	108.15	6.62	--	101.53	0.73 [ 0.21]	1.4	--	0.027	0.0028	0.016	0.053	--	--	--	TPH-d with silica gel cleanup
MW-8	6/20/2012	108.15	5.34	--	102.81	1.1 [ 0.45]	2.7	--	0.090	0.0062	0.079	0.052	--	--	--	TPH-d with silica gel cleanup
MW-8	07/05/2012	108.15	--	--	--	--	2.8	--	0.12	0.0088	0.10	0.080	--	--	--	
MW-8	9/19/2012	108.15	4.68	--	103.47	1.2 [ 0.53]	3.7	--	0.14	0.010	0.12	0.22	--	--	--	TPH-d with silica gel cleanup
MW-8	11/6/2012	108.70	4.10	--	104.60	0.67 [ 0.33]	2.5	--	0.084	0.0036	0.10	0.019	--	--	--	TPH-d with silica gel cleanup
MW-8	4/1/2013	108.70	7.30	--	101.40	0.52 [ <0.45]	0.293	--	0.0084	<0.0010	<0.0010	<0.0030	--	--	--	TPH-d with silica gel cleanup
MW-8	05/02/2013	108.70	7.15	--	101.55	--	--	--	--	--	--	--	--	--	--	
MW-8	5/3/2013	108.70	--	--	--	0.53 [ <0.50]	0.394	--	0.0175	<0.00100	0.00660	<0.00300	--	--	--	TPH-d with silica gel cleanup
MW-8	05/03/2013	108.70	--	--	--	<0.50	0.53	--	0.0188	<0.00100	0.00800	<0.00300	--	--	--	
MW-8	9/18/2013	108.70	5.63	--	103.07	1.20 [ 0.75]	3.72	--	0.134	0.0112	0.181	0.237	--	--	--	TPH-d with silica gel cleanup



**Table 2. Historical Groundwater Gauging and Analytical Results  
Third Quarter 1998 to Current**  
Chevron-Branded Service Station 95414  
5210 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>						<b>1.5</b>	<b>2.2</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.000075</b>	<b>0.0017</b>	
MW-8	11/12/2013	108.70	5.84	--	102.86	1.00	3.4	--	0.0980	0.00810	0.145	0.281	--	--	--	--
MW-8	03/27/2014	108.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	05/12/2014	108.70	6.48	--	102.22	--	--	--	--	--	--	--	--	--	--	--
MW-8	05/13/2014	108.70	--	--	--	0.78	1.84	--	0.0709	0.00370	0.0794	0.0687	--	--	--	--
MW-8	05/13/2014	108.70	--	--	--	0.75	2.08	--	0.0951	0.00430	0.0961	0.0865	--	--	--	--
MW-8	09/12/2014	108.70	6.32	--	102.38	1.0	2.86	--	0.100	0.00630	0.118	0.135	--	--	--	--
MW-8	09/12/2014	108.70	--	--	--	0.99	2.72	--	0.103	0.00650	0.121	0.140	--	--	--	--
MW-8	11/14/2014	108.70	6.80	--	101.90	1.5	1.28	--	0.0648	0.00300	0.0589	0.0408	--	--	--	--
MW-8	03/06/2015	108.70	5.10	--	103.60	0.46	0.24	--	0.0044	<0.0010	<0.0010	<0.0030	--	--	--	--
MW-8	04/30/2015	108.70	7.02	--	101.68	0.41	0.95	--	0.020	0.0010	0.011	0.028	--	--	--	--
MW-8	09/22/2015	108.70	6.53	--	102.17	0.62	2.3	--	0.13	0.010	0.12	0.25	--	--	--	--
MW-8	11/09/2015	108.70	6.58	--	102.12	1.4	4.3	--	0.11	0.010	0.13	0.32	--	--	--	--
MW-8	03/09/2016	108.70	5.74	--	102.96	0.088 J	0.057 J	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--
MW-8	06/06/2016	108.70	5.57	--	103.13	0.30	0.054 J	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--
MW-8	09/21/2016	108.70	6.14	--	102.56	1.2	3.1	--	0.10	0.007	0.071	0.19	--	--	--	--
MW-8	11/1/2016	108.70	6.74	--	101.96	0.57 J [0.58 J]	1.7 J [1.8 J]	--	0.022 [0.022]	0.002 [0.002]	0.012 [0.012]	0.051 [0.052]	--	--	--	--
MW-8	04/13/2017	108.70	7.16	--	101.54	0.28 [0.24 J]	0.61 [0.52]	--	0.01 [0.009]	0.0007 J [0.0007 J]	0.004 [0.004]	0.006 [0.005]	<0.0005 [<0.0005]	--	--	--
MW-8	06/01/2017	108.70	6.83	--	101.87	0.75	1.7	--	0.003	0.003	0.058	0.055	<0.0005	--	--	--
MW-8	08/16/2017	108.70	6.85	--	101.85	0.39 J [0.48 J]	2.2 [2.2]	--	0.059 [0.058]	0.004 [0.004]	0.040 [0.039]	0.038 [0.035]	<0.0005 [<0.0005]	--	--	--
MW-8	11/10/2017	108.70	6.34	--	102.36	0.43 [0.46]	1.6 [1.5]	--	0.017 [0.018]	0.001 [0.001]	0.015 [0.016]	0.026 [0.027]	--	--	--	--
MW-8	03/27/2018	108.70	7.37	--	101.33	0.44 J [0.34 J]	0.55 [0.54]	--	0.004 [0.004]	<0.0005 [<0.0005]	<0.0005 [<0.0005]	0.006 [0.006]	<0.0005 [<0.0005]	--	--	--
MW-8	06/19/2018	108.70	5.38	--	103.32	0.27 J	1.1	--	0.023	0.0009 J	0.027	0.004	<0.0005	--	--	--
MW-8	08/08/2018	108.70	6.32	--	102.38	0.27 [0.29]	0.70 [0.68]	--	0.015 [0.015]	0.0004 J [0.0003 J]	0.007 [0.007]	<0.0005 [<0.0005]	<0.0002 [<0.0002]	--	--	--
MW-8	10/31/2018	108.70	6.51	--	102.19	0.78 J	1.2	--	0.052	0.003	0.029	0.053	<0.0002	--	--	--
MW-8	3/29/2019	108.70	6.30	0.00	102.4	1.3	0.48	--	0.02	0.002	0.017	0.051	--	--	--	--
MW-8	5/14/2019	108.70	6.30	0.00	102.4	2.8	0.54 J	--	0.06	0.005	0.074	0.13	<0.0002J	--	--	--
MW-8	9/17/2019	108.70	6.98	0.00	101.72	0.56	0.28	--	0.0073	<0.00025 B	<0.00022 B	0.00136 J	--	--	--	--
MW-9	10/03/2003	107.27	4.73	--	102.54	--	--	--	--	--	--	--	--	--	--	--
MW-9	12/18/2003	107.27	5.03	--	102.24	--	--	--	--	--	--	--	--	--	--	--
MW-9	03/22/2004	107.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	06/09/2004	107.27	5.45	--	101.82	1.0	2.1	--	0.16	0.0070	0.074	0.12	<0.0020	--	--	--
MW-9	09/21/2004	107.27	5.57	--	101.70	0.26	<0.010	--	0.00060	<0.00050	<0.00050	<0.00050	<0.0020	--	--	--
MW-9	12/06/2004	107.27	5.59	--	101.68	0.69	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	--	--	--
MW-9	03/21/2005	107.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	05/15/2005	107.27	5.57	--	101.70	2.6	0.052	--	0.011	<0.00050	0.00080	0.00060	<0.0020	--	--	--
MW-9	09/28/2005	107.27	5.22	--	102.05	1.1	1.1	--	0.10	0.0020	0.035	0.057	<0.0020	--	--	--
MW-9	12/07/2005	107.27	5.24	--	102.03	0.73	0.33	--	0.065	0.00060	0.0040	0.010	<0.0020	--	--	--
MW-9	04/07/2006	107.27	6.47	--	100.80	0.096	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--
MW-9	05/18/2006	107.27	6.29	--	100.98	1.2	0.019	--	0.0010	<0.00050	<0.00050	<0.00050	--	--	--	--
MW-9	09/28/2006	107.27	4.66	--	102.61	1.6	0.060	--	0.0010	<0.00050	<0.00050	<0.00050	--	--	--	--
MW-9	12/20/2006	107.27	3.85	--	103.42	0.54	0.60	--	0.048	0.0013	0.024	0.027	--	--	--	--
MW-9	03/15/2007	107.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	05/21/2007	107.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	09/27/2007	107.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9R	09/27/2007	107.58	5.78	--	101.80	0.41	0.40	--	0.037	0.0020	0.024	0.035	--	--	--	--
MW-9R	12/11/2007	107.58	6.25	--	101.33	0.63	1.8	--	0.10	0.0050	0.070	0.10	<0.10	--	--	--
MW-9R	03/04/2008	107.58	6.10	--	101.48	--	--	--	--	--	--	--	--	--	--	--
MW-9R	05/19/2008	107.58	6.69	--	100.89	0.84	0.20	--	0.017	<0.00050	0.0070	0.011	--	--	--	--
MW-9R	06/04/2008	107.58	6.28	--	101.30	0.51	2.2	--	0.090	0.0050	0.070	0.10	--	--	--	--
MW-9R	06/26/2008	107.58	5.90	--	101.68	0.79	5.0	--	0.20	0.020	0.20	0.40	--	--	--	--
MW-9R	09/17/2008	107.58	5.31	--	102.27	--	--	--	--	--	--	--	--	--	--	--
MW-9R	09/18/2008	107.58	--	--	--	0.065	0.020	--	0.0040	<0.0010	<0.0010	<0.0020	--	--	--	--
MW-9R	12/10/2008	107.58	8.78	--	98.80	0.80	2.7	--	0.10	0.0080	0.10	0.30	<0.050	--	--	--
MW-9R	03/19/2009	107.58	7.18	--	100.40	1.1	3.8	--	0.14	0.0081	0.13	0.30	<0.050	--	--	--
MW-9R	06/09/2009	107.58	5.70	--	101.88	0.80	3.8	--	0.19	0.011	0.16	0.34	--	--	--	--
MW-9R	09/23/2009	107.58	6.45	--	101.13	0.59	2.5	--	0.16	0.0066	0.094	0.15	--	--	--	--
MW-9R	12/09/2009	107.58	5.37	--	102.21	0.60	3.7	--	0.15	0.0098	0.15	0.34	--	--	--	--

**Table 2. Historical Groundwater Gauging and Analytical Results  
Third Quarter 1998 to Current**  
Chevron-Branded Service Station 95414  
5210 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>						<b>1.5</b>	<b>2.2</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.000075</b>	<b>0.0017</b>	
MW-9R	03/22/2010	107.58	6.69	--	100.89	--	--	--	--	--	--	--	--	--	--	
MW-9R	03/25/2010	107.58	--	--	--	0.60	0.38	--	0.019	0.0060	0.013	0.016	--	--	--	
MW-9R	05/06/2010	107.58	6.10	--	101.48	--	--	--	--	--	--	--	--	--	--	
MW-9R	05/10/2010	107.58	6.00	--	101.58	0.25	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	--	--	
MW-9R	10/05/2010	107.58	6.23	--	101.35	0.41	1.3	--	0.072	0.0030	0.047	0.066	--	--	--	
MW-9R	12/21/2010	107.58	5.57	--	102.01	0.93	2.5	--	0.13	0.0053	0.084	0.15	--	--	--	
MW-9R	03/09/2011	107.58	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	06/13/2011	107.58	6.01	--	101.57	0.82	1.9	--	0.12	0.0049	0.071	0.12	--	--	--	
MW-9R	09/15/2011	107.58	6.40	--	101.18	0.75	1.4	--	0.11	0.0011	0.020	0.040	--	--	--	
MW-9R	12/8/2011	107.58	5.34	--	102.24	0.84 [ 0.2]	2.2	--	0.076	0.0019	0.050	0.074	--	--	--	TPH-d with silica gel cleanup
MW-9R	3/21/2012	107.58	7.17	--	100.41	0.75 [ 0.33]	0.57	--	0.010	0.00060	0.0038	0.0024	--	--	--	TPH-d with silica gel cleanup
MW-9R	6/20/2012	107.58	4.83	--	102.75	2.0 [ 0.63]	4.4	--	0.16	0.011	0.15	0.30	--	--	--	TPH-d with silica gel cleanup
MW-9R	07/05/2012	107.58	--	--	--	--	2.3	--	0.064	0.0035	0.061	0.11	--	--	--	
MW-9R	9/19/2012	107.58	4.13	--	103.45	0.18J [ 0.065J]	0.58	--	0.019	0.00080J	0.011	0.028	--	--	--	
MW-9R	11/6/2012	108.08	3.58	--	104.50	0.15J [ 0.097J]	0.72	--	0.013	0.0011J	0.023	0.033	--	--	--	
MW-9R	04/01/2013	108.08	6.92	--	101.16	<0.48	0.415	--	0.0354	0.00140	0.0195	0.0239	--	--	--	
MW-9R	05/02/2013	108.08	6.14	--	101.94	--	--	--	--	--	--	--	--	--	--	
MW-9R	05/03/2013	108.08	--	--	--	<0.500	0.565	--	0.0238	0.00130	0.0233	0.0273	--	--	--	
MW-9R	05/03/2013	108.08	--	--	--	<0.50	0.472	--	0.0407	0.00150	0.0230	0.0289	--	--	--	
MW-9R	9/18/2013	108.08	5.15	--	102.93	0.50 [ <0.39]	0.634	--	0.0490	<0.00100	0.0133	0.0198	--	--	--	
MW-9R	11/12/2013	108.08	5.39	--	102.69	0.54	0.936	--	0.0306	0.00140	0.0316	0.0542	--	--	--	
MW-9R	03/27/2014	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	05/12/2014	108.08	6.03	--	102.05	--	--	--	--	--	--	--	--	--	--	
MW-9R	05/13/2014	108.08	--	--	--	<0.40	0.726	--	0.0233	0.00160	0.0276	0.0606	--	--	--	
MW-9R	05/13/2014	108.08	--	--	--	<0.40	<0.10	--	0.0022	<0.0010	0.0013	<0.0030	--	--	--	
MW-9R	09/12/2014	108.08	5.88	--	102.20	<0.40	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-9R	11/14/2014	108.08	6.10	--	101.98	<0.40	0.385	--	0.0299	<0.00100	0.0100	0.0203	--	--	--	
MW-9R	03/06/2015	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	04/30/2015	108.08	6.40	--	101.68	0.44	0.018 J	--	0.0020	<0.00050	<0.00050	<0.00050	--	--	--	
MW-9R	09/22/2015	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	11/09/2015	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	03/09/2016	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	06/06/2016	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	09/21/2016	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	11/01/2016	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	04/13/2017	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	06/01/2017	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	08/16/2017	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	11/10/2017	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	03/27/2018	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	06/18/2018	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	08/08/2018	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	10/30/2018	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	3/29/2019	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9R	6/3/2019	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to access
MW-9R	9/17/2019	108.08	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to access
MW-10	10/03/2003	108.93	4.98	--	103.95	--	--	--	--	--	--	--	--	--	--	
MW-10	12/18/2003	108.93	6.65	--	102.28	--	--	--	--	--	--	--	--	--	--	
MW-10	03/22/2004	108.93	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	06/09/2004	108.93	7.01	--	101.92	--	--	--	--	--	--	--	--	--	--	
MW-10	09/21/2004	108.93	7.38	--	101.55	1.5	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	--	--	
MW-10	12/06/2004	108.93	7.05	--	101.88	0.64	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	--	--	
MW-10	12/06/2004	108.93	--	--	--	1.5	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	--	--	
MW-10	03/21/2005	108.93	7.36	--	101.57	0.43	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	--	--	
MW-10	05/15/2005	108.93	6.74	--	102.19	1.6	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	--	--	
MW-10	9/28/2005	108.93	6.31	--	102.62	1.0 [ 1.2]	<0.010 [ <0.010]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.0020 [ <0.0020]	--	--	--	
MW-10	12/7/2005	108.93	6.69	--	102.24	1.1 [ 1.1]	<0.010 [ <0.010]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.0020 [ <0.0020]	--	--	--	
MW-10	04/07/2006	108.93	7.55	--	101.38	0.41	<0.010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	

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Third Quarter 1998 to Current**  
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Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>						<b>1.5</b>	<b>2.2</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.000075</b>	<b>0.0017</b>	
MW-10	5/18/2006	108.93	7.31	--	101.62	<b>2.3 [ 2.6]</b>	<0.010 [ <0.010]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	--	--	--	
MW-10	09/28/2006	108.93	5.47	--	103.46	<b>1.6</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	12/20/2006	108.93	5.75	--	103.18	<b>1.0</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	03/15/2007	108.93	8.05	--	100.88	<b>0.83</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	<0.0030	--	--	
MW-10	05/21/2007	108.93	7.38	--	101.55	<b>1.2</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<b>0.0010</b>	--	--	--	
MW-10	09/27/2007	108.78	6.31	--	102.47	<b>0.87</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	12/11/2007	108.78	7.27	--	101.51	<b>1.5</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	<0.0030	--	--	
MW-10	03/04/2008	108.78	7.23	--	101.55	--	--	--	--	--	--	--	--	--	--	
MW-10	05/19/2008	108.78	7.29	--	101.49	<b>3.3</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	06/04/2008	108.78	7.07	--	101.71	<b>0.95</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	06/26/2008	108.78	6.85	--	101.93	<b>1.0</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	09/17/2008	108.78	5.20	--	103.58	--	--	--	--	--	--	--	--	--	--	
MW-10	09/18/2008	108.78	--	--	--	<b>0.24</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	12/10/2008	108.78	6.83	--	101.95	<b>1.2</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	<0.0030	--	--	
MW-10	03/19/2009	108.78	8.04	--	100.74	<b>0.76</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	<0.0015	<0.0025	--	
MW-10	06/09/2009	108.78	6.52	--	102.26	<b>0.69</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	09/23/2009	108.78	7.40	--	101.38	<b>1.4</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	12/09/2009	108.78	6.67	--	102.11	<b>1.3</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	03/22/2010	108.78	7.83	--	100.95	--	--	--	--	--	--	--	--	--	--	
MW-10	03/25/2010	108.78	--	--	--	<b>1.5</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	05/06/2010	108.78	6.61	--	102.17	--	--	--	--	--	--	--	--	--	--	
MW-10	05/10/2010	108.78	6.61	--	102.17	<b>0.86</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	10/05/2010	108.78	7.40	--	101.38	<b>2.2</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	12/21/2010	108.78	6.64	--	102.14	<b>1.3</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	03/09/2011	108.78	7.98	--	100.80	<b>0.83</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	06/13/2011	108.78	7.14	--	101.64	<b>1.2</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	09/15/2011	108.78	7.46	--	101.32	<b>1.6</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	12/8/2011	108.78	6.28	--	102.50	<b>0.55 [ 0.048]</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	TPH-d with silica gel cleanup
MW-10	03/21/2012	108.78	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	6/20/2012	108.78	6.00	--	102.78	<b>1.3 [ 0.058]</b>	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	TPH-d with silica gel cleanup
MW-10	07/05/2012	108.78	--	--	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	9/19/2012	108.78	5.11	--	103.67	0.56 [ <0.05]	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	TPH-d with silica gel cleanup
MW-10	11/6/2012	109.35	4.94	--	104.41	1.0 [ <0.049]	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	TPH-d with silica gel cleanup
MW-10	4/1/2013	109.35	7.43	--	101.92	0.52 [ <0.42]	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	TPH-d with silica gel cleanup
MW-10	05/02/2013	109.35	6.70	--	102.65	--	--	--	--	--	--	--	--	--	--	
MW-10	05/03/2013	109.35	--	--	--	<0.50	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-10	05/03/2013	109.35	--	--	--	<0.52	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-10	9/18/2013	109.35	6.03	--	103.32	0.76 [ <0.48]	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-10	11/12/2013	109.35	6.41	--	102.94	<b>0.52</b>	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-10	03/27/2014	109.35	7.14	--	102.21	<0.40	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-10	05/12/2014	109.35	6.82	--	102.53	--	--	--	--	--	--	--	--	--	--	
MW-10	05/13/2014	109.35	--	--	--	<0.40	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-10	05/13/2014	109.35	--	--	--	<0.40	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-10	09/12/2014	109.35	6.68	--	102.67	<0.40	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-10	11/14/2014	109.35	7.35	--	102.00	<b>0.53</b>	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-10	03/06/2015	109.35	5.35	--	104.00	<0.40	<0.10	--	<0.0010	<0.0010	<0.0010	<0.0030	--	--	--	
MW-10	04/30/2015	109.35	7.44	--	101.91	<b>0.78</b>	<0.10	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	--	
MW-10	9/22/2015	109.35	6.80	--	#VALUE!	<b>0.54 [ 0.55]</b>	<0.010 [ <0.010]	--	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	--	--	--	
MW-10	11/9/2015	109.35	9.11	--	100.24	<b>0.75 [ 0.72]</b>	<0.050 [ <0.050]	--	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	--	--	--	
MW-10	3/9/2016	109.35	5.84	--	103.51	<b>0.42 [ 0.41]</b>	<b>0.10 [ 0.018 J]</b>	--	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	--	--	--	
MW-10	06/06/2016	109.35	6.69	--	102.66	<b>0.96</b>	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	
MW-10	09/21/2016	109.35	6.81	--	102.54	<b>1.3</b>	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	
MW-10	11/01/2016	109.35	7.25	--	102.10	<b>1.4 J</b>	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	
MW-10	04/13/2017	109.35	6.45	--	102.90	<b>0.11 J</b>	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-10	06/01/2017	109.35	7.26	--	102.09	<b>0.61 [ 0.64]</b>	<0.010 [ <0.010]	--	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	<0.00050 [ <0.00050]	--	--	
MW-10	08/16/2017	109.35	7.09	--	102.26	<b>0.19 J</b>	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-10	11/10/2017	109.35	6.86	--	102.49	<b>0.15 J</b>	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	
MW-10	03/27/2018	109.35	7.88	--	101.47	<b>0.25 J</b>	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-10	06/19/2018	109.35	5.70	--	103.65	<b>0.19 J</b>	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	

**Table 2. Historical Groundwater Gauging and Analytical Results  
Third Quarter 1998 to Current**  
Chevron-Branded Service Station 95414  
5210 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>						<b>1.5</b>	<b>2.2</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.000075</b>	<b>0.0017</b>	
MW-10	08/08/2018	109.35	6.50	--	102.85	0.27	<0.014	--	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002			
MW-10	10/31/2018	109.35	6.91	--	102.44	0.30 J	<0.014	--	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002			
MW-10	3/29/2019	109.17	6.58	0.00	102.59	< 0.014[< 0.014]	< 0.25 B[< 0.25 B]	--	< 0.0002[< 0.0002]	< 0.0002[< 0.0002]	< 0.0004[< 0.0004]	< 0.001[< 0.001]	< 0.0002[~]	< 0.0002[~]	< 0.0003[~]	TPH-d reported to LOQ
MW-10	5/13/2019	109.17	6.58	0.00	102.59	< 0.014	< 0.26 B J	--	< 0.0002	< 0.0002	< 0.0004	< 0.001	< 0.0002	< 0.0002	< 0.0003	TPH-d reported to LOQ
MW-10	9/17/2019	109.17	7.19	0.00	101.98	0.42	<0.1	--	<0.000030	< 0.000050	< 0.00020 B	<0.00065 B	< 0.00030 B	< 0.000020	--	
SP-1	5/14/2019	--	--	--	--	--	< 0.014	< 0.26 B J	< 0.0002	< 0.0002	< 0.0004	< 0.001	< 0.0002	--	--	
SP-1	9/17/2019	--	--	--	--	< 0.098 [ < 0.091 ]	< 0.1 [ < 0.1 ]	--	< 0.000030 [ < 0.000030 ]	< 0.000050 [ < 0.000050 ]	< 0.000054 J B [ < 0.00020 B ]	<0.00012 J [ <0.00050 B ]	-- [ - ]	-- [ - ]	--	
SP-2	5/14/2019	--	--	--	--	--	0.039 J	< 0.26 B J	0.002	< 0.001 B	0.0004 J	0.003 J	< 0.0002	--	--	
SP-2	9/17/2019	--	--	--	--	0.66	< 0.1	--	< 0.000030	< 0.000050	< 0.00020 B	<0.00050 B	--	--	--	
SP-3	5/14/2019	--	--	--	--	--	< 0.014 [ < 0.014 ]	< 0.051 J [ < 0.26 B J ]	< 0.0002 [ < 0.0002 ]	< 0.0002 [ < 0.0002 ]	< 0.0004 [ < 0.0004 ]	< 0.001 [ < 0.001 ]	< 0.0002 [ < 0.0002 ]	--	--	TPH-d reported to LOQ
SP-3	9/17/2019	--	--	--	--	0.69	< 0.1	--	< 0.000030	< 0.000050	0.000052 J B	0.00012 J	--	--	--	
SP-4	5/14/2019	--	--	--	--	--	< 0.014	< 0.26 B J	< 0.0002	< 0.0002	< 0.0004	< 0.001	< 0.0002	--	--	
SP-4	9/17/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
QA (EQB)	9/17/2019	--	--	--	--	< 0.091	< 0.1	--	<0.000030	0.00054	0.000065 J	<0.0003 J	< 0.000070	--	--	
Trip Blank	5/27/2004	--	--	0.00	--	--	--	--	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	--	--	
Trip Blank	6/10/2004	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.00050	<0.0020	--	--	
Trip Blank	6/10/2004	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.00050	<0.0020	--	--	
Trip Blank	6/10/2004	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.00050	<0.0020	--	--	
Trip Blank	9/22/2004	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.00050	<0.0020	--	--	
Trip Blank	9/22/2004	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.00050	<0.0020	--	--	
Trip Blank	5/9/2005	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.0015	--	--	--	
Trip Blank	5/11/2005	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.0015	--	--	--	
Trip Blank	5/18/2005	--	--	0.00	--	--	--	--	<0.010	<0.00020	<0.00020	<0.00060	--	--	--	
Trip Blank	6/16/2005	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.0015	--	--	--	
Trip Blank	9/28/2005	--	--	0.00	--	--	--	--	<0.010	<0.00020	<0.00020	<0.00060	--	--	--	
Trip Blank	5/17/2006	--	--	0.00	--	--	--	--	<0.010	<0.00020	<0.00020	<0.00060	--	--	--	
Trip Blank	7/24/2006	--	--	0.00	--	--	--	--	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	--	--	
Trip Blank	9/23/2006	--	--	0.00	--	--	--	--	<0.010	<0.00020	<0.00020	<0.00060	--	--	--	
Trip Blank	5/16/2007	--	--	0.00	--	--	--	--	<0.010	<0.0010	<0.0010	<0.0020	--	--	--	
Trip Blank	9/27/2007	--	--	0.00	--	--	--	--	<0.010	<0.0010	<0.0010	<0.0020	--	--	--	
Trip Blank	5/17/2008	--	--	0.00	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	6/4/2008	--	--	0.00	--	--	--	--	<0.010	<0.0010	<0.0010	<0.0020	--	--	--	
Trip Blank	9/11/2008	--	--	0.00	--	--	--	--	<0.010	<0.0010	<0.0010	<0.0020	--	--	--	
Trip Blank	9/13/2008	--	--	0.00	--	--	--	--	<0.010	<0.0010	<0.0010	<0.0020	--	--	--	
Trip Blank	9/14/2008	--	--	0.00	--	--	--	--	<0.010	<0.0010	<0.0010	<0.0020	--	--	--	
Trip Blank	5/29/2009	--	--	0.00	--	--	--	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	
Trip Blank	9/17/2009	--	--	0.00	--	--	--	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	
Trip Blank	9/18/2009	--	--	0.00	--	--	--	--	<0.00050	<0.00050	<0.00050	<0.0015	--	--	--	
Trip Blank	5/11/2010	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.0015	--	--	--	
Trip Blank	9/7/2010	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.0015	--	--	--	
Trip Blank	4/20/2011	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.0015	--	--	--	
Trip Blank	7/7/2011	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.0015	--	--	--	
Trip Blank	9/28/2011	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.0015	--	--	--	
Trip Blank	9/28/2011	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.0015	--	--	--	
Trip Blank	5/21/2012	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.0015	--	--	--	
Trip Blank	9/18/2012	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.0015	--	--	--	
Trip Blank	5/6/2013	--	--	0.00	--	--	--	--	<0.10	<0.0010	<0.0010	<0.0030	--	--	--	
Trip Blank	9/16/2013	--	--	0.00	--	--	--	--	<0.10	<0.0010	<0.0010	<0.0030	--	--	--	
Trip Blank	5/5/2014	--	--	0.00	--	--	--	--	<0.010	<0.0010	<0.0010	<0.0030	--	--	--	
Trip Blank	9/2/2014	--	--	0.00	--	--	--	--	<0.010	<0.0010	<0.0010	<0.0030	--	--	--	
Trip Blank	4/16/2015	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.00050	--	--	--	
Trip Blank	9/22/2015	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.00050	--	--	--	
Trip Blank	11/9/2015	--	--	0.00	--	--	--	--	<0.010	<0.00050	<0.00050	<0.00050	--	--	--	

**Table 2. Historical Groundwater Gauging and Analytical Results  
Third Quarter 1998 to Current**  
Chevron-Branded Service Station 95414  
5210 Old Seward Highway  
Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	EDB (mg/L)	EDC (mg/L)	Comments
<b>ADEC Groundwater Cleanup Levels</b>						<b>1.5</b>	<b>2.2</b>	<b>1.1</b>	<b>0.0046</b>	<b>1.1</b>	<b>0.015</b>	<b>0.19</b>	<b>0.14</b>	<b>0.000075</b>	<b>0.0017</b>	
Trip Blank	3/9/2016	--	--	0.00	--	--	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	
Trip Blank	6/6/2016	--	--	0.00	--	--	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	
Trip Blank	9/21/2016	--	--	0.00	--	--	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	
Trip Blank	4/13/2017	--	--	0.00	--	--	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
Trip Blank	6/1/2017	--	--	0.00	--	--	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
Trip Blank	8/16/2017	--	--	0.00	--	--	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
Trip Blank	11/10/2017	--	--	0.00	--	--	<0.010	--	<0.0005	<b>0.0005 J</b>	<0.0005	<0.0005	--	--	--	
Trip Blank	3/27/2018	--	--	0.00	--	--	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
Trip Blank	6/19/2018	--	--	0.00	--	--	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
Trip Blank	8/9/2018	--	--	0.00	--	--	<0.014	--	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	--	--	
Trip Blank	10/31/2018	--	--	0.00	--	--	<0.014	--	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	--	--	
QA (TB)	9/17/2019	--	--	--	--	--	< 0.1	--	<0.00003	<b>0.000056 J</b>	<b>0.000059 J</b>	<0.0003 J	< 0.000070	--	--	

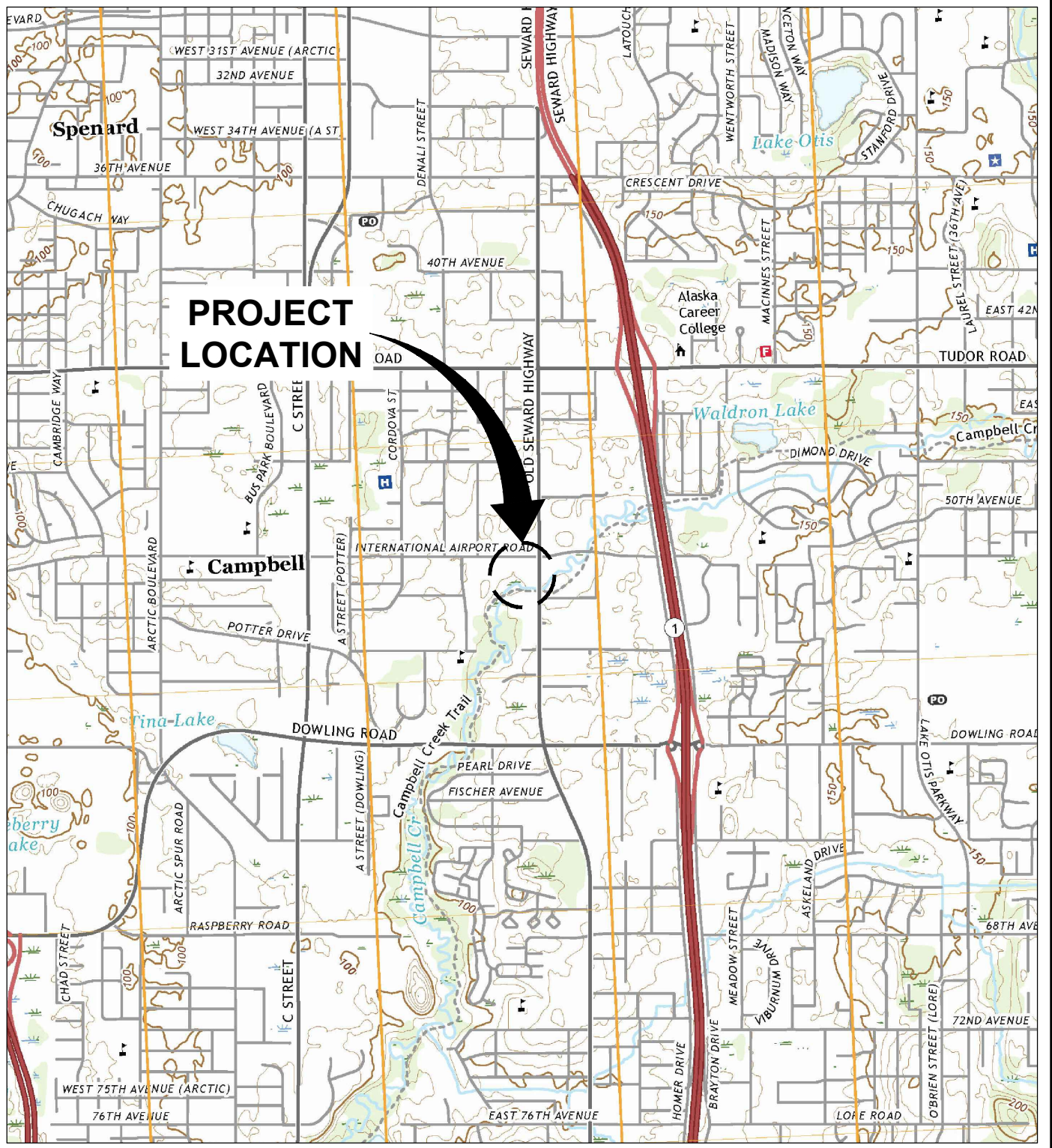
**Notes:**

- 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
- Bold and Shaded = Value exceeds ADEC Groundwater Cleanup Level**
- Bold = Value exceeds MDL**
- <14 = Not detected at or above the Method Detection Limit (MDL)
- NAVD 88 = North American Vertical Datum of 1988
- ADEC = Alaska Department of Environmental Conservation
- = Not analyzed/ Not measured/ Not Available
- [ ] = Duplicate Result
- TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to United States Environmental Protection Agency (USEPA) Method AK101
- TPH-d = Total petroleum hydrocarbons, diesel range by LUFT GC/MS according to USEPA Method AK 102-SV/103mod-SV
- TPH-r = Total petroleum hydrocarbons, residual range organics LUFT GC/MS according to USEPA Method AK 102-SV/103mod-SV
- Samples analysed by USEPA Method 8260C:
  - Benzene, toluene, ethylbenzene and total xylenes (collectively BTEX)
  - MTBE = Methyl tert-butyl ether
  - TBA = Tert-butanol or tertiary butyl alcohol
  - EDB = 1,2-Dibromoethane
  - EDC = 1,2-Dichloroethane
- J = The compound was positively identified; however, the associated numerical value is an estimated concentration only
- B = Compound considered non-detect at the listed value due to associated blank contamination
- D = Results are reported from a diluted sample
- QA (TB) = Quality Assurance (Trip Blank)
- QA (EB) = Quality Assurance (Equipment Blank)
- LNAPL = Light Non-Aqueous Phase Liquid

# FIGURES

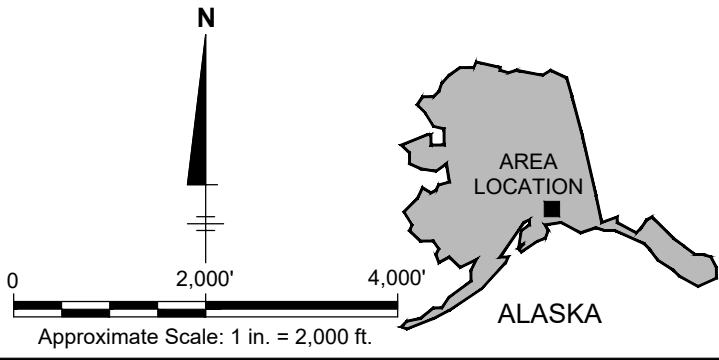


CITY:(Read) DIV:GROUP:(Read) DB:(Read) LD:(Opt) PIC:(Opt) PM:(Read) TM:(Opt) LVR:(Opt)ON="OFF"=REF" C:\Users\mb9861\1360\Arctic\ASANA - CHEVRON CORPORATION\Project Files\ASR 95414 ALASKA\2019\GWR\AK0001541401-DWG\95414-FIG-1-SITE LOC.dwg LAYOUT: 1 SAVED: 11/22/2019 3:35 PM ACADVER: 23.05 (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 11/22/2019 3:56 PM BY: N. BALA

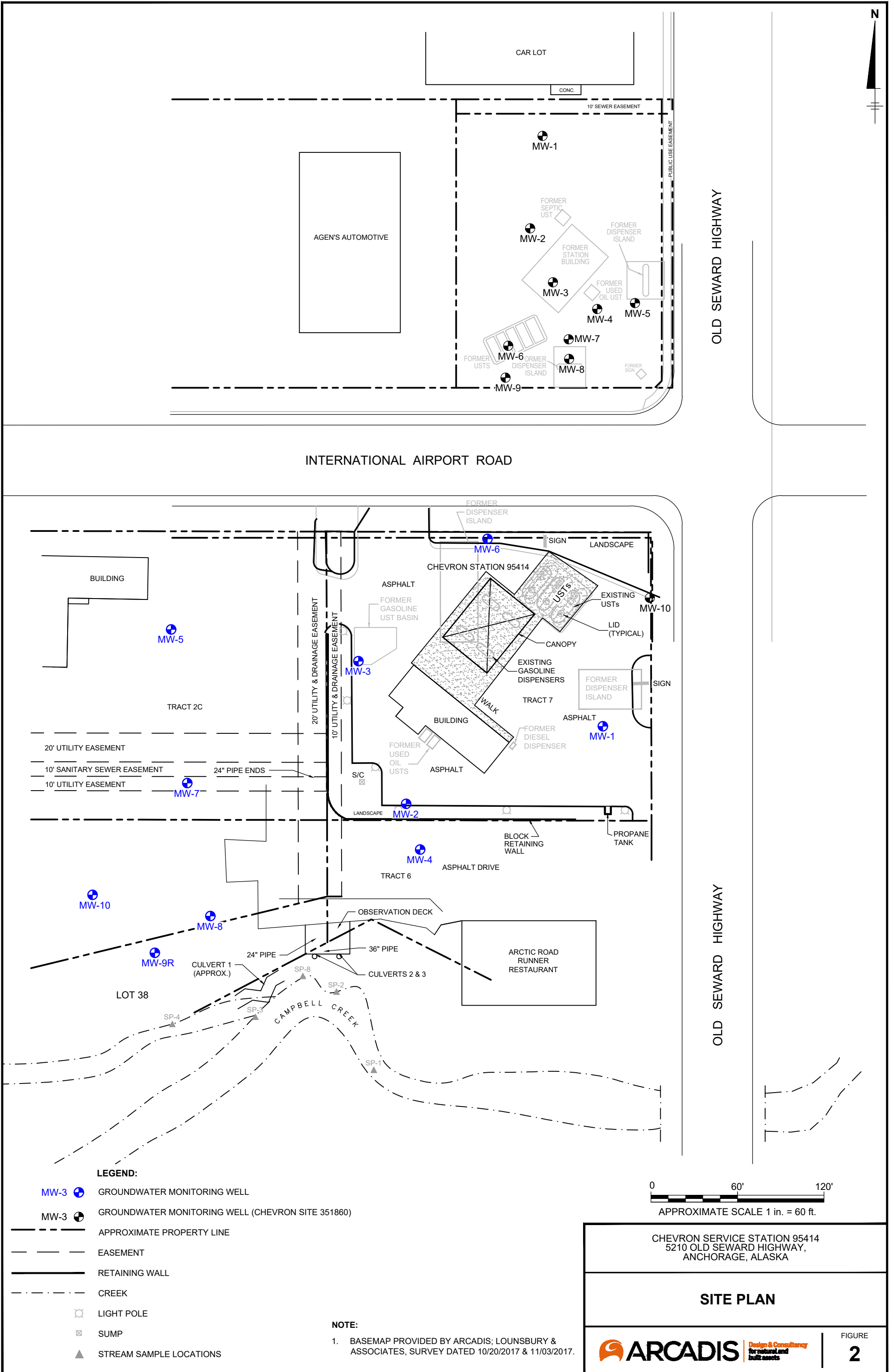


# PROJECT LOCATION

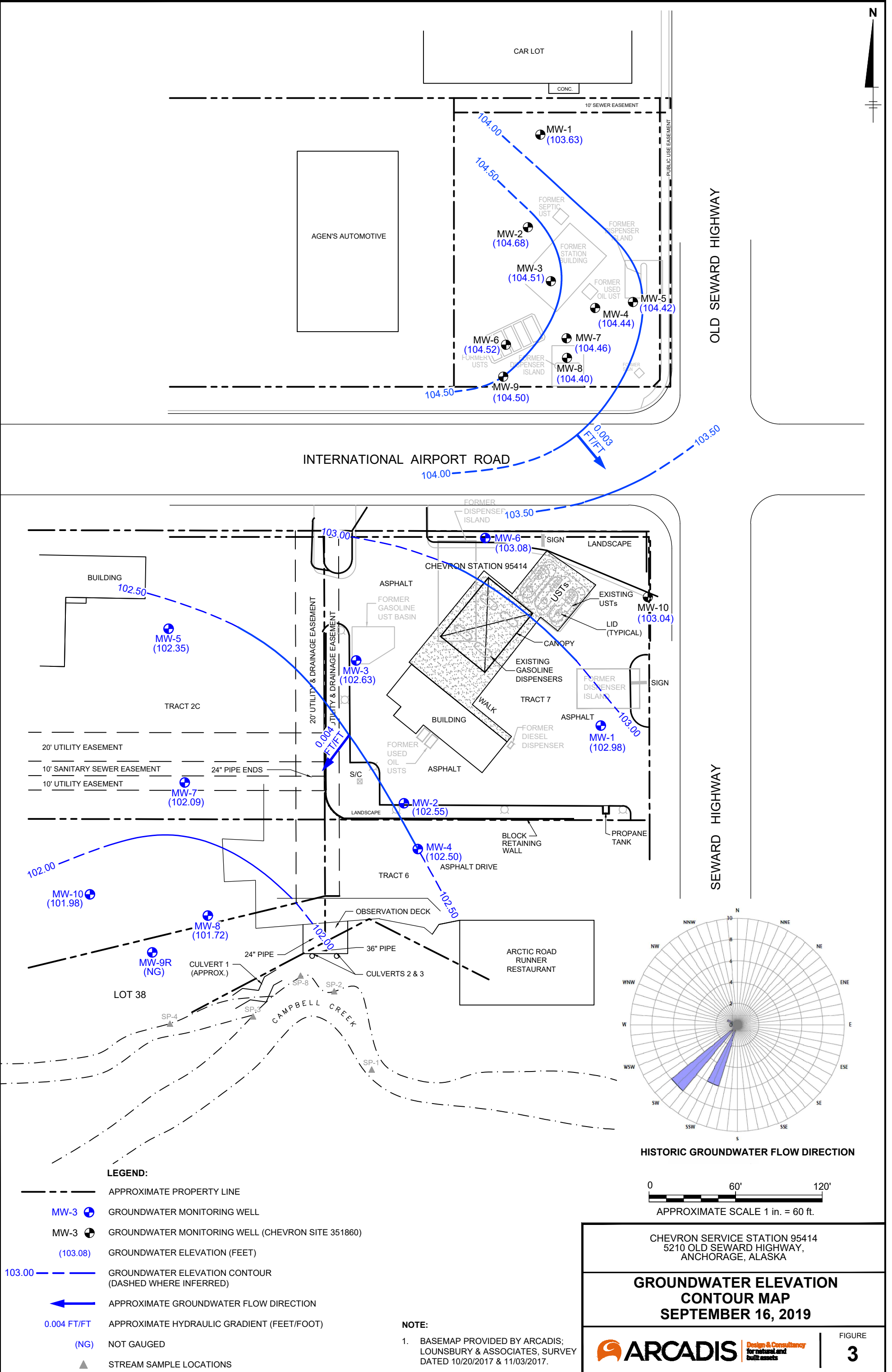
SOURCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., ANCHORAGE A-8 NW, ALASKA, 2019.

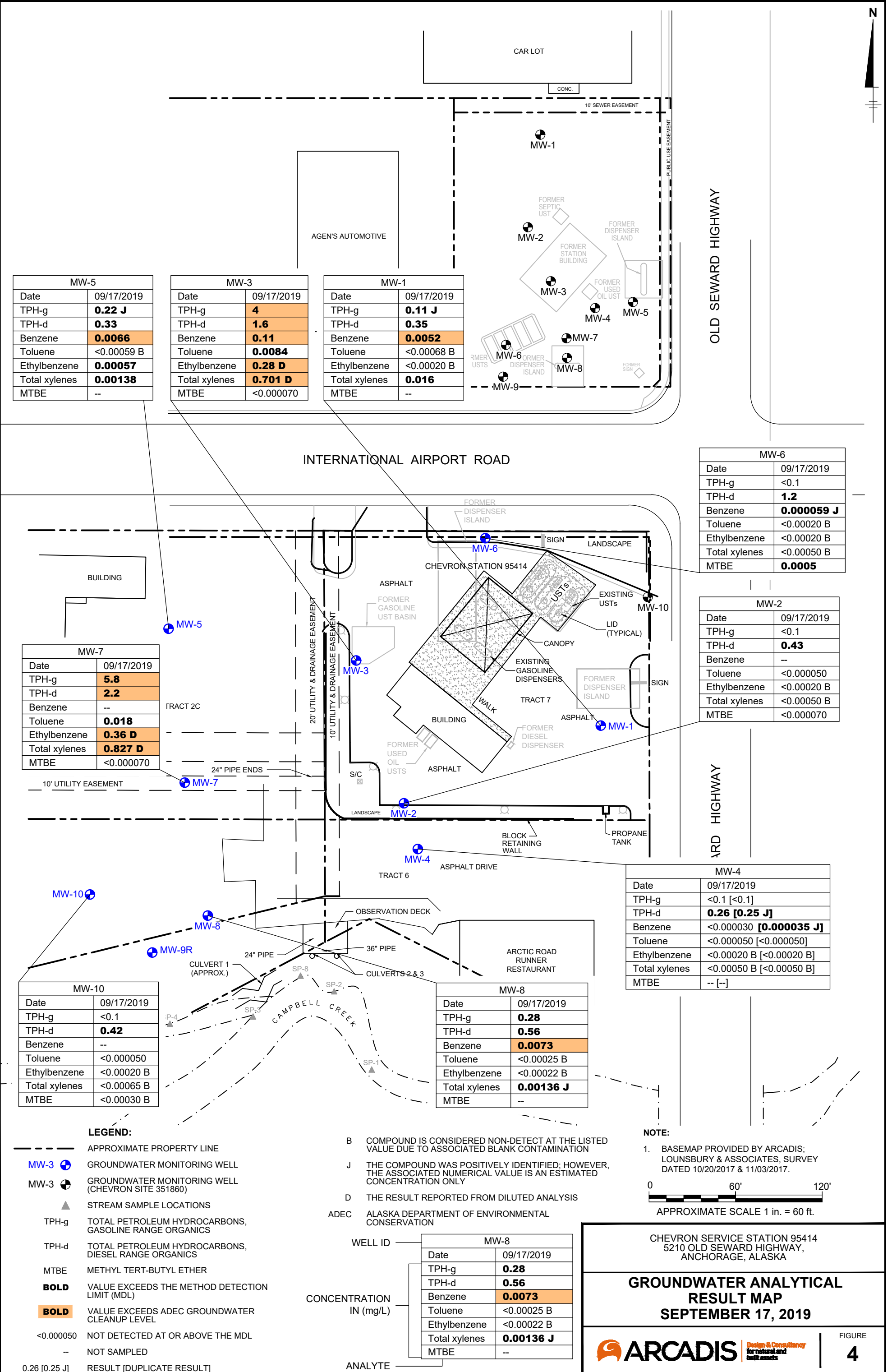


CHEVRON SERVICE STATION 95414 5210 OLD SEWARD HIGHWAY, ANCHORAGE, ALASKA	
<b>SITE LOCATION MAP</b>	
 <b>ARCADIS</b>	<i>Design &amp; Consultancy for natural and built assets</i>
FIGURE	<b>1</b>









MW-5	
Date	09/17/2019
TPH-g	<b>0.22 J</b>
TPH-d	<b>0.33</b>
Benzene	<b>0.0066</b>
Toluene	<0.00059 B
Ethylbenzene	<b>0.00057</b>
Total xylenes	<b>0.00138</b>
MTBE	--

MW-3	
Date	09/17/2019
TPH-g	<b>4</b>
TPH-d	<b>1.6</b>
Benzene	<b>0.11</b>
Toluene	<b>0.0084</b>
Ethylbenzene	<b>0.28 D</b>
Total xylenes	<b>0.701 D</b>
MTBE	<0.000070

MW-1	
Date	09/17/2019
TPH-g	<b>0.11 J</b>
TPH-d	<b>0.35</b>
Benzene	<b>0.0052</b>
Toluene	<0.00068 B
Ethylbenzene	<0.00020 B
Total xylenes	<b>0.016</b>
MTBE	--

MW-6	
Date	09/17/2019
TPH-g	<0.1
TPH-d	<b>1.2</b>
Benzene	<b>0.000059 J</b>
Toluene	<0.00020 B
Ethylbenzene	<0.00020 B
Total xylenes	<0.00050 B
MTBE	<b>0.0005</b>

MW-2	
Date	09/17/2019
TPH-g	<0.1
TPH-d	<b>0.43</b>
Benzene	--
Toluene	<0.000050
Ethylbenzene	<0.00020 B
Total xylenes	<0.00050 B
MTBE	<0.000070

MW-7	
Date	09/17/2019
TPH-g	<b>5.8</b>
TPH-d	<b>2.2</b>
Benzene	--
Toluene	<b>0.018</b>
Ethylbenzene	<b>0.36 D</b>
Total xylenes	<b>0.827 D</b>
MTBE	<0.000070

MW-4	
Date	09/17/2019
TPH-g	<0.1 [ <b>0.25 J</b> ]
TPH-d	<b>0.26 [0.25 J]</b>
Benzene	<0.000030 [ <b>0.000035 J</b> ]
Toluene	<0.000050 [ <b>&lt;0.000050</b> ]
Ethylbenzene	<0.00020 B [ <b>&lt;0.00020 B</b> ]
Total xylenes	<0.00050 B [ <b>&lt;0.00050 B</b> ]
MTBE	-- [--]

MW-10	
Date	09/17/2019
TPH-g	<0.1
TPH-d	<b>0.42</b>
Benzene	--
Toluene	<0.000050
Ethylbenzene	<0.00020 B
Total xylenes	<0.00065 B
MTBE	<0.00030 B

MW-8	
Date	09/17/2019
TPH-g	<b>0.28</b>
TPH-d	<b>0.56</b>
Benzene	<b>0.0073</b>
Toluene	<0.00025 B
Ethylbenzene	<0.00022 B
Total xylenes	<b>0.00136 J</b>
MTBE	--

**LEGEND:**

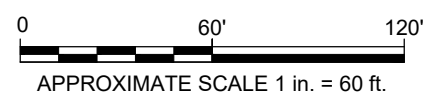
- APPROXIMATE PROPERTY LINE
- MW-3 (Blue circle with dot) GROUNDWATER MONITORING WELL
- MW-3 (Black circle with dot) GROUNDWATER MONITORING WELL (CHEVRON SITE 351860)
- ▲ STREAM SAMPLE LOCATIONS
- TPH-g TOTAL PETROLEUM HYDROCARBONS, GASOLINE RANGE ORGANICS
- TPH-d TOTAL PETROLEUM HYDROCARBONS, DIESEL RANGE ORGANICS
- MTBE METHYL TERT-BUTYL ETHER
- BOLD** VALUE EXCEEDS THE METHOD DETECTION LIMIT (MDL)
- BOLD** VALUE EXCEEDS ADEC GROUNDWATER CLEANUP LEVEL
- <0.000050 NOT DETECTED AT OR ABOVE THE MDL
- NOT SAMPLED
- 0.26 [0.25 J] RESULT [DUPLICATE RESULT]

- B COMPOUND IS CONSIDERED NON-DETECT AT THE LISTED VALUE DUE TO ASSOCIATED BLANK CONTAMINATION
- J THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER, THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY
- D THE RESULT REPORTED FROM DILUTED ANALYSIS
- ADEC ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

WELL ID	MW-8	
Date	09/17/2019	
TPH-g	<b>0.28</b>	
TPH-d	<b>0.56</b>	
Benzene	<b>0.0073</b>	
Toluene	<0.00025 B	
Ethylbenzene	<0.00022 B	
Total xylenes	<b>0.00136 J</b>	
MTBE	--	
ANALYTE		

**NOTE:**

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



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

**GROUNDWATER ANALYTICAL  
 RESULT MAP  
 SEPTEMBER 17, 2019**

**ARCADIS** Design & Consultancy  
for natural and built assets

FIGURE  
**4**

# APPENDIX A

## Site Background and History



**Chevron Environmental  
Management Company**

## **Appendix A:**

### **Site History and Background**

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

December 12, 2019

## Appendix A: 95414 Site Description and Background

# 1 95414 SITE BACKGROUND AND HISTORY

## 1.1 Site Description and Vicinity

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

## 1.2 Site History

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

# 2 SITE CHARACTERIZATION

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

# 3 CURRENT SITE MONITORING ACTIVITIES

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

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

# 4 GEOLOGY AND HYDROGEOLOGY

## 4.1 Site Hydrogeology

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

## 5 REFERENCES

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

# APPENDIX B

Field Data Sheets



# Daily Log

Project Name Campbell Creek Project Number 9544 Page 1 of     

Site Location S210 Old Seward Hwy Anchorage AK Date 9/16/19 + 9/17/19

Field Personnel D. Brudoin, Erin Wyeik  
2SA Fl GW sampling event

Time	Description of Activities				
9/16/19 1500	Arrive on site				
	Gauge wells				
	Well ID	PID	DTW	TD	notes
	MW-1	0.3	2.65'	13.76'	good
	MW-2	0.2	8.54'	16.25'	good
	MW-3	0.4	8.81'	18.20'	good
	MW-4	0.0	6.38'	17.93'	good
	MW-5	0.1	6.41'	15.5'	good
	MW-6	0.0	8.08'	16.30'	good
	MW-7	0.3	5.26'	11.7'	good
	MW-8	0.1	6.98'	12.25'	good
	MW-9R	NM	NM	NM	no access
	MW-10	0.0	7.19'	11.9'	good
1600	Depart site				
9/17/19 0900	Arrive on site				
	Sample wells				
	BD-1-W-190917 collected at MW-4				
	SP-4 sample not collected, the culvert no longer discharging water				
	BD-2-W-190917 collected at SP-1				



**GROUNDWATER SAMPLING FORM**



Project No. 95414 Well ID MW-3 Page 1 of 1  
 Project Name/Location 5210 Old Saward Hwy Anchorage AK Date 9.17.19  
 Measuring Pt. TOC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Weather Sunny  
 Static Water Level (ft-bmp) 8.81 Total Depth (ft-bmp) 18.20 Water Column (ft) 9.39 Gallons in Well 1.5  
 MP Elevation — Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 1540 / 1620 Volumes Purged — Centrifugal —  
 Sample Time: Label 1600 Gallons Purged 2800 Other Bladder Submersible —  
 Purge Start 1535 Replicate/Code No. — Sampled by DB  
 Purge End —

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	Odor
1540	5	200	8.86'	1000	6.47	1.70	494	0.89	11.77	-46	Clear	None
1543	8	200	8.88'	1600	6.49	1.69	298	0.57	11.75	-48	Clear	None
1546	11	200	8.86	2200	6.46	1.59	162	0.58	11.73	-48	Clear	None
1549	14	200	8.86	2800	6.46	1.57	89.3	0.56	11.69	-50	Clear	None

**Stabilization Calculations (±)**

**Stabilization Criteria**

± 0.1 s.u.	± 3%	± 10% or within 1 NTU of	± 10%	± 3%	± 10 mV
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(1) Turbidity ≤ 50 NTU and ± 10% or within 1 NTU of a previous reading when < 10 NTU

Constituents Sampled	Container	Number	Preservative
BTEX 8260	40mL VOA	3	HCl
GRD AK 101	40mL VOA	3	HCl
DRO AK 102	250mL Amber	2	HCl
VOC 8260	40mL VOA	3	HCl
EDB 123 TCP 8011	40mL VOA	2	Sodium thiosulfate

**Comments**

**Well Casing Volumes**

Gallons/Foot	1" = 0.04	1.5" = 0.08	2.5" = 0.26	3.5" = 0.60	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

**Well Information**

Well Location: <u>See site map</u>	Well Locked at Arrival: <u>Yes</u> / No
Condition of Well: <u>good</u>	Well Locked at Departure: <u>Yes</u> / No
Well Completion: <u>Flush Mount</u> / Stick Up	Key Number To Well: <u>3910</u>

**GROUNDWATER SAMPLING FORM**



Project No. 95414 Well ID MU-2  
 Project Name/Location 5210 old Seward Hwy Anchorage AK Date 9.17.19  
 Measuring Pt. TOC Screen Setting (ft-bmp) - Casing Diameter (in) 2 Weather sunny  
 Static Water Level (ft-bmp) 8.54 Total Depth (ft-bmp) 16.25 Water Column (ft) 7.71 Gallons in Well 1.23  
 MP Elevation - Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 1502/ Volumes Purged - Centrifugal - Submersible - Other Bladder  
 Sample Time: Label 1530 Purge Start 1502 Purge End - Gallons Purged 3400 Replicate/Code No. - Sampled by DB

Time	Minutes Elapsed	Rate (gpm)/(ft/min) 200mL/min	Depth to Water (ft)	Gallons Purged	pH	Cond. (µmhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (C/F) ± 5%	Redox (mV) ± 10mV	Appearance	
											Color	Odor
1507	5	200	8.61	1000	± 0.1 6.63	1.45	52.2	1.92	13.08	4	Clear	None
1510	8	200	8.64	1600	6.60	1.43	34.2	0.98	12.37	3	Clear	None
1513	11	200	8.61	2200	6.60	1.40	28.3	0.52	12.23	-2	Clear	None
1516	14	200		2800	6.61	1.39	30.0	0.48	12.19	-3	Clear	None
1519	17	200		3400	6.60	1.37	30.1	0.46	12.18	-3	Clear	None

**Stabilization Calculations (±)**

**Stabilization Criteria**

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

± 0.1 p.u.	± 3%	± 10% or within 1 NTU or	± 10%	± 5%	± 10 mV
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**Constituents Sampled**

**Container**

**Number**

**Preservative**

BTEX 8260	40 mL VOA	3	He1
GR0 AK 101	40 mL VOA	3	He1
DR0 AK 102	250 mL Amber	2	He1
VOC 8260	40 mL VOA	3	He1
EDB 123 TCP 8011	40 mL VOA	2	sodium thiosulfate

**Comments**

**Well Casing Volumes**

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: see site map  
 Condition of Well: good  
 Well Completion: Flush Mound / Stick Up  
 Well Locked at Arrival: Yes / No  
 Well Locked at Departure: Yes / No  
 Key Number To Well: 3210

**GROUNDWATER SAMPLING FORM**



Project No. 95414 Well ID MW-1 Page 1 of 1  
 Project Name/Location 5210 OH Seward Hwy Archway AK Date 7-17-19  
 Measuring Pt. Description TC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Weather Sunny  
 Static Water Level (ft-bmp) 7.65 Total Depth (ft-bmp) 13.7 Water Column (ft) 6.05 Gallons in Well 0.97  
 MP Elevation — Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 1433 Volumes Purged — Centrifugal — Submersible — Other Bladder  
 Sample Time: Label 1500 Purge Start — Purge End — Replicate/Code No. — Sampled by DB

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	Odor
1438	5	200	7.76'	1000	6.12	0.936	157	2.18	14.07	0	Clear	None
1441	8	200	7.72'	1600	6.13	0.943	16.4	1.51	13.90	-3	Clear	None
1444	11	200	7.74'	2200	6.10	0.944	0.0	1.46	13.85	-4	Clear	None
1447	14	200	7.74'	2900	6.07	0.945	0.0	1.42	13.82	-4	Clear	None

**Stabilization Calculations (±)**

**Stabilization Criteria**

±0.1 pH    ±3%    ±10% or within 1 (NTU)    ±10%    ±3%    ±10 mV

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

Constituents Sampled	Container	Number	Preservative
BTEX 9260	40mL VOA	3	HCl
GRV AK 101	40mL VOA	3	HCl
DRO AK 102	250mL Amber	2	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: see site map Well Locked at Arrival: Yes / No  
 Condition of Well: good Well Locked at Departure: Yes / No  
 Well Completion: Flush Mouth / Stick Up Key Number To Well: 3910

**GROUNDWATER SAMPLING FORM**



Project No. 95414 Well ID MW-6 Page 1 of 1  
 Project Name/Location 5210 Old Seward Hwy Anchorage AK Date 9-17-19  
 Measuring Pt. Description TOC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Weather Sunny  
 Static Water Level (ft-bmp) 8.08 Total Depth (ft-bmp) 16.3 Water Column (ft) 8.22 Gallons in Well 1.32  
 MP Elevation — Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 1400 Volumes Purged — Centrifugal —  
 Sample Time: Label 1420 mL Gallons Purged — Submersible —  
 Purge Start 1400 Other Bladder  
 Purge End — Replicate/Code No. — Sampled by DB

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) ± 5%	Redox (mV) ± 10mV	Appearance	
											Color	Odor
1405	5	8.32 <sup>200</sup>	8.32	1000	6.03	1.21	391	3.14	12.74	-16	Cloudy	None
1408	8	200	8.30	1600	6.05	1.21	387	3.15	12.61	-18	Cloudy	None
1411	11	200	8.30	2200	6.09	1.22	380	3.21	12.58	-20	Clearer	None
1414	14	200	8.31	2400	6.07	1.22	377	3.23	12.53	-21	Clear	None

**Stabilization Calculations (±)**

**Stabilization Criteria**

± 0.1 s.u.    ± 3%    ± 10% or within 1 NTU of    ± 10%    ± 5%    ± 10 mV

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

**Constituents Sampled**

**Container**

**Number**

**Preservative**

BTEX 8260	40mL VOA	3	HCl
CRD AK 101	40mL VOA	3	HCl
DRO AK 102	250mL Amber	2	HCl
VOC 8260	40mL VOA	3	HCl
EDB 123 TCP 8011	40mL VOA	2	sodium thioacetate

**Comments**

**Well Casing Volumes**

Gallons/Foot    1" = 0.04    1.5" = 0.09    2.5" = 0.26    3.5" = 0.60    6" = 1.47  
 1.25" = 0.06    2" = 0.16    3" = 0.37    4" = 0.65

**Well Information**

Well Location: see site plan 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: 5910

**GROUNDWATER SAMPLING FORM**



Project No. 95414 Well ID mw-5 Date 9.17.19 Page 1 of 1  
 Project Name/Location S210 Old Seward Hwy Anchorage AK Weather Sunny  
 Measuring Pt. Description TOC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Well Material  PVC  SS  
 Static Water Level (ft-bmp) 6.41 Total Depth (ft-bmp) 15.5 Water Column (ft) 9.09 Gallons in Well 1.45  
 MP Elevation — Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 1256/ Volumes Purged — Centrifugal — Submersible — Other Bladder  
 Sample Time: Label 1320 Purge Start 1256 Purge End — Gallons Purged 3400 Replicate/Code No. — Sampled by EW

Time	Minutes Elapsed	Rate (gpm)/(ft/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	Odor					
1301	5	200	6.49	1000	6.27	0.813	—	2.51	12.49	-26	Cloudy	None					
1304	8	200	6.50	1600	6.19	0.806	—	2.08	12.56	-29	Cloudy	None					
1307	11	200	6.48	2200	6.16	0.791	—	1.62	12.76	-29							
1310	14	200	6.51	2800	6.14	0.786	—	1.48	12.93	-29							
1313	17	200	6.50	3400	6.14	0.784	—	1.44	12.91	-29							
Stabilization Calculations (±)																	
Stabilization Criteria												± 0.1 p.u.	± 3%	± 10% or within 1 NTU	± 10%	± 3%	± 10 mV

(1) Turbidity < 5 NTU and ± 10% or within 1 NTU of a previous reading when < 10 NTU

Constituents Sampled	Container	Number	Preservative
BTEX 820	40ml VOA	3	HCl
GR0 AK 101	40ml VOA	3	HCl
DRO AK 102	250ml Amber	2	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: see site 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: 3910

**GROUNDWATER SAMPLING FORM**



Project No. 95414 Well ID mw-7 Page 1 of 1  
 Project Name/Location 5210 Old Seward Hwy Anchorage AK Date 9.17.19  
 Measuring Pt. Description TOC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Weather sunny  
 Static Water Level (ft-bmp) 5.26 Total Depth (ft-bmp) 11.7 Water Column (ft) 6.44 Gallons in Well 1.03  
 MP Elevation — Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 1223 / 1250 Volumes Purged — Centrifugal — Submersible — Other Bladder  
 Sample Time: Label 1245 Purge Start 1228 Purge End 1237 Gallons Purged 2800 Replicate/Code No. — Sampled by DB

Time	Minutes Elapsed	Rate (gpm)/(L/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 2%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)(°F) ± 2%	Redox (mV) ± 10mV	Appearance								
											Color	Odor							
1228	5	200	5.32	1000	6.16	1.28	—	1.47	11.71	-9	Brown	None							
1231	8	200	5.30	1600	6.13	1.29	—	1.55	11.79	-8	Cloudy	None							
1234	11	200	5.31	2200	6.13	1.29	—	1.36	11.85	-9	Clearer	None							
1237	14	200	5.30	2800	6.13	1.29	—	1.20	11.87	-11	Clear	None							
Stabilization Calculations (±)																			
Stabilization Criteria												± 0.1 s.u.	± 3%	± 10% or within 1 NTU (t)	± 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
RTEX 8260	40ml VOA	3	HCl
GRO AK 101	40ml VOA	3	HCl
DRO AK 102	250ml Amber	2	HCl
VOC 8260	40ml VOA	3	HCl
EDB 123 TCP 8011	40ml VOA	2	Sodium Phosphate

Comments \_\_\_\_\_

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.60	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: see site map 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: 3910

**GROUNDWATER SAMPLING FORM**



Project No. 95414 Well ID MW-10 Page 1 of 1  
 Project Name/Location 5210 Old Seward Hwy Anchorage AK Date 9.17.19  
 Measuring Pt. Description TOC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Weather Sunny  
 Static Water Level (ft-bmp) 7.19 Total Depth (ft-bmp) 11.9 Water Column (ft) 4.71 Gallons in Well 0.75  
 MP Elevation — Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 1136 / 1205 Volumes Purged — Centrifugal — Submersible — Other Bladder  
 Sample Time: Label 120 Purge Start 1141 Purge End 1153 ml Gallons Purged 3400 Replicate/Code No. — Well Material X PVC — SS  
 Sampled by BD

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	Odor
1141	5	200	7.29	1000	6.41	0.349	457	3.05	10.60	73	Cloudy	None
1144	8	200	7.31	1600	6.21	0.319	152	2.82	10.59	99	Clearer	None
1147	11	200	7.27	2200	6.08	0.305	25.4	2.78	10.75	129	Clear	None
1150	14	200	7.29	2800	6.05	0.305	24.9	2.64	10.80	133	Clear	None
1153	17	200	7.30	3400	6.02	0.305	22.9	2.59	10.78	135	Clear	None
Stabilization Calculations (t)												
Stabilization Criteria												

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

Constituents Sampled	Container	Number	Preservative
BTEX 4260	40 mL VOA	3	HCl
GRO AK 101	40 mL VOA	3	HCl
DRO AK 102	250 mL Amber	2	HCl
VOC 4260	40 mL VOA	3	HCl
EDB 123 TCP 8011	40 mL VOA	2	Sodium Thiosulfate

Comments

Well Casing Volumes	1" = 0.04	1.5" = 0.09	2.0" = 0.26	3.0" = 0.37	3.5" = 0.60	6" = 1.47
Gallons/foot	1.25" = 0.06	2" = 0.18				

**Well Information**

Well Location:	<u>see site map</u>	Well Locked at Arrival:	<u>Yes</u> / No
Condition of Well:	<u>good</u>	Well Locked at Departure:	<u>Yes</u> / No
Well Completion:	<u>Flush Mount / Stick Up</u>	Key Number To Well:	<u>3910</u>

**GROUNDWATER SAMPLING FORM**



Project No. 95414 Well ID MW-8 Page 1 of 1  
 Date 9-17-17  
 Project Name/Location 5210 Old saward Hwy Anchorage AK Weather Sunny  
 Measuring Pt. Description TOC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Well Material X PVC — SS  
 Static Water Level (ft-bmp) 6.98 Total Depth (ft-bmp) 12.25 Water Column (ft) 5.27 Gallons in Well 0.84  
 MP Elevation — Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 1022/1050 Volumes Purged — Centrifugal — Submersible — Other Bladder  
 Sample Time: Label 1050 Gallons Purged 3400 Replicate/ Code No. — Sampled by EW  
 Purge Start 1022  
 Purge End 1039

Time	Minutes Elapsed	Rate (gpm)(ft/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µS/cm)(µS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)(°F) ± 0.5%	Redox (mV) ± 10mV	Appearance								
											Color	Odor							
1027	5	200	7.01	1000	6.28	1.06	59.7	2.72	10.79	-17	Cloudy	dego							
1030	8	200	6.99	1100	6.22	1.05	0.0	1.93	10.61	-17	Clear	—							
1033	11	200	6.99	2200	6.22	1.04	5.7	1.50	10.61	-19	Clear	—							
1036	14	200	7.00	2800	6.23	1.04	0.0	1.60	10.59	-19	Clear	—							
1039	17	200	7.01	3400	6.23	1.04	0.0	1.57	10.59	-20	Clear	—							
Stabilization Calculations (±)																			
Stabilization Criteria												± 0.1 pH	± 3%	± 10% or within 1 NTU of	± 10%	± 5%	± 10 mV		

Le 1  
petro-  
hydro-  
carbon

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

Constituents Sampled	Container	Number	Preservative
BTEX 8260	40 ml VOA	3	HCl
GR0 AK 101	40 ml VOA	3	HCl
DR0 AK 102	250ml Amber	2	HCl

Comments \_\_\_\_\_

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.08	2.5" = 0.26	3.5" = 0.60	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: See site map 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: 3410



**GROUNDWATER SAMPLING FORM**



Project No. 95414 Well ID MW-4 Page 1 of 1  
 Date 9/17/19  
 Project Name/Location 5210 Old Seward Hwy Anchorage AK Weather Sunny  
 Measuring Pt. Description TOC Screen Setting (ft-bmp) — Casing Diameter (in.) 2 Well Material X PVC — SS  
 Static Water Level (ft-bmp) 6.38 Total Depth (ft-bmp) 17.93 Water Column (ft) 11.55 Gallons in Well 1.85  
 MP Elevation — Pump Intake (ft-bmp) ~2 Purge Method: Low Flow Sample Method Low Flow  
 Pump On/Off 0930/1000 Volumes Purged — Centrifugal — Submersible — Other Bladder  
 Sample Time: Label 0950 Purge Start 0933 Purge End 0942 ml Gallons Purged 2400 Replicate/Code No. PD-1-W-M0917 Sampled by DB

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	Odor					
0933	3	200	6.36	600	6.61	0.822	375	6.54	10.13	-86	Clear	None					
0936	6	200	6.38	1200	6.62	0.822	160	5.21	10.11	-86	Clear	None					
0939	9	200	6.39	1800	6.62	0.823	154	5.17	10.10	-87	Clear	None					
0942	12	200	6.38	2400	6.62	0.823	150	5.13	10.07	-88	Clear	None					
Stabilization Calculations (±)																	
Stabilization Criteria												± 0.1 pH	± 3%	± 10% or within 1 NTU	± 10%	± 3%	± 10 mV

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

Constituents Sampled	Container	Number	Preservative
BTEX § 260	40ml VOA	3	HCl
GR0 A# 101	40ml VOA	3	HCl
DRO A# 102	250ml Amber	2	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" = 0.76	3" = 0.37	4" = 0.65	

**Well Information**

Well Location: See side map 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: 3/10

**TestAmerica Anchorage**  
 2000 H. International Airport Road  
 Suite #10  
 Anchorage, AK 99502  
 Phone: 907.563.9200 Fax: 907.563.9210

**Chain of Custody Record**

243666

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING  
 TestAmerica Laboratories, Inc.  
 TAL-8210 (07/13)

Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact  
 Company Name: Aradis  
 Address: 111 SW Columbia St Suite 670  
 City/State/Zip: Portland OR, 97201  
 Phone: 503-226-5201  
 Fax: -

Project Name: Cassell Creek 95414  
 Site: 5210 OR Seward Hwy Anchorage AK  
 PO # 30010531

Project Manager: Nancy Moore  
 Tel/Fax: 503-285-444

Analysis Turnaround Time  
 CALENDAR DAYS  WORKING DAYS  
 TAT if different from Below Standard  
 2 weeks  
 1 week  
 2 days  
 1 day

Site Contact: Dwight Brundin Date: 9/17/19  
 Lab Contact: \_\_\_\_\_ Carrier: \_\_\_\_\_

COC No: 249686 of 2 COCs

Sampler: DR, E/W

For Lab Use Only:  
 Walk-in Client: \_\_\_\_\_  
 Lab Sampling: \_\_\_\_\_

Job / SDG No.: \_\_\_\_\_

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		Perform MS / MSD (Y/N)		Sample Specific Notes:
						Y	N	Y	N	
ERB-1-W-190917	9.17.19	0930	G	W	11	X		X		
MW-4-W-190917	9.17.19	0150	G	W	8	X		X		
MW-8-W-190917	9.17.19	1050	G	W	8	X		X		
SP-3-W-190917	9.17.19	1100	G	W	8	X		X		
SP-2-W-190917	9.17.19	1110	G	W	8	X		X		
SP-1-W-190917	9.17.19	1120	G	W	8	X		X		
MW-10-W-190917	9.17.19	1200	G	W	13	X		X		
MW-7-W-190917	9.17.19	1245	G	W	13	X		X		
MW-5-W-190917	9.17.19	1320	G	W	8	X		X		
MW-6-W-190917	9.17.19	1420	G	W	13	X		X		
MW-1-W-190917	9.17.19	1500	G	W	8	X		X		
MW-2-W-190917	9.17.19	1530	G	W	13	X		X		

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Special Instructions/QC Requirements & Comments:  
Type III Data Package

Custody Seal No.: \_\_\_\_\_  
 Company: Aradis  
 Date/Time: 9.18.19 0850

Relinquished by: [Signature]  
 Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Received by: [Signature]  
 Company: TA-AK  
 Date/Time: 9/18/19 8:50

Received by: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Received in Laboratory by: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Cooler Temp. (°C): Obs'd: 5.4 Therm ID No.: \_\_\_\_\_  
 Corr'd: 5.4

Regulatory Program:  DW  NPDES  RCRA  Other:

**Client Contact**  
 Company Name: *Arrows*  
 Address: *11151 Columbia St Suite 670*  
 City/State/Zip: *Bethel, AK 99220*  
 Phone: *507-270-5201*  
 Fax: \_\_\_\_\_  
 Project Name: *Cobell Creek 95414*  
 Site: *5210 Old Seard Hwy Anchorage AK*  
 P O #: *300 4531*

**Project Manager:** *Michelle Mowatt*  
 Tel/Fax: *503-785-9414*  
 Analysis Turnaround Time:  CALENDAR DAYS  WORKING DAYS  
 TAT if different from Below: *Standard*  
 2 weeks  
 1 week  
 2 days  
 1 day

**Site Contact:** *Paul Amato*  
**Lab Contact:** \_\_\_\_\_  
 Date: *7/10/19*  
 Carrier: \_\_\_\_\_  
 COC No.: *249684* of *2* COCs  
 Sampler: *DB, GW*  
**For Lab Use Only:**  
 Walk-in Client: \_\_\_\_\_  
 Lab Sampling: \_\_\_\_\_  
 Job / SDG No.: \_\_\_\_\_

Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Other
<i>AW-3-W-190917</i>	<i>7/17/19</i>	<i>1600</i>	<i>G</i>	<i>W</i>	<i>13</i>	<i>N</i>	<i>N</i>	<i>X</i>
<i>90-1-W-190917</i>	<i>9/17/19</i>	<i>—</i>	<i>G</i>	<i>W</i>	<i>8</i>	<i>N</i>	<i>N</i>	<i>X</i>
<i>130-2-W-190917</i>	<i>9/17/19</i>	<i>—</i>	<i>G</i>	<i>W</i>	<i>5</i>	<i>N</i>	<i>N</i>	<i>X</i>
<i>Trip blank</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>W</i>	<i>9</i>	<i>N</i>	<i>N</i>	<i>X</i>

**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other \_\_\_\_\_  
**Possible Hazard Identification:**  
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**  
*Type III Data Package*

**Custody Seal No.:** \_\_\_\_\_  
 Relinquished by: *5-219*  
 Relinquished by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_

**Company:** *Arrows*  
 Date/Time: *9/18/19 8:50*  
**Company:** *TA-AK*  
 Date/Time: \_\_\_\_\_  
**Company:** \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

**Therm ID No.:** \_\_\_\_\_  
 Cooler Temp. (°C): Obs'd: *5.4, 3.9*  
 Received by: \_\_\_\_\_  
 Received in Laboratory by: \_\_\_\_\_

# APPENDIX C

## Laboratory Analytical Reports and Chain of Custody Documentation



## ANALYTICAL REPORT

Job Number: 580-89287-1

Job Description: Chevron Site 95414 Anchorage, Alaska

For:  
ARCADIS U.S. Inc  
111 SW Columbia Street  
Suite 670  
Portland, OR 97201  
Attention: Daniel Morel



Approved for release.  
Elaine M Walker  
Project Manager II  
12/30/2019 4:37 PM

---

Elaine M Walker, Project Manager II  
5755 8th Street East, Tacoma, WA, 98424  
(253)248-4972  
elaine.walker@testamericainc.com  
12/30/2019  
Revision: 1

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The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

**Eurofins TestAmerica, Seattle**  
5755 8th Street East, Tacoma, WA 98424

Tel (253) 922-2310 Fax (253) 922-5047 [www.testamericainc.com](http://www.testamericainc.com)

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# Definitions/Glossary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

### GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

### GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

**CASE NARRATIVE**  
**Client: ARCADIS U.S. Inc.**  
**Project: Chevron Site 95414 Anchorage, Alaska**  
**Report Number: 580-89287-1**

**REVISION 1: DECEMBER 30, 2019**

This revision is to add missing 8260C Volatile Organic Compounds to the samples.

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

**RECEIPT**

Sixteen samples were received on 9/18/2019 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.9° C and 5.4° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

**VOLATILE ORGANIC COMPOUNDS (GC-MS)**

**Samples EQB-1-W-190917 (580-89287-1), MW-4-W-190917 (580-89287-2), MW-8-W-190917 (580-89287-3), SP-3-W-190917 (580-89287-4), SP-2-W-190917 (580-89287-5), SP-1-W-190917 (580-89287-6), MW-10-W-190917 (580-89287-7), MW-7-W-190917 (580-89287-8), MW-5-W-190917 (580-89287-9), MW-6-W-190917 (580-89287-10), MW-1-W-190917 (580-89287-11), MW-2-W-190917 (580-89287-12), MW-3-W-190917 (580-89287-13), BD-1-W-190917 (580-89287-14), BD-2-W-190917 (580-89287-15) and Trip Blank\_190917 (580-89287-16) were analyzed for volatile organic compounds (GC-MS) in accordance with 8260C. The samples were analyzed on 09/27/2019 and 09/28/2019.**

Bromochloromethane, Ethylbenzene, Methyl tert-butyl ether, n-Butylbenzene and t-Butylbenzene were detected in method blank MB 580-312585/7 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. The result concentrations were less than ½ the reporting limit, so corrective action was not performed.

Ethylbenzene, m-Xylene & p-Xylene, n-Butylbenzene, Styrene and t-Butylbenzene were detected in method blank MB 580-312662/7 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. The result concentrations were less than ½ the reporting limit, so corrective action was not performed.

1,2-Dichloroethane-d4 (Surr) failed the surrogate recovery criteria high for MW-6-W-190917 (580-89287-10). The surrogate is not chemically associated with the reported analytes.

1,2-Dichloroethane-d4 (Surr) failed the surrogate recovery criteria high for MB 580-312585/7. The surrogate recovery in the samples was within control limits, therefore, the samples were not reanalyzed.

The continuing calibration verification (CCV) associated with batch 580-312585 recovered above the upper control limit for Acetone, **1,2-Dichloroethane, 2-Butanone, and cis-1,3-Dichloropropene**. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The CCV for analytical batch 580-312585 recovered outside control limits for the following analyte(s): 2-Butanone (MEK). 2-Butanone (MEK) has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-312585 was outside criteria for the following analyte(s): 2-Butanone (MEK). As indicated in the reference method, sample analysis may proceed; however,

any detection or non-detection for the affected analyte(s) is considered estimated.

The CCV for analytical batch 580-312662 recovered outside control limits for the following analyte(s): Acetone. Acetone has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

1,1,1-Trichloroethane, Carbon tetrachloride and Trichlorofluoromethane failed the recovery criteria high for LCS 580-312662/4. 1,1,1-Trichloroethane and Trichlorofluoromethane failed the recovery criteria high for LCSD 580-312662/5. The analytes were biased high in the LCS/LCSD and the affected analytes were not reported in this batch.

Chloromethane, Trichlorofluoromethane, and **Vinyl Chloride** exceeded the RPD limit for LCSD 580-312585/5. The associated LCS and LCSD recoveries met acceptance limits.

The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-7-W-190917 (580-89287-8) and MW-3-W-190917 (580-89287-13). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **GASOLINE RANGE ORGANICS**

**Samples EQB-1-W-190917 (580-89287-1), MW-4-W-190917 (580-89287-2), MW-8-W-190917 (580-89287-3), SP-3-W-190917 (580-89287-4), SP-2-W-190917 (580-89287-5), SP-1-W-190917 (580-89287-6), MW-10-W-190917 (580-89287-7), MW-7-W-190917 (580-89287-8), MW-5-W-190917 (580-89287-9), MW-6-W-190917 (580-89287-10), MW-1-W-190917 (580-89287-11), MW-2-W-190917 (580-89287-12), MW-3-W-190917 (580-89287-13), BD-1-W-190917 (580-89287-14), BD-2-W-190917 (580-89287-15) and Trip Blank\_190917 (580-89287-16) were analyzed for gasoline range organics in accordance with State of Alaska Method AK101. The samples were analyzed on 09/20/2019 and 09/21/2019.**

4-Bromofluorobenzene (Surr) failed the surrogate recovery criteria high for MW-7-W-190917 (580-89287-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis were not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **1,2-DIBROMOETHANE AND 1,2-DIBROMO-3-CHLOROPROPANE BY MICROEXTRACTION AND GAS CHROMATOGRAPHY**

**Samples MW-10-W-190917 (580-89287-7), MW-7-W-190917 (580-89287-8), MW-6-W-190917 (580-89287-10), MW-2-W-190917 (580-89287-12) and MW-3-W-190917 (580-89287-13) were analyzed for 1,2-dibromoethane and 1,2-dibromo-3-chloropropane by microextraction and gas chromatography in accordance with EPA SW-846 Method 8011. The samples were prepared on 09/28/2019 and analyzed on 09/30/2019.**

1,2-Dibromopropane failed the surrogate recovery criteria high for MW-7-W-190917 (580-89287-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis were not performed.

The continuing calibration verification (CCV) associated with 580-312652 recovered high and outside the control limits for 1,2-Dibromo-3-Chloropropane and 1,2,3-Trichloropropane on one column. Results are confirmed on both columns and reported from the passing column. The following samples are impacted: MW-10-W-190917 (580-89287-7), MW-7-W-190917 (580-89287-8), MW-6-W-190917 (580-89287-10), MW-2-W-190917 (580-89287-12), MW-3-W-190917 (580-89287-13) and (CCV 580-312652/1-A).

Continuing calibration verification (CCV) standard associated with batch 580-312767 recovered outside %Drift acceptance criteria for surrogate 1,2-Dibromopropane. The %Recovery is within acceptance criteria for this surrogate in the CCV and associated samples; therefore, the data are qualified and reported. MW-10-W-190917 (580-89287-7), MW-7-W-190917 (580-89287-8), MW-6-W-190917 (580-89287-10), MW-2-W-190917 (580-89287-12), MW-3-W-190917 (580-89287-13), (CCV 580-312652/1-A) and (CCV 580-312652/2-A).

Ethylene Dibromide failed the recovery criteria high for LLCS 580-312652/6-A. The analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **DIESEL AND RESIDUAL RANGE ORGANICS**

**Samples EQB-1-W-190917 (580-89287-1), MW-4-W-190917 (580-89287-2), MW-8-W-190917 (580-89287-3), SP-3-W-190917 (580-89287-4), SP-2-W-190917 (580-89287-5), SP-1-W-190917 (580-89287-6), MW-10-W-190917 (580-89287-7), MW-7-W-190917 (580-89287-8), MW-5-W-190917 (580-89287-9), MW-6-W-190917 (580-89287-10), MW-1-W-190917 (580-89287-11), MW-2-W-190917 (580-89287-12), MW-3-W-190917 (580-89287-13), BD-1-W-190917 (580-89287-14) and BD-2-W-190917 (580-89287-15) were analyzed for diesel and residual range organics in accordance with State of Alaska Method AK102 and AK103. The samples were prepared on 09/29/2019 and analyzed on 09/29/2019 and 09/30/2019.**

Detected hydrocarbons appear to be due to biogenic interference. MW-4-W-190917 (580-89287-2), MW-8-W-190917 (580-89287-3), SP-3-W-190917 (580-89287-4), SP-2-W-190917 (580-89287-5), MW-10-W-190917 (580-89287-7), MW-5-W-190917 (580-89287-9), MW-1-W-190917 (580-89287-11), MW-2-W-190917 (580-89287-12) and BD-1-W-190917 (580-89287-14).

Detected hydrocarbons appear to be due to gasoline overlap. MW-7-W-190917 (580-89287-8) and MW-3-W-190917 (580-89287-13).

Detected hydrocarbons appear to be due to weathered diesel as well as oil overlap. MW-6-W-190917 (580-89287-10).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Client Sample ID: EQB-1-W-190917

## Lab Sample ID: 580-89287-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.051	J	0.20	0.043	ug/L	1		8260C	Total/NA
Chloroform	0.050	J	0.20	0.030	ug/L	1		8260C	Total/NA
Ethylbenzene	0.065	J B	0.20	0.030	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.15	J	0.50	0.12	ug/L	1		8260C	Total/NA
Styrene	0.22	J	0.50	0.19	ug/L	1		8260C	Total/NA
Toluene	0.54		0.20	0.050	ug/L	1		8260C	Total/NA
Acetone - RA	7.4		6.0	3.1	ug/L	1		8260C	Total/NA

## Client Sample ID: MW-4-W-190917

## Lab Sample ID: 580-89287-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.057	J B	0.20	0.030	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.13	J	0.50	0.12	ug/L	1		8260C	Total/NA
DRO (nC10-<nC25)	0.26		0.25	0.091	mg/L	1		AK102 & 103	Total/NA

## Client Sample ID: MW-8-W-190917

## Lab Sample ID: 580-89287-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.3		0.20	0.030	ug/L	1		8260C	Total/NA
Toluene	0.25		0.20	0.050	ug/L	1		8260C	Total/NA
Ethylbenzene	0.22	B	0.20	0.030	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	1.1		0.50	0.12	ug/L	1		8260C	Total/NA
o-Xylene	0.26	J	0.50	0.15	ug/L	1		8260C	Total/NA
Gasoline Range Organics (GRO) -C6-C10	0.28		0.25	0.10	mg/L	1		AK101	Total/NA
DRO (nC10-<nC25)	0.56		0.25	0.090	mg/L	1		AK102 & 103	Total/NA

## Client Sample ID: SP-3-W-190917

## Lab Sample ID: 580-89287-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.052	J B	0.20	0.030	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.12	J	0.50	0.12	ug/L	1		8260C	Total/NA
DRO (nC10-<nC25)	0.69		0.25	0.091	mg/L	1		AK102 & 103	Total/NA

## Client Sample ID: SP-2-W-190917

## Lab Sample ID: 580-89287-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.080	J B	0.20	0.030	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.19	J	0.50	0.12	ug/L	1		8260C	Total/NA
DRO (nC10-<nC25)	0.66		0.26	0.093	mg/L	1		AK102 & 103	Total/NA

## Client Sample ID: SP-1-W-190917

## Lab Sample ID: 580-89287-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.054	J B	0.20	0.030	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.12	J	0.50	0.12	ug/L	1		8260C	Total/NA

## Client Sample ID: MW-10-W-190917

## Lab Sample ID: 580-89287-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloropropene	0.089	J	0.20	0.036	ug/L	1		8260C	Total/NA
Dichlorodifluoromethane	0.21	J	0.40	0.13	ug/L	1		8260C	Total/NA
Ethylbenzene	0.053	J B	0.20	0.030	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	0.13	J B	0.30	0.070	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Client Sample ID: MW-10-W-190917 (Continued)

## Lab Sample ID: 580-89287-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.12	J	0.50	0.12	ug/L	1		8260C	Total/NA
Styrene	0.22	J	0.50	0.19	ug/L	1		8260C	Total/NA
DRO (nC10-<nC25)	0.42		0.25	0.092	mg/L	1		AK102 & 103	Total/NA

## Client Sample ID: MW-7-W-190917

## Lab Sample ID: 580-89287-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.3		0.20	0.043	ug/L	1		8260C	Total/NA
1,2-Dichloropropane	1.4		0.20	0.060	ug/L	1		8260C	Total/NA
1,3,5-Trimethylbenzene	19		0.50	0.15	ug/L	1		8260C	Total/NA
1,3-Dichloropropane	0.40		0.20	0.056	ug/L	1		8260C	Total/NA
4-Isopropyltoluene	4.8		0.30	0.050	ug/L	1		8260C	Total/NA
4-Methyl-2-pentanone	2.2	J	5.0	1.7	ug/L	1		8260C	Total/NA
Isopropylbenzene	6.9		1.0	0.19	ug/L	1		8260C	Total/NA
Naphthalene	79		1.0	0.22	ug/L	1		8260C	Total/NA
n-Butylbenzene	30	B	0.50	0.080	ug/L	1		8260C	Total/NA
N-Propylbenzene	5.7		0.30	0.091	ug/L	1		8260C	Total/NA
o-Xylene	17		0.50	0.15	ug/L	1		8260C	Total/NA
Styrene	0.25	J	0.50	0.19	ug/L	1		8260C	Total/NA
t-Butylbenzene	1.6	B	0.50	0.10	ug/L	1		8260C	Total/NA
Toluene	18		0.20	0.050	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene - DL	880		30	7.2	ug/L	100		8260C	Total/NA
Benzene - DL	190		20	3.0	ug/L	100		8260C	Total/NA
Ethylbenzene - DL	360	B	20	3.0	ug/L	100		8260C	Total/NA
m-Xylene & p-Xylene - DL	810	B	50	12	ug/L	100		8260C	Total/NA
Gasoline Range Organics (GRO)	5.8		0.25	0.10	mg/L	1		AK101	Total/NA
-C6-C10									
1,2,3-Trichloropropane	0.24		0.030	0.0079	ug/L	1		8011	Total/NA
DRO (nC10-<nC25)	2.2		0.27	0.096	mg/L	1		AK102 & 103	Total/NA

## Client Sample ID: MW-5-W-190917

## Lab Sample ID: 580-89287-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.6		0.20	0.030	ug/L	1		8260C	Total/NA
Toluene	0.59		0.20	0.050	ug/L	1		8260C	Total/NA
Ethylbenzene	0.57	B	0.20	0.030	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	22		0.50	0.12	ug/L	1		8260C	Total/NA
o-Xylene	0.81		0.50	0.15	ug/L	1		8260C	Total/NA
Gasoline Range Organics (GRO)	0.22	J	0.25	0.10	mg/L	1		AK101	Total/NA
-C6-C10									
DRO (nC10-<nC25)	0.33		0.25	0.092	mg/L	1		AK102 & 103	Total/NA

## Client Sample ID: MW-6-W-190917

## Lab Sample ID: 580-89287-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.11	J	0.30	0.072	ug/L	1		8260C	Total/NA
Benzene	0.059	J	0.20	0.030	ug/L	1		8260C	Total/NA
Ethylbenzene	0.077	J B	0.20	0.030	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	0.50	B	0.30	0.070	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.16	J	0.50	0.12	ug/L	1		8260C	Total/NA
n-Butylbenzene	0.12	J B	0.50	0.080	ug/L	1		8260C	Total/NA
N-Propylbenzene	0.096	J	0.30	0.091	ug/L	1		8260C	Total/NA
Styrene	0.22	J	0.50	0.19	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Client Sample ID: MW-6-W-190917 (Continued)

Lab Sample ID: 580-89287-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
t-Butylbenzene	0.13	J B	0.50	0.10	ug/L	1		8260C	Total/NA
Toluene	0.056	J	0.20	0.050	ug/L	1		8260C	Total/NA
Acetone - RA	3.7	J	6.0	3.1	ug/L	1		8260C	Total/NA
DRO (nC10-<nC25)	1.2		0.26	0.093	mg/L	1		AK102 & 103	Total/NA

## Client Sample ID: MW-1-W-190917

Lab Sample ID: 580-89287-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.2		0.20	0.030	ug/L	1		8260C	Total/NA
Toluene	0.68		0.20	0.050	ug/L	1		8260C	Total/NA
Ethylbenzene	0.15	J B	0.20	0.030	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	15		0.50	0.12	ug/L	1		8260C	Total/NA
o-Xylene	1.0		0.50	0.15	ug/L	1		8260C	Total/NA
Gasoline Range Organics (GRO) -C6-C10	0.11	J	0.25	0.10	mg/L	1		AK101	Total/NA
DRO (nC10-<nC25)	0.35		0.26	0.093	mg/L	1		AK102 & 103	Total/NA

## Client Sample ID: MW-2-W-190917

Lab Sample ID: 580-89287-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.58		0.20	0.043	ug/L	1		8260C	Total/NA
Dichlorodifluoromethane	0.52		0.40	0.13	ug/L	1		8260C	Total/NA
Ethylbenzene	0.061	J B	0.20	0.030	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.16	J	0.50	0.12	ug/L	1		8260C	Total/NA
t-Butylbenzene	0.14	J B	0.50	0.10	ug/L	1		8260C	Total/NA
DRO (nC10-<nC25)	0.43		0.25	0.091	mg/L	1		AK102 & 103	Total/NA

## Client Sample ID: MW-3-W-190917

Lab Sample ID: 580-89287-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.1		0.20	0.043	ug/L	1		8260C	Total/NA
1,3-Dichloropropane	0.19	J	0.20	0.056	ug/L	1		8260C	Total/NA
4-Isopropyltoluene	2.6		0.30	0.050	ug/L	1		8260C	Total/NA
Carbon disulfide	0.18	J	0.30	0.083	ug/L	1		8260C	Total/NA
Isopropylbenzene	23		1.0	0.19	ug/L	1		8260C	Total/NA
n-Butylbenzene	40	B	0.50	0.080	ug/L	1		8260C	Total/NA
o-Xylene	11		0.50	0.15	ug/L	1		8260C	Total/NA
Styrene	0.27	J	0.50	0.19	ug/L	1		8260C	Total/NA
t-Butylbenzene	1.2	B	0.50	0.10	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.35	J	0.50	0.084	ug/L	1		8260C	Total/NA
Toluene	8.4		0.20	0.050	ug/L	1		8260C	Total/NA
Trichlorofluoromethane	13	*	0.50	0.11	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene - DL	490		30	7.2	ug/L	100		8260C	Total/NA
1,3,5-Trimethylbenzene - DL	98		50	15	ug/L	100		8260C	Total/NA
Benzene - DL	110		20	3.0	ug/L	100		8260C	Total/NA
Ethylbenzene - DL	280	B	20	3.0	ug/L	100		8260C	Total/NA
m-Xylene & p-Xylene - DL	690	B	50	12	ug/L	100		8260C	Total/NA
Naphthalene - DL	90	J	100	22	ug/L	100		8260C	Total/NA
N-Propylbenzene - DL	49		30	9.1	ug/L	100		8260C	Total/NA
Gasoline Range Organics (GRO) -C6-C10	4.0		0.25	0.10	mg/L	1		AK101	Total/NA
1,2,3-Trichloropropane	0.078		0.029	0.0079	ug/L	1		8011	Total/NA
DRO (nC10-<nC25)	1.6		0.25	0.091	mg/L	1		AK102 & 103	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Seattle

# Detection Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Client Sample ID: BD-1-W-190917

## Lab Sample ID: 580-89287-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.035	J	0.20	0.030	ug/L	1		8260C	Total/NA
Ethylbenzene	0.18	J B	0.20	0.030	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.46	J	0.50	0.12	ug/L	1		8260C	Total/NA
DRO (nC10-<nC25)	0.25	J	0.26	0.092	mg/L	1		AK102 & 103	Total/NA

## Client Sample ID: BD-2-W-190917

## Lab Sample ID: 580-89287-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.056	J B	0.20	0.030	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.13	J	0.50	0.12	ug/L	1		8260C	Total/NA

## Client Sample ID: Trip Blank\_190917

## Lab Sample ID: 580-89287-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.059	J B	0.20	0.030	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.13	J	0.50	0.12	ug/L	1		8260C	Total/NA
Toluene	0.056	J	0.20	0.050	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.



# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: EQB-1-W-190917**

**Lab Sample ID: 580-89287-1**

**Date Collected: 09/17/19 09:30**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			09/27/19 20:34	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			09/27/19 20:34	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			09/27/19 20:34	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			09/27/19 20:34	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			09/27/19 20:34	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			09/27/19 20:34	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			09/27/19 20:34	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			09/27/19 20:34	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			09/27/19 20:34	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			09/27/19 20:34	1
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			09/27/19 20:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			09/27/19 20:34	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			09/27/19 20:34	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			09/27/19 20:34	1
<b>1,2-Dichloroethane</b>	<b>0.051</b>	<b>J</b>	0.20	0.043	ug/L			09/27/19 20:34	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			09/27/19 20:34	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			09/27/19 20:34	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			09/27/19 20:34	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			09/27/19 20:34	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			09/27/19 20:34	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			09/27/19 20:34	1
2-Butanone	ND		10	2.5	ug/L			09/27/19 20:34	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			09/27/19 20:34	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			09/27/19 20:34	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			09/27/19 20:34	1
4-Methyl-2-pentanone	ND		5.0	1.7	ug/L			09/27/19 20:34	1
Benzene	ND		0.20	0.030	ug/L			09/27/19 20:34	1
Bromobenzene	ND		0.20	0.035	ug/L			09/27/19 20:34	1
Bromochloromethane	ND		0.20	0.025	ug/L			09/27/19 20:34	1
Bromodichloromethane	ND		0.20	0.060	ug/L			09/27/19 20:34	1
Bromoform	ND		0.50	0.16	ug/L			09/27/19 20:34	1
Bromomethane	ND		0.50	0.16	ug/L			09/27/19 20:34	1
Carbon disulfide	ND		0.30	0.083	ug/L			09/27/19 20:34	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			09/27/19 20:34	1
Chlorobenzene	ND		0.20	0.025	ug/L			09/27/19 20:34	1
Chloroethane	ND		0.50	0.096	ug/L			09/27/19 20:34	1
<b>Chloroform</b>	<b>0.050</b>	<b>J</b>	0.20	0.030	ug/L			09/27/19 20:34	1
Chloromethane	ND	*	0.50	0.15	ug/L			09/27/19 20:34	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			09/27/19 20:34	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			09/27/19 20:34	1
Dibromochloromethane	ND		0.20	0.055	ug/L			09/27/19 20:34	1
Dibromomethane	ND		0.20	0.062	ug/L			09/27/19 20:34	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			09/27/19 20:34	1
<b>Ethylbenzene</b>	<b>0.065</b>	<b>J B</b>	0.20	0.030	ug/L			09/27/19 20:34	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			09/27/19 20:34	1
Isopropylbenzene	ND		1.0	0.19	ug/L			09/27/19 20:34	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			09/27/19 20:34	1
Methylene Chloride	ND		5.0	0.74	ug/L			09/27/19 20:34	1
<b>m-Xylene &amp; p-Xylene</b>	<b>0.15</b>	<b>J</b>	0.50	0.12	ug/L			09/27/19 20:34	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: EQB-1-W-190917**

**Lab Sample ID: 580-89287-1**

**Date Collected: 09/17/19 09:30**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

**Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.22	ug/L			09/27/19 20:34	1
n-Butylbenzene	ND		0.50	0.080	ug/L			09/27/19 20:34	1
N-Propylbenzene	ND		0.30	0.091	ug/L			09/27/19 20:34	1
o-Xylene	ND		0.50	0.15	ug/L			09/27/19 20:34	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			09/27/19 20:34	1
<b>Styrene</b>	<b>0.22</b>	<b>J</b>	0.50	0.19	ug/L			09/27/19 20:34	1
t-Butylbenzene	ND		0.50	0.10	ug/L			09/27/19 20:34	1
Tetrachloroethene	ND		0.50	0.084	ug/L			09/27/19 20:34	1
<b>Toluene</b>	<b>0.54</b>		0.20	0.050	ug/L			09/27/19 20:34	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			09/27/19 20:34	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			09/27/19 20:34	1
Trichloroethene	ND		0.20	0.066	ug/L			09/27/19 20:34	1
Trichlorofluoromethane	ND	*	0.50	0.11	ug/L			09/27/19 20:34	1
Vinyl chloride	ND	*	0.020	0.013	ug/L			09/27/19 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	92		80 - 120		09/27/19 20:34	1
Toluene-d8 (Surr)	97		80 - 120		09/27/19 20:34	1
1,2-Dichloroethane-d4 (Surr)	115		80 - 120		09/27/19 20:34	1
4-Bromofluorobenzene (Surr)	106		80 - 120		09/27/19 20:34	1
Dibromofluoromethane (Surr)	107		80 - 120		09/27/19 20:34	1

**Method: 8260C - Volatile Organic Compounds (GC/MS) - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>7.4</b>		6.0	3.1	ug/L			09/28/19 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	93		80 - 120		09/28/19 18:43	1
Toluene-d8 (Surr)	98		80 - 120		09/28/19 18:43	1
1,2-Dichloroethane-d4 (Surr)	119		80 - 120		09/28/19 18:43	1
4-Bromofluorobenzene (Surr)	112		80 - 120		09/28/19 18:43	1
Dibromofluoromethane (Surr)	116		80 - 120		09/28/19 18:43	1

**Method: AK101 - Alaska - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/20/19 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	118		50 - 150		09/20/19 16:07	1
4-Bromofluorobenzene (Surr)	97		50 - 150		09/20/19 16:07	1

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.25	0.091	mg/L		09/29/19 12:37	09/29/19 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150	09/29/19 12:37	09/29/19 20:04	1
n-Triacontane-d62	90		50 - 150	09/29/19 12:37	09/29/19 20:04	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: MW-4-W-190917**

**Lab Sample ID: 580-89287-2**

Date Collected: 09/17/19 09:50

Matrix: Water

Date Received: 09/18/19 08:50

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.030	ug/L			09/27/19 21:00	1
Toluene	ND		0.20	0.050	ug/L			09/27/19 21:00	1
<b>Ethylbenzene</b>	<b>0.057</b>	<b>J B</b>	0.20	0.030	ug/L			09/27/19 21:00	1
<b>m-Xylene &amp; p-Xylene</b>	<b>0.13</b>	<b>J</b>	0.50	0.12	ug/L			09/27/19 21:00	1
o-Xylene	ND		0.50	0.15	ug/L			09/27/19 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	89		80 - 120		09/27/19 21:00	1
Toluene-d8 (Surr)	97		80 - 120		09/27/19 21:00	1
1,2-Dichloroethane-d4 (Surr)	116		80 - 120		09/27/19 21:00	1
4-Bromofluorobenzene (Surr)	107		80 - 120		09/27/19 21:00	1
Dibromofluoromethane (Surr)	101		80 - 120		09/27/19 21:00	1

**Method: AK101 - Alaska - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/20/19 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	102		50 - 150		09/20/19 16:12	1
4-Bromofluorobenzene (Surr)	95		50 - 150		09/20/19 16:12	1

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>DRO (nC10-&lt;nC25)</b>	<b>0.26</b>		0.25	0.091	mg/L		09/29/19 12:37	09/29/19 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150	09/29/19 12:37	09/29/19 20:23	1
n-Triacontane-d62	92		50 - 150	09/29/19 12:37	09/29/19 20:23	1

**Client Sample ID: MW-8-W-190917**

**Lab Sample ID: 580-89287-3**

Date Collected: 09/17/19 10:50

Matrix: Water

Date Received: 09/18/19 08:50

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>7.3</b>		0.20	0.030	ug/L			09/27/19 21:27	1
<b>Toluene</b>	<b>0.25</b>		0.20	0.050	ug/L			09/27/19 21:27	1
<b>Ethylbenzene</b>	<b>0.22</b>	<b>B</b>	0.20	0.030	ug/L			09/27/19 21:27	1
<b>m-Xylene &amp; p-Xylene</b>	<b>1.1</b>		0.50	0.12	ug/L			09/27/19 21:27	1
<b>o-Xylene</b>	<b>0.26</b>	<b>J</b>	0.50	0.15	ug/L			09/27/19 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	87		80 - 120		09/27/19 21:27	1
Toluene-d8 (Surr)	95		80 - 120		09/27/19 21:27	1
1,2-Dichloroethane-d4 (Surr)	120		80 - 120		09/27/19 21:27	1
4-Bromofluorobenzene (Surr)	108		80 - 120		09/27/19 21:27	1
Dibromofluoromethane (Surr)	103		80 - 120		09/27/19 21:27	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: MW-8-W-190917**

**Lab Sample ID: 580-89287-3**

Date Collected: 09/17/19 10:50

Matrix: Water

Date Received: 09/18/19 08:50

**Method: AK101 - Alaska - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.28		0.25	0.10	mg/L			09/20/19 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	101		50 - 150					09/20/19 16:37	1
4-Bromofluorobenzene (Surr)	96		50 - 150					09/20/19 16:37	1

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.56		0.25	0.090	mg/L		09/29/19 12:37	09/29/19 20:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	88		50 - 150				09/29/19 12:37	09/29/19 20:42	1
n-Triacontane-d62	93		50 - 150				09/29/19 12:37	09/29/19 20:42	1

**Client Sample ID: SP-3-W-190917**

**Lab Sample ID: 580-89287-4**

Date Collected: 09/17/19 11:00

Matrix: Water

Date Received: 09/18/19 08:50

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.030	ug/L			09/27/19 21:54	1
Toluene	ND		0.20	0.050	ug/L			09/27/19 21:54	1
Ethylbenzene	0.052	J B	0.20	0.030	ug/L			09/27/19 21:54	1
m-Xylene & p-Xylene	0.12	J	0.50	0.12	ug/L			09/27/19 21:54	1
o-Xylene	ND		0.50	0.15	ug/L			09/27/19 21:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	92		80 - 120					09/27/19 21:54	1
Toluene-d8 (Surr)	98		80 - 120					09/27/19 21:54	1
1,2-Dichloroethane-d4 (Surr)	116		80 - 120					09/27/19 21:54	1
4-Bromofluorobenzene (Surr)	105		80 - 120					09/27/19 21:54	1
Dibromofluoromethane (Surr)	110		80 - 120					09/27/19 21:54	1

**Method: AK101 - Alaska - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/20/19 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	98		50 - 150					09/20/19 17:01	1
4-Bromofluorobenzene (Surr)	92		50 - 150					09/20/19 17:01	1

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.69		0.25	0.091	mg/L		09/29/19 12:37	09/29/19 21:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	100		50 - 150				09/29/19 12:37	09/29/19 21:01	1
n-Triacontane-d62	104		50 - 150				09/29/19 12:37	09/29/19 21:01	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: SP-2-W-190917**

**Lab Sample ID: 580-89287-5**

Date Collected: 09/17/19 11:10

Matrix: Water

Date Received: 09/18/19 08:50

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.030	ug/L			09/27/19 22:20	1
Toluene	ND		0.20	0.050	ug/L			09/27/19 22:20	1
<b>Ethylbenzene</b>	<b>0.080</b>	<b>J B</b>	0.20	0.030	ug/L			09/27/19 22:20	1
<b>m-Xylene &amp; p-Xylene</b>	<b>0.19</b>	<b>J</b>	0.50	0.12	ug/L			09/27/19 22:20	1
o-Xylene	ND		0.50	0.15	ug/L			09/27/19 22:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	92		80 - 120		09/27/19 22:20	1
Toluene-d8 (Surr)	99		80 - 120		09/27/19 22:20	1
1,2-Dichloroethane-d4 (Surr)	117		80 - 120		09/27/19 22:20	1
4-Bromofluorobenzene (Surr)	106		80 - 120		09/27/19 22:20	1
Dibromofluoromethane (Surr)	112		80 - 120		09/27/19 22:20	1

**Method: AK101 - Alaska - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/20/19 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	117		50 - 150		09/20/19 20:10	1
4-Bromofluorobenzene (Surr)	98		50 - 150		09/20/19 20:10	1

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>DRO (nC10-&lt;nC25)</b>	<b>0.66</b>		0.26	0.093	mg/L		09/29/19 12:37	09/29/19 21:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150	09/29/19 12:37	09/29/19 21:20	1
n-Triacontane-d62	92		50 - 150	09/29/19 12:37	09/29/19 21:20	1

**Client Sample ID: SP-1-W-190917**

**Lab Sample ID: 580-89287-6**

Date Collected: 09/17/19 11:20

Matrix: Water

Date Received: 09/18/19 08:50

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.030	ug/L			09/27/19 22:47	1
Toluene	ND		0.20	0.050	ug/L			09/27/19 22:47	1
<b>Ethylbenzene</b>	<b>0.054</b>	<b>J B</b>	0.20	0.030	ug/L			09/27/19 22:47	1
<b>m-Xylene &amp; p-Xylene</b>	<b>0.12</b>	<b>J</b>	0.50	0.12	ug/L			09/27/19 22:47	1
o-Xylene	ND		0.50	0.15	ug/L			09/27/19 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	89		80 - 120		09/27/19 22:47	1
Toluene-d8 (Surr)	95		80 - 120		09/27/19 22:47	1
1,2-Dichloroethane-d4 (Surr)	118		80 - 120		09/27/19 22:47	1
4-Bromofluorobenzene (Surr)	105		80 - 120		09/27/19 22:47	1
Dibromofluoromethane (Surr)	117		80 - 120		09/27/19 22:47	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: SP-1-W-190917**

**Lab Sample ID: 580-89287-6**

**Date Collected: 09/17/19 11:20**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

**Method: AK101 - Alaska - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/20/19 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	114		50 - 150					09/20/19 20:41	1
4-Bromofluorobenzene (Surr)	91		50 - 150					09/20/19 20:41	1

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.27	0.098	mg/L		09/29/19 12:37	09/29/19 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150				09/29/19 12:37	09/29/19 21:40	1
n-Triacontane-d62	93		50 - 150				09/29/19 12:37	09/29/19 21:40	1

**Client Sample ID: MW-10-W-190917**

**Lab Sample ID: 580-89287-7**

**Date Collected: 09/17/19 12:00**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			09/27/19 23:13	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			09/27/19 23:13	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			09/27/19 23:13	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			09/27/19 23:13	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			09/27/19 23:13	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			09/27/19 23:13	1
<b>1,1-Dichloropropene</b>	<b>0.089</b>	<b>J</b>	0.20	0.036	ug/L			09/27/19 23:13	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			09/27/19 23:13	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			09/27/19 23:13	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			09/27/19 23:13	1
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			09/27/19 23:13	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			09/27/19 23:13	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			09/27/19 23:13	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			09/27/19 23:13	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			09/27/19 23:13	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			09/27/19 23:13	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			09/27/19 23:13	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			09/27/19 23:13	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			09/27/19 23:13	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			09/27/19 23:13	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			09/27/19 23:13	1
2-Butanone	ND		10	2.5	ug/L			09/27/19 23:13	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			09/27/19 23:13	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			09/27/19 23:13	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			09/27/19 23:13	1
4-Methyl-2-pentanone	ND		5.0	1.7	ug/L			09/27/19 23:13	1
Acetone	ND		6.0	3.1	ug/L			09/27/19 23:13	1
Benzene	ND		0.20	0.030	ug/L			09/27/19 23:13	1
Bromobenzene	ND		0.20	0.035	ug/L			09/27/19 23:13	1
Bromochloromethane	ND		0.20	0.025	ug/L			09/27/19 23:13	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: MW-10-W-190917**

**Lab Sample ID: 580-89287-7**

**Date Collected: 09/17/19 12:00**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

**Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		0.20	0.060	ug/L			09/27/19 23:13	1
Bromoform	ND		0.50	0.16	ug/L			09/27/19 23:13	1
Bromomethane	ND		0.50	0.16	ug/L			09/27/19 23:13	1
Carbon disulfide	ND		0.30	0.083	ug/L			09/27/19 23:13	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			09/27/19 23:13	1
Chlorobenzene	ND		0.20	0.025	ug/L			09/27/19 23:13	1
Chloroethane	ND		0.50	0.096	ug/L			09/27/19 23:13	1
Chloroform	ND		0.20	0.030	ug/L			09/27/19 23:13	1
Chloromethane	ND	*	0.50	0.15	ug/L			09/27/19 23:13	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			09/27/19 23:13	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			09/27/19 23:13	1
Dibromochloromethane	ND		0.20	0.055	ug/L			09/27/19 23:13	1
Dibromomethane	ND		0.20	0.062	ug/L			09/27/19 23:13	1
<b>Dichlorodifluoromethane</b>	<b>0.21</b>	<b>J</b>	0.40	0.13	ug/L			09/27/19 23:13	1
<b>Ethylbenzene</b>	<b>0.053</b>	<b>J B</b>	0.20	0.030	ug/L			09/27/19 23:13	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			09/27/19 23:13	1
Isopropylbenzene	ND		1.0	0.19	ug/L			09/27/19 23:13	1
<b>Methyl tert-butyl ether</b>	<b>0.13</b>	<b>J B</b>	0.30	0.070	ug/L			09/27/19 23:13	1
Methylene Chloride	ND		5.0	0.74	ug/L			09/27/19 23:13	1
<b>m-Xylene &amp; p-Xylene</b>	<b>0.12</b>	<b>J</b>	0.50	0.12	ug/L			09/27/19 23:13	1
Naphthalene	ND		1.0	0.22	ug/L			09/27/19 23:13	1
n-Butylbenzene	ND		0.50	0.080	ug/L			09/27/19 23:13	1
N-Propylbenzene	ND		0.30	0.091	ug/L			09/27/19 23:13	1
o-Xylene	ND		0.50	0.15	ug/L			09/27/19 23:13	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			09/27/19 23:13	1
<b>Styrene</b>	<b>0.22</b>	<b>J</b>	0.50	0.19	ug/L			09/27/19 23:13	1
t-Butylbenzene	ND		0.50	0.10	ug/L			09/27/19 23:13	1
Tetrachloroethene	ND		0.50	0.084	ug/L			09/27/19 23:13	1
Toluene	ND		0.20	0.050	ug/L			09/27/19 23:13	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			09/27/19 23:13	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			09/27/19 23:13	1
Trichloroethene	ND		0.20	0.066	ug/L			09/27/19 23:13	1
Trichlorofluoromethane	ND	*	0.50	0.11	ug/L			09/27/19 23:13	1
Vinyl chloride	ND	*	0.020	0.013	ug/L			09/27/19 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	96		80 - 120		09/27/19 23:13	1
Toluene-d8 (Surr)	98		80 - 120		09/27/19 23:13	1
1,2-Dichloroethane-d4 (Surr)	116		80 - 120		09/27/19 23:13	1
4-Bromofluorobenzene (Surr)	103		80 - 120		09/27/19 23:13	1
Dibromofluoromethane (Surr)	104		80 - 120		09/27/19 23:13	1

**Method: AK101 - Alaska - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/20/19 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	114		50 - 150		09/20/19 21:11	1
4-Bromofluorobenzene (Surr)	97		50 - 150		09/20/19 21:11	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: MW-10-W-190917**

**Lab Sample ID: 580-89287-7**

Date Collected: 09/17/19 12:00

Matrix: Water

Date Received: 09/18/19 08:50

**Method: 8011 - EDB and DBCP in Water by Microextraction**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.030	0.0079	ug/L		09/28/19 15:57	09/30/19 19:06	1
Ethylene Dibromide	ND	*	0.0099	0.0020	ug/L		09/28/19 15:57	09/30/19 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	113		60 - 140				09/28/19 15:57	09/30/19 19:06	1

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>DRO (nC10-&lt;nC25)</b>	<b>0.42</b>		0.25	0.092	mg/L		09/29/19 12:37	09/29/19 21:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	85		50 - 150				09/29/19 12:37	09/29/19 21:59	1
<i>n</i> -Triacontane-d62	89		50 - 150				09/29/19 12:37	09/29/19 21:59	1

**Client Sample ID: MW-7-W-190917**

**Lab Sample ID: 580-89287-8**

Date Collected: 09/17/19 12:45

Matrix: Water

Date Received: 09/18/19 08:50

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			09/28/19 02:19	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			09/28/19 02:19	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			09/28/19 02:19	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			09/28/19 02:19	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			09/28/19 02:19	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			09/28/19 02:19	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			09/28/19 02:19	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			09/28/19 02:19	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			09/28/19 02:19	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			09/28/19 02:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			09/28/19 02:19	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			09/28/19 02:19	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			09/28/19 02:19	1
<b>1,2-Dichloroethane</b>	<b>1.3</b>		0.20	0.043	ug/L			09/28/19 02:19	1
<b>1,2-Dichloropropane</b>	<b>1.4</b>		0.20	0.060	ug/L			09/28/19 02:19	1
<b>1,3,5-Trimethylbenzene</b>	<b>19</b>		0.50	0.15	ug/L			09/28/19 02:19	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			09/28/19 02:19	1
<b>1,3-Dichloropropane</b>	<b>0.40</b>		0.20	0.056	ug/L			09/28/19 02:19	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			09/28/19 02:19	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			09/28/19 02:19	1
2-Butanone	ND		10	2.5	ug/L			09/28/19 02:19	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			09/28/19 02:19	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			09/28/19 02:19	1
<b>4-Isopropyltoluene</b>	<b>4.8</b>		0.30	0.050	ug/L			09/28/19 02:19	1
<b>4-Methyl-2-pentanone</b>	<b>2.2 J</b>		5.0	1.7	ug/L			09/28/19 02:19	1
Bromobenzene	ND		0.20	0.035	ug/L			09/28/19 02:19	1
Bromochloromethane	ND		0.20	0.025	ug/L			09/28/19 02:19	1
Bromodichloromethane	ND		0.20	0.060	ug/L			09/28/19 02:19	1
Bromoform	ND		0.50	0.16	ug/L			09/28/19 02:19	1
Bromomethane	ND		0.50	0.16	ug/L			09/28/19 02:19	1
Carbon disulfide	ND		0.30	0.083	ug/L			09/28/19 02:19	1

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# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: MW-7-W-190917**

**Lab Sample ID: 580-89287-8**

**Date Collected: 09/17/19 12:45**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

**Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.20	0.025	ug/L			09/28/19 02:19	1
Chlorobenzene	ND		0.20	0.025	ug/L			09/28/19 02:19	1
Chloroethane	ND		0.50	0.096	ug/L			09/28/19 02:19	1
Chloroform	ND		0.20	0.030	ug/L			09/28/19 02:19	1
Chloromethane	ND	*	0.50	0.15	ug/L			09/28/19 02:19	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			09/28/19 02:19	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			09/28/19 02:19	1
Dibromochloromethane	ND		0.20	0.055	ug/L			09/28/19 02:19	1
Dibromomethane	ND		0.20	0.062	ug/L			09/28/19 02:19	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			09/28/19 02:19	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			09/28/19 02:19	1
<b>Isopropylbenzene</b>	<b>6.9</b>		1.0	0.19	ug/L			09/28/19 02:19	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			09/28/19 02:19	1
Methylene Chloride	ND		5.0	0.74	ug/L			09/28/19 02:19	1
<b>Naphthalene</b>	<b>79</b>		1.0	0.22	ug/L			09/28/19 02:19	1
<b>n-Butylbenzene</b>	<b>30</b>	<b>B</b>	0.50	0.080	ug/L			09/28/19 02:19	1
<b>N-Propylbenzene</b>	<b>5.7</b>		0.30	0.091	ug/L			09/28/19 02:19	1
<b>o-Xylene</b>	<b>17</b>		0.50	0.15	ug/L			09/28/19 02:19	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			09/28/19 02:19	1
<b>Styrene</b>	<b>0.25</b>	<b>J</b>	0.50	0.19	ug/L			09/28/19 02:19	1
<b>t-Butylbenzene</b>	<b>1.6</b>	<b>B</b>	0.50	0.10	ug/L			09/28/19 02:19	1
Tetrachloroethene	ND		0.50	0.084	ug/L			09/28/19 02:19	1
<b>Toluene</b>	<b>18</b>		0.20	0.050	ug/L			09/28/19 02:19	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			09/28/19 02:19	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			09/28/19 02:19	1
Trichloroethene	ND		0.20	0.066	ug/L			09/28/19 02:19	1
Trichlorofluoromethane	ND	*	0.50	0.11	ug/L			09/28/19 02:19	1
Vinyl chloride	ND	*	0.020	0.013	ug/L			09/28/19 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	94		80 - 120		09/28/19 02:19	1
Toluene-d8 (Surr)	96		80 - 120		09/28/19 02:19	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		09/28/19 02:19	1
4-Bromofluorobenzene (Surr)	108		80 - 120		09/28/19 02:19	1
Dibromofluoromethane (Surr)	99		80 - 120		09/28/19 02:19	1

**Method: 8260C - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,2,4-Trimethylbenzene</b>	<b>880</b>		30	7.2	ug/L			09/28/19 20:02	100
Acetone	ND		600	310	ug/L			09/28/19 20:02	100
<b>Benzene</b>	<b>190</b>		20	3.0	ug/L			09/28/19 20:02	100
<b>Ethylbenzene</b>	<b>360</b>	<b>B</b>	20	3.0	ug/L			09/28/19 20:02	100
<b>m-Xylene &amp; p-Xylene</b>	<b>810</b>	<b>B</b>	50	12	ug/L			09/28/19 20:02	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	92		80 - 120		09/28/19 20:02	100
Toluene-d8 (Surr)	99		80 - 120		09/28/19 20:02	100
1,2-Dichloroethane-d4 (Surr)	114		80 - 120		09/28/19 20:02	100
4-Bromofluorobenzene (Surr)	106		80 - 120		09/28/19 20:02	100
Dibromofluoromethane (Surr)	101		80 - 120		09/28/19 20:02	100

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# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: MW-7-W-190917**

**Lab Sample ID: 580-89287-8**

Date Collected: 09/17/19 12:45

Matrix: Water

Date Received: 09/18/19 08:50

**Method: AK101 - Alaska - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline Range Organics (GRO) -C6-C10</b>	<b>5.8</b>		0.25	0.10	mg/L			09/21/19 00:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Trifluorotoluene (Surr)	109		50 - 150					09/21/19 00:44	1
4-Bromofluorobenzene (Surr)	176	X	50 - 150					09/21/19 00:44	1

**Method: 8011 - EDB and DBCP in Water by Microextraction**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,2,3-Trichloropropane</b>	<b>0.24</b>		0.030	0.0079	ug/L		09/28/19 15:57	09/30/19 19:22	1
Ethylene Dibromide	ND	*	0.0099	0.0020	ug/L		09/28/19 15:57	09/30/19 19:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dibromopropane	168	X	60 - 140				09/28/19 15:57	09/30/19 19:22	1

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>DRO (nC10-&lt;nC25)</b>	<b>2.2</b>		0.27	0.096	mg/L		09/29/19 12:37	09/29/19 22:38	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	86		50 - 150				09/29/19 12:37	09/29/19 22:38	1
n-Triacontane-d62	94		50 - 150				09/29/19 12:37	09/29/19 22:38	1

**Client Sample ID: MW-5-W-190917**

**Lab Sample ID: 580-89287-9**

Date Collected: 09/17/19 13:20

Matrix: Water

Date Received: 09/18/19 08:50

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>6.6</b>		0.20	0.030	ug/L			09/28/19 00:06	1
<b>Toluene</b>	<b>0.59</b>		0.20	0.050	ug/L			09/28/19 00:06	1
<b>Ethylbenzene</b>	<b>0.57</b>	<b>B</b>	0.20	0.030	ug/L			09/28/19 00:06	1
<b>m-Xylene &amp; p-Xylene</b>	<b>22</b>		0.50	0.12	ug/L			09/28/19 00:06	1
<b>o-Xylene</b>	<b>0.81</b>		0.50	0.15	ug/L			09/28/19 00:06	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Trifluorotoluene (Surr)	85		80 - 120					09/28/19 00:06	1
Toluene-d8 (Surr)	98		80 - 120					09/28/19 00:06	1
1,2-Dichloroethane-d4 (Surr)	117		80 - 120					09/28/19 00:06	1
4-Bromofluorobenzene (Surr)	111		80 - 120					09/28/19 00:06	1
Dibromofluoromethane (Surr)	102		80 - 120					09/28/19 00:06	1

**Method: AK101 - Alaska - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline Range Organics (GRO) -C6-C10</b>	<b>0.22</b>	<b>J</b>	0.25	0.10	mg/L			09/21/19 01:15	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Trifluorotoluene (Surr)	109		50 - 150					09/21/19 01:15	1
4-Bromofluorobenzene (Surr)	99		50 - 150					09/21/19 01:15	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: MW-5-W-190917**

**Lab Sample ID: 580-89287-9**

Date Collected: 09/17/19 13:20

Matrix: Water

Date Received: 09/18/19 08:50

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.33		0.25	0.092	mg/L		09/29/19 12:37	09/29/19 22:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	88		50 - 150				09/29/19 12:37	09/29/19 22:57	1
<i>n</i> -Triacontane-d62	96		50 - 150				09/29/19 12:37	09/29/19 22:57	1

**Client Sample ID: MW-6-W-190917**

**Lab Sample ID: 580-89287-10**

Date Collected: 09/17/19 14:20

Matrix: Water

Date Received: 09/18/19 08:50

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			09/27/19 23:40	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			09/27/19 23:40	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			09/27/19 23:40	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			09/27/19 23:40	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			09/27/19 23:40	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			09/27/19 23:40	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			09/27/19 23:40	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			09/27/19 23:40	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			09/27/19 23:40	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			09/27/19 23:40	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.11</b>	<b>J</b>	0.30	0.072	ug/L			09/27/19 23:40	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			09/27/19 23:40	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			09/27/19 23:40	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			09/27/19 23:40	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			09/27/19 23:40	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			09/27/19 23:40	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			09/27/19 23:40	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			09/27/19 23:40	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			09/27/19 23:40	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			09/27/19 23:40	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			09/27/19 23:40	1
2-Butanone	ND		10	2.5	ug/L			09/27/19 23:40	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			09/27/19 23:40	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			09/27/19 23:40	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			09/27/19 23:40	1
4-Methyl-2-pentanone	ND		5.0	1.7	ug/L			09/27/19 23:40	1
<b>Benzene</b>	<b>0.059</b>	<b>J</b>	0.20	0.030	ug/L			09/27/19 23:40	1
Bromobenzene	ND		0.20	0.035	ug/L			09/27/19 23:40	1
Bromochloromethane	ND		0.20	0.025	ug/L			09/27/19 23:40	1
Bromodichloromethane	ND		0.20	0.060	ug/L			09/27/19 23:40	1
Bromoform	ND		0.50	0.16	ug/L			09/27/19 23:40	1
Bromomethane	ND		0.50	0.16	ug/L			09/27/19 23:40	1
Carbon disulfide	ND		0.30	0.083	ug/L			09/27/19 23:40	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			09/27/19 23:40	1
Chlorobenzene	ND		0.20	0.025	ug/L			09/27/19 23:40	1
Chloroethane	ND		0.50	0.096	ug/L			09/27/19 23:40	1
Chloroform	ND		0.20	0.030	ug/L			09/27/19 23:40	1
Chloromethane	ND	*	0.50	0.15	ug/L			09/27/19 23:40	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: MW-6-W-190917**

**Lab Sample ID: 580-89287-10**

**Date Collected: 09/17/19 14:20**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

**Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			09/27/19 23:40	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			09/27/19 23:40	1
Dibromochloromethane	ND		0.20	0.055	ug/L			09/27/19 23:40	1
Dibromomethane	ND		0.20	0.062	ug/L			09/27/19 23:40	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			09/27/19 23:40	1
<b>Ethylbenzene</b>	<b>0.077</b>	<b>J B</b>	0.20	0.030	ug/L			09/27/19 23:40	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			09/27/19 23:40	1
Isopropylbenzene	ND		1.0	0.19	ug/L			09/27/19 23:40	1
<b>Methyl tert-butyl ether</b>	<b>0.50</b>	<b>B</b>	0.30	0.070	ug/L			09/27/19 23:40	1
Methylene Chloride	ND		5.0	0.74	ug/L			09/27/19 23:40	1
<b>m-Xylene &amp; p-Xylene</b>	<b>0.16</b>	<b>J</b>	0.50	0.12	ug/L			09/27/19 23:40	1
Naphthalene	ND		1.0	0.22	ug/L			09/27/19 23:40	1
<b>n-Butylbenzene</b>	<b>0.12</b>	<b>J B</b>	0.50	0.080	ug/L			09/27/19 23:40	1
<b>N-Propylbenzene</b>	<b>0.096</b>	<b>J</b>	0.30	0.091	ug/L			09/27/19 23:40	1
o-Xylene	ND		0.50	0.15	ug/L			09/27/19 23:40	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			09/27/19 23:40	1
<b>Styrene</b>	<b>0.22</b>	<b>J</b>	0.50	0.19	ug/L			09/27/19 23:40	1
<b>t-Butylbenzene</b>	<b>0.13</b>	<b>J B</b>	0.50	0.10	ug/L			09/27/19 23:40	1
Tetrachloroethene	ND		0.50	0.084	ug/L			09/27/19 23:40	1
<b>Toluene</b>	<b>0.056</b>	<b>J</b>	0.20	0.050	ug/L			09/27/19 23:40	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			09/27/19 23:40	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			09/27/19 23:40	1
Trichloroethene	ND		0.20	0.066	ug/L			09/27/19 23:40	1
Trichlorofluoromethane	ND	*	0.50	0.11	ug/L			09/27/19 23:40	1
Vinyl chloride	ND	*	0.020	0.013	ug/L			09/27/19 23:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	88		80 - 120		09/27/19 23:40	1
Toluene-d8 (Surr)	97		80 - 120		09/27/19 23:40	1
1,2-Dichloroethane-d4 (Surr)	116		80 - 120		09/27/19 23:40	1
4-Bromofluorobenzene (Surr)	107		80 - 120		09/27/19 23:40	1
Dibromofluoromethane (Surr)	101		80 - 120		09/27/19 23:40	1

**Method: 8260C - Volatile Organic Compounds (GC/MS) - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>3.7</b>	<b>J</b>	6.0	3.1	ug/L			09/28/19 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	91		80 - 120		09/28/19 19:09	1
Toluene-d8 (Surr)	100		80 - 120		09/28/19 19:09	1
1,2-Dichloroethane-d4 (Surr)	121	X	80 - 120		09/28/19 19:09	1
4-Bromofluorobenzene (Surr)	111		80 - 120		09/28/19 19:09	1
Dibromofluoromethane (Surr)	114		80 - 120		09/28/19 19:09	1

**Method: AK101 - Alaska - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		0.25	0.10	mg/L			09/21/19 01:45	1
-C6-C10									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	110		50 - 150		09/21/19 01:45	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: MW-6-W-190917**

**Lab Sample ID: 580-89287-10**

Date Collected: 09/17/19 14:20

Matrix: Water

Date Received: 09/18/19 08:50

**Method: AK101 - Alaska - Gasoline Range Organics (GC) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150		09/21/19 01:45	1

**Method: 8011 - EDB and DBCP in Water by Microextraction**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.030	0.0080	ug/L		09/28/19 15:57	09/30/19 19:54	1
Ethylene Dibromide	ND	*	0.010	0.0020	ug/L		09/28/19 15:57	09/30/19 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	104		60 - 140	09/28/19 15:57	09/30/19 19:54	1

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	1.2		0.26	0.093	mg/L		09/29/19 12:37	09/29/19 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	88		50 - 150	09/29/19 12:37	09/29/19 23:16	1
n-Triacontane-d62	96		50 - 150	09/29/19 12:37	09/29/19 23:16	1

**Client Sample ID: MW-1-W-190917**

**Lab Sample ID: 580-89287-11**

Date Collected: 09/17/19 15:00

Matrix: Water

Date Received: 09/18/19 08:50

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.2		0.20	0.030	ug/L			09/28/19 00:33	1
Toluene	0.68		0.20	0.050	ug/L			09/28/19 00:33	1
Ethylbenzene	0.15	J B	0.20	0.030	ug/L			09/28/19 00:33	1
m-Xylene & p-Xylene	15		0.50	0.12	ug/L			09/28/19 00:33	1
o-Xylene	1.0		0.50	0.15	ug/L			09/28/19 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	85		80 - 120		09/28/19 00:33	1
Toluene-d8 (Surr)	96		80 - 120		09/28/19 00:33	1
1,2-Dichloroethane-d4 (Surr)	119		80 - 120		09/28/19 00:33	1
4-Bromofluorobenzene (Surr)	110		80 - 120		09/28/19 00:33	1
Dibromofluoromethane (Surr)	101		80 - 120		09/28/19 00:33	1

**Method: AK101 - Alaska - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.11	J	0.25	0.10	mg/L			09/20/19 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	143		50 - 150		09/20/19 21:42	1
4-Bromofluorobenzene (Surr)	99		50 - 150		09/20/19 21:42	1

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.35		0.26	0.093	mg/L		09/29/19 12:37	09/29/19 23:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 150	09/29/19 12:37	09/29/19 23:35	1

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: MW-1-W-190917**

**Lab Sample ID: 580-89287-11**

**Date Collected: 09/17/19 15:00**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Triacontane-d62	98		50 - 150	09/29/19 12:37	09/29/19 23:35	1

**Client Sample ID: MW-2-W-190917**

**Lab Sample ID: 580-89287-12**

**Date Collected: 09/17/19 15:30**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			09/28/19 00:59	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			09/28/19 00:59	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			09/28/19 00:59	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			09/28/19 00:59	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			09/28/19 00:59	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			09/28/19 00:59	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			09/28/19 00:59	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			09/28/19 00:59	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			09/28/19 00:59	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			09/28/19 00:59	1
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			09/28/19 00:59	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			09/28/19 00:59	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			09/28/19 00:59	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			09/28/19 00:59	1
<b>1,2-Dichloroethane</b>	<b>0.58</b>		0.20	0.043	ug/L			09/28/19 00:59	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			09/28/19 00:59	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			09/28/19 00:59	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			09/28/19 00:59	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			09/28/19 00:59	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			09/28/19 00:59	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			09/28/19 00:59	1
2-Butanone	ND		10	2.5	ug/L			09/28/19 00:59	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			09/28/19 00:59	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			09/28/19 00:59	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			09/28/19 00:59	1
4-Methyl-2-pentanone	ND		5.0	1.7	ug/L			09/28/19 00:59	1
Acetone	ND		6.0	3.1	ug/L			09/28/19 00:59	1
Benzene	ND		0.20	0.030	ug/L			09/28/19 00:59	1
Bromobenzene	ND		0.20	0.035	ug/L			09/28/19 00:59	1
Bromochloromethane	ND		0.20	0.025	ug/L			09/28/19 00:59	1
Bromodichloromethane	ND		0.20	0.060	ug/L			09/28/19 00:59	1
Bromoform	ND		0.50	0.16	ug/L			09/28/19 00:59	1
Bromomethane	ND		0.50	0.16	ug/L			09/28/19 00:59	1
Carbon disulfide	ND		0.30	0.083	ug/L			09/28/19 00:59	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			09/28/19 00:59	1
Chlorobenzene	ND		0.20	0.025	ug/L			09/28/19 00:59	1
Chloroethane	ND		0.50	0.096	ug/L			09/28/19 00:59	1
Chloroform	ND		0.20	0.030	ug/L			09/28/19 00:59	1
Chloromethane	ND	*	0.50	0.15	ug/L			09/28/19 00:59	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			09/28/19 00:59	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			09/28/19 00:59	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: MW-2-W-190917**

**Lab Sample ID: 580-89287-12**

**Date Collected: 09/17/19 15:30**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

**Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		0.20	0.055	ug/L			09/28/19 00:59	1
Dibromomethane	ND		0.20	0.062	ug/L			09/28/19 00:59	1
<b>Dichlorodifluoromethane</b>	<b>0.52</b>		0.40	0.13	ug/L			09/28/19 00:59	1
<b>Ethylbenzene</b>	<b>0.061</b>	<b>J B</b>	0.20	0.030	ug/L			09/28/19 00:59	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			09/28/19 00:59	1
Isopropylbenzene	ND		1.0	0.19	ug/L			09/28/19 00:59	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			09/28/19 00:59	1
Methylene Chloride	ND		5.0	0.74	ug/L			09/28/19 00:59	1
<b>m-Xylene &amp; p-Xylene</b>	<b>0.16</b>	<b>J</b>	0.50	0.12	ug/L			09/28/19 00:59	1
Naphthalene	ND		1.0	0.22	ug/L			09/28/19 00:59	1
n-Butylbenzene	ND		0.50	0.080	ug/L			09/28/19 00:59	1
N-Propylbenzene	ND		0.30	0.091	ug/L			09/28/19 00:59	1
o-Xylene	ND		0.50	0.15	ug/L			09/28/19 00:59	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			09/28/19 00:59	1
Styrene	ND		0.50	0.19	ug/L			09/28/19 00:59	1
<b>t-Butylbenzene</b>	<b>0.14</b>	<b>J B</b>	0.50	0.10	ug/L			09/28/19 00:59	1
Tetrachloroethene	ND		0.50	0.084	ug/L			09/28/19 00:59	1
Toluene	ND		0.20	0.050	ug/L			09/28/19 00:59	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			09/28/19 00:59	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			09/28/19 00:59	1
Trichloroethene	ND		0.20	0.066	ug/L			09/28/19 00:59	1
Trichlorofluoromethane	ND *		0.50	0.11	ug/L			09/28/19 00:59	1
Vinyl chloride	ND *		0.020	0.013	ug/L			09/28/19 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	90		80 - 120		09/28/19 00:59	1
Toluene-d8 (Surr)	99		80 - 120		09/28/19 00:59	1
1,2-Dichloroethane-d4 (Surr)	117		80 - 120		09/28/19 00:59	1
4-Bromofluorobenzene (Surr)	110		80 - 120		09/28/19 00:59	1
Dibromofluoromethane (Surr)	106		80 - 120		09/28/19 00:59	1

**Method: AK101 - Alaska - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/20/19 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	113		50 - 150		09/20/19 22:12	1
4-Bromofluorobenzene (Surr)	94		50 - 150		09/20/19 22:12	1

**Method: 8011 - EDB and DBCP in Water by Microextraction**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.029	0.0078	ug/L		09/28/19 15:57	09/30/19 20:10	1
Ethylene Dibromide	ND *		0.0098	0.0020	ug/L		09/28/19 15:57	09/30/19 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	111		60 - 140	09/28/19 15:57	09/30/19 20:10	1

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>DRO (nC10-&lt;nC25)</b>	<b>0.43</b>		0.25	0.091	mg/L		09/29/19 12:37	09/29/19 23:55	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: MW-2-W-190917**

**Lab Sample ID: 580-89287-12**

**Date Collected: 09/17/19 15:30**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	90		50 - 150	09/29/19 12:37	09/29/19 23:55	1
<i>n</i> -Triacontane-d62	95		50 - 150	09/29/19 12:37	09/29/19 23:55	1

**Client Sample ID: MW-3-W-190917**

**Lab Sample ID: 580-89287-13**

**Date Collected: 09/17/19 16:00**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			09/28/19 01:26	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			09/28/19 01:26	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			09/28/19 01:26	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			09/28/19 01:26	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			09/28/19 01:26	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			09/28/19 01:26	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			09/28/19 01:26	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			09/28/19 01:26	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			09/28/19 01:26	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			09/28/19 01:26	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			09/28/19 01:26	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			09/28/19 01:26	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			09/28/19 01:26	1
<b>1,2-Dichloroethane</b>	<b>1.1</b>		0.20	0.043	ug/L			09/28/19 01:26	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			09/28/19 01:26	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			09/28/19 01:26	1
<b>1,3-Dichloropropane</b>	<b>0.19</b>	<b>J</b>	0.20	0.056	ug/L			09/28/19 01:26	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			09/28/19 01:26	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			09/28/19 01:26	1
2-Butanone	ND		10	2.5	ug/L			09/28/19 01:26	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			09/28/19 01:26	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			09/28/19 01:26	1
<b>4-Isopropyltoluene</b>	<b>2.6</b>		0.30	0.050	ug/L			09/28/19 01:26	1
4-Methyl-2-pentanone	ND		5.0	1.7	ug/L			09/28/19 01:26	1
Bromobenzene	ND		0.20	0.035	ug/L			09/28/19 01:26	1
Bromochloromethane	ND		0.20	0.025	ug/L			09/28/19 01:26	1
Bromodichloromethane	ND		0.20	0.060	ug/L			09/28/19 01:26	1
Bromoform	ND		0.50	0.16	ug/L			09/28/19 01:26	1
Bromomethane	ND		0.50	0.16	ug/L			09/28/19 01:26	1
<b>Carbon disulfide</b>	<b>0.18</b>	<b>J</b>	0.30	0.083	ug/L			09/28/19 01:26	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			09/28/19 01:26	1
Chlorobenzene	ND		0.20	0.025	ug/L			09/28/19 01:26	1
Chloroethane	ND		0.50	0.096	ug/L			09/28/19 01:26	1
Chloroform	ND		0.20	0.030	ug/L			09/28/19 01:26	1
Chloromethane	ND	*	0.50	0.15	ug/L			09/28/19 01:26	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			09/28/19 01:26	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			09/28/19 01:26	1
Dibromochloromethane	ND		0.20	0.055	ug/L			09/28/19 01:26	1
Dibromomethane	ND		0.20	0.062	ug/L			09/28/19 01:26	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			09/28/19 01:26	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			09/28/19 01:26	1



# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: MW-3-W-190917**

**Lab Sample ID: 580-89287-13**

Date Collected: 09/17/19 16:00

Matrix: Water

Date Received: 09/18/19 08:50

**Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	23		1.0	0.19	ug/L			09/28/19 01:26	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			09/28/19 01:26	1
Methylene Chloride	ND		5.0	0.74	ug/L			09/28/19 01:26	1
n-Butylbenzene	40	B	0.50	0.080	ug/L			09/28/19 01:26	1
o-Xylene	11		0.50	0.15	ug/L			09/28/19 01:26	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			09/28/19 01:26	1
Styrene	0.27	J	0.50	0.19	ug/L			09/28/19 01:26	1
t-Butylbenzene	1.2	B	0.50	0.10	ug/L			09/28/19 01:26	1
Tetrachloroethene	0.35	J	0.50	0.084	ug/L			09/28/19 01:26	1
Toluene	8.4		0.20	0.050	ug/L			09/28/19 01:26	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			09/28/19 01:26	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			09/28/19 01:26	1
Trichloroethene	ND		0.20	0.066	ug/L			09/28/19 01:26	1
Trichlorofluoromethane	13	*	0.50	0.11	ug/L			09/28/19 01:26	1
Vinyl chloride	ND	*	0.020	0.013	ug/L			09/28/19 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	97		80 - 120		09/28/19 01:26	1
Toluene-d8 (Surr)	95		80 - 120		09/28/19 01:26	1
1,2-Dichloroethane-d4 (Surr)	111		80 - 120		09/28/19 01:26	1
4-Bromofluorobenzene (Surr)	109		80 - 120		09/28/19 01:26	1
Dibromofluoromethane (Surr)	103		80 - 120		09/28/19 01:26	1

**Method: 8260C - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	490		30	7.2	ug/L			09/28/19 20:29	100
1,3,5-Trimethylbenzene	98		50	15	ug/L			09/28/19 20:29	100
Acetone	ND		600	310	ug/L			09/28/19 20:29	100
Benzene	110		20	3.0	ug/L			09/28/19 20:29	100
Ethylbenzene	280	B	20	3.0	ug/L			09/28/19 20:29	100
m-Xylene & p-Xylene	690	B	50	12	ug/L			09/28/19 20:29	100
Naphthalene	90	J	100	22	ug/L			09/28/19 20:29	100
N-Propylbenzene	49		30	9.1	ug/L			09/28/19 20:29	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	89		80 - 120		09/28/19 20:29	100
Toluene-d8 (Surr)	98		80 - 120		09/28/19 20:29	100
1,2-Dichloroethane-d4 (Surr)	116		80 - 120		09/28/19 20:29	100
4-Bromofluorobenzene (Surr)	110		80 - 120		09/28/19 20:29	100
Dibromofluoromethane (Surr)	101		80 - 120		09/28/19 20:29	100

**Method: AK101 - Alaska - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	4.0		0.25	0.10	mg/L			09/20/19 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	111		50 - 150		09/20/19 22:43	1
4-Bromofluorobenzene (Surr)	146		50 - 150		09/20/19 22:43	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: MW-3-W-190917**

**Lab Sample ID: 580-89287-13**

Date Collected: 09/17/19 16:00

Matrix: Water

Date Received: 09/18/19 08:50

**Method: 8011 - EDB and DBCP in Water by Microextraction**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	0.078		0.029	0.0079	ug/L		09/28/19 15:57	09/30/19 20:26	1
Ethylene Dibromide	ND	*	0.0098	0.0020	ug/L		09/28/19 15:57	09/30/19 20:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	128		60 - 140				09/28/19 15:57	09/30/19 20:26	1

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	1.6		0.25	0.091	mg/L		09/29/19 12:37	09/30/19 00:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	87		50 - 150				09/29/19 12:37	09/30/19 00:14	1
n-Triacontane-d62	94		50 - 150				09/29/19 12:37	09/30/19 00:14	1

**Client Sample ID: BD-1-W-190917**

**Lab Sample ID: 580-89287-14**

Date Collected: 09/17/19 00:00

Matrix: Water

Date Received: 09/18/19 08:50

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.035	J	0.20	0.030	ug/L			09/28/19 01:52	1
Toluene	ND		0.20	0.050	ug/L			09/28/19 01:52	1
Ethylbenzene	0.18	J B	0.20	0.030	ug/L			09/28/19 01:52	1
m-Xylene & p-Xylene	0.46	J	0.50	0.12	ug/L			09/28/19 01:52	1
o-Xylene	ND		0.50	0.15	ug/L			09/28/19 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	98		80 - 120					09/28/19 01:52	1
Toluene-d8 (Surr)	99		80 - 120					09/28/19 01:52	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120					09/28/19 01:52	1
4-Bromofluorobenzene (Surr)	106		80 - 120					09/28/19 01:52	1
Dibromofluoromethane (Surr)	99		80 - 120					09/28/19 01:52	1

**Method: AK101 - Alaska - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/20/19 23:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	116		50 - 150					09/20/19 23:13	1
4-Bromofluorobenzene (Surr)	96		50 - 150					09/20/19 23:13	1

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.25	J	0.26	0.092	mg/L		09/29/19 12:37	09/30/19 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150				09/29/19 12:37	09/30/19 00:33	1
n-Triacontane-d62	91		50 - 150				09/29/19 12:37	09/30/19 00:33	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: BD-2-W-190917**

**Lab Sample ID: 580-89287-15**

**Date Collected: 09/17/19 00:00**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.030	ug/L			09/27/19 18:48	1
Toluene	ND		0.20	0.050	ug/L			09/27/19 18:48	1
<b>Ethylbenzene</b>	<b>0.056</b>	<b>J B</b>	0.20	0.030	ug/L			09/27/19 18:48	1
<b>m-Xylene &amp; p-Xylene</b>	<b>0.13</b>	<b>J</b>	0.50	0.12	ug/L			09/27/19 18:48	1
o-Xylene	ND		0.50	0.15	ug/L			09/27/19 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	95		80 - 120		09/27/19 18:48	1
Toluene-d8 (Surr)	98		80 - 120		09/27/19 18:48	1
1,2-Dichloroethane-d4 (Surr)	114		80 - 120		09/27/19 18:48	1
4-Bromofluorobenzene (Surr)	104		80 - 120		09/27/19 18:48	1
Dibromofluoromethane (Surr)	109		80 - 120		09/27/19 18:48	1

**Method: AK101 - Alaska - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/20/19 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	112		50 - 150		09/20/19 23:44	1
4-Bromofluorobenzene (Surr)	93		50 - 150		09/20/19 23:44	1

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.25	0.091	mg/L		09/29/19 12:37	09/30/19 00:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	93		50 - 150	09/29/19 12:37	09/30/19 00:52	1
n-Triacontane-d62	101		50 - 150	09/29/19 12:37	09/30/19 00:52	1

**Client Sample ID: Trip Blank\_190917**

**Lab Sample ID: 580-89287-16**

**Date Collected: 09/17/19 00:00**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			09/27/19 19:14	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			09/27/19 19:14	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			09/27/19 19:14	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			09/27/19 19:14	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			09/27/19 19:14	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			09/27/19 19:14	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			09/27/19 19:14	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			09/27/19 19:14	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			09/27/19 19:14	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			09/27/19 19:14	1
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			09/27/19 19:14	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			09/27/19 19:14	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			09/27/19 19:14	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			09/27/19 19:14	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			09/27/19 19:14	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: Trip Blank\_190917**

**Lab Sample ID: 580-89287-16**

**Date Collected: 09/17/19 00:00**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

**Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.20	0.060	ug/L			09/27/19 19:14	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			09/27/19 19:14	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			09/27/19 19:14	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			09/27/19 19:14	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			09/27/19 19:14	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			09/27/19 19:14	1
2-Butanone	ND		10	2.5	ug/L			09/27/19 19:14	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			09/27/19 19:14	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			09/27/19 19:14	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			09/27/19 19:14	1
4-Methyl-2-pentanone	ND		5.0	1.7	ug/L			09/27/19 19:14	1
Acetone	ND		6.0	3.1	ug/L			09/27/19 19:14	1
Benzene	ND		0.20	0.030	ug/L			09/27/19 19:14	1
Bromobenzene	ND		0.20	0.035	ug/L			09/27/19 19:14	1
Bromochloromethane	ND		0.20	0.025	ug/L			09/27/19 19:14	1
Bromodichloromethane	ND		0.20	0.060	ug/L			09/27/19 19:14	1
Bromoform	ND		0.50	0.16	ug/L			09/27/19 19:14	1
Bromomethane	ND		0.50	0.16	ug/L			09/27/19 19:14	1
Carbon disulfide	ND		0.30	0.083	ug/L			09/27/19 19:14	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			09/27/19 19:14	1
Chlorobenzene	ND		0.20	0.025	ug/L			09/27/19 19:14	1
Chloroethane	ND		0.50	0.096	ug/L			09/27/19 19:14	1
Chloroform	ND		0.20	0.030	ug/L			09/27/19 19:14	1
Chloromethane	ND	*	0.50	0.15	ug/L			09/27/19 19:14	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			09/27/19 19:14	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			09/27/19 19:14	1
Dibromochloromethane	ND		0.20	0.055	ug/L			09/27/19 19:14	1
Dibromomethane	ND		0.20	0.062	ug/L			09/27/19 19:14	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			09/27/19 19:14	1
<b>Ethylbenzene</b>	<b>0.059</b>	<b>J B</b>	0.20	0.030	ug/L			09/27/19 19:14	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			09/27/19 19:14	1
Isopropylbenzene	ND		1.0	0.19	ug/L			09/27/19 19:14	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			09/27/19 19:14	1
Methylene Chloride	ND		5.0	0.74	ug/L			09/27/19 19:14	1
<b>m-Xylene &amp; p-Xylene</b>	<b>0.13</b>	<b>J</b>	0.50	0.12	ug/L			09/27/19 19:14	1
Naphthalene	ND		1.0	0.22	ug/L			09/27/19 19:14	1
n-Butylbenzene	ND		0.50	0.080	ug/L			09/27/19 19:14	1
N-Propylbenzene	ND		0.30	0.091	ug/L			09/27/19 19:14	1
o-Xylene	ND		0.50	0.15	ug/L			09/27/19 19:14	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			09/27/19 19:14	1
Styrene	ND		0.50	0.19	ug/L			09/27/19 19:14	1
t-Butylbenzene	ND		0.50	0.10	ug/L			09/27/19 19:14	1
Tetrachloroethene	ND		0.50	0.084	ug/L			09/27/19 19:14	1
<b>Toluene</b>	<b>0.056</b>	<b>J</b>	0.20	0.050	ug/L			09/27/19 19:14	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			09/27/19 19:14	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			09/27/19 19:14	1
Trichloroethene	ND		0.20	0.066	ug/L			09/27/19 19:14	1
Trichlorofluoromethane	ND	*	0.50	0.11	ug/L			09/27/19 19:14	1
Vinyl chloride	ND	*	0.020	0.013	ug/L			09/27/19 19:14	1

# Client Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: Trip Blank\_190917**

**Lab Sample ID: 580-89287-16**

**Date Collected: 09/17/19 00:00**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Trifluorotoluene (Surr)</i>	89		80 - 120		09/27/19 19:14	1
<i>Toluene-d8 (Surr)</i>	98		80 - 120		09/27/19 19:14	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	118		80 - 120		09/27/19 19:14	1
<i>4-Bromofluorobenzene (Surr)</i>	107		80 - 120		09/27/19 19:14	1
<i>Dibromofluoromethane (Surr)</i>	106		80 - 120		09/27/19 19:14	1

**Method: AK101 - Alaska - Gasoline Range Organics (GC)**

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/20/19 16:37	1

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Trifluorotoluene (Surr)</i>	115		50 - 150		09/20/19 16:37	1
<i>4-Bromofluorobenzene (Surr)</i>	95		50 - 150		09/20/19 16:37	1

# Default Detection Limits

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	0.30	0.027	ug/L
1,1,1-Trichloroethane	0.20	0.025	ug/L
1,1,2,2-Tetrachloroethane	0.20	0.056	ug/L
1,1,2-Trichloroethane	0.20	0.070	ug/L
1,1-Dichloroethane	0.20	0.025	ug/L
1,1-Dichloroethene	0.20	0.10	ug/L
1,1-Dichloropropene	0.20	0.036	ug/L
1,2,3-Trichlorobenzene	0.50	0.15	ug/L
1,2,3-Trichloropropane	0.20	0.050	ug/L
1,2,4-Trichlorobenzene	0.30	0.072	ug/L
1,2,4-Trimethylbenzene	0.30	0.072	ug/L
1,2-Dibromo-3-Chloropropane	2.0	0.44	ug/L
1,2-Dibromoethane	0.10	0.025	ug/L
1,2-Dichlorobenzene	0.30	0.050	ug/L
1,2-Dichloroethane	0.20	0.043	ug/L
1,2-Dichloropropane	0.20	0.060	ug/L
1,3,5-Trimethylbenzene	0.50	0.15	ug/L
1,3-Dichlorobenzene	0.30	0.050	ug/L
1,3-Dichloropropane	0.20	0.056	ug/L
1,4-Dichlorobenzene	0.30	0.050	ug/L
2,2-Dichloropropane	0.50	0.060	ug/L
2-Butanone	10	2.5	ug/L
2-Chlorotoluene	0.50	0.12	ug/L
4-Chlorotoluene	0.30	0.050	ug/L
4-Isopropyltoluene	0.30	0.050	ug/L
4-Methyl-2-pentanone	5.0	1.7	ug/L
Acetone	6.0	3.1	ug/L
Benzene	0.20	0.030	ug/L
Bromobenzene	0.20	0.035	ug/L
Bromochloromethane	0.20	0.025	ug/L
Bromodichloromethane	0.20	0.060	ug/L
Bromoform	0.50	0.16	ug/L
Bromomethane	0.50	0.16	ug/L
Carbon disulfide	0.30	0.083	ug/L
Carbon tetrachloride	0.20	0.025	ug/L
Chlorobenzene	0.20	0.025	ug/L
Chloroethane	0.50	0.096	ug/L
Chloroform	0.20	0.030	ug/L
Chloromethane	0.50	0.15	ug/L
cis-1,2-Dichloroethene	0.20	0.055	ug/L
cis-1,3-Dichloropropene	0.20	0.090	ug/L
Dibromochloromethane	0.20	0.055	ug/L
Dibromomethane	0.20	0.062	ug/L
Dichlorodifluoromethane	0.40	0.13	ug/L
Ethylbenzene	0.20	0.030	ug/L
Hexachlorobutadiene	0.50	0.15	ug/L
Isopropylbenzene	1.0	0.19	ug/L
Methyl tert-butyl ether	0.30	0.070	ug/L
Methylene Chloride	5.0	0.74	ug/L
m-Xylene & p-Xylene	0.50	0.12	ug/L
Naphthalene	1.0	0.22	ug/L
n-Butylbenzene	0.50	0.080	ug/L
N-Propylbenzene	0.30	0.091	ug/L

# Default Detection Limits

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	RL	MDL	Units
o-Xylene	0.50	0.15	ug/L
sec-Butylbenzene	1.0	0.17	ug/L
Styrene	0.50	0.19	ug/L
t-Butylbenzene	0.50	0.10	ug/L
Tetrachloroethene	0.50	0.084	ug/L
Toluene	0.20	0.050	ug/L
trans-1,2-Dichloroethene	0.20	0.089	ug/L
trans-1,3-Dichloropropene	0.20	0.092	ug/L
Trichloroethene	0.20	0.066	ug/L
Trichlorofluoromethane	0.50	0.11	ug/L
Vinyl chloride	0.020	0.013	ug/L

## Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	RL	MDL	Units
Gasoline Range Organics (GRO)-C6-C10	0.25	0.10	mg/L

## Method: 8011 - EDB and DBCP in Water by Microextraction

Prep: 8011

Analyte	RL	MDL	Units
1,2,3-Trichloropropane	0.030	0.0080	ug/L
Ethylene Dibromide	0.010	0.0020	ug/L

## Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Prep: 3510C

Analyte	RL	MDL	Units
DRO (nC10-<nC25)	0.25	0.090	mg/L

# Surrogate Summary

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)				
		TFT (80-120)	TOL (80-120)	DCA (80-120)	BFB (80-120)	DBFM (80-120)
580-89287-1	EQB-1-W-190917	92	97	115	106	107
580-89287-1 - RA	EQB-1-W-190917	93	98	119	112	116
580-89287-2	MW-4-W-190917	89	97	116	107	101
580-89287-3	MW-8-W-190917	87	95	120	108	103
580-89287-4	SP-3-W-190917	92	98	116	105	110
580-89287-5	SP-2-W-190917	92	99	117	106	112
580-89287-6	SP-1-W-190917	89	95	118	105	117
580-89287-7	MW-10-W-190917	96	98	116	103	104
580-89287-8	MW-7-W-190917	94	96	107	108	99
580-89287-8 - DL	MW-7-W-190917	92	99	114	106	101
580-89287-9	MW-5-W-190917	85	98	117	111	102
580-89287-10	MW-6-W-190917	88	97	116	107	101
580-89287-10 - RA	MW-6-W-190917	91	100	121 X	111	114
580-89287-11	MW-1-W-190917	85	96	119	110	101
580-89287-12	MW-2-W-190917	90	99	117	110	106
580-89287-13	MW-3-W-190917	97	95	111	109	103
580-89287-13 - DL	MW-3-W-190917	89	98	116	110	101
580-89287-14	BD-1-W-190917	98	99	104	106	99
580-89287-15	BD-2-W-190917	95	98	114	104	109
580-89287-16	Trip Blank_190917	89	98	118	107	106
LCS 580-312585/4	Lab Control Sample	91	96	109	105	107
LCS 580-312662/4	Lab Control Sample	87	92	116	113	117
LCSD 580-312585/5	Lab Control Sample Dup	91	96	108	104	100
LCSD 580-312662/5	Lab Control Sample Dup	93	96	113	110	114
MB 580-312585/7	Method Blank	89	95	123 X	108	115
MB 580-312662/7	Method Blank	90	95	118	110	107

### Surrogate Legend

TFT = Trifluorotoluene (Surr)

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

## Method: AK101 - Alaska - Gasoline Range Organics (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TFT1 (50-150)	BFB1 (50-150)
580-89287-1	EQB-1-W-190917	118	97
580-89287-5	SP-2-W-190917	117	98
580-89287-6	SP-1-W-190917	114	91
580-89287-7	MW-10-W-190917	114	97
580-89287-8	MW-7-W-190917	109	176 X
580-89287-9	MW-5-W-190917	109	99
580-89287-10	MW-6-W-190917	110	95
580-89287-11	MW-1-W-190917	143	99
580-89287-12	MW-2-W-190917	113	94
580-89287-13	MW-3-W-190917	111	146



# Surrogate Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: AK101 - Alaska - Gasoline Range Organics (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TFT1 (50-150)	BFB1 (50-150)
580-89287-14	BD-1-W-190917	116	96
580-89287-15	BD-2-W-190917	112	93
580-89287-16	Trip Blank_190917	115	95
LCS 580-311815/10	Lab Control Sample	106	95
LCSD 580-311815/11	Lab Control Sample Dup	103	97
MB 580-311815/9	Method Blank	119	91

### Surrogate Legend

TFT = Trifluorotoluene (Surr)

BFB = 4-Bromofluorobenzene (Surr)

## Method: AK101 - Alaska - Gasoline Range Organics (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TFT2 (50-150)	BFB2 (50-150)
580-89287-2	MW-4-W-190917	102	95
580-89287-3	MW-8-W-190917	101	96
580-89287-4	SP-3-W-190917	98	92
LCS 580-311813/8	Lab Control Sample	97	85
LCSD 580-311813/9	Lab Control Sample Dup	94	91
MB 580-311813/7	Method Blank	98	86

### Surrogate Legend

TFT = Trifluorotoluene (Surr)

BFB = 4-Bromofluorobenzene (Surr)

## Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		12DBP1 (60-140)
580-89287-7	MW-10-W-190917	113
580-89287-8	MW-7-W-190917	168 X
580-89287-10	MW-6-W-190917	104
580-89287-12	MW-2-W-190917	111
580-89287-13	MW-3-W-190917	128
LCS 580-312652/4-A	Lab Control Sample	123
LCSD 580-312652/5-A	Lab Control Sample Dup	105
LLCS 580-312652/6-A	Lab Control Sample	108
MB 580-312652/3-A	Method Blank	91

### Surrogate Legend

12DBP = 1,2-Dibromopropane

# Surrogate Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)**

**Matrix: Water**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		OTPH (50-150)	NTC (50-150)
580-89287-1	EQB-1-W-190917	89	90
580-89287-2	MW-4-W-190917	90	92
580-89287-3	MW-8-W-190917	88	93
580-89287-4	SP-3-W-190917	100	104
580-89287-5	SP-2-W-190917	85	92
580-89287-6	SP-1-W-190917	90	93
580-89287-7	MW-10-W-190917	85	89
580-89287-8	MW-7-W-190917	86	94
580-89287-9	MW-5-W-190917	88	96
580-89287-10	MW-6-W-190917	88	96
580-89287-11	MW-1-W-190917	91	98
580-89287-12	MW-2-W-190917	90	95
580-89287-13	MW-3-W-190917	87	94
580-89287-14	BD-1-W-190917	85	91
580-89287-15	BD-2-W-190917	93	101
LCS 590-24414/2-A	Lab Control Sample	97	97
LCSD 590-24414/3-A	Lab Control Sample Dup	95	100
MB 590-24414/1-A	Method Blank	90	92

#### Surrogate Legend

OTPH = o-Terphenyl

NTC = n-Triacontane-d62

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: 8260C - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 580-312585/7**

**Matrix: Water**

**Analysis Batch: 312585**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			09/27/19 18:21	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			09/27/19 18:21	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			09/27/19 18:21	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			09/27/19 18:21	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			09/27/19 18:21	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			09/27/19 18:21	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			09/27/19 18:21	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			09/27/19 18:21	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			09/27/19 18:21	1
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			09/27/19 18:21	1
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			09/27/19 18:21	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			09/27/19 18:21	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			09/27/19 18:21	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			09/27/19 18:21	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			09/27/19 18:21	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			09/27/19 18:21	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			09/27/19 18:21	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			09/27/19 18:21	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			09/27/19 18:21	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			09/27/19 18:21	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			09/27/19 18:21	1
2-Butanone	ND		10	2.5	ug/L			09/27/19 18:21	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			09/27/19 18:21	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			09/27/19 18:21	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			09/27/19 18:21	1
4-Methyl-2-pentanone	ND		5.0	1.7	ug/L			09/27/19 18:21	1
Acetone	ND		6.0	3.1	ug/L			09/27/19 18:21	1
Benzene	ND		0.20	0.030	ug/L			09/27/19 18:21	1
Bromobenzene	ND		0.20	0.035	ug/L			09/27/19 18:21	1
Bromochloromethane	0.0283	J	0.20	0.025	ug/L			09/27/19 18:21	1
Bromodichloromethane	ND		0.20	0.060	ug/L			09/27/19 18:21	1
Bromoform	ND		0.50	0.16	ug/L			09/27/19 18:21	1
Bromomethane	ND		0.50	0.16	ug/L			09/27/19 18:21	1
Carbon disulfide	ND		0.30	0.083	ug/L			09/27/19 18:21	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			09/27/19 18:21	1
Chlorobenzene	ND		0.20	0.025	ug/L			09/27/19 18:21	1
Chloroethane	ND		0.50	0.096	ug/L			09/27/19 18:21	1
Chloroform	ND		0.20	0.030	ug/L			09/27/19 18:21	1
Chloromethane	ND		0.50	0.15	ug/L			09/27/19 18:21	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			09/27/19 18:21	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			09/27/19 18:21	1
Dibromochloromethane	ND		0.20	0.055	ug/L			09/27/19 18:21	1
Dibromomethane	ND		0.20	0.062	ug/L			09/27/19 18:21	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			09/27/19 18:21	1
Ethylbenzene	0.0519	J	0.20	0.030	ug/L			09/27/19 18:21	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			09/27/19 18:21	1
Isopropylbenzene	ND		1.0	0.19	ug/L			09/27/19 18:21	1
Methyl tert-butyl ether	0.133	J	0.30	0.070	ug/L			09/27/19 18:21	1

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 580-312585/7**  
**Matrix: Water**  
**Analysis Batch: 312585**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0	0.74	ug/L			09/27/19 18:21	1
m-Xylene & p-Xylene	ND		0.50	0.12	ug/L			09/27/19 18:21	1
Naphthalene	ND		1.0	0.22	ug/L			09/27/19 18:21	1
n-Butylbenzene	0.0896	J	0.50	0.080	ug/L			09/27/19 18:21	1
N-Propylbenzene	ND		0.30	0.091	ug/L			09/27/19 18:21	1
o-Xylene	ND		0.50	0.15	ug/L			09/27/19 18:21	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			09/27/19 18:21	1
Styrene	ND		0.50	0.19	ug/L			09/27/19 18:21	1
t-Butylbenzene	0.133	J	0.50	0.10	ug/L			09/27/19 18:21	1
Tetrachloroethene	ND		0.50	0.084	ug/L			09/27/19 18:21	1
Toluene	ND		0.20	0.050	ug/L			09/27/19 18:21	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			09/27/19 18:21	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			09/27/19 18:21	1
Trichloroethene	ND		0.20	0.066	ug/L			09/27/19 18:21	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			09/27/19 18:21	1
Vinyl chloride	ND		0.020	0.013	ug/L			09/27/19 18:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	89		80 - 120		09/27/19 18:21	1
Toluene-d8 (Surr)	95		80 - 120		09/27/19 18:21	1
1,2-Dichloroethane-d4 (Surr)	123	X	80 - 120		09/27/19 18:21	1
4-Bromofluorobenzene (Surr)	108		80 - 120		09/27/19 18:21	1
Dibromofluoromethane (Surr)	115		80 - 120		09/27/19 18:21	1

**Lab Sample ID: LCS 580-312585/4**  
**Matrix: Water**  
**Analysis Batch: 312585**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.00	5.78		ug/L		116	79 - 127
1,1,1-Trichloroethane	5.00	6.09		ug/L		122	74 - 128
1,1,1,2-Tetrachloroethane	5.00	4.59		ug/L		92	69 - 139
1,1,2-Trichloroethane	5.00	5.24		ug/L		105	80 - 127
1,1-Dichloroethane	5.00	5.48		ug/L		110	74 - 135
1,1-Dichloroethene	5.00	5.55		ug/L		111	71 - 126
1,1-Dichloropropene	5.00	5.44		ug/L		109	72 - 132
1,2,3-Trichlorobenzene	5.00	5.56		ug/L		111	75 - 137
1,2,3-Trichloropropane	5.00	5.06		ug/L		101	80 - 127
1,2,4-Trichlorobenzene	5.00	5.82		ug/L		116	79 - 130
1,2,4-Trimethylbenzene	5.00	5.79		ug/L		116	78 - 136
1,2-Dibromo-3-Chloropropane	5.00	4.85		ug/L		97	69 - 130
1,2-Dibromoethane	5.00	5.13		ug/L		103	80 - 126
1,2-Dichlorobenzene	5.00	5.39		ug/L		108	80 - 129
1,2-Dichloroethane	5.00	5.77		ug/L		115	74 - 130
1,2-Dichloropropane	5.00	5.17		ug/L		103	80 - 130
1,3,5-Trimethylbenzene	5.00	5.33		ug/L		107	80 - 139
1,3-Dichlorobenzene	5.00	5.44		ug/L		109	80 - 130
1,3-Dichloropropane	5.00	5.20		ug/L		104	80 - 130

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 580-312585/4**

**Matrix: Water**

**Analysis Batch: 312585**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	5.00	5.23		ug/L		105	80 - 129
2,2-Dichloropropane	5.00	6.74		ug/L		135	58 - 150
2-Butanone	25.0	27.6		ug/L		111	64 - 136
2-Chlorotoluene	5.00	5.39		ug/L		108	80 - 136
4-Chlorotoluene	5.00	5.44		ug/L		109	80 - 130
4-Isopropyltoluene	5.00	5.41		ug/L		108	78 - 132
4-Methyl-2-pentanone	25.0	23.9		ug/L		96	65 - 137
Acetone	25.0	34.1		ug/L		137	49 - 150
Benzene	5.00	5.34		ug/L		107	73 - 133
Bromobenzene	5.00	5.18		ug/L		104	80 - 130
Bromochloromethane	5.00	5.57		ug/L		111	79 - 131
Bromodichloromethane	5.00	5.72		ug/L		114	74 - 131
Bromoform	5.00	4.94		ug/L		99	69 - 137
Bromomethane	5.00	5.95		ug/L		119	68 - 120
Carbon disulfide	5.00	5.46		ug/L		109	65 - 128
Carbon tetrachloride	5.00	6.03		ug/L		121	71 - 132
Chlorobenzene	5.00	5.26		ug/L		105	80 - 123
Chloroethane	5.00	5.41		ug/L		108	49 - 135
Chloroform	5.00	5.74		ug/L		115	80 - 130
Chloromethane	5.00	6.17		ug/L		123	32 - 143
cis-1,2-Dichloroethene	5.00	5.54		ug/L		111	72 - 130
cis-1,3-Dichloropropene	5.00	5.54		ug/L		111	66 - 141
Dibromochloromethane	5.00	5.34		ug/L		107	76 - 131
Dibromomethane	5.00	5.31		ug/L		106	65 - 141
Dichlorodifluoromethane	5.00	5.09		ug/L		102	20 - 137
Ethylbenzene	5.00	5.70		ug/L		114	80 - 130
Hexachlorobutadiene	5.00	5.61		ug/L		112	72 - 138
Isopropylbenzene	5.00	6.02		ug/L		120	75 - 137
Methyl tert-butyl ether	5.00	5.46		ug/L		109	60 - 150
Methylene Chloride	5.00	5.86		ug/L		117	75 - 134
m-Xylene & p-Xylene	5.00	5.86		ug/L		117	78 - 130
Naphthalene	5.00	5.65		ug/L		113	64 - 132
n-Butylbenzene	5.00	5.36		ug/L		107	73 - 135
N-Propylbenzene	5.00	5.12		ug/L		102	77 - 142
o-Xylene	5.00	5.93		ug/L		119	80 - 139
sec-Butylbenzene	5.00	5.28		ug/L		106	78 - 140
Styrene	5.00	5.47		ug/L		109	74 - 136
t-Butylbenzene	5.00	5.17		ug/L		103	77 - 140
Tetrachloroethene	5.00	5.39		ug/L		108	75 - 131
Toluene	5.00	5.42		ug/L		108	80 - 126
trans-1,2-Dichloroethene	5.00	5.61		ug/L		112	63 - 133
trans-1,3-Dichloropropene	5.00	5.17		ug/L		103	71 - 128
Trichloroethene	5.00	5.59		ug/L		112	72 - 136
Trichlorofluoromethane	5.00	6.27		ug/L		125	60 - 132
Vinyl chloride	5.00	6.21		ug/L		124	52 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Trifluorotoluene (Surr)	91		80 - 120

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 580-312585/4**

**Matrix: Water**

**Analysis Batch: 312585**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Toluene-d8 (Surr)</i>	96		80 - 120
<i>1,2-Dichloroethane-d4 (Surr)</i>	109		80 - 120
<i>4-Bromofluorobenzene (Surr)</i>	105		80 - 120
<i>Dibromofluoromethane (Surr)</i>	107		80 - 120

**Lab Sample ID: LCSD 580-312585/5**

**Matrix: Water**

**Analysis Batch: 312585**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
1,1,1,2-Tetrachloroethane	5.00	5.30		ug/L		106	79 - 127	9	20
1,1,1-Trichloroethane	5.00	5.27		ug/L		105	74 - 128	14	14
1,1,2,2-Tetrachloroethane	5.00	4.43		ug/L		89	69 - 139	4	22
1,1,2-Trichloroethane	5.00	5.32		ug/L		106	80 - 127	2	19
1,1-Dichloroethane	5.00	4.77		ug/L		95	74 - 135	14	20
1,1-Dichloroethene	5.00	4.75		ug/L		95	71 - 126	16	17
1,1-Dichloropropene	5.00	5.08		ug/L		102	72 - 132	7	13
1,2,3-Trichlorobenzene	5.00	5.02		ug/L		100	75 - 137	10	20
1,2,3-Trichloropropane	5.00	5.08		ug/L		102	80 - 127	0	20
1,2,4-Trichlorobenzene	5.00	5.39		ug/L		108	79 - 130	8	20
1,2,4-Trimethylbenzene	5.00	5.53		ug/L		111	78 - 136	5	20
1,2-Dibromo-3-Chloropropane	5.00	4.59		ug/L		92	69 - 130	5	26
1,2-Dibromoethane	5.00	5.18		ug/L		104	80 - 126	1	20
1,2-Dichlorobenzene	5.00	5.11		ug/L		102	80 - 129	5	14
1,2-Dichloroethane	5.00	5.71		ug/L		114	74 - 130	1	15
1,2-Dichloropropane	5.00	5.19		ug/L		104	80 - 130	0	14
1,3,5-Trimethylbenzene	5.00	5.17		ug/L		103	80 - 139	3	20
1,3-Dichlorobenzene	5.00	5.32		ug/L		106	80 - 130	2	12
1,3-Dichloropropane	5.00	5.36		ug/L		107	80 - 130	3	19
1,4-Dichlorobenzene	5.00	5.20		ug/L		104	80 - 129	0	11
2,2-Dichloropropane	5.00	5.57		ug/L		111	58 - 150	19	28
2-Butanone	25.0	29.8		ug/L		119	64 - 136	8	23
2-Chlorotoluene	5.00	5.26		ug/L		105	80 - 136	2	20
4-Chlorotoluene	5.00	5.53		ug/L		111	80 - 130	2	20
4-Isopropyltoluene	5.00	5.08		ug/L		102	78 - 132	6	14
4-Methyl-2-pentanone	25.0	23.3		ug/L		93	65 - 137	3	24
Acetone	25.0	37.0		ug/L		148	49 - 150	8	24
Benzene	5.00	5.16		ug/L		103	73 - 133	4	20
Bromobenzene	5.00	5.25		ug/L		105	80 - 130	1	20
Bromochloromethane	5.00	4.88		ug/L		98	79 - 131	13	20
Bromodichloromethane	5.00	5.77		ug/L		115	74 - 131	1	20
Bromoform	5.00	4.74		ug/L		95	69 - 137	4	20
Bromomethane	5.00	5.09		ug/L		102	68 - 120	16	18
Carbon disulfide	5.00	4.67		ug/L		93	65 - 128	16	23
Carbon tetrachloride	5.00	5.29		ug/L		106	71 - 132	13	15
Chlorobenzene	5.00	5.12		ug/L		102	80 - 123	3	12
Chloroethane	5.00	4.86		ug/L		97	49 - 135	11	27
Chloroform	5.00	5.13		ug/L		103	80 - 130	11	20

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 580-312585/5**  
**Matrix: Water**  
**Analysis Batch: 312585**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane	5.00	4.65	*	ug/L		93	32 - 143	28	23
cis-1,2-Dichloroethene	5.00	4.77		ug/L		95	72 - 130	15	20
cis-1,3-Dichloropropene	5.00	5.72		ug/L		114	66 - 141	3	22
Dibromochloromethane	5.00	5.31		ug/L		106	76 - 131	1	20
Dibromomethane	5.00	5.25		ug/L		105	65 - 141	1	20
Dichlorodifluoromethane	5.00	4.31		ug/L		86	20 - 137	17	22
Ethylbenzene	5.00	5.46		ug/L		109	80 - 130	4	20
Hexachlorobutadiene	5.00	5.08		ug/L		102	72 - 138	10	20
Isopropylbenzene	5.00	5.52		ug/L		110	75 - 137	9	20
Methyl tert-butyl ether	5.00	4.70		ug/L		94	60 - 150	15	25
Methylene Chloride	5.00	5.04		ug/L		101	75 - 134	15	18
m-Xylene & p-Xylene	5.00	5.63		ug/L		113	78 - 130	4	20
Naphthalene	5.00	5.04		ug/L		101	64 - 132	12	20
n-Butylbenzene	5.00	4.93		ug/L		99	73 - 135	8	18
N-Propylbenzene	5.00	5.01		ug/L		100	77 - 142	2	20
o-Xylene	5.00	5.51		ug/L		110	80 - 139	7	20
sec-Butylbenzene	5.00	5.10		ug/L		102	78 - 140	4	20
Styrene	5.00	5.55		ug/L		111	74 - 136	1	20
t-Butylbenzene	5.00	5.19		ug/L		104	77 - 140	0	20
Tetrachloroethene	5.00	5.17		ug/L		103	75 - 131	4	20
Toluene	5.00	5.28		ug/L		106	80 - 126	3	20
trans-1,2-Dichloroethene	5.00	4.89		ug/L		98	63 - 133	14	17
trans-1,3-Dichloropropene	5.00	5.45		ug/L		109	71 - 128	5	21
Trichloroethene	5.00	5.41		ug/L		108	72 - 136	3	14
Trichlorofluoromethane	5.00	3.07	*	ug/L		61	60 - 132	69	20
Vinyl chloride	5.00	4.95	*	ug/L		99	52 - 128	23	21

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Trifluorotoluene (Surr)	91		80 - 120
Toluene-d8 (Surr)	96		80 - 120
1,2-Dichloroethane-d4 (Surr)	108		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120

**Lab Sample ID: MB 580-312662/7**  
**Matrix: Water**  
**Analysis Batch: 312662**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30	0.027	ug/L			09/28/19 18:16	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			09/28/19 18:16	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.056	ug/L			09/28/19 18:16	1
1,1,2-Trichloroethane	ND		0.20	0.070	ug/L			09/28/19 18:16	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			09/28/19 18:16	1
1,1-Dichloroethene	ND		0.20	0.10	ug/L			09/28/19 18:16	1
1,1-Dichloropropene	ND		0.20	0.036	ug/L			09/28/19 18:16	1
1,2,3-Trichlorobenzene	ND		0.50	0.15	ug/L			09/28/19 18:16	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			09/28/19 18:16	1

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 580-312662/7**

**Matrix: Water**

**Analysis Batch: 312662**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.30	0.072	ug/L			09/28/19 18:16	1
1,2,4-Trimethylbenzene	ND		0.30	0.072	ug/L			09/28/19 18:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			09/28/19 18:16	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			09/28/19 18:16	1
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			09/28/19 18:16	1
1,2-Dichloroethane	ND		0.20	0.043	ug/L			09/28/19 18:16	1
1,2-Dichloropropane	ND		0.20	0.060	ug/L			09/28/19 18:16	1
1,3,5-Trimethylbenzene	ND		0.50	0.15	ug/L			09/28/19 18:16	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			09/28/19 18:16	1
1,3-Dichloropropane	ND		0.20	0.056	ug/L			09/28/19 18:16	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			09/28/19 18:16	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			09/28/19 18:16	1
2-Butanone	ND		10	2.5	ug/L			09/28/19 18:16	1
2-Chlorotoluene	ND		0.50	0.12	ug/L			09/28/19 18:16	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			09/28/19 18:16	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			09/28/19 18:16	1
4-Methyl-2-pentanone	ND		5.0	1.7	ug/L			09/28/19 18:16	1
Acetone	ND		6.0	3.1	ug/L			09/28/19 18:16	1
Benzene	ND		0.20	0.030	ug/L			09/28/19 18:16	1
Bromobenzene	ND		0.20	0.035	ug/L			09/28/19 18:16	1
Bromochloromethane	ND		0.20	0.025	ug/L			09/28/19 18:16	1
Bromodichloromethane	ND		0.20	0.060	ug/L			09/28/19 18:16	1
Bromoform	ND		0.50	0.16	ug/L			09/28/19 18:16	1
Bromomethane	ND		0.50	0.16	ug/L			09/28/19 18:16	1
Carbon disulfide	ND		0.30	0.083	ug/L			09/28/19 18:16	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			09/28/19 18:16	1
Chlorobenzene	ND		0.20	0.025	ug/L			09/28/19 18:16	1
Chloroethane	ND		0.50	0.096	ug/L			09/28/19 18:16	1
Chloroform	ND		0.20	0.030	ug/L			09/28/19 18:16	1
Chloromethane	ND		0.50	0.15	ug/L			09/28/19 18:16	1
cis-1,2-Dichloroethene	ND		0.20	0.055	ug/L			09/28/19 18:16	1
cis-1,3-Dichloropropene	ND		0.20	0.090	ug/L			09/28/19 18:16	1
Dibromochloromethane	ND		0.20	0.055	ug/L			09/28/19 18:16	1
Dibromomethane	ND		0.20	0.062	ug/L			09/28/19 18:16	1
Dichlorodifluoromethane	ND		0.40	0.13	ug/L			09/28/19 18:16	1
Ethylbenzene	0.0563	J	0.20	0.030	ug/L			09/28/19 18:16	1
Hexachlorobutadiene	ND		0.50	0.15	ug/L			09/28/19 18:16	1
Isopropylbenzene	ND		1.0	0.19	ug/L			09/28/19 18:16	1
Methyl tert-butyl ether	ND		0.30	0.070	ug/L			09/28/19 18:16	1
Methylene Chloride	ND		5.0	0.74	ug/L			09/28/19 18:16	1
m-Xylene & p-Xylene	0.122	J	0.50	0.12	ug/L			09/28/19 18:16	1
Naphthalene	ND		1.0	0.22	ug/L			09/28/19 18:16	1
n-Butylbenzene	0.0892	J	0.50	0.080	ug/L			09/28/19 18:16	1
N-Propylbenzene	ND		0.30	0.091	ug/L			09/28/19 18:16	1
o-Xylene	ND		0.50	0.15	ug/L			09/28/19 18:16	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			09/28/19 18:16	1
Styrene	0.213	J	0.50	0.19	ug/L			09/28/19 18:16	1
t-Butylbenzene	0.136	J	0.50	0.10	ug/L			09/28/19 18:16	1
Tetrachloroethene	ND		0.50	0.084	ug/L			09/28/19 18:16	1



# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 580-312662/7**  
**Matrix: Water**  
**Analysis Batch: 312662**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.20	0.050	ug/L			09/28/19 18:16	1
trans-1,2-Dichloroethene	ND		0.20	0.089	ug/L			09/28/19 18:16	1
trans-1,3-Dichloropropene	ND		0.20	0.092	ug/L			09/28/19 18:16	1
Trichloroethene	ND		0.20	0.066	ug/L			09/28/19 18:16	1
Trichlorofluoromethane	ND		0.50	0.11	ug/L			09/28/19 18:16	1
Vinyl chloride	ND		0.020	0.013	ug/L			09/28/19 18:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	90		80 - 120		09/28/19 18:16	1
Toluene-d8 (Surr)	95		80 - 120		09/28/19 18:16	1
1,2-Dichloroethane-d4 (Surr)	118		80 - 120		09/28/19 18:16	1
4-Bromofluorobenzene (Surr)	110		80 - 120		09/28/19 18:16	1
Dibromofluoromethane (Surr)	107		80 - 120		09/28/19 18:16	1

**Lab Sample ID: LCS 580-312662/4**  
**Matrix: Water**  
**Analysis Batch: 312662**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.00	5.94		ug/L		119	79 - 127
1,1,1-Trichloroethane	5.00	6.63	*	ug/L		133	74 - 128
1,1,1,2-Tetrachloroethane	5.00	4.57		ug/L		91	69 - 139
1,1,2-Trichloroethane	5.00	5.00		ug/L		100	80 - 127
1,1-Dichloroethane	5.00	5.73		ug/L		115	74 - 135
1,1-Dichloroethene	5.00	5.90		ug/L		118	71 - 126
1,1-Dichloropropene	5.00	5.60		ug/L		112	72 - 132
1,2,3-Trichlorobenzene	5.00	6.00		ug/L		120	75 - 137
1,2,3-Trichloropropane	5.00	5.33		ug/L		107	80 - 127
1,2,4-Trichlorobenzene	5.00	6.04		ug/L		121	79 - 130
1,2,4-Trimethylbenzene	5.00	5.60		ug/L		112	78 - 136
1,2-Dibromo-3-Chloropropane	5.00	5.11		ug/L		102	69 - 130
1,2-Dibromoethane	5.00	5.13		ug/L		103	80 - 126
1,2-Dichlorobenzene	5.00	5.30		ug/L		106	80 - 129
1,2-Dichloroethane	5.00	5.90		ug/L		118	74 - 130
1,2-Dichloropropane	5.00	4.83		ug/L		97	80 - 130
1,3,5-Trimethylbenzene	5.00	5.12		ug/L		102	80 - 139
1,3-Dichlorobenzene	5.00	5.27		ug/L		105	80 - 130
1,3-Dichloropropane	5.00	5.07		ug/L		101	80 - 130
1,4-Dichlorobenzene	5.00	5.06		ug/L		101	80 - 129
2,2-Dichloropropane	5.00	7.26		ug/L		145	58 - 150
2-Butanone	25.0	27.7		ug/L		111	64 - 136
2-Chlorotoluene	5.00	5.21		ug/L		104	80 - 136
4-Chlorotoluene	5.00	5.24		ug/L		105	80 - 130
4-Isopropyltoluene	5.00	5.20		ug/L		104	78 - 132
4-Methyl-2-pentanone	25.0	25.3		ug/L		101	65 - 137
Acetone	25.0	20.9		ug/L		84	49 - 150
Benzene	5.00	5.27		ug/L		105	73 - 133
Bromobenzene	5.00	5.06		ug/L		101	80 - 130

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 580-312662/4**  
**Matrix: Water**  
**Analysis Batch: 312662**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	5.00	5.76		ug/L		115	79 - 131
Bromodichloromethane	5.00	5.77		ug/L		115	74 - 131
Bromoform	5.00	5.17		ug/L		103	69 - 137
Bromomethane	5.00	5.80		ug/L		116	68 - 120
Carbon disulfide	5.00	5.57		ug/L		111	65 - 128
Carbon tetrachloride	5.00	6.74	*	ug/L		135	71 - 132
Chlorobenzene	5.00	5.15		ug/L		103	80 - 123
Chloroethane	5.00	5.66		ug/L		113	49 - 135
Chloroform	5.00	6.12		ug/L		122	80 - 130
Chloromethane	5.00	5.61		ug/L		112	32 - 143
cis-1,2-Dichloroethene	5.00	5.72		ug/L		114	72 - 130
cis-1,3-Dichloropropene	5.00	4.95		ug/L		99	66 - 141
Dibromochloromethane	5.00	5.19		ug/L		104	76 - 131
Dibromomethane	5.00	5.25		ug/L		105	65 - 141
Dichlorodifluoromethane	5.00	5.32		ug/L		106	20 - 137
Ethylbenzene	5.00	5.73		ug/L		115	80 - 130
Hexachlorobutadiene	5.00	5.52		ug/L		110	72 - 138
Isopropylbenzene	5.00	6.07		ug/L		121	75 - 137
Methyl tert-butyl ether	5.00	6.34		ug/L		127	60 - 150
Methylene Chloride	5.00	6.03		ug/L		121	75 - 134
m-Xylene & p-Xylene	5.00	5.91		ug/L		118	78 - 130
Naphthalene	5.00	6.18		ug/L		124	64 - 132
n-Butylbenzene	5.00	5.26		ug/L		105	73 - 135
N-Propylbenzene	5.00	5.01		ug/L		100	77 - 142
o-Xylene	5.00	5.98		ug/L		120	80 - 139
sec-Butylbenzene	5.00	5.07		ug/L		101	78 - 140
Styrene	5.00	5.61		ug/L		112	74 - 136
t-Butylbenzene	5.00	4.71		ug/L		94	77 - 140
Tetrachloroethene	5.00	5.11		ug/L		102	75 - 131
Toluene	5.00	5.00		ug/L		100	80 - 126
trans-1,2-Dichloroethene	5.00	5.88		ug/L		118	63 - 133
trans-1,3-Dichloropropene	5.00	4.92		ug/L		98	71 - 128
Trichloroethene	5.00	5.40		ug/L		108	72 - 136
Trichlorofluoromethane	5.00	7.15	*	ug/L		143	60 - 132
Vinyl chloride	5.00	6.00		ug/L		120	52 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Trifluorotoluene (Surr)	87		80 - 120
Toluene-d8 (Surr)	92		80 - 120
1,2-Dichloroethane-d4 (Surr)	116		80 - 120
4-Bromofluorobenzene (Surr)	113		80 - 120
Dibromofluoromethane (Surr)	117		80 - 120

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 580-312662/5**

**Matrix: Water**

**Analysis Batch: 312662**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	5.99		ug/L		120	79 - 127	1	20
1,1,1-Trichloroethane	5.00	6.53	*	ug/L		131	74 - 128	1	14
1,1,2,2-Tetrachloroethane	5.00	4.42		ug/L		88	69 - 139	3	22
1,1,2-Trichloroethane	5.00	4.94		ug/L		99	80 - 127	1	19
1,1-Dichloroethane	5.00	5.53		ug/L		111	74 - 135	3	20
1,1-Dichloroethene	5.00	5.72		ug/L		114	71 - 126	3	17
1,1-Dichloropropene	5.00	5.56		ug/L		111	72 - 132	1	13
1,2,3-Trichlorobenzene	5.00	5.87		ug/L		117	75 - 137	2	20
1,2,3-Trichloropropane	5.00	5.02		ug/L		100	80 - 127	6	20
1,2,4-Trichlorobenzene	5.00	6.12		ug/L		122	79 - 130	1	20
1,2,4-Trimethylbenzene	5.00	5.74		ug/L		115	78 - 136	3	20
1,2-Dibromo-3-Chloropropane	5.00	4.97		ug/L		99	69 - 130	3	26
1,2-Dibromoethane	5.00	4.90		ug/L		98	80 - 126	5	20
1,2-Dichlorobenzene	5.00	5.30		ug/L		106	80 - 129	0	14
1,2-Dichloroethane	5.00	5.74		ug/L		115	74 - 130	3	15
1,2-Dichloropropane	5.00	4.83		ug/L		97	80 - 130	0	14
1,3,5-Trimethylbenzene	5.00	5.22		ug/L		104	80 - 139	2	20
1,3-Dichlorobenzene	5.00	5.29		ug/L		106	80 - 130	0	12
1,3-Dichloropropane	5.00	4.82		ug/L		96	80 - 130	5	19
1,4-Dichlorobenzene	5.00	5.10		ug/L		102	80 - 129	1	11
2,2-Dichloropropane	5.00	6.99		ug/L		140	58 - 150	4	28
2-Butanone	25.0	26.1		ug/L		104	64 - 136	6	23
2-Chlorotoluene	5.00	5.29		ug/L		106	80 - 136	2	20
4-Chlorotoluene	5.00	5.32		ug/L		106	80 - 130	2	20
4-Isopropyltoluene	5.00	5.28		ug/L		106	78 - 132	1	14
4-Methyl-2-pentanone	25.0	23.5		ug/L		94	65 - 137	7	24
Acetone	25.0	22.8		ug/L		91	49 - 150	8	24
Benzene	5.00	5.24		ug/L		105	73 - 133	1	20
Bromobenzene	5.00	5.01		ug/L		100	80 - 130	1	20
Bromochloromethane	5.00	5.63		ug/L		113	79 - 131	2	20
Bromodichloromethane	5.00	5.48		ug/L		110	74 - 131	5	20
Bromoform	5.00	4.91		ug/L		98	69 - 137	5	20
Bromomethane	5.00	5.68		ug/L		114	68 - 120	2	18
Carbon disulfide	5.00	5.43		ug/L		109	65 - 128	3	23
Carbon tetrachloride	5.00	6.59		ug/L		132	71 - 132	2	15
Chlorobenzene	5.00	5.09		ug/L		102	80 - 123	1	12
Chloroethane	5.00	5.78		ug/L		116	49 - 135	2	27
Chloroform	5.00	6.03		ug/L		121	80 - 130	2	20
Chloromethane	5.00	5.30		ug/L		106	32 - 143	6	23
cis-1,2-Dichloroethene	5.00	5.66		ug/L		113	72 - 130	1	20
cis-1,3-Dichloropropene	5.00	5.12		ug/L		102	66 - 141	3	22
Dibromochloromethane	5.00	5.14		ug/L		103	76 - 131	1	20
Dibromomethane	5.00	5.20		ug/L		104	65 - 141	1	20
Dichlorodifluoromethane	5.00	5.01		ug/L		100	20 - 137	6	22
Ethylbenzene	5.00	5.78		ug/L		116	80 - 130	1	20
Hexachlorobutadiene	5.00	5.66		ug/L		113	72 - 138	3	20
Isopropylbenzene	5.00	6.24		ug/L		125	75 - 137	3	20
Methyl tert-butyl ether	5.00	5.82		ug/L		116	60 - 150	9	25

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 580-312662/5**  
**Matrix: Water**  
**Analysis Batch: 312662**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	5.00	5.84		ug/L		117	75 - 134	3	18
m-Xylene & p-Xylene	5.00	5.96		ug/L		119	78 - 130	1	20
Naphthalene	5.00	5.91		ug/L		118	64 - 132	5	20
n-Butylbenzene	5.00	5.35		ug/L		107	73 - 135	2	18
N-Propylbenzene	5.00	5.09		ug/L		102	77 - 142	2	20
o-Xylene	5.00	6.05		ug/L		121	80 - 139	1	20
sec-Butylbenzene	5.00	5.16		ug/L		103	78 - 140	2	20
Styrene	5.00	5.51		ug/L		110	74 - 136	2	20
t-Butylbenzene	5.00	4.94		ug/L		99	77 - 140	5	20
Tetrachloroethene	5.00	5.24		ug/L		105	75 - 131	2	20
Toluene	5.00	5.16		ug/L		103	80 - 126	3	20
trans-1,2-Dichloroethene	5.00	5.83		ug/L		117	63 - 133	1	17
trans-1,3-Dichloropropene	5.00	4.83		ug/L		97	71 - 128	2	21
Trichloroethene	5.00	5.37		ug/L		107	72 - 136	1	14
Trichlorofluoromethane	5.00	7.06	*	ug/L		141	60 - 132	1	20
Vinyl chloride	5.00	5.62		ug/L		112	52 - 128	7	21

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Trifluorotoluene (Surr)	93		80 - 120
Toluene-d8 (Surr)	96		80 - 120
1,2-Dichloroethane-d4 (Surr)	113		80 - 120
4-Bromofluorobenzene (Surr)	110		80 - 120
Dibromofluoromethane (Surr)	114		80 - 120

## Method: AK101 - Alaska - Gasoline Range Organics (GC)

**Lab Sample ID: MB 580-311813/7**  
**Matrix: Water**  
**Analysis Batch: 311813**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/20/19 12:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	98		50 - 150		09/20/19 12:32	1
4-Bromofluorobenzene (Surr)	86		50 - 150		09/20/19 12:32	1

**Lab Sample ID: LCS 580-311813/8**  
**Matrix: Water**  
**Analysis Batch: 311813**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	1.00	0.899		mg/L		90	77 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Trifluorotoluene (Surr)	97		50 - 150

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: AK101 - Alaska - Gasoline Range Organics (GC) (Continued)

**Lab Sample ID: LCS 580-311813/8**  
**Matrix: Water**  
**Analysis Batch: 311813**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		50 - 150

**Lab Sample ID: LCSD 580-311813/9**  
**Matrix: Water**  
**Analysis Batch: 311813**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	1.00	0.899		mg/L		90	77 - 123	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Trifluorotoluene (Surr)	94		50 - 150
4-Bromofluorobenzene (Surr)	91		50 - 150

**Lab Sample ID: MB 580-311815/9**  
**Matrix: Water**  
**Analysis Batch: 311815**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.25	0.10	mg/L			09/20/19 14:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	119		50 - 150		09/20/19 14:36	1
4-Bromofluorobenzene (Surr)	91		50 - 150		09/20/19 14:36	1

**Lab Sample ID: LCS 580-311815/10**  
**Matrix: Water**  
**Analysis Batch: 311815**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	1.00	0.989		mg/L		99	77 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Trifluorotoluene (Surr)	106		50 - 150
4-Bromofluorobenzene (Surr)	95		50 - 150

**Lab Sample ID: LCSD 580-311815/11**  
**Matrix: Water**  
**Analysis Batch: 311815**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	1.00	0.996		mg/L		100	77 - 123	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Trifluorotoluene (Surr)	103		50 - 150

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: AK101 - Alaska - Gasoline Range Organics (GC) (Continued)

**Lab Sample ID: LCSD 580-311815/11**  
**Matrix: Water**  
**Analysis Batch: 311815**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Surrogate	LCS D %Recovery	LCS D Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		50 - 150

## Method: 8011 - EDB and DBCP in Water by Microextraction

**Lab Sample ID: MB 580-312652/3-A**  
**Matrix: Water**  
**Analysis Batch: 312767**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 312652**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.030	0.0080	ug/L		09/28/19 15:07	09/30/19 13:59	1
Ethylene Dibromide	ND		0.010	0.0020	ug/L		09/28/19 15:07	09/30/19 13:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	91		60 - 140	09/28/19 15:07	09/30/19 13:59	1

**Lab Sample ID: LCS 580-312652/4-A**  
**Matrix: Water**  
**Analysis Batch: 312767**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 312652**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,3-Trichloropropane	0.0571	0.0486		ug/L		85	60 - 140
Ethylene Dibromide	0.0571	0.0594		ug/L		104	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dibromopropane	123		60 - 140

**Lab Sample ID: LCSD 580-312652/5-A**  
**Matrix: Water**  
**Analysis Batch: 312767**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 312652**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,2,3-Trichloropropane	0.0571	0.0562		ug/L		98	60 - 140	14	20
Ethylene Dibromide	0.0571	0.0620		ug/L		108	60 - 140	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dibromopropane	105		60 - 140

**Lab Sample ID: LLCS 580-312652/6-A**  
**Matrix: Water**  
**Analysis Batch: 312767**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 312652**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
1,2,3-Trichloropropane	0.0114	0.0160	J	ug/L		140	60 - 140
Ethylene Dibromide	0.0114	0.0242	*	ug/L		211	60 - 140

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
1,2-Dibromopropane	108		60 - 140

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

**Lab Sample ID: MB 590-24414/1-A**  
**Matrix: Water**  
**Analysis Batch: 24407**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 24414**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.25	0.090	mg/L		09/29/19 12:37	09/29/19 19:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	90		50 - 150	09/29/19 12:37	09/29/19 19:06	1
<i>n</i> -Triacontane-d62	92		50 - 150	09/29/19 12:37	09/29/19 19:06	1

**Lab Sample ID: LCS 590-24414/2-A**  
**Matrix: Water**  
**Analysis Batch: 24407**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 24414**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (nC10-<nC25)	1.60	1.53		mg/L		96	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	97		50 - 150
<i>n</i> -Triacontane-d62	97		50 - 150

**Lab Sample ID: LCSD 590-24414/3-A**  
**Matrix: Water**  
**Analysis Batch: 24407**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 24414**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO (nC10-<nC25)	1.60	1.56		mg/L		97	75 - 125	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	95		50 - 150
<i>n</i> -Triacontane-d62	100		50 - 150

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## GC/MS VOA

### Analysis Batch: 312585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89287-1	EQB-1-W-190917	Total/NA	Water	8260C	
580-89287-2	MW-4-W-190917	Total/NA	Water	8260C	
580-89287-3	MW-8-W-190917	Total/NA	Water	8260C	
580-89287-4	SP-3-W-190917	Total/NA	Water	8260C	
580-89287-5	SP-2-W-190917	Total/NA	Water	8260C	
580-89287-6	SP-1-W-190917	Total/NA	Water	8260C	
580-89287-7	MW-10-W-190917	Total/NA	Water	8260C	
580-89287-8	MW-7-W-190917	Total/NA	Water	8260C	
580-89287-9	MW-5-W-190917	Total/NA	Water	8260C	
580-89287-10	MW-6-W-190917	Total/NA	Water	8260C	
580-89287-11	MW-1-W-190917	Total/NA	Water	8260C	
580-89287-12	MW-2-W-190917	Total/NA	Water	8260C	
580-89287-13	MW-3-W-190917	Total/NA	Water	8260C	
580-89287-14	BD-1-W-190917	Total/NA	Water	8260C	
580-89287-15	BD-2-W-190917	Total/NA	Water	8260C	
580-89287-16	Trip Blank_190917	Total/NA	Water	8260C	
MB 580-312585/7	Method Blank	Total/NA	Water	8260C	
LCS 580-312585/4	Lab Control Sample	Total/NA	Water	8260C	
LCS 580-312585/5	Lab Control Sample Dup	Total/NA	Water	8260C	

### Analysis Batch: 312662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89287-1 - RA	EQB-1-W-190917	Total/NA	Water	8260C	
580-89287-8 - DL	MW-7-W-190917	Total/NA	Water	8260C	
580-89287-10 - RA	MW-6-W-190917	Total/NA	Water	8260C	
580-89287-13 - DL	MW-3-W-190917	Total/NA	Water	8260C	
MB 580-312662/7	Method Blank	Total/NA	Water	8260C	
LCS 580-312662/4	Lab Control Sample	Total/NA	Water	8260C	
LCS 580-312662/5	Lab Control Sample Dup	Total/NA	Water	8260C	

## GC VOA

### Analysis Batch: 311813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89287-2	MW-4-W-190917	Total/NA	Water	AK101	
580-89287-3	MW-8-W-190917	Total/NA	Water	AK101	
580-89287-4	SP-3-W-190917	Total/NA	Water	AK101	
MB 580-311813/7	Method Blank	Total/NA	Water	AK101	
LCS 580-311813/8	Lab Control Sample	Total/NA	Water	AK101	
LCS 580-311813/9	Lab Control Sample Dup	Total/NA	Water	AK101	

### Analysis Batch: 311815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89287-1	EQB-1-W-190917	Total/NA	Water	AK101	
580-89287-5	SP-2-W-190917	Total/NA	Water	AK101	
580-89287-6	SP-1-W-190917	Total/NA	Water	AK101	
580-89287-7	MW-10-W-190917	Total/NA	Water	AK101	
580-89287-8	MW-7-W-190917	Total/NA	Water	AK101	
580-89287-9	MW-5-W-190917	Total/NA	Water	AK101	
580-89287-10	MW-6-W-190917	Total/NA	Water	AK101	
580-89287-11	MW-1-W-190917	Total/NA	Water	AK101	



# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## GC VOA (Continued)

### Analysis Batch: 311815 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89287-12	MW-2-W-190917	Total/NA	Water	AK101	
580-89287-13	MW-3-W-190917	Total/NA	Water	AK101	
580-89287-14	BD-1-W-190917	Total/NA	Water	AK101	
580-89287-15	BD-2-W-190917	Total/NA	Water	AK101	
580-89287-16	Trip Blank_190917	Total/NA	Water	AK101	
MB 580-311815/9	Method Blank	Total/NA	Water	AK101	
LCS 580-311815/10	Lab Control Sample	Total/NA	Water	AK101	
LCSD 580-311815/11	Lab Control Sample Dup	Total/NA	Water	AK101	

## GC Semi VOA

### Analysis Batch: 24407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89287-1	EQB-1-W-190917	Total/NA	Water	AK102 & 103	24414
580-89287-2	MW-4-W-190917	Total/NA	Water	AK102 & 103	24414
580-89287-3	MW-8-W-190917	Total/NA	Water	AK102 & 103	24414
580-89287-4	SP-3-W-190917	Total/NA	Water	AK102 & 103	24414
580-89287-5	SP-2-W-190917	Total/NA	Water	AK102 & 103	24414
580-89287-6	SP-1-W-190917	Total/NA	Water	AK102 & 103	24414
580-89287-7	MW-10-W-190917	Total/NA	Water	AK102 & 103	24414
580-89287-8	MW-7-W-190917	Total/NA	Water	AK102 & 103	24414
580-89287-9	MW-5-W-190917	Total/NA	Water	AK102 & 103	24414
580-89287-10	MW-6-W-190917	Total/NA	Water	AK102 & 103	24414
580-89287-11	MW-1-W-190917	Total/NA	Water	AK102 & 103	24414
580-89287-12	MW-2-W-190917	Total/NA	Water	AK102 & 103	24414
580-89287-13	MW-3-W-190917	Total/NA	Water	AK102 & 103	24414
580-89287-14	BD-1-W-190917	Total/NA	Water	AK102 & 103	24414
580-89287-15	BD-2-W-190917	Total/NA	Water	AK102 & 103	24414
MB 590-24414/1-A	Method Blank	Total/NA	Water	AK102 & 103	24414
LCS 590-24414/2-A	Lab Control Sample	Total/NA	Water	AK102 & 103	24414
LCSD 590-24414/3-A	Lab Control Sample Dup	Total/NA	Water	AK102 & 103	24414

### Prep Batch: 24414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89287-1	EQB-1-W-190917	Total/NA	Water	3510C	
580-89287-2	MW-4-W-190917	Total/NA	Water	3510C	
580-89287-3	MW-8-W-190917	Total/NA	Water	3510C	
580-89287-4	SP-3-W-190917	Total/NA	Water	3510C	
580-89287-5	SP-2-W-190917	Total/NA	Water	3510C	
580-89287-6	SP-1-W-190917	Total/NA	Water	3510C	
580-89287-7	MW-10-W-190917	Total/NA	Water	3510C	
580-89287-8	MW-7-W-190917	Total/NA	Water	3510C	
580-89287-9	MW-5-W-190917	Total/NA	Water	3510C	
580-89287-10	MW-6-W-190917	Total/NA	Water	3510C	
580-89287-11	MW-1-W-190917	Total/NA	Water	3510C	
580-89287-12	MW-2-W-190917	Total/NA	Water	3510C	
580-89287-13	MW-3-W-190917	Total/NA	Water	3510C	
580-89287-14	BD-1-W-190917	Total/NA	Water	3510C	
580-89287-15	BD-2-W-190917	Total/NA	Water	3510C	
MB 590-24414/1-A	Method Blank	Total/NA	Water	3510C	
LCS 590-24414/2-A	Lab Control Sample	Total/NA	Water	3510C	

# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## GC Semi VOA (Continued)

### Prep Batch: 24414 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 590-24414/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

### Prep Batch: 312652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89287-7	MW-10-W-190917	Total/NA	Water	8011	
580-89287-8	MW-7-W-190917	Total/NA	Water	8011	
580-89287-10	MW-6-W-190917	Total/NA	Water	8011	
580-89287-12	MW-2-W-190917	Total/NA	Water	8011	
580-89287-13	MW-3-W-190917	Total/NA	Water	8011	
MB 580-312652/3-A	Method Blank	Total/NA	Water	8011	
LCS 580-312652/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 580-312652/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
LLCS 580-312652/6-A	Lab Control Sample	Total/NA	Water	8011	

### Analysis Batch: 312767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-89287-7	MW-10-W-190917	Total/NA	Water	8011	312652
580-89287-8	MW-7-W-190917	Total/NA	Water	8011	312652
580-89287-10	MW-6-W-190917	Total/NA	Water	8011	312652
580-89287-12	MW-2-W-190917	Total/NA	Water	8011	312652
580-89287-13	MW-3-W-190917	Total/NA	Water	8011	312652
MB 580-312652/3-A	Method Blank	Total/NA	Water	8011	312652
LCS 580-312652/4-A	Lab Control Sample	Total/NA	Water	8011	312652
LCSD 580-312652/5-A	Lab Control Sample Dup	Total/NA	Water	8011	312652
LLCS 580-312652/6-A	Lab Control Sample	Total/NA	Water	8011	312652

# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: EQB-1-W-190917**

**Lab Sample ID: 580-89287-1**

**Date Collected: 09/17/19 09:30**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312585	09/27/19 20:34	DSO	TAL SEA
Total/NA	Analysis	8260C	RA	1	312662	09/28/19 18:43	DSO	TAL SEA
Total/NA	Analysis	AK101		1	311815	09/20/19 16:07	DCV	TAL SEA
Total/NA	Prep	3510C			24414	09/29/19 12:37	AMB	TAL SPK
Total/NA	Analysis	AK102 & 103		1	24407	09/29/19 20:04	NMI	TAL SPK

**Client Sample ID: MW-4-W-190917**

**Lab Sample ID: 580-89287-2**

**Date Collected: 09/17/19 09:50**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312585	09/27/19 21:00	DSO	TAL SEA
Total/NA	Analysis	AK101		1	311813	09/20/19 16:12	DCV	TAL SEA
Total/NA	Prep	3510C			24414	09/29/19 12:37	AMB	TAL SPK
Total/NA	Analysis	AK102 & 103		1	24407	09/29/19 20:23	NMI	TAL SPK

**Client Sample ID: MW-8-W-190917**

**Lab Sample ID: 580-89287-3**

**Date Collected: 09/17/19 10:50**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312585	09/27/19 21:27	DSO	TAL SEA
Total/NA	Analysis	AK101		1	311813	09/20/19 16:37	DCV	TAL SEA
Total/NA	Prep	3510C			24414	09/29/19 12:37	AMB	TAL SPK
Total/NA	Analysis	AK102 & 103		1	24407	09/29/19 20:42	NMI	TAL SPK

**Client Sample ID: SP-3-W-190917**

**Lab Sample ID: 580-89287-4**

**Date Collected: 09/17/19 11:00**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312585	09/27/19 21:54	DSO	TAL SEA
Total/NA	Analysis	AK101		1	311813	09/20/19 17:01	DCV	TAL SEA
Total/NA	Prep	3510C			24414	09/29/19 12:37	AMB	TAL SPK
Total/NA	Analysis	AK102 & 103		1	24407	09/29/19 21:01	NMI	TAL SPK

**Client Sample ID: SP-2-W-190917**

**Lab Sample ID: 580-89287-5**

**Date Collected: 09/17/19 11:10**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312585	09/27/19 22:20	DSO	TAL SEA
Total/NA	Analysis	AK101		1	311815	09/20/19 20:10	DCV	TAL SEA
Total/NA	Prep	3510C			24414	09/29/19 12:37	AMB	TAL SPK
Total/NA	Analysis	AK102 & 103		1	24407	09/29/19 21:20	NMI	TAL SPK

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# Lab Chronicle

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: SP-1-W-190917**

**Lab Sample ID: 580-89287-6**

**Date Collected: 09/17/19 11:20**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312585	09/27/19 22:47	DSO	TAL SEA
Total/NA	Analysis	AK101		1	311815	09/20/19 20:41	DCV	TAL SEA
Total/NA	Prep	3510C			24414	09/29/19 12:37	AMB	TAL SPK
Total/NA	Analysis	AK102 & 103		1	24407	09/29/19 21:40	NMI	TAL SPK

**Client Sample ID: MW-10-W-190917**

**Lab Sample ID: 580-89287-7**

**Date Collected: 09/17/19 12:00**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312585	09/27/19 23:13	DSO	TAL SEA
Total/NA	Analysis	AK101		1	311815	09/20/19 21:11	DCV	TAL SEA
Total/NA	Prep	8011			312652	09/28/19 15:57	CJB	TAL SEA
Total/NA	Analysis	8011		1	312767	09/30/19 19:06	CJ	TAL SEA
Total/NA	Prep	3510C			24414	09/29/19 12:37	AMB	TAL SPK
Total/NA	Analysis	AK102 & 103		1	24407	09/29/19 21:59	NMI	TAL SPK

**Client Sample ID: MW-7-W-190917**

**Lab Sample ID: 580-89287-8**

**Date Collected: 09/17/19 12:45**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312585	09/28/19 02:19	DSO	TAL SEA
Total/NA	Analysis	8260C	DL	100	312662	09/28/19 20:02	DSO	TAL SEA
Total/NA	Analysis	AK101		1	311815	09/21/19 00:44	DCV	TAL SEA
Total/NA	Prep	8011			312652	09/28/19 15:57	CJB	TAL SEA
Total/NA	Analysis	8011		1	312767	09/30/19 19:22	CJ	TAL SEA
Total/NA	Prep	3510C			24414	09/29/19 12:37	AMB	TAL SPK
Total/NA	Analysis	AK102 & 103		1	24407	09/29/19 22:38	NMI	TAL SPK

**Client Sample ID: MW-5-W-190917**

**Lab Sample ID: 580-89287-9**

**Date Collected: 09/17/19 13:20**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312585	09/28/19 00:06	DSO	TAL SEA
Total/NA	Analysis	AK101		1	311815	09/21/19 01:15	DCV	TAL SEA
Total/NA	Prep	3510C			24414	09/29/19 12:37	AMB	TAL SPK
Total/NA	Analysis	AK102 & 103		1	24407	09/29/19 22:57	NMI	TAL SPK

# Lab Chronicle

Client: ARCADIS U.S. Inc  
 Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: MW-6-W-190917**

**Lab Sample ID: 580-89287-10**

**Date Collected: 09/17/19 14:20**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312585	09/27/19 23:40	DSO	TAL SEA
Total/NA	Analysis	8260C	RA	1	312662	09/28/19 19:09	DSO	TAL SEA
Total/NA	Analysis	AK101		1	311815	09/21/19 01:45	DCV	TAL SEA
Total/NA	Prep	8011			312652	09/28/19 15:57	CJB	TAL SEA
Total/NA	Analysis	8011		1	312767	09/30/19 19:54	CJ	TAL SEA
Total/NA	Prep	3510C			24414	09/29/19 12:37	AMB	TAL SPK
Total/NA	Analysis	AK102 & 103		1	24407	09/29/19 23:16	NMI	TAL SPK

**Client Sample ID: MW-1-W-190917**

**Lab Sample ID: 580-89287-11**

**Date Collected: 09/17/19 15:00**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312585	09/28/19 00:33	DSO	TAL SEA
Total/NA	Analysis	AK101		1	311815	09/20/19 21:42	DCV	TAL SEA
Total/NA	Prep	3510C			24414	09/29/19 12:37	AMB	TAL SPK
Total/NA	Analysis	AK102 & 103		1	24407	09/29/19 23:35	NMI	TAL SPK

**Client Sample ID: MW-2-W-190917**

**Lab Sample ID: 580-89287-12**

**Date Collected: 09/17/19 15:30**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312585	09/28/19 00:59	DSO	TAL SEA
Total/NA	Analysis	AK101		1	311815	09/20/19 22:12	DCV	TAL SEA
Total/NA	Prep	8011			312652	09/28/19 15:57	CJB	TAL SEA
Total/NA	Analysis	8011		1	312767	09/30/19 20:10	CJ	TAL SEA
Total/NA	Prep	3510C			24414	09/29/19 12:37	AMB	TAL SPK
Total/NA	Analysis	AK102 & 103		1	24407	09/29/19 23:55	NMI	TAL SPK

**Client Sample ID: MW-3-W-190917**

**Lab Sample ID: 580-89287-13**

**Date Collected: 09/17/19 16:00**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312585	09/28/19 01:26	DSO	TAL SEA
Total/NA	Analysis	8260C	DL	100	312662	09/28/19 20:29	DSO	TAL SEA
Total/NA	Analysis	AK101		1	311815	09/20/19 22:43	DCV	TAL SEA
Total/NA	Prep	8011			312652	09/28/19 15:57	CJB	TAL SEA
Total/NA	Analysis	8011		1	312767	09/30/19 20:26	CJ	TAL SEA
Total/NA	Prep	3510C			24414	09/29/19 12:37	AMB	TAL SPK
Total/NA	Analysis	AK102 & 103		1	24407	09/30/19 00:14	NMI	TAL SPK

# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

**Client Sample ID: BD-1-W-190917**

**Lab Sample ID: 580-89287-14**

**Date Collected: 09/17/19 00:00**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312585	09/28/19 01:52	DSO	TAL SEA
Total/NA	Analysis	AK101		1	311815	09/20/19 23:13	DCV	TAL SEA
Total/NA	Prep	3510C			24414	09/29/19 12:37	AMB	TAL SPK
Total/NA	Analysis	AK102 & 103		1	24407	09/30/19 00:33	NMI	TAL SPK

**Client Sample ID: BD-2-W-190917**

**Lab Sample ID: 580-89287-15**

**Date Collected: 09/17/19 00:00**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312585	09/27/19 18:48	DSO	TAL SEA
Total/NA	Analysis	AK101		1	311815	09/20/19 23:44	DCV	TAL SEA
Total/NA	Prep	3510C			24414	09/29/19 12:37	AMB	TAL SPK
Total/NA	Analysis	AK102 & 103		1	24407	09/30/19 00:52	NMI	TAL SPK

**Client Sample ID: Trip Blank\_190917**

**Lab Sample ID: 580-89287-16**

**Date Collected: 09/17/19 00:00**

**Matrix: Water**

**Date Received: 09/18/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312585	09/27/19 19:14	DSO	TAL SEA
Total/NA	Analysis	AK101		1	311815	09/20/19 16:37	DCV	TAL SEA

**Laboratory References:**

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

# Accreditation/Certification Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

## Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	01-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-19
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-05-19
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00039	02-10-20
Washington	State	C553	02-17-20

## Laboratory: Eurofins TestAmerica, Spokane

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-025	11-05-19
Oregon	NELAP	4137	12-07-19
Washington	State	C569	01-06-20

# Method Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL SEA
AK101	Alaska - Gasoline Range Organics (GC)	ADEC	TAL SEA
8011	EDB and DBCP in Water by Microextraction	EPA	TAL SEA
AK102 & 103	Alaska - Diesel Range Organics & Residual Range Organics (GC)	ADEC	TAL SPK
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL SPK
5030B	Purge and Trap	SW846	TAL SEA
8011	Microextraction	SW846	TAL SEA

#### Protocol References:

ADEC = Alaska Department of Environmental Conservation

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



# Sample Summary

Client: ARCADIS U.S. Inc  
Project/Site: Chevron Site 95414 Anchorage, Alaska

Job ID: 580-89287-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-89287-1	EQB-1-W-190917	Water	09/17/19 09:30	09/18/19 08:50	
580-89287-2	MW-4-W-190917	Water	09/17/19 09:50	09/18/19 08:50	
580-89287-3	MW-8-W-190917	Water	09/17/19 10:50	09/18/19 08:50	
580-89287-4	SP-3-W-190917	Water	09/17/19 11:00	09/18/19 08:50	
580-89287-5	SP-2-W-190917	Water	09/17/19 11:10	09/18/19 08:50	
580-89287-6	SP-1-W-190917	Water	09/17/19 11:20	09/18/19 08:50	
580-89287-7	MW-10-W-190917	Water	09/17/19 12:00	09/18/19 08:50	
580-89287-8	MW-7-W-190917	Water	09/17/19 12:45	09/18/19 08:50	
580-89287-9	MW-5-W-190917	Water	09/17/19 13:20	09/18/19 08:50	
580-89287-10	MW-6-W-190917	Water	09/17/19 14:20	09/18/19 08:50	
580-89287-11	MW-1-W-190917	Water	09/17/19 15:00	09/18/19 08:50	
580-89287-12	MW-2-W-190917	Water	09/17/19 15:30	09/18/19 08:50	
580-89287-13	MW-3-W-190917	Water	09/17/19 16:00	09/18/19 08:50	
580-89287-14	BD-1-W-190917	Water	09/17/19 00:00	09/18/19 08:50	
580-89287-15	BD-2-W-190917	Water	09/17/19 00:00	09/18/19 08:50	
580-89287-16	Trip Blank_190917	Water	09/17/19 00:00	09/18/19 08:50	

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Analysis Batch Number: 311485Lab Sample ID: STD 580-311485/3 IC Client Sample ID: \_\_\_\_\_Date Analyzed: 09/17/19 19:00 Lab File ID: 09171903b.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	4.63	Assign Peak	overmand	09/17/19 20:31
Chloroethane	5.24	Baseline	jantanuc	09/18/19 14:57
Trichlorofluoromethane	5.93	Baseline	jantanuc	09/18/19 14:57
Acrolein	5.99	Baseline	jantanuc	09/18/19 14:57
1,1-Dichloroethene	6.47	Baseline	jantanuc	09/18/19 14:57
Acrylonitrile	6.61	Baseline	jantanuc	09/18/19 15:07
Hexane	7.84	Baseline	jantanuc	09/18/19 14:59
2-Butanone	7.94	Baseline	jantanuc	09/18/19 14:59
1,1,1,2-Tetrachloroethane	12.26	Baseline	jantanuc	09/18/19 14:58
Chlorobenzene	12.34	Baseline	jantanuc	09/18/19 14:58
trans-1,4-Dichloro-2-butene	13.20	Baseline	jantanuc	09/18/19 14:58
1,3-Dichlorobenzene	14.58	Baseline	jantanuc	09/18/19 14:58
4-Isopropyltoluene	14.63	Baseline	jantanuc	09/18/19 14:58
1,4-Dichlorobenzene	14.64	Baseline	jantanuc	09/18/19 14:58

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Analysis Batch Number: 311485Lab Sample ID: STD 580-311485/4 IC Client Sample ID: \_\_\_\_\_Date Analyzed: 09/17/19 19:26 Lab File ID: 09171904b.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	4.65	Assign Peak	overmand	09/17/19 20:31
Chloroethane	5.27	Baseline	jantanuc	09/18/19 15:03
Acrolein	5.95	Baseline	jantanuc	09/18/19 15:03
Acetone	6.08	Baseline	jantanuc	09/18/19 15:03
Acrylonitrile	6.62	Baseline	jantanuc	09/18/19 15:07
Hexane	7.85	Peak assignment corrected	jantanuc	09/18/19 15:06
2-Butanone	7.92	Baseline	jantanuc	09/18/19 15:07
2-Hexanone	11.17	Peak assignment corrected	jantanuc	09/18/19 15:08
1,1,1,2-Tetrachloroethane	12.26	Peak assignment corrected	jantanuc	09/18/19 15:08
Chlorobenzene	12.34	Peak assignment corrected	jantanuc	09/18/19 15:09
trans-1,4-Dichloro-2-butene	13.19	Peak assignment corrected	jantanuc	09/18/19 15:09
1,3-Dichlorobenzene	14.58	Peak assignment corrected	jantanuc	09/18/19 15:09
1,4-Dichlorobenzene	14.64	Peak assignment corrected	jantanuc	09/18/19 15:09

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Analysis Batch Number: 311485Lab Sample ID: STD 580-311485/5 IC Client Sample ID: \_\_\_\_\_Date Analyzed: 09/17/19 20:15 Lab File ID: 09171905b.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	4.07	Baseline	jantanuc	09/18/19 15:09
Chloromethane	4.36	Assign Peak	overmand	09/18/19 09:26
Vinyl chloride	4.65	Baseline	jantanuc	09/18/19 15:09
Acrolein	5.94	Baseline	jantanuc	09/18/19 15:10
Acetone	6.08	Baseline	jantanuc	09/18/19 15:10
Acrylonitrile	6.57	Baseline	jantanuc	09/18/19 15:10
Hexane	7.84	Baseline	jantanuc	09/18/19 15:10
2-Butanone	7.92	Baseline	jantanuc	09/18/19 15:10
1,1,1,2-Tetrachloroethane	12.26	Baseline	jantanuc	09/18/19 15:11
Chlorobenzene	12.34	Baseline	jantanuc	09/18/19 15:11
trans-1,4-Dichloro-2-butene	13.19	Baseline	jantanuc	09/18/19 15:11
1,3-Dichlorobenzene	14.58	Baseline	jantanuc	09/18/19 15:11
1,4-Dichlorobenzene	14.64	Baseline	jantanuc	09/18/19 15:11

Lab Sample ID: STD 580-311485/6 IC Client Sample ID: \_\_\_\_\_Date Analyzed: 09/17/19 20:42 Lab File ID: 09171906b.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.38	Assign Peak	overmand	09/18/19 09:26
Trichlorofluoromethane	5.92	Baseline	jantanuc	09/18/19 15:12
Acrolein	5.94	Baseline	jantanuc	09/18/19 15:12
Hexane	7.84	Baseline	jantanuc	09/18/19 15:12
2-Butanone	7.91	Baseline	jantanuc	09/18/19 15:12
1,1,1,2-Tetrachloroethane	12.26	Baseline	jantanuc	09/18/19 15:12
Chlorobenzene	12.34	Baseline	jantanuc	09/18/19 15:12
1,3-Dichlorobenzene	14.58	Baseline	jantanuc	09/18/19 15:12
1,4-Dichlorobenzene	14.64	Baseline	jantanuc	09/18/19 15:12

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Analysis Batch Number: 311485Lab Sample ID: STD 580-311485/7 IC Client Sample ID: \_\_\_\_\_Date Analyzed: 09/17/19 21:19 Lab File ID: 09171907b.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	4.05	Baseline	jantanuc	09/18/19 15:16
Chloromethane	4.38	Assign Peak	overmand	09/18/19 09:25
Trichlorofluoromethane	5.91	Baseline	jantanuc	09/18/19 15:16
Hexane	7.84	Baseline	jantanuc	09/18/19 15:16
2-Butanone	7.89	Baseline	jantanuc	09/18/19 15:17
1,1,1,2-Tetrachloroethane	12.26	Peak assignment corrected	jantanuc	09/18/19 15:18
Chlorobenzene	12.34	Peak assignment corrected	jantanuc	09/18/19 15:18
1,3-Dichlorobenzene	14.58	Peak assignment corrected	jantanuc	09/18/19 15:18
1,4-Dichlorobenzene	14.64	Peak assignment corrected	jantanuc	09/18/19 15:18

Lab Sample ID: STD 580-311485/8 IC Client Sample ID: \_\_\_\_\_Date Analyzed: 09/17/19 21:45 Lab File ID: 09171908b.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.36	Assign Peak	overmand	09/18/19 09:24
Hexane	7.84	Peak assignment corrected	jantanuc	09/18/19 15:27
2-Butanone	7.89	Peak assignment corrected	jantanuc	09/18/19 15:27
1,1,1,2-Tetrachloroethane	12.26	Peak assignment corrected	jantanuc	09/18/19 15:28
Chlorobenzene	12.34	Peak assignment corrected	jantanuc	09/18/19 15:28
1,4-Dichlorobenzene	14.64	Peak assignment corrected	jantanuc	09/18/19 15:28

Lab Sample ID: STD 580-311485/9 IC Client Sample ID: \_\_\_\_\_Date Analyzed: 09/17/19 22:12 Lab File ID: 09171909b.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Hexane	7.85	Peak assignment corrected	jantanuc	09/18/19 15:29
2-Butanone	7.88	Peak assignment corrected	jantanuc	09/18/19 15:29

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Analysis Batch Number: 311485Lab Sample ID: ICIS 580-311485/10 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/17/19 22:38 Lab File ID: 09171910b.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	5.27	Split Peak	overmand	09/18/19 09:52
Iodomethane	6.53	Assign Peak	overmand	09/18/19 10:36
Hexane	7.84	Assign Peak	jantanuc	09/18/19 15:05
2-Butanone	7.87	Peak assignment corrected	jantanuc	09/18/19 15:04

Lab Sample ID: STD 580-311485/11 IC Client Sample ID: \_\_\_\_\_Date Analyzed: 09/17/19 23:05 Lab File ID: 09171911b.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.38	Assign Peak	overmand	09/18/19 09:27
Chloroethane	5.26	Split Peak	overmand	09/18/19 09:51
Trichlorofluoromethane	5.96	Baseline	jantanuc	09/18/19 15:31
Acetone	6.03	Assign Peak	overmand	09/18/19 09:57
Hexane	7.84	Baseline	jantanuc	09/18/19 15:31
2-Butanone	7.87	Baseline	jantanuc	09/18/19 15:31

Lab Sample ID: STD 580-311485/12 IC Client Sample ID: \_\_\_\_\_Date Analyzed: 09/17/19 23:31 Lab File ID: 09171912b.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	5.26	Split Peak	overmand	09/18/19 09:50
Hexane	7.84	Peak assignment corrected	jantanuc	09/18/19 15:32
2-Butanone	7.87	Peak assignment corrected	jantanuc	09/18/19 15:32
Trifluorotoluene (Surr)	9.85	Peak assignment corrected	jantanuc	09/18/19 15:56
1,4-Dichlorobenzene-d4	14.61	Peak assignment corrected	jantanuc	09/18/19 15:56

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Analysis Batch Number: 311485Lab Sample ID: STD 580-311485/13 IC Client Sample ID: \_\_\_\_\_Date Analyzed: 09/17/19 23:58 Lab File ID: 09171913b.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.39	Baseline	overmand	09/18/19 09:28
Chloroethane	5.27	Split Peak	overmand	09/18/19 09:50
Trichlorofluoromethane	5.93	Baseline	jantanuc	09/18/19 15:58
Hexane	7.85	Baseline	jantanuc	09/18/19 15:58
2-Butanone	7.87	Baseline	jantanuc	09/18/19 15:58
Benzene	9.18	Baseline	jantanuc	09/18/19 15:58
Ethylbenzene	12.49	Baseline	jantanuc	09/18/19 15:58
m-Xylene & p-Xylene	12.67	Baseline	jantanuc	09/18/19 15:58
o-Xylene	13.05	Baseline	jantanuc	09/18/19 15:58
Isopropylbenzene	13.38	Baseline	jantanuc	09/18/19 15:59
N-Propylbenzene	13.77	Baseline	jantanuc	09/18/19 15:59
1,3,5-Trimethylbenzene	14.02	Baseline	jantanuc	09/18/19 15:59
1,2,4-Trimethylbenzene	14.37	Baseline	jantanuc	09/18/19 15:59
sec-Butylbenzene	14.48	Baseline	jantanuc	09/18/19 15:59
1,4-Dichlorobenzene-d4	14.61	Baseline	jantanuc	09/18/19 15:59

Lab Sample ID: ICV 580-311485/15 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/18/19 00:50 Lab File ID: 09171915b.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	5.26	Split Peak	overmand	09/18/19 10:28
Iodomethane	6.53	Assign Peak	overmand	09/18/19 10:37
Hexane	7.84	Peak assignment corrected	jantanuc	09/18/19 16:08
2-Butanone	7.87	Peak assignment corrected	jantanuc	09/18/19 16:08

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Analysis Batch Number: 312585Lab Sample ID: CCVIS 580-312585/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/27/19 16:35 Lab File ID: 09271903.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	6.04	Assign Peak	overmand	09/28/19 14:45
Hexane	7.84	Assign Peak	overmand	09/28/19 14:40
2-Butanone	7.87	Assign Peak	overmand	09/28/19 14:40

Lab Sample ID: LCS 580-312585/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/27/19 17:02 Lab File ID: 09271904.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	5.27	Assign Peak	overmand	09/28/19 11:15
2-Butanone	7.87	Peak assignment corrected	overmand	09/28/19 11:14

Lab Sample ID: LCSD 580-312585/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/27/19 17:28 Lab File ID: 09271905.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	4.06	Assign Peak	overmand	09/28/19 13:56
Chloroethane	5.27	Assign Peak	overmand	09/28/19 13:56
2-Butanone	7.87	Peak assignment corrected	overmand	09/28/19 13:55



## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Analysis Batch Number: 312585Lab Sample ID: MB 580-312585/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/27/19 18:21 Lab File ID: 09271907.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1-Trichloroethane		Invalid Compound ID	overmand	09/28/19 11:20
1,1-Dichloropropene		Invalid Compound ID	overmand	09/28/19 11:20
2-Chlorotoluene		Invalid Compound ID	overmand	09/28/19 11:27
Carbon tetrachloride		Invalid Compound ID	overmand	09/28/19 11:20
cis-1,2-Dichloroethene		Invalid Compound ID	overmand	09/28/19 11:20
Dichlorodifluoromethane		Invalid Compound ID	overmand	09/28/19 11:19
Styrene		Invalid Compound ID	overmand	09/28/19 11:27
trans-1,3-Dichloropropene		Invalid Compound ID	overmand	09/28/19 11:27
Trichloroethene		Invalid Compound ID	overmand	09/28/19 11:20

Lab Sample ID: 580-89287-16 Client Sample ID: Trip Blank\_190917Date Analyzed: 09/27/19 19:14 Lab File ID: 09271909.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloropropene		Invalid Compound ID	overmand	09/28/19 11:38
1,2,3-Trichlorobenzene		Invalid Compound ID	overmand	09/28/19 11:38
1,2,4-Trimethylbenzene		Invalid Compound ID	overmand	09/28/19 11:38
1,3,5-Trimethylbenzene		Invalid Compound ID	overmand	09/28/19 11:38
4-Chlorotoluene		Invalid Compound ID	overmand	09/28/19 11:38
4-Isopropyltoluene		Invalid Compound ID	overmand	09/28/19 11:38
Carbon tetrachloride		Invalid Compound ID	overmand	09/28/19 11:38
cis-1,2-Dichloroethene		Invalid Compound ID	overmand	09/28/19 11:38
Methyl tert-butyl ether		Invalid Compound ID	overmand	09/28/19 11:37
n-Butylbenzene		Invalid Compound ID	overmand	09/28/19 11:38
Styrene		Invalid Compound ID	overmand	09/28/19 11:38
t-Butylbenzene		Invalid Compound ID	overmand	09/28/19 11:38
trans-1,2-Dichloroethene		Invalid Compound ID	overmand	09/28/19 11:37

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Analysis Batch Number: 312585Lab Sample ID: 580-89287-1 Client Sample ID: EQB-1-W-190917Date Analyzed: 09/27/19 20:34 Lab File ID: 09271912.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloropropene		Invalid Compound ID	overmand	09/28/19 11:42
1,3,5-Trimethylbenzene		Invalid Compound ID	overmand	09/28/19 11:42
4-Isopropyltoluene		Invalid Compound ID	overmand	09/28/19 11:43
4-Methyl-2-pentanone		Invalid Compound ID	overmand	09/28/19 11:42
Carbon tetrachloride		Invalid Compound ID	overmand	09/28/19 11:42
Naphthalene		Invalid Compound ID	mckelljs	12/30/19 15:06
n-Butylbenzene		Invalid Compound ID	overmand	09/28/19 11:43
t-Butylbenzene		Invalid Compound ID	overmand	09/28/19 11:42
trans-1,3-Dichloropropene		Invalid Compound ID	mckelljs	12/30/19 15:07

Lab Sample ID: 580-89287-7 Client Sample ID: MW-10-W-190917Date Analyzed: 09/27/19 23:13 Lab File ID: 09271918.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	4.05	Assign Peak	overmand	09/28/19 11:44
Trichlorofluoromethane	5.95	Assign Peak	overmand	09/28/19 11:44
1,2,4-Trimethylbenzene		Invalid Compound ID	overmand	09/28/19 11:45
1,3,5-Trimethylbenzene		Invalid Compound ID	overmand	09/28/19 11:45
Bromobenzene		Invalid Compound ID	overmand	09/28/19 11:45
Carbon tetrachloride		Invalid Compound ID	overmand	09/28/19 11:44
n-Butylbenzene		Invalid Compound ID	overmand	09/28/19 11:45
t-Butylbenzene		Invalid Compound ID	overmand	09/28/19 11:45

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Analysis Batch Number: 312585Lab Sample ID: 580-89287-10 Client Sample ID: MW-6-W-190917Date Analyzed: 09/27/19 23:40 Lab File ID: 09271919.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone		Invalid Compound ID	overmand	09/28/19 11:46
2-Chlorotoluene		Invalid Compound ID	overmand	09/28/19 11:46
Dichlorodifluoromethane		Invalid Compound ID	overmand	09/28/19 11:45
Ethylene Dibromide		Invalid Compound ID	mckelljs	12/30/19 15:08
Vinyl chloride		Invalid Compound ID	mckelljs	12/30/19 15:09

Lab Sample ID: 580-89287-12 Client Sample ID: MW-2-W-190917Date Analyzed: 09/28/19 00:59 Lab File ID: 09271922.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.38	Assign Peak	overmand	09/28/19 11:47
1,1-Dichloropropene		Invalid Compound ID	overmand	09/28/19 11:48
1,2-Dibromo-3-Chloropropane		Invalid Compound ID	overmand	09/28/19 11:48
1,3,5-Trimethylbenzene		Invalid Compound ID	overmand	09/28/19 11:48
2-Butanone		Invalid Compound ID	overmand	09/28/19 11:48
4-Chlorotoluene		Invalid Compound ID	overmand	09/28/19 11:48
4-Methyl-2-pentanone		Invalid Compound ID	overmand	09/28/19 11:48
Bromobenzene		Invalid Compound ID	overmand	09/28/19 11:48
Bromochloromethane		Invalid Compound ID	overmand	09/28/19 11:48
Dibromomethane		Invalid Compound ID	mckelljs	12/30/19 15:09
Ethylene Dibromide		Invalid Compound ID	mckelljs	12/30/19 15:10
Hexachlorobutadiene		Invalid Compound ID	mckelljs	12/30/19 15:10
Styrene		Invalid Compound ID	overmand	09/28/19 11:48

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Analysis Batch Number: 312585Lab Sample ID: 580-89287-13 Client Sample ID: MW-3-W-190917Date Analyzed: 09/28/19 01:26 Lab File ID: 09271923.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane	8.76	Peak assignment corrected	mckelljs	12/30/19 15:10
1,2-Dibromo-3-Chloropropane		Invalid Compound ID	overmand	09/28/19 11:50
1,2-Dichloropropane		Invalid Compound ID	overmand	09/28/19 11:50
2-Butanone		Invalid Compound ID	overmand	09/28/19 11:49
4-Methyl-2-pentanone		Invalid Compound ID	overmand	09/28/19 11:50
Bromobenzene		Invalid Compound ID	overmand	09/28/19 11:50
Bromodichloromethane		Invalid Compound ID	mckelljs	12/30/19 15:11
Chloroethane		Invalid Compound ID	overmand	09/28/19 11:49
Chloromethane		Invalid Compound ID	overmand	09/28/19 11:49
Dichlorodifluoromethane		Invalid Compound ID	overmand	09/28/19 11:49
trans-1,2-Dichloroethene		Invalid Compound ID	overmand	09/28/19 11:49
trans-1,3-Dichloropropene		Invalid Compound ID	mckelljs	12/30/19 15:11
Trichloroethene		Invalid Compound ID	mckelljs	12/30/19 15:11

Lab Sample ID: 580-89287-8 Client Sample ID: MW-7-W-190917Date Analyzed: 09/28/19 02:19 Lab File ID: 09271925.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	4.06	Assign Peak	overmand	09/28/19 12:02
1,1,2,2-Tetrachloroethane		Invalid Compound ID	mckelljs	12/30/19 15:11
2-Butanone		Invalid Compound ID	overmand	09/28/19 12:07
Bromodichloromethane		Invalid Compound ID	mckelljs	12/30/19 15:12
Chloroethane		Invalid Compound ID	overmand	09/28/19 12:06
Ethylene Dibromide		Invalid Compound ID	mckelljs	12/30/19 15:12
Trichloroethene		Invalid Compound ID	mckelljs	12/30/19 15:12
Tetrachloroethene	11.71	Incomplete Integration	mckelljs	12/30/19 15:12

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Analysis Batch Number: 312662Lab Sample ID: CCVIS 580-312662/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/28/19 16:30 Lab File ID: 09281903.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	5.28	Split Peak	limwirojt	09/30/19 12:05
Trichlorofluoromethane	5.98	Incomplete Integration	limwirojt	09/30/19 12:05
Acetone	6.05	Assign Peak	overmand	09/30/19 09:06
Hexane	7.85	Incomplete Integration	limwirojt	09/30/19 12:06
2-Butanone	7.87	Incomplete Integration	limwirojt	09/30/19 12:06

Lab Sample ID: LCS 580-312662/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/28/19 16:57 Lab File ID: 09281904.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	5.27	Split Peak	limwirojt	09/30/19 12:09
2-Butanone	7.88	Split Peak	limwirojt	09/30/19 12:10

Lab Sample ID: LCSD 580-312662/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/28/19 17:23 Lab File ID: 09281905.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	5.27	Split Peak	limwirojt	09/30/19 12:12
2-Butanone	7.88	Split Peak	limwirojt	09/30/19 12:13
o-Xylene	13.06	Assign Peak	overmand	09/30/19 10:03

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Analysis Batch Number: 312662Lab Sample ID: CCVL 580-312662/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/28/19 17:50 Lab File ID: 09281906.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	4.06	Peak assignment corrected	limwirojt	09/30/19 12:13
Trichlorofluoromethane	5.92	Incomplete Integration	limwirojt	09/30/19 12:14
Acrolein	5.94	Incomplete Integration	limwirojt	09/30/19 12:14
Vinyl acetate	7.62	Assign Peak	limwirojt	09/30/19 12:20
Hexane	7.84	Assign Peak	limwirojt	09/30/19 12:20
2-Butanone	7.90	Assign Peak	limwirojt	09/30/19 12:20
1,1,1,2-Tetrachloroethane	12.26	Assign Peak	limwirojt	09/30/19 12:20
Chlorobenzene	12.34	Assign Peak	limwirojt	09/30/19 12:20
1,3-Dichlorobenzene	14.58	Assign Peak	limwirojt	09/30/19 12:21
1,4-Dichlorobenzene	14.64	Assign Peak	limwirojt	09/30/19 12:21

Lab Sample ID: MB 580-312662/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/28/19 18:16 Lab File ID: 09281907.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2,2-Tetrachloroethane		Invalid Compound ID	limwirojt	09/30/19 12:23
1,1-Dichloroethane		Invalid Compound ID	limwirojt	09/30/19 12:22
1,1-Dichloropropene		Invalid Compound ID	limwirojt	09/30/19 12:22
1,2-Dibromo-3-Chloropropane		Invalid Compound ID	limwirojt	09/30/19 12:23
1,2-Dichloropropane		Invalid Compound ID	limwirojt	09/30/19 12:22
Bromomethane		Invalid Compound ID	limwirojt	09/30/19 12:22
Chloroethane		Invalid Compound ID	limwirojt	09/30/19 12:22
Chloromethane		Invalid Compound ID	limwirojt	09/30/19 12:22
Dibromomethane		Invalid Compound ID	limwirojt	09/30/19 12:22
Dichlorodifluoromethane		Invalid Compound ID	limwirojt	09/30/19 12:22
Methyl tert-butyl ether		Invalid Compound ID	limwirojt	09/30/19 12:22
Trichlorofluoromethane		Invalid Compound ID	limwirojt	09/30/19 12:22
Vinyl chloride		Invalid Compound ID	limwirojt	09/30/19 12:22

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Analysis Batch Number: 312662Lab Sample ID: 580-89287-1 RA Client Sample ID: EQB-1-W-190917 RADate Analyzed: 09/28/19 18:43 Lab File ID: 09281908.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	6.09	Peak assignment corrected	limwirojt	09/30/19 12:27

Lab Sample ID: 580-89287-8 DL Client Sample ID: MW-7-W-190917 DLDate Analyzed: 09/28/19 20:02 Lab File ID: 09281911.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	limwirojt	09/30/19 12:37

Lab Sample ID: 580-89287-13 DL Client Sample ID: MW-3-W-190917 DLDate Analyzed: 09/28/19 20:29 Lab File ID: 09281912.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	limwirojt	09/30/19 12:48

## GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC046 Analysis Batch Number: 311558Lab Sample ID: IC 580-311558/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/18/19 13:10 Lab File ID: 46I091819a005.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane	4.79	Baseline Smoothing	bohnc	09/18/19 16:27
1,2,3-Trichloropropane	5.48	Baseline Smoothing	bohnc	09/18/19 17:01

Lab Sample ID: IC 580-311558/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/18/19 13:30 Lab File ID: 46I091819a006.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.48	Split Peak	bohnc	09/18/19 17:02

Lab Sample ID: IC 580-311558/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/18/19 13:30 Lab File ID: 46I091819a006.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	6.44	Incomplete Integration	bohnc	09/18/19 16:15

Lab Sample ID: IC 580-311558/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/18/19 13:46 Lab File ID: 46I091819a007.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromopropane	5.06	Baseline Smoothing	bohnc	09/19/19 10:29
1,2,3-Trichloropropane	5.49	Split Peak	bohnc	09/18/19 17:03



## GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC046 Analysis Batch Number: 311558Lab Sample ID: IC 580-311558/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/18/19 13:46 Lab File ID: 46I091819a007.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane	4.75	Baseline Smoothing	bohnc	09/19/19 10:23
1,2,3-Trichloropropane	5.36	Baseline Smoothing	bohnc	09/18/19 16:13
1,2-Dibromo-3-Chloropropane	6.44	Incomplete Integration	bohnc	09/18/19 16:16

Lab Sample ID: IC 580-311558/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/18/19 14:03 Lab File ID: 46I091819a008.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromopropane	5.06	Baseline Smoothing	bohnc	09/19/19 10:27
1,2,3-Trichloropropane	5.49	Split Peak	bohnc	09/19/19 10:23

Lab Sample ID: IC 580-311558/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/18/19 14:03 Lab File ID: 46I091819a008.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.36	Baseline Smoothing	bohnc	09/18/19 16:13

Lab Sample ID: IC 580-311558/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 09/18/19 14:19 Lab File ID: 46I091819a009.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Baseline Smoothing	bohnc	09/19/19 10:24

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC046 Analysis Batch Number: 311558

Lab Sample ID: ICIS 580-311558/8 Client Sample ID: \_\_\_\_\_

Date Analyzed: 09/18/19 14:35 Lab File ID: 46I091819a010.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Baseline Smoothing	bohnc	09/19/19 10:25

Lab Sample ID: ICIS 580-311558/8 Client Sample ID: \_\_\_\_\_

Date Analyzed: 09/18/19 14:35 Lab File ID: 46I091819a010.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromopropane	5.06	Baseline Smoothing	bohnc	09/18/19 17:09

Lab Sample ID: ICV 580-311558/12 Client Sample ID: \_\_\_\_\_

Date Analyzed: 09/18/19 15:39 Lab File ID: 46I091819a014.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromopropane	5.06	Baseline Smoothing	bohnc	09/18/19 17:13
1,2,3-Trichloropropane	5.36	Baseline Smoothing	bohnc	09/18/19 17:12

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC046 Analysis Batch Number: 312767

Lab Sample ID: CCV 580-312652/1-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 09/30/19 13:43 Lab File ID: 46I093019a004.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Incomplete Integration	jantanuc	10/01/19 10:03

Lab Sample ID: LCS 580-312652/4-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 09/30/19 14:16 Lab File ID: 46I093019a006.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Incomplete Integration	jantanuc	10/01/19 10:04

Lab Sample ID: LCSD 580-312652/5-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 09/30/19 14:32 Lab File ID: 46I093019a007.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Incomplete Integration	jantanuc	10/01/19 10:06

Lab Sample ID: LLCS 580-312652/6-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 09/30/19 14:49 Lab File ID: 46I093019a008.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Incomplete Integration	jantanuc	10/01/19 10:08

Lab Sample ID: LLCS 580-312652/6-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 09/30/19 14:49 Lab File ID: 46I093019a008.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.36	Incomplete Integration	jantanuc	10/01/19 10:08

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC046 Analysis Batch Number: 312767

Lab Sample ID: CCV 580-312652/1-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 09/30/19 16:42 Lab File ID: 46I093019a015.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Incomplete Integration	jantanuc	10/01/19 10:22

Lab Sample ID: 580-89287-7 Client Sample ID: MW-10-W-190917

Date Analyzed: 09/30/19 19:06 Lab File ID: 46I093019a024.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	10/01/19 10:37

Lab Sample ID: 580-89287-7 Client Sample ID: MW-10-W-190917

Date Analyzed: 09/30/19 19:06 Lab File ID: 46I093019a024.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	10/01/19 10:37

Lab Sample ID: 580-89287-8 Client Sample ID: MW-7-W-190917

Date Analyzed: 09/30/19 19:22 Lab File ID: 46I093019a025.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane		Invalid Compound ID	jantanuc	10/01/19 10:37

Lab Sample ID: 580-89287-8 Client Sample ID: MW-7-W-190917

Date Analyzed: 09/30/19 19:22 Lab File ID: 46I093019a025.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane		Invalid Compound ID	jantanuc	10/01/19 10:37

## GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC046 Analysis Batch Number: 312767Lab Sample ID: CCV 580-312652/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 09/30/19 19:38 Lab File ID: 46I093019a026.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Incomplete Integration	jantanuc	10/01/19 10:38

Lab Sample ID: 580-89287-10 Client Sample ID: MW-6-W-190917Date Analyzed: 09/30/19 19:54 Lab File ID: 46I093019a027.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	10/01/19 10:40
1,2-Dibromoethane		Invalid Compound ID	jantanuc	10/01/19 10:40

Lab Sample ID: 580-89287-10 Client Sample ID: MW-6-W-190917Date Analyzed: 09/30/19 19:54 Lab File ID: 46I093019a027.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	10/01/19 10:40
1,2-Dibromoethane		Invalid Compound ID	jantanuc	10/01/19 10:40

Lab Sample ID: 580-89287-12 Client Sample ID: MW-2-W-190917Date Analyzed: 09/30/19 20:10 Lab File ID: 46I093019a028.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	10/01/19 10:40
1,2-Dibromoethane		Invalid Compound ID	jantanuc	10/01/19 10:40

## GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC046 Analysis Batch Number: 312767Lab Sample ID: 580-89287-12 Client Sample ID: MW-2-W-190917Date Analyzed: 09/30/19 20:10 Lab File ID: 46I093019a028.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	10/01/19 10:40
1,2-Dibromoethane		Invalid Compound ID	jantanuc	10/01/19 10:40

Lab Sample ID: 580-89287-13 Client Sample ID: MW-3-W-190917Date Analyzed: 09/30/19 20:26 Lab File ID: 46I093019a029.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane		Invalid Compound ID	jantanuc	10/01/19 10:41

Lab Sample ID: 580-89287-13 Client Sample ID: MW-3-W-190917Date Analyzed: 09/30/19 20:26 Lab File ID: 46I093019a029.D GC Column: RTX-VRX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane		Invalid Compound ID	jantanuc	10/01/19 10:41

Lab Sample ID: CCV 580-312652/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 09/30/19 20:58 Lab File ID: 46I093019a031.D GC Column: ZB-624short ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	5.49	Incomplete Integration	jantanuc	10/01/19 11:14

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: Droid2\_R Analysis Batch Number: 24407

Lab Sample ID: IC 590-24407/20 Client Sample ID: \_\_\_\_\_

Date Analyzed: 09/29/19 17:49 Lab File ID: 590-0006081-020.D GC Column: ZB-1HT B ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	8.59	Baseline Smoothing	ironsn	09/30/19 09:45

Lab Sample ID: IC 590-24407/21 Client Sample ID: \_\_\_\_\_

Date Analyzed: 09/29/19 18:08 Lab File ID: 590-0006081-021.D GC Column: ZB-1HT B ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.42	Peak assignment corrected	ironsn	09/30/19 09:45
n-Triacontane-d62	8.61	Peak assignment corrected	ironsn	09/30/19 09:45

Lab Sample ID: IC 590-24407/22 Client Sample ID: \_\_\_\_\_

Date Analyzed: 09/29/19 18:28 Lab File ID: 590-0006081-022.D GC Column: ZB-1HT B ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.44	Baseline Smoothing	ironsn	09/30/19 09:46
n-Triacontane-d62	8.65	Baseline Smoothing	ironsn	09/30/19 09:45

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
504/8011_IC_00105	10/10/19	09/10/19	methanol, Lot 196628	10 mL	12DBP_Inter_P_00085	20 uL	1,2-Dibromopropane	400 ug/L
					504.1_00010	10 uL	1,2,3-Trichloropropane	199 ug/L
							1,2-Dibromo-3-Chloropropane	201.5 ug/L
							1,2-Dibromoethane	201.5 ug/L
.12DBP_Inter_P_00085	10/10/19	09/10/19	methanol, Lot 196628	10 mL	8011_12DBP_PS_00018	200 uL	1,2-Dibromopropane	200 ug/mL
..8011_12DBP_PS_00018	07/31/22		Agilent, Lot CS-3364		(Purchased Reagent)		1,2-Dibromopropane	10000 ug/mL
.504.1_00010	02/28/23		Restek, Lot A0135090		(Purchased Reagent)		1,2,3-Trichloropropane	199 ug/mL
							1,2-Dibromo-3-Chloropropane	201.5 ug/mL
							1,2-Dibromoethane	201.5 ug/mL
504/8011_ICL_00034	10/10/19	09/10/19	methanol, Lot 196626	10 mL	504/8011_IC_00105	1 mL	1,2-Dibromopropane	40 ug/L
							1,2,3-Trichloropropane	19.9 ug/L
							1,2-Dibromo-3-Chloropropane	20.15 ug/L
							1,2-Dibromoethane	20.15 ug/L
.504/8011_IC_00105	10/10/19	09/10/19	methanol, Lot 196628	10 mL	12DBP_Inter_P_00085	20 uL	1,2-Dibromopropane	400 ug/L
					504.1_00010	10 uL	1,2,3-Trichloropropane	199 ug/L
							1,2-Dibromo-3-Chloropropane	201.5 ug/L
							1,2-Dibromoethane	201.5 ug/L
..12DBP_Inter_P_00085	10/10/19	09/10/19	methanol, Lot 196628	10 mL	8011_12DBP_PS_00018	200 uL	1,2-Dibromopropane	200 ug/mL
...8011_12DBP_PS_00018	07/31/22		Agilent, Lot CS-3364		(Purchased Reagent)		1,2-Dibromopropane	10000 ug/mL
..504.1_00010	02/28/23		Restek, Lot A0135090		(Purchased Reagent)		1,2,3-Trichloropropane	199 ug/mL
							1,2-Dibromo-3-Chloropropane	201.5 ug/mL
							1,2-Dibromoethane	201.5 ug/mL
504/8011_Sspk_00092	10/10/19	09/10/19	methanol, Lot 196628	10 mL	504.1_00011	10 uL	1,2,3-Trichloropropane	200 ug/L
							1,2-Dibromo-3-Chloropropane	200 ug/L
							1,2-Dibromoethane	200 ug/L
							(Purchased Reagent)	
.504.1_00011	03/31/22		Agilent, Lot CR-0558		(Purchased Reagent)		1,2,3-Trichloropropane	200 ug/mL
							1,2-Dibromo-3-Chloropropane	200 ug/mL
							1,2-Dibromoethane	200 ug/mL
504/8011_Ssur_00092	10/10/19	09/10/19	methanol, Lot 196628	10 mL	12DBP_Inter_P_00085	20 uL	1,2-Dibromopropane	400 ug/L
.12DBP_Inter_P_00085	10/10/19	09/10/19	methanol, Lot 196628	10 mL	8011_12DBP_PS_00018	200 uL	1,2-Dibromopropane	200 ug/mL
..8011_12DBP_PS_00018	07/31/22		Agilent, Lot CS-3364		(Purchased Reagent)		1,2-Dibromopropane	10000 ug/mL
5X SURR/IS/TFT_00010							Tentatively Identified Compound	
							Xylenes, Total	
					SURR/IS/TFT_00106	20 mL	Trifluorotoluene (Surr)	49.98 ppm
							1,2-Dichloroethane-d4 (Surr)	48.75 ppm
							1,4-Dichlorobenzene-d4	48.75 ppm
							4-Bromofluorobenzene (Surr)	48.75 ppm
							BFB	48.75 ppm
							Chlorobenzene-d5	48.75 ppm
							Dibromofluoromethane (Surr)	48.75 ppm
							Fluorobenzene (IS)	48.75 ppm
							TBA-d9 (IS)	975 ppm
							Toluene-d8 (Surr)	48.75 ppm
.SURR/IS/TFT_00106	03/12/20	03/19/19	MeOH, Lot voarsurr/is_00048	25 mL	V-TFTStk_00037	625 uL	Trifluorotoluene (Surr)	249.9 ppm



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89287-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VOARSURR/IS_00048	24.375 mL	1,2-Dichloroethane-d4 (Surr)	243.75 ppm
							1,4-Dichlorobenzene-d4	243.75 ppm
							4-Bromofluorobenzene (Surr)	243.75 ppm
							BFB	243.75 ppm
							Chlorobenzene-d5	243.75 ppm
							Dibromofluoromethane (Surr)	243.75 ppm
							Fluorobenzene (IS)	243.75 ppm
							TBA-d9 (IS)	4875 ppm
							Toluene-d8 (Surr)	243.75 ppm
..V-TFTStk 00037	03/12/20	03/12/19	methanol, Lot 196628	50 mL	TFTneat 00014	420 uL	Trifluorotoluene (Surr)	9996 mg/L
...TFTneat 00014	03/31/21		Sigma-Aldrich, Lot STBG2214V		(Purchased Reagent)		Trifluorotoluene (Surr)	1190000 mg/L
..VOARSURR/IS_00048	10/31/22		Restek, Lot A0131478		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							1,4-Dichlorobenzene-d4	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							BFB	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
<b>5X SUR/IS/TFT_00011</b>							Tentatively Identified Compound	
							Xylenes, Total	
					SURR/IS/TFT_00107	20 mL	Trifluorotoluene (Surr)	49.98 ppm
							1,2-Dichloroethane-d4 (Surr)	48.75 ppm
							1,4-Dichlorobenzene-d4	48.75 ppm
							4-Bromofluorobenzene (Surr)	48.75 ppm
							BFB	48.75 ppm
							Chlorobenzene-d5	48.75 ppm
							Dibromofluoromethane (Surr)	48.75 ppm
							Fluorobenzene (IS)	48.75 ppm
							TBA-d9 (IS)	975 ppm
							Toluene-d8 (Surr)	48.75 ppm
.SURR/IS/TFT_00107	03/12/20	09/11/19	MeOH, Lot voarsurr/is_00048	25 mL	V-TFTStk_00037	625 uL	Trifluorotoluene (Surr)	249.9 ppm
					VOARSURR/IS_00048	24.375 mL	1,2-Dichloroethane-d4 (Surr)	243.75 ppm
							1,4-Dichlorobenzene-d4	243.75 ppm
							4-Bromofluorobenzene (Surr)	243.75 ppm
							BFB	243.75 ppm
							Chlorobenzene-d5	243.75 ppm
							Dibromofluoromethane (Surr)	243.75 ppm
							Fluorobenzene (IS)	243.75 ppm
							TBA-d9 (IS)	4875 ppm
							Toluene-d8 (Surr)	243.75 ppm
..V-TFTStk 00037	03/12/20	03/12/19	methanol, Lot 196628	50 mL	TFTneat 00014	420 uL	Trifluorotoluene (Surr)	9996 mg/L
...TFTneat 00014	03/31/21		Sigma-Aldrich, Lot STBG2214V		(Purchased Reagent)		Trifluorotoluene (Surr)	1190000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
..VOARSURR/IS_00048	10/31/22		Restek, Lot A0131478			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL	
								1,4-Dichlorobenzene-d4	250 ug/mL	
								4-Bromofluorobenzene (Surr)	250 ug/mL	
								BFB	250 ug/mL	
								Chlorobenzene-d5	250 ug/mL	
								Dibromofluoromethane (Surr)	250 ug/mL	
								Fluorobenzene (IS)	250 ug/mL	
								TBA-d9 (IS)	5000 ug/mL	
			Toluene-d8 (Surr)	250 ug/mL						
BFBGRO ARCHON 00034	06/08/20	07/20/19	fisher MeOH, Lot 198123	25 mL	BFBsurr 00033	1.25 mL	4-Bromofluorobenzene (Surr)	500 ug/mL		
.BFBsurr_00033	08/31/24		Restek, Lot A0149194		(Purchased Reagent)		4-Bromofluorobenzene (Surr)	10000 ug/mL		
BFBGRO ARCHON 00036	06/08/20	09/03/19	fisher MeOH, Lot 198123	25 mL	BFBsurr_00033	1.25 mL	4-Bromofluorobenzene (Surr)	500 ug/mL		
.BFBsurr_00033	08/31/24		Restek, Lot A0149194		(Purchased Reagent)		4-Bromofluorobenzene (Surr)	10000 ug/mL		
GRO BTEXblend_00010	04/01/20	04/02/19	methanol, Lot 196628	5 mL	BTEX in Gas_00006	2 mL	Gasoline Range Organics (GRO)	2000 ug/mL		
.BTEX in Gas_00006	03/02/26		AccuStandard, Lot 216021275		(Purchased Reagent)		Gasoline Range Organics (GRO)	5000 ug/mL		
GRO LCS_00054	06/08/20	07/26/19	MeOH, Lot 198123	25 mL	GROLCSstk_00025	1 mL	Gasoline Range Organics (GRO)	2000 ug/mL		
.GROLCSstk_00025	07/18/27		AccuStandard, Lot 217071177		(Purchased Reagent)		Gasoline Range Organics (GRO)	50000 ug/mL		
GRO LCS_00056	06/08/20	09/06/19	MeOH, Lot 198123	50 mL	GROLCSstk_00025	2 mL	Gasoline Range Organics (GRO)	2000 ug/mL		
.GROLCSstk_00025	07/18/27		AccuStandard, Lot 217071177		(Purchased Reagent)		Gasoline Range Organics (GRO)	50000 ug/mL		
TFT Spike 00036	03/12/20	04/01/19	MeOH, Lot 177891	100 mL	V-TFTStk 00037	4 mL	Trifluorotoluene (Surr)	399.84 mg/L		
.V-TFTStk 00037	03/12/20	03/12/19	methanol, Lot 196628	50 mL	TFTneat 00014	420 uL	Trifluorotoluene (Surr)	9996 mg/L		
..TFTneat_00014	03/31/21		Sigma-Aldrich, Lot STBG2214V		(Purchased Reagent)		Trifluorotoluene (Surr)	1190000 mg/L		
V2.4TFT-EX 00037	03/12/20	07/08/19	MeOH, Lot 198123	1 L	V-TFTStk 00037	240 uL	Trifluorotoluene (Surr)	2.39904 mg/L		
.V-TFTStk 00037	03/12/20	03/12/19	methanol, Lot 196628	50 mL	TFTneat 00014	420 uL	Trifluorotoluene (Surr)	9996 mg/L		
..TFTneat_00014	03/31/21		Sigma-Aldrich, Lot STBG2214V		(Purchased Reagent)		Trifluorotoluene (Surr)	1190000 mg/L		
V2.4TFT-EX 00040	03/12/20	09/11/19	MeOH, Lot 198123	1 L	V-TFTStk 00037	240 uL	Trifluorotoluene (Surr)	2.39904 mg/L		
.V-TFTStk 00037	03/12/20	03/12/19	methanol, Lot 196628	50 mL	TFTneat 00014	420 uL	Trifluorotoluene (Surr)	9996 mg/L		
..TFTneat_00014	03/31/21		Sigma-Aldrich, Lot STBG2214V		(Purchased Reagent)		Trifluorotoluene (Surr)	1190000 mg/L		
VOAMasterMix_00043	10/31/19	09/13/19	MeOH, Lot 198123	50 mL			VOAR2CEVE_00019	1000 uL	2-Chloroethyl vinyl ether	50 ug/mL
							VOARAcrolein_00055	750 uL	Acrolein	300 ug/mL
							VOARADDCOM_00023	1000 uL	1,3,5-Trichlorobenzene	50 ug/mL
							VOARGAS_00021	1000 uL	Bromomethane	50 ug/mL
									Chloroethane	50 ug/mL
									Chloromethane	50 ug/mL
									Dichlorodifluoromethane	50 ug/mL
									Trichlorofluoromethane	50 ug/mL
									Vinyl chloride	50 ug/mL
							VOARKETON_00023	1000 uL	2-Butanone	250 ug/mL
									2-Hexanone	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89287-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone	250 ug/mL
							Acetone	250 ug/mL
					VOARMegMix_00032	1000 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89287-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							t-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VOARPOLARAD_00017	1250 uL	Tert-amyl methyl ether	62.5 ug/mL
							Tert-butyl ethyl ether	62.5 ug/mL
					VOARVA_00045	1250 uL	Vinyl acetate	125 ug/mL
.VOAR2CEVE_00019	10/31/21		Restek, Lot A0142584		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcrolein_00055	10/31/19		Restek, Lot A0147676		(Purchased Reagent)		Acrolein	20000 ug/mL
.VOARADDCOM_00023	07/31/20		Restek, Lot A0145375		(Purchased Reagent)		1,3,5-Trichlorobenzene	2500 ug/mL
.VOARGAS_00021	11/30/21		Restek, Lot A0143158		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOARKETON_00023	12/31/21		Restek, Lot A0143988		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
.VOARMegMix_00032	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							t-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
trans-1,2-Dichloroethene	2500 ug/mL							
trans-1,3-Dichloropropene	2500 ug/mL							
trans-1,4-Dichloro-2-butene	2500 ug/mL							
Trichloroethene	2500 ug/mL							
.VOARPOLARAD__00017	01/31/21		Restek, Lot A0144915		(Purchased Reagent)		Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VOARVA_00045	01/31/20		Restek, Lot A0150515			(Purchased Reagent)	Vinyl acetate	5000 ug/mL
VOAMasterSEC_00035	09/30/19	08/15/19	MeOH, Lot 198123	25 mL	VOASGAS2_00024	500 uL	Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
					VOASKETON2_00020	500 uL	2-Butanone	250 ug/mL
							4-Methyl-2-pentanone	250 ug/mL
							Acetone	250 ug/mL
					VOASMegMix2_00022	500 uL	1,1,1-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							Ethylbenzene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
Methyl tert-butyl ether	50 ug/mL							
Methylene Chloride	50 ug/mL							
n-Butylbenzene	50 ug/mL							
N-Propylbenzene	50 ug/mL							
o-Xylene	50 ug/mL							
sec-Butylbenzene	50 ug/mL							
Styrene	50 ug/mL							
t-Butylbenzene	50 ug/mL							
Toluene	50 ug/mL							
trans-1,2-Dichloroethene	50 ug/mL							
.VOASGAS2_00024	03/31/22		Restek, Lot A0147004			(Purchased Reagent)	Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VOASKETON2__00020	08/31/21		Restek, Lot A0140519			(Purchased Reagent)	Trichlorofluoromethane	2500 ug/mL
							2-Butanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
.VOASMegMix2__00022	06/30/21		Restek, Lot A0144202			(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							o-Xylene	2500 ug/mL
sec-Butylbenzene	2500 ug/mL							
Styrene	2500 ug/mL							
t-Butylbenzene	2500 ug/mL							
Toluene	2500 ug/mL							
trans-1,2-Dichloroethene	2500 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
GC_D/O_2K_S_00005	03/29/20	09/29/19	MeCl2, Lot 229304	5 mL	GC_Diesel#2_S_00005	1 mL	DRO (nC10-<nC25)	10000 ug/mL
					GC_RRO_S_00004	1 mL	C25-C36	10000 ug/mL
					GC_SURR_STK_00018	1 mL	o-Terphenyl	402.4 ug/mL
							n-Triacontane-d62	401.6 ug/mL
.GC_Diesel#2_S_00005	05/02/26		Accustandard, Lot 212051402			(Purchased Reagent)	DRO (nC10-<nC25)	50000 ug/mL
.GC_RRO_S_00004	02/01/26		Accustandard, Lot 218071289			(Purchased Reagent)	C25-C36	50000 ug/mL
.GC_SURR_STK_00018	08/28/20	08/28/19	MeCl2, Lot 229304	25 mL	GC_SURR1_P_00003	0.0503 g	o-Terphenyl	2012 ug/mL
					GC_SURR2_P_00004	0.0502 g	n-Triacontane-d62	2008 ug/mL
..GC_SURR1_P_00003	07/17/21		Alfa Aesar, Lot E23Y001			(Purchased Reagent)	o-Terphenyl	1000000 ug/mL
..GC_SURR2_P_00004	12/09/20		Alfa Aesar, Lot H21Z037			(Purchased Reagent)	n-Triacontane-d62	1000000 ug/mL
GC_FCCV_200/8_00069	10/17/19	09/12/19	MeCl2, Lot 229304	25 mL	GC_D/O_10K_P_00009	0.5 mL	o-Terphenyl	8.064 ug/mL
							n-Triacontane-d62	8.048 ug/mL
.GC_D/O_10K_P_00009	10/17/19	04/17/19	MeCl2, Lot 217188	5 mL	GC_SURR_STK_00016	1 mL	o-Terphenyl	403.2 ug/mL
							n-Triacontane-d62	402.4 ug/mL
..GC_SURR_STK_00016	04/17/20	04/17/19	MeCl2, Lot 217188	25 mL	GC_SURR1_P_00003	0.0504 g	o-Terphenyl	2016 ug/mL
					GC_SURR2_P_00004	0.0503 g	n-Triacontane-d62	2012 ug/mL
...GC_SURR1_P_00003	07/17/21		Alfa Aesar, Lot E23Y001			(Purchased Reagent)	o-Terphenyl	1000000 ug/mL
...GC_SURR2_P_00004	12/09/20		Alfa Aesar, Lot H21Z037			(Purchased Reagent)	n-Triacontane-d62	1000000 ug/mL
GC_FCCV_200/8_00069	10/17/19	09/12/19	MeCl2, Lot 229304	25 mL	GC_D/O_10K_P_00009	0.5 mL	DRO (nC10-<nC25)	200 ug/mL
.GC_D/O_10K_P_00009	10/17/19	04/17/19	MeCl2, Lot 217188	5 mL	GC_Diesel#2_P_00009	1 mL	DRO (nC10-<nC25)	10000 ug/mL
..GC_Diesel#2_P_00009	05/31/25		Restek, Lot A0137462			(Purchased Reagent)	DRO (nC10-<nC25)	50000 ug/mL
OP_DXAK_SPIKE_00032	02/29/20	09/25/19	ACETONE, Lot 188020	5 mL	GC_Diesel#2_P_00010	1 mL	#2 Diesel Fuel	10000 ug/mL
							C10-C24	10000 ug/mL
								DRO (nC10-<nC25)
					GC_RRO_P_00009	1 mL	C24-C36	10000 ug/mL
							C25-C36	10000 ug/mL
.GC_Diesel#2_P_00010	10/31/25		Restek, Lot A0141322			(Purchased Reagent)	#2 Diesel Fuel	50000 ug/mL
							C10-C24	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
.GC_RRO_P_00009	08/31/25		restek, Lot A0140139			(Purchased Reagent)	C24-C36	50000 ug/mL
							C25-C36	50000 ug/mL
OP_FSURR_00081	03/05/20	09/18/19	3:1 Acetone/MeCl2, Lot 187831/229304	25 mL	GC_SURR_STK_00018	5 mL	o-Terphenyl	402.4 ug/mL
							n-Triacontane-d62	401.6 ug/mL
.GC_SURR_STK_00018	08/28/20	08/28/19	MeCl2, Lot 229304	25 mL	GC_SURR1_P_00003	0.0503 g	o-Terphenyl	2012 ug/mL
					GC_SURR2_P_00004	0.0502 g	n-Triacontane-d62	2008 ug/mL
..GC_SURR1_P_00003	07/17/21		Alfa Aesar, Lot E23Y001			(Purchased Reagent)	o-Terphenyl	1000000 ug/mL
..GC_SURR2_P_00004	12/09/20		Alfa Aesar, Lot H21Z037			(Purchased Reagent)	n-Triacontane-d62	1000000 ug/mL



# Method 8260C Low Level

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

FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water

Level: Low

GC Column (1): 624SIL-MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TFT #	TOL #	BFB #
EQB-1-W-190917	580-89287-1	107	115	92	97	106
EQB-1-W-190917 RA	580-89287-1 RA	116	119	93	98	112
MW-4-W-190917	580-89287-2	101	116	89	97	107
MW-8-W-190917	580-89287-3	103	120	87	95	108
SP-3-W-190917	580-89287-4	110	116	92	98	105
SP-2-W-190917	580-89287-5	112	117	92	99	106
SP-1-W-190917	580-89287-6	117	118	89	95	105
MW-10-W-190917	580-89287-7	104	116	96	98	103
MW-7-W-190917	580-89287-8	99	107	94	96	108
MW-7-W-190917 DL	580-89287-8 DL	101	114	92	99	106
MW-5-W-190917	580-89287-9	102	117	85	98	111
MW-6-W-190917	580-89287-10	101	116	88	97	107
MW-6-W-190917 RA	580-89287-10 RA	114	121 X	91	100	111
MW-1-W-190917	580-89287-11	101	119	85	96	110
MW-2-W-190917	580-89287-12	106	117	90	99	110
MW-3-W-190917	580-89287-13	103	111	97	95	109
MW-3-W-190917 DL	580-89287-13 DL	101	116	89	98	110
BD-1-W-190917	580-89287-14	99	104	98	99	106
BD-2-W-190917	580-89287-15	109	114	95	98	104
Trip Blank_190917	580-89287-16	106	118	89	98	107
	MB 580-312585/7	115	123 X	89	95	108
	MB 580-312662/7	107	118	90	95	110
	LCS 580-312585/4	107	109	91	96	105
	LCS 580-312662/4	117	116	87	92	113
	LCSD 580-312585/5	100	108	91	96	104
	LCSD 580-312662/5	114	113	93	96	110

QC LIMITS

DBFM = Dibromofluoromethane (Surr)	80-120
DCA = 1,2-Dichloroethane-d4 (Surr)	80-120
TFT = Trifluorotoluene (Surr)	80-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	80-120

# Column to be used to flag recovery values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

Lab File ID: 09271904.D

Lab ID: LCS 580-312585/4

Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.78	116	79-127	
1,1,1-Trichloroethane	5.00	6.09	122	74-128	
1,1,2,2-Tetrachloroethane	5.00	4.59	92	69-139	
1,1,2-Trichloroethane	5.00	5.24	105	80-127	
1,1-Dichloroethane	5.00	5.48	110	74-135	
1,1-Dichloroethene	5.00	5.55	111	71-126	
1,1-Dichloropropene	5.00	5.44	109	72-132	
1,2,3-Trichlorobenzene	5.00	5.56	111	75-137	
1,2,3-Trichloropropane	5.00	5.06	101	80-127	
1,2,4-Trichlorobenzene	5.00	5.82	116	79-130	
1,2,4-Trimethylbenzene	5.00	5.79	116	78-136	
1,2-Dibromo-3-Chloropropane	5.00	4.85	97	69-130	
1,2-Dibromoethane	5.00	5.13	103	80-126	
1,2-Dichlorobenzene	5.00	5.39	108	80-129	
1,2-Dichloroethane	5.00	5.77	115	74-130	
1,2-Dichloropropane	5.00	5.17	103	80-130	
1,3,5-Trimethylbenzene	5.00	5.33	107	80-139	
1,3-Dichlorobenzene	5.00	5.44	109	80-130	
1,3-Dichloropropane	5.00	5.20	104	80-130	
1,4-Dichlorobenzene	5.00	5.23	105	80-129	
2,2-Dichloropropane	5.00	6.74	135	58-150	
2-Butanone	25.0	27.6	111	64-136	
2-Chlorotoluene	5.00	5.39	108	80-136	
4-Chlorotoluene	5.00	5.44	109	80-130	
4-Isopropyltoluene	5.00	5.41	108	78-132	
4-Methyl-2-pentanone	25.0	23.9	96	65-137	
Acetone	25.0	34.1	137	49-150	
Benzene	5.00	5.34	107	73-133	
Bromobenzene	5.00	5.18	104	80-130	
Bromochloromethane	5.00	5.57	111	79-131	
Bromodichloromethane	5.00	5.72	114	74-131	
Bromoform	5.00	4.94	99	69-137	
Bromomethane	5.00	5.95	119	68-120	
Carbon disulfide	5.00	5.46	109	65-128	
Carbon tetrachloride	5.00	6.03	121	71-132	
Chlorobenzene	5.00	5.26	105	80-123	
Chloroethane	5.00	5.41	108	49-135	
Chloroform	5.00	5.74	115	80-130	
Chloromethane	5.00	6.17	123	32-143	
cis-1,2-Dichloroethene	5.00	5.54	111	72-130	
cis-1,3-Dichloropropene	5.00	5.54	111	66-141	
Dibromochloromethane	5.00	5.34	107	76-131	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 09271904.D

Lab ID: LCS 580-312585/4 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dibromomethane	5.00	5.31	106	65-141	
Dichlorodifluoromethane	5.00	5.09	102	20-137	
Ethylbenzene	5.00	5.70	114	80-130	
Hexachlorobutadiene	5.00	5.61	112	72-138	
Isopropylbenzene	5.00	6.02	120	75-137	
Methyl tert-butyl ether	5.00	5.46	109	60-150	
Methylene Chloride	5.00	5.86	117	75-134	
m-Xylene & p-Xylene	5.00	5.86	117	78-130	
Naphthalene	5.00	5.65	113	64-132	
n-Butylbenzene	5.00	5.36	107	73-135	
N-Propylbenzene	5.00	5.12	102	77-142	
o-Xylene	5.00	5.93	119	80-139	
sec-Butylbenzene	5.00	5.28	106	78-140	
Styrene	5.00	5.47	109	74-136	
t-Butylbenzene	5.00	5.17	103	77-140	
Tetrachloroethene	5.00	5.39	108	75-131	
Toluene	5.00	5.42	108	80-126	
trans-1,2-Dichloroethene	5.00	5.61	112	63-133	
trans-1,3-Dichloropropene	5.00	5.17	103	71-128	
Trichloroethene	5.00	5.59	112	72-136	
Trichlorofluoromethane	5.00	6.27	125	60-132	
Vinyl chloride	5.00	6.21	124	52-128	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

Lab File ID: 09281904.D

Lab ID: LCS 580-312662/4

Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.94	119	79-127	
1,1,1-Trichloroethane	5.00	6.63	133	74-128	*
1,1,2,2-Tetrachloroethane	5.00	4.57	91	69-139	
1,1,2-Trichloroethane	5.00	5.00	100	80-127	
1,1-Dichloroethane	5.00	5.73	115	74-135	
1,1-Dichloroethene	5.00	5.90	118	71-126	
1,1-Dichloropropene	5.00	5.60	112	72-132	
1,2,3-Trichlorobenzene	5.00	6.00	120	75-137	
1,2,3-Trichloropropane	5.00	5.33	107	80-127	
1,2,4-Trichlorobenzene	5.00	6.04	121	79-130	
1,2,4-Trimethylbenzene	5.00	5.60	112	78-136	
1,2-Dibromo-3-Chloropropane	5.00	5.11	102	69-130	
1,2-Dibromoethane	5.00	5.13	103	80-126	
1,2-Dichlorobenzene	5.00	5.30	106	80-129	
1,2-Dichloroethane	5.00	5.90	118	74-130	
1,2-Dichloropropane	5.00	4.83	97	80-130	
1,3,5-Trimethylbenzene	5.00	5.12	102	80-139	
1,3-Dichlorobenzene	5.00	5.27	105	80-130	
1,3-Dichloropropane	5.00	5.07	101	80-130	
1,4-Dichlorobenzene	5.00	5.06	101	80-129	
2,2-Dichloropropane	5.00	7.26	145	58-150	
2-Butanone	25.0	27.7	111	64-136	
2-Chlorotoluene	5.00	5.21	104	80-136	
4-Chlorotoluene	5.00	5.24	105	80-130	
4-Isopropyltoluene	5.00	5.20	104	78-132	
4-Methyl-2-pentanone	25.0	25.3	101	65-137	
Acetone	25.0	20.9	84	49-150	
Benzene	5.00	5.27	105	73-133	
Bromobenzene	5.00	5.06	101	80-130	
Bromochloromethane	5.00	5.76	115	79-131	
Bromodichloromethane	5.00	5.77	115	74-131	
Bromoform	5.00	5.17	103	69-137	
Bromomethane	5.00	5.80	116	68-120	
Carbon disulfide	5.00	5.57	111	65-128	
Carbon tetrachloride	5.00	6.74	135	71-132	*
Chlorobenzene	5.00	5.15	103	80-123	
Chloroethane	5.00	5.66	113	49-135	
Chloroform	5.00	6.12	122	80-130	
Chloromethane	5.00	5.61	112	32-143	
cis-1,2-Dichloroethene	5.00	5.72	114	72-130	
cis-1,3-Dichloropropene	5.00	4.95	99	66-141	
Dibromochloromethane	5.00	5.19	104	76-131	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 09281904.D

Lab ID: LCS 580-312662/4 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dibromomethane	5.00	5.25	105	65-141	
Dichlorodifluoromethane	5.00	5.32	106	20-137	
Ethylbenzene	5.00	5.73	115	80-130	
Hexachlorobutadiene	5.00	5.52	110	72-138	
Isopropylbenzene	5.00	6.07	121	75-137	
Methyl tert-butyl ether	5.00	6.34	127	60-150	
Methylene Chloride	5.00	6.03	121	75-134	
m-Xylene & p-Xylene	5.00	5.91	118	78-130	
Naphthalene	5.00	6.18	124	64-132	
n-Butylbenzene	5.00	5.26	105	73-135	
N-Propylbenzene	5.00	5.01	100	77-142	
o-Xylene	5.00	5.98	120	80-139	
sec-Butylbenzene	5.00	5.07	101	78-140	
Styrene	5.00	5.61	112	74-136	
t-Butylbenzene	5.00	4.71	94	77-140	
Tetrachloroethene	5.00	5.11	102	75-131	
Toluene	5.00	5.00	100	80-126	
trans-1,2-Dichloroethene	5.00	5.88	118	63-133	
trans-1,3-Dichloropropene	5.00	4.92	98	71-128	
Trichloroethene	5.00	5.40	108	72-136	
Trichlorofluoromethane	5.00	7.15	143	60-132	*
Vinyl chloride	5.00	6.00	120	52-128	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

Lab File ID: 09271905.D

Lab ID: LCSD 580-312585/5

Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	5.00	5.30	106	9	20	79-127	
1,1,1-Trichloroethane	5.00	5.27	105	14	14	74-128	
1,1,2,2-Tetrachloroethane	5.00	4.43	89	4	22	69-139	
1,1,2-Trichloroethane	5.00	5.32	106	2	19	80-127	
1,1-Dichloroethane	5.00	4.77	95	14	20	74-135	
1,1-Dichloroethene	5.00	4.75	95	16	17	71-126	
1,1-Dichloropropene	5.00	5.08	102	7	13	72-132	
1,2,3-Trichlorobenzene	5.00	5.02	100	10	20	75-137	
1,2,3-Trichloropropane	5.00	5.08	102	0	20	80-127	
1,2,4-Trichlorobenzene	5.00	5.39	108	8	20	79-130	
1,2,4-Trimethylbenzene	5.00	5.53	111	5	20	78-136	
1,2-Dibromo-3-Chloropropane	5.00	4.59	92	5	26	69-130	
1,2-Dibromoethane	5.00	5.18	104	1	20	80-126	
1,2-Dichlorobenzene	5.00	5.11	102	5	14	80-129	
1,2-Dichloroethane	5.00	5.71	114	1	15	74-130	
1,2-Dichloropropane	5.00	5.19	104	0	14	80-130	
1,3,5-Trimethylbenzene	5.00	5.17	103	3	20	80-139	
1,3-Dichlorobenzene	5.00	5.32	106	2	12	80-130	
1,3-Dichloropropane	5.00	5.36	107	3	19	80-130	
1,4-Dichlorobenzene	5.00	5.20	104	0	11	80-129	
2,2-Dichloropropane	5.00	5.57	111	19	28	58-150	
2-Butanone	25.0	29.8	119	8	23	64-136	
2-Chlorotoluene	5.00	5.26	105	2	20	80-136	
4-Chlorotoluene	5.00	5.53	111	2	20	80-130	
4-Isopropyltoluene	5.00	5.08	102	6	14	78-132	
4-Methyl-2-pentanone	25.0	23.3	93	3	24	65-137	
Acetone	25.0	37.0	148	8	24	49-150	
Benzene	5.00	5.16	103	4	20	73-133	
Bromobenzene	5.00	5.25	105	1	20	80-130	
Bromochloromethane	5.00	4.88	98	13	20	79-131	
Bromodichloromethane	5.00	5.77	115	1	20	74-131	
Bromoform	5.00	4.74	95	4	20	69-137	
Bromomethane	5.00	5.09	102	16	18	68-120	
Carbon disulfide	5.00	4.67	93	16	23	65-128	
Carbon tetrachloride	5.00	5.29	106	13	15	71-132	
Chlorobenzene	5.00	5.12	102	3	12	80-123	
Chloroethane	5.00	4.86	97	11	27	49-135	
Chloroform	5.00	5.13	103	11	20	80-130	
Chloromethane	5.00	4.65	93	28	23	32-143	*
cis-1,2-Dichloroethene	5.00	4.77	95	15	20	72-130	
cis-1,3-Dichloropropene	5.00	5.72	114	3	22	66-141	
Dibromochloromethane	5.00	5.31	106	1	20	76-131	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 09271905.D  
 Lab ID: LCSD 580-312585/5 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Dibromomethane	5.00	5.25	105	1	20	65-141	
Dichlorodifluoromethane	5.00	4.31	86	17	22	20-137	
Ethylbenzene	5.00	5.46	109	4	20	80-130	
Hexachlorobutadiene	5.00	5.08	102	10	20	72-138	
Isopropylbenzene	5.00	5.52	110	9	20	75-137	
Methyl tert-butyl ether	5.00	4.70	94	15	25	60-150	
Methylene Chloride	5.00	5.04	101	15	18	75-134	
m-Xylene & p-Xylene	5.00	5.63	113	4	20	78-130	
Naphthalene	5.00	5.04	101	12	20	64-132	
n-Butylbenzene	5.00	4.93	99	8	18	73-135	
N-Propylbenzene	5.00	5.01	100	2	20	77-142	
o-Xylene	5.00	5.51	110	7	20	80-139	
sec-Butylbenzene	5.00	5.10	102	4	20	78-140	
Styrene	5.00	5.55	111	1	20	74-136	
t-Butylbenzene	5.00	5.19	104	0	20	77-140	
Tetrachloroethene	5.00	5.17	103	4	20	75-131	
Toluene	5.00	5.28	106	3	20	80-126	
trans-1,2-Dichloroethene	5.00	4.89	98	14	17	63-133	
trans-1,3-Dichloropropene	5.00	5.45	109	5	21	71-128	
Trichloroethene	5.00	5.41	108	3	14	72-136	
Trichlorofluoromethane	5.00	3.07	61	69	20	60-132	*
Vinyl chloride	5.00	4.95	99	23	21	52-128	*

# Column to be used to flag recovery and RPD values



FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

Lab File ID: 09281905.D

Lab ID: LCSD 580-312662/5

Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	5.00	5.99	120	1	20	79-127	
1,1,1-Trichloroethane	5.00	6.53	131	1	14	74-128	*
1,1,2,2-Tetrachloroethane	5.00	4.42	88	3	22	69-139	
1,1,2-Trichloroethane	5.00	4.94	99	1	19	80-127	
1,1-Dichloroethane	5.00	5.53	111	3	20	74-135	
1,1-Dichloroethene	5.00	5.72	114	3	17	71-126	
1,1-Dichloropropene	5.00	5.56	111	1	13	72-132	
1,2,3-Trichlorobenzene	5.00	5.87	117	2	20	75-137	
1,2,3-Trichloropropane	5.00	5.02	100	6	20	80-127	
1,2,4-Trichlorobenzene	5.00	6.12	122	1	20	79-130	
1,2,4-Trimethylbenzene	5.00	5.74	115	3	20	78-136	
1,2-Dibromo-3-Chloropropane	5.00	4.97	99	3	26	69-130	
1,2-Dibromoethane	5.00	4.90	98	5	20	80-126	
1,2-Dichlorobenzene	5.00	5.30	106	0	14	80-129	
1,2-Dichloroethane	5.00	5.74	115	3	15	74-130	
1,2-Dichloropropane	5.00	4.83	97	0	14	80-130	
1,3,5-Trimethylbenzene	5.00	5.22	104	2	20	80-139	
1,3-Dichlorobenzene	5.00	5.29	106	0	12	80-130	
1,3-Dichloropropane	5.00	4.82	96	5	19	80-130	
1,4-Dichlorobenzene	5.00	5.10	102	1	11	80-129	
2,2-Dichloropropane	5.00	6.99	140	4	28	58-150	
2-Butanone	25.0	26.1	104	6	23	64-136	
2-Chlorotoluene	5.00	5.29	106	2	20	80-136	
4-Chlorotoluene	5.00	5.32	106	2	20	80-130	
4-Isopropyltoluene	5.00	5.28	106	1	14	78-132	
4-Methyl-2-pentanone	25.0	23.5	94	7	24	65-137	
Acetone	25.0	22.8	91	8	24	49-150	
Benzene	5.00	5.24	105	1	20	73-133	
Bromobenzene	5.00	5.01	100	1	20	80-130	
Bromochloromethane	5.00	5.63	113	2	20	79-131	
Bromodichloromethane	5.00	5.48	110	5	20	74-131	
Bromoform	5.00	4.91	98	5	20	69-137	
Bromomethane	5.00	5.68	114	2	18	68-120	
Carbon disulfide	5.00	5.43	109	3	23	65-128	
Carbon tetrachloride	5.00	6.59	132	2	15	71-132	
Chlorobenzene	5.00	5.09	102	1	12	80-123	
Chloroethane	5.00	5.78	116	2	27	49-135	
Chloroform	5.00	6.03	121	2	20	80-130	
Chloromethane	5.00	5.30	106	6	23	32-143	
cis-1,2-Dichloroethene	5.00	5.66	113	1	20	72-130	
cis-1,3-Dichloropropene	5.00	5.12	102	3	22	66-141	
Dibromochloromethane	5.00	5.14	103	1	20	76-131	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 09281905.D  
 Lab ID: LCSD 580-312662/5 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Dibromomethane	5.00	5.20	104	1	20	65-141	
Dichlorodifluoromethane	5.00	5.01	100	6	22	20-137	
Ethylbenzene	5.00	5.78	116	1	20	80-130	
Hexachlorobutadiene	5.00	5.66	113	3	20	72-138	
Isopropylbenzene	5.00	6.24	125	3	20	75-137	
Methyl tert-butyl ether	5.00	5.82	116	9	25	60-150	
Methylene Chloride	5.00	5.84	117	3	18	75-134	
m-Xylene & p-Xylene	5.00	5.96	119	1	20	78-130	
Naphthalene	5.00	5.91	118	5	20	64-132	
n-Butylbenzene	5.00	5.35	107	2	18	73-135	
N-Propylbenzene	5.00	5.09	102	2	20	77-142	
o-Xylene	5.00	6.05	121	1	20	80-139	
sec-Butylbenzene	5.00	5.16	103	2	20	78-140	
Styrene	5.00	5.51	110	2	20	74-136	
t-Butylbenzene	5.00	4.94	99	5	20	77-140	
Tetrachloroethene	5.00	5.24	105	2	20	75-131	
Toluene	5.00	5.16	103	3	20	80-126	
trans-1,2-Dichloroethene	5.00	5.83	117	1	17	63-133	
trans-1,3-Dichloropropene	5.00	4.83	97	2	21	71-128	
Trichloroethene	5.00	5.37	107	1	14	72-136	
Trichlorofluoromethane	5.00	7.06	141	1	20	60-132	*
Vinyl chloride	5.00	5.62	112	7	21	52-128	

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 09271907.D Lab Sample ID: MB 580-312585/7  
 Matrix: Water Heated Purge: (Y/N) N  
 Instrument ID: TAC113 Date Analyzed: 09/27/2019 18:21  
 GC Column: DB-VRX ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-312585/4	09271904.D	09/27/2019 17:02
	LCSD 580-312585/5	09271905.D	09/27/2019 17:28
BD-2-W-190917	580-89287-15	09271908.D	09/27/2019 18:48
Trip Blank_190917	580-89287-16	09271909.D	09/27/2019 19:14
EQB-1-W-190917	580-89287-1	09271912.D	09/27/2019 20:34
MW-4-W-190917	580-89287-2	09271913.D	09/27/2019 21:00
MW-8-W-190917	580-89287-3	09271914.D	09/27/2019 21:27
SP-3-W-190917	580-89287-4	09271915.D	09/27/2019 21:54
SP-2-W-190917	580-89287-5	09271916.D	09/27/2019 22:20
SP-1-W-190917	580-89287-6	09271917.D	09/27/2019 22:47
MW-10-W-190917	580-89287-7	09271918.D	09/27/2019 23:13
MW-6-W-190917	580-89287-10	09271919.D	09/27/2019 23:40
MW-5-W-190917	580-89287-9	09271920.D	09/28/2019 00:06
MW-1-W-190917	580-89287-11	09271921.D	09/28/2019 00:33
MW-2-W-190917	580-89287-12	09271922.D	09/28/2019 00:59
MW-3-W-190917	580-89287-13	09271923.D	09/28/2019 01:26
BD-1-W-190917	580-89287-14	09271924.D	09/28/2019 01:52
MW-7-W-190917	580-89287-8	09271925.D	09/28/2019 02:19

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 09281907.D Lab Sample ID: MB 580-312662/7  
 Matrix: Water Heated Purge: (Y/N) N  
 Instrument ID: TAC113 Date Analyzed: 09/28/2019 18:16  
 GC Column: DB-VRX ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-312662/4	09281904.D	09/28/2019 16:57
	LCSD 580-312662/5	09281905.D	09/28/2019 17:23
EQB-1-W-190917 RA	580-89287-1 RA	09281908.D	09/28/2019 18:43
MW-6-W-190917 RA	580-89287-10 RA	09281909.D	09/28/2019 19:09
MW-7-W-190917 DL	580-89287-8 DL	09281911.D	09/28/2019 20:02
MW-3-W-190917 DL	580-89287-13 DL	09281912.D	09/28/2019 20:29

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 09171902b.D BFB Injection Date: 09/17/2019  
 Instrument ID: TAC113 BFB Injection Time: 18:19  
 Analysis Batch No.: 311485

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.7
75	30.0 - 60.0 % of mass 95	59.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.3
173	Less than 2.0 % of mass 174	0.5 (0.7) 1
174	50.0 - 120.00 % of mass 95	66.8
175	5.0 - 9.0 % of mass 174	4.8 (7.1) 1
176	95.0 - 101.0 % of mass 174	64.7 (96.7) 1
177	5.0 - 9.0 % of mass 176	4.4 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD 580-311485/3	09171903b.D	09/17/2019	19:00
	STD 580-311485/4	09171904b.D	09/17/2019	19:26
	STD 580-311485/5	09171905b.D	09/17/2019	20:15
	STD 580-311485/6	09171906b.D	09/17/2019	20:42
	STD 580-311485/7	09171907b.D	09/17/2019	21:19
	STD 580-311485/8	09171908b.D	09/17/2019	21:45
	STD 580-311485/9	09171909b.D	09/17/2019	22:12
	ICIS 580-311485/10	09171910b.D	09/17/2019	22:38
	STD 580-311485/11	09171911b.D	09/17/2019	23:05
	STD 580-311485/12	09171912b.D	09/17/2019	23:31
	STD 580-311485/13	09171913b.D	09/17/2019	23:58
	ICV 580-311485/15	09171915b.D	09/18/2019	00:50

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 09271902.D BFB Injection Date: 09/27/2019  
 Instrument ID: TAC113 BFB Injection Time: 16:09  
 Analysis Batch No.: 312585

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.6	
75	30.0 - 60.0 % of mass 95	60.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.4	(0.6) 1
174	50.0 - 120.00 % of mass 95	70.7	
175	5.0 - 9.0 % of mass 174	4.8	(6.8) 1
176	95.0 - 101.0 % of mass 174	68.1	(96.3) 1
177	5.0 - 9.0 % of mass 176	4.5	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 580-312585/3	09271903.D	09/27/2019	16:35
	LCS 580-312585/4	09271904.D	09/27/2019	17:02
	LCSD 580-312585/5	09271905.D	09/27/2019	17:28
	MB 580-312585/7	09271907.D	09/27/2019	18:21
BD-2-W-190917	580-89287-15	09271908.D	09/27/2019	18:48
Trip Blank 190917	580-89287-16	09271909.D	09/27/2019	19:14
EQB-1-W-190917	580-89287-1	09271912.D	09/27/2019	20:34
MW-4-W-190917	580-89287-2	09271913.D	09/27/2019	21:00
MW-8-W-190917	580-89287-3	09271914.D	09/27/2019	21:27
SP-3-W-190917	580-89287-4	09271915.D	09/27/2019	21:54
SP-2-W-190917	580-89287-5	09271916.D	09/27/2019	22:20
SP-1-W-190917	580-89287-6	09271917.D	09/27/2019	22:47
MW-10-W-190917	580-89287-7	09271918.D	09/27/2019	23:13
MW-6-W-190917	580-89287-10	09271919.D	09/27/2019	23:40
MW-5-W-190917	580-89287-9	09271920.D	09/28/2019	00:06
MW-1-W-190917	580-89287-11	09271921.D	09/28/2019	00:33
MW-2-W-190917	580-89287-12	09271922.D	09/28/2019	00:59
MW-3-W-190917	580-89287-13	09271923.D	09/28/2019	01:26
BD-1-W-190917	580-89287-14	09271924.D	09/28/2019	01:52
MW-7-W-190917	580-89287-8	09271925.D	09/28/2019	02:19

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 09281902.D BFB Injection Date: 09/28/2019  
 Instrument ID: TAC113 BFB Injection Time: 16:04  
 Analysis Batch No.: 312662

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.3
75	30.0 - 60.0 % of mass 95	58.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.9
173	Less than 2.0 % of mass 174	0.4 (0.7) 1
174	50.0 - 120.00 % of mass 95	65.7
175	5.0 - 9.0 % of mass 174	4.7 (7.1) 1
176	95.0 - 101.0 % of mass 174	64.2 (97.8) 1
177	5.0 - 9.0 % of mass 176	4.3 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 580-312662/3	09281903.D	09/28/2019	16:30
	LCS 580-312662/4	09281904.D	09/28/2019	16:57
	LCSD 580-312662/5	09281905.D	09/28/2019	17:23
	CCVL 580-312662/6	09281906.D	09/28/2019	17:50
	MB 580-312662/7	09281907.D	09/28/2019	18:16
EQB-1-W-190917 RA	580-89287-1 RA	09281908.D	09/28/2019	18:43
MW-6-W-190917 RA	580-89287-10 RA	09281909.D	09/28/2019	19:09
MW-7-W-190917 DL	580-89287-8 DL	09281911.D	09/28/2019	20:02
MW-3-W-190917 DL	580-89287-13 DL	09281912.D	09/28/2019	20:29

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 580-311485/10 Date Analyzed: 09/17/2019 22:38  
 Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm)  
 Lab File ID (Standard): 09171910b.D Heated Purge: (Y/N) N  
 Calibration ID: 28231

	TBA <sub>d</sub> 9		FB		CBN <sub>Zd</sub> 5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	175619	6.42	2096703	9.35	1498858	12.31
UPPER LIMIT		6.58		9.51		12.48
LOWER LIMIT		6.25		9.18		12.14
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 580-311485/15	188906	6.41	2337800	9.34	1951069	12.31

TBA<sub>d</sub>9 = TBA-d9 (IS)

FB = Fluorobenzene (IS)

CBN<sub>Zd</sub>5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.1666 minutes of internal standard RT

# Column used to flag values outside QC limits



FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 580-311485/10 Date Analyzed: 09/17/2019 22:38  
 Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm)  
 Lab File ID (Standard): 09171910b.D Heated Purge: (Y/N) N  
 Calibration ID: 28231

	DCBd4		AREA #	RT #	AREA #	RT #
	AREA #	RT #				
INITIAL CALIBRATION MID-POINT	745868	14.61				
UPPER LIMIT		14.78				
LOWER LIMIT		14.45				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 580-311485/15		958495	14.61			

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.1666 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 580-312585/3 Date Analyzed: 09/27/2019 16:35  
 Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm)  
 Lab File ID (Standard): 09271903.D Heated Purge: (Y/N) N  
 Calibration ID: 28231

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1658509	9.35	1323884	12.31	658702	14.61	
UPPER LIMIT		9.51		12.47		14.78	
LOWER LIMIT		9.18		12.14		14.45	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 580-312585/4	1568222	9.35	1222204	12.31	648691	14.61	
LCSD 580-312585/5	1844785	9.35	1492609	12.31	754341	14.61	
MB 580-312585/7	1435376	9.34	1117487	12.31	628435	14.61	
580-89287-15	BD-2-W-190917	1474185	9.35	1118212	12.31	594585	14.61
580-89287-16	Trip Blank_190917	1511725	9.35	1173210	12.31	641908	14.61
580-89287-1	EQB-1-W-190917	1423870	9.35	1064804	12.31	567220	14.61
580-89287-2	MW-4-W-190917	1562729	9.35	1247530	12.31	664542	14.61
580-89287-3	MW-8-W-190917	1517645	9.34	1226136	12.31	649613	14.61
580-89287-4	SP-3-W-190917	1596171	9.34	1319659	12.31	682358	14.61
580-89287-5	SP-2-W-190917	1475119	9.34	1123784	12.31	610308	14.61
580-89287-6	SP-1-W-190917	1281168	9.35	1116257	12.31	591973	14.61
580-89287-7	MW-10-W-190917	1552178	9.35	1194760	12.31	608484	14.61
580-89287-10	MW-6-W-190917	1585454	9.35	1276291	12.31	685841	14.61
580-89287-9	MW-5-W-190917	1546586	9.34	1200748	12.31	659264	14.61
580-89287-11	MW-1-W-190917	1649141	9.34	1327288	12.31	713544	14.61
580-89287-12	MW-2-W-190917	1612563	9.35	1174933	12.31	650095	14.61
580-89287-13	MW-3-W-190917	1606115	9.35	1340806	12.31	636274	14.62
580-89287-14	BD-1-W-190917	2196438	9.34	1674130	12.31	848588	14.61
580-89287-8	MW-7-W-190917	2122618	9.35	1758042	12.31	857273	14.62

FB = Fluorobenzene (IS)  
 CBNZd5 = Chlorobenzene-d5  
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.1666 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 580-312662/3 Date Analyzed: 09/28/2019 16:30  
 Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm)  
 Lab File ID (Standard): 09281903.D Heated Purge: (Y/N) N  
 Calibration ID: 28231

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1487695	9.35	1207389	12.31	602033	14.61	
UPPER LIMIT		9.51		12.48	1204066	14.78	
LOWER LIMIT		9.18		12.14	301017	14.45	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 580-312662/4		1363658	9.35	1067224	12.31	602087	14.61
LCSD 580-312662/5		1434847	9.35	1068892	12.31	594957	14.61
CCVL 580-312662/6		1599463	9.34	1340465	12.31	672429	14.61
MB 580-312662/7		1658433	9.35	1290426	12.31	700353	14.61
580-89287-1 RA	EQB-1-W-190917 RA	1297453	9.35	954479	12.31	560250	14.61
580-89287-10 RA	MW-6-W-190917 RA	1337422	9.35	931868	12.31	551438	14.61
580-89287-8 DL	MW-7-W-190917 DL	1529163	9.35	1193210	12.31	626335	14.61
580-89287-13 DL	MW-3-W-190917 DL	1638680	9.34	1262629	12.31	682395	14.61

FB = Fluorobenzene (IS)  
 CBNZd5 = Chlorobenzene-d5  
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.1666 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EQB-1-W-190917 Lab Sample ID: 580-89287-1  
 Matrix: Water Lab File ID: 09271912.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 09:30  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 20:34  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.30	0.027
71-55-6	1,1,1-Trichloroethane	ND		0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.20	0.056
79-00-5	1,1,2-Trichloroethane	ND		0.20	0.070
75-34-3	1,1-Dichloroethane	ND		0.20	0.025
75-35-4	1,1-Dichloroethene	ND		0.20	0.10
563-58-6	1,1-Dichloropropene	ND		0.20	0.036
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.20	0.050
120-82-1	1,2,4-Trichlorobenzene	ND		0.30	0.072
95-63-6	1,2,4-Trimethylbenzene	ND		0.30	0.072
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.44
106-93-4	1,2-Dibromoethane	ND		0.10	0.025
95-50-1	1,2-Dichlorobenzene	ND		0.30	0.050
107-06-2	1,2-Dichloroethane	0.051	J	0.20	0.043
78-87-5	1,2-Dichloropropane	ND		0.20	0.060
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.30	0.050
142-28-9	1,3-Dichloropropane	ND		0.20	0.056
106-46-7	1,4-Dichlorobenzene	ND		0.30	0.050
594-20-7	2,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone	ND		10	2.5
95-49-8	2-Chlorotoluene	ND		0.50	0.12
106-43-4	4-Chlorotoluene	ND		0.30	0.050
99-87-6	4-Isopropyltoluene	ND		0.30	0.050
108-10-1	4-Methyl-2-pentanone	ND		5.0	1.7
71-43-2	Benzene	ND		0.20	0.030
108-86-1	Bromobenzene	ND		0.20	0.035
74-97-5	Bromochloromethane	ND		0.20	0.025
75-27-4	Bromodichloromethane	ND		0.20	0.060
75-25-2	Bromoform	ND		0.50	0.16
74-83-9	Bromomethane	ND		0.50	0.16
75-15-0	Carbon disulfide	ND		0.30	0.083
56-23-5	Carbon tetrachloride	ND		0.20	0.025
108-90-7	Chlorobenzene	ND		0.20	0.025
75-00-3	Chloroethane	ND		0.50	0.096

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EQB-1-W-190917 Lab Sample ID: 580-89287-1  
 Matrix: Water Lab File ID: 09271912.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 09:30  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 20:34  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	0.050	J	0.20	0.030
74-87-3	Chloromethane	ND	*	0.50	0.15
156-59-2	cis-1,2-Dichloroethene	ND		0.20	0.055
10061-01-5	cis-1,3-Dichloropropene	ND		0.20	0.090
124-48-1	Dibromochloromethane	ND		0.20	0.055
74-95-3	Dibromomethane	ND		0.20	0.062
75-71-8	Dichlorodifluoromethane	ND		0.40	0.13
100-41-4	Ethylbenzene	0.065	J B	0.20	0.030
87-68-3	Hexachlorobutadiene	ND		0.50	0.15
98-82-8	Isopropylbenzene	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		0.30	0.070
75-09-2	Methylene Chloride	ND		5.0	0.74
179601-23-1	m-Xylene & p-Xylene	0.15	J	0.50	0.12
91-20-3	Naphthalene	ND		1.0	0.22
104-51-8	n-Butylbenzene	ND		0.50	0.080
103-65-1	N-Propylbenzene	ND		0.30	0.091
95-47-6	o-Xylene	ND		0.50	0.15
135-98-8	sec-Butylbenzene	ND		1.0	0.17
100-42-5	Styrene	0.22	J	0.50	0.19
98-06-6	t-Butylbenzene	ND		0.50	0.10
127-18-4	Tetrachloroethene	ND		0.50	0.084
108-88-3	Toluene	0.54		0.20	0.050
156-60-5	trans-1,2-Dichloroethene	ND		0.20	0.089
10061-02-6	trans-1,3-Dichloropropene	ND		0.20	0.092
79-01-6	Trichloroethene	ND		0.20	0.066
75-69-4	Trichlorofluoromethane	ND	*	0.50	0.11
75-01-4	Vinyl chloride	ND	*	0.020	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		80-120
460-00-4	4-Bromofluorobenzene (Surr)	106		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EQB-1-W-190917 RA Lab Sample ID: 580-89287-1 RA  
 Matrix: Water Lab File ID: 09281908.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 09:30  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 18:43  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312662 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	7.4		6.0	3.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		80-120
460-00-4	4-Bromofluorobenzene (Surr)	112		80-120
1868-53-7	Dibromofluoromethane (Surr)	116		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-4-W-190917 Lab Sample ID: 580-89287-2  
 Matrix: Water Lab File ID: 09271913.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 09:50  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 21:00  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.20	0.030
108-88-3	Toluene	ND		0.20	0.050
100-41-4	Ethylbenzene	0.057	J B	0.20	0.030
179601-23-1	m-Xylene & p-Xylene	0.13	J	0.50	0.12
95-47-6	o-Xylene	ND		0.50	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	89		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		80-120
460-00-4	4-Bromofluorobenzene (Surr)	107		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-8-W-190917 Lab Sample ID: 580-89287-3  
 Matrix: Water Lab File ID: 09271914.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 10:50  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 21:27  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	7.3		0.20	0.030
108-88-3	Toluene	0.25		0.20	0.050
100-41-4	Ethylbenzene	0.22	B	0.20	0.030
179601-23-1	m-Xylene & p-Xylene	1.1		0.50	0.12
95-47-6	o-Xylene	0.26	J	0.50	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	87		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		80-120
460-00-4	4-Bromofluorobenzene (Surr)	108		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SP-3-W-190917 Lab Sample ID: 580-89287-4  
 Matrix: Water Lab File ID: 09271915.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 11:00  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 21:54  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.20	0.030
108-88-3	Toluene	ND		0.20	0.050
100-41-4	Ethylbenzene	0.052	J B	0.20	0.030
179601-23-1	m-Xylene & p-Xylene	0.12	J	0.50	0.12
95-47-6	o-Xylene	ND		0.50	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		80-120
460-00-4	4-Bromofluorobenzene (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	110		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SP-2-W-190917 Lab Sample ID: 580-89287-5  
 Matrix: Water Lab File ID: 09271916.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 11:10  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 22:20  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.20	0.030
108-88-3	Toluene	ND		0.20	0.050
100-41-4	Ethylbenzene	0.080	J B	0.20	0.030
179601-23-1	m-Xylene & p-Xylene	0.19	J	0.50	0.12
95-47-6	o-Xylene	ND		0.50	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		80-120
460-00-4	4-Bromofluorobenzene (Surr)	106		80-120
1868-53-7	Dibromofluoromethane (Surr)	112		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SP-1-W-190917 Lab Sample ID: 580-89287-6  
 Matrix: Water Lab File ID: 09271917.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 11:20  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 22:47  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.20	0.030
108-88-3	Toluene	ND		0.20	0.050
100-41-4	Ethylbenzene	0.054	J B	0.20	0.030
179601-23-1	m-Xylene & p-Xylene	0.12	J	0.50	0.12
95-47-6	o-Xylene	ND		0.50	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	89		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		80-120
460-00-4	4-Bromofluorobenzene (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	117		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-10-W-190917 Lab Sample ID: 580-89287-7  
 Matrix: Water Lab File ID: 09271918.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 12:00  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 23:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.30	0.027
71-55-6	1,1,1-Trichloroethane	ND		0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.20	0.056
79-00-5	1,1,2-Trichloroethane	ND		0.20	0.070
75-34-3	1,1-Dichloroethane	ND		0.20	0.025
75-35-4	1,1-Dichloroethene	ND		0.20	0.10
563-58-6	1,1-Dichloropropene	0.089	J	0.20	0.036
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.20	0.050
120-82-1	1,2,4-Trichlorobenzene	ND		0.30	0.072
95-63-6	1,2,4-Trimethylbenzene	ND		0.30	0.072
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.44
106-93-4	1,2-Dibromoethane	ND		0.10	0.025
95-50-1	1,2-Dichlorobenzene	ND		0.30	0.050
107-06-2	1,2-Dichloroethane	ND		0.20	0.043
78-87-5	1,2-Dichloropropane	ND		0.20	0.060
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.30	0.050
142-28-9	1,3-Dichloropropane	ND		0.20	0.056
106-46-7	1,4-Dichlorobenzene	ND		0.30	0.050
594-20-7	2,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone	ND		10	2.5
95-49-8	2-Chlorotoluene	ND		0.50	0.12
106-43-4	4-Chlorotoluene	ND		0.30	0.050
99-87-6	4-Isopropyltoluene	ND		0.30	0.050
108-10-1	4-Methyl-2-pentanone	ND		5.0	1.7
67-64-1	Acetone	ND		6.0	3.1
71-43-2	Benzene	ND		0.20	0.030
108-86-1	Bromobenzene	ND		0.20	0.035
74-97-5	Bromochloromethane	ND		0.20	0.025
75-27-4	Bromodichloromethane	ND		0.20	0.060
75-25-2	Bromoform	ND		0.50	0.16
74-83-9	Bromomethane	ND		0.50	0.16
75-15-0	Carbon disulfide	ND		0.30	0.083
56-23-5	Carbon tetrachloride	ND		0.20	0.025
108-90-7	Chlorobenzene	ND		0.20	0.025

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-10-W-190917 Lab Sample ID: 580-89287-7  
 Matrix: Water Lab File ID: 09271918.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 12:00  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 23:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	ND		0.50	0.096
67-66-3	Chloroform	ND		0.20	0.030
74-87-3	Chloromethane	ND	*	0.50	0.15
156-59-2	cis-1,2-Dichloroethene	ND		0.20	0.055
10061-01-5	cis-1,3-Dichloropropene	ND		0.20	0.090
124-48-1	Dibromochloromethane	ND		0.20	0.055
74-95-3	Dibromomethane	ND		0.20	0.062
75-71-8	Dichlorodifluoromethane	0.21	J	0.40	0.13
100-41-4	Ethylbenzene	0.053	J B	0.20	0.030
87-68-3	Hexachlorobutadiene	ND		0.50	0.15
98-82-8	Isopropylbenzene	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	0.13	J B	0.30	0.070
75-09-2	Methylene Chloride	ND		5.0	0.74
179601-23-1	m-Xylene & p-Xylene	0.12	J	0.50	0.12
91-20-3	Naphthalene	ND		1.0	0.22
104-51-8	n-Butylbenzene	ND		0.50	0.080
103-65-1	N-Propylbenzene	ND		0.30	0.091
95-47-6	o-Xylene	ND		0.50	0.15
135-98-8	sec-Butylbenzene	ND		1.0	0.17
100-42-5	Styrene	0.22	J	0.50	0.19
98-06-6	t-Butylbenzene	ND		0.50	0.10
127-18-4	Tetrachloroethene	ND		0.50	0.084
108-88-3	Toluene	ND		0.20	0.050
156-60-5	trans-1,2-Dichloroethene	ND		0.20	0.089
10061-02-6	trans-1,3-Dichloropropene	ND		0.20	0.092
79-01-6	Trichloroethene	ND		0.20	0.066
75-69-4	Trichlorofluoromethane	ND	*	0.50	0.11
75-01-4	Vinyl chloride	ND	*	0.020	0.013

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-10-W-190917 Lab Sample ID: 580-89287-7  
 Matrix: Water Lab File ID: 09271918.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 12:00  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 23:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		80-120
460-00-4	4-Bromofluorobenzene (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-7-W-190917 Lab Sample ID: 580-89287-8  
 Matrix: Water Lab File ID: 09271925.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 12:45  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 02:19  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.30	0.027
71-55-6	1,1,1-Trichloroethane	ND		0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.20	0.056
79-00-5	1,1,2-Trichloroethane	ND		0.20	0.070
75-34-3	1,1-Dichloroethane	ND		0.20	0.025
75-35-4	1,1-Dichloroethene	ND		0.20	0.10
563-58-6	1,1-Dichloropropene	ND		0.20	0.036
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.20	0.050
120-82-1	1,2,4-Trichlorobenzene	ND		0.30	0.072
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.44
106-93-4	1,2-Dibromoethane	ND		0.10	0.025
95-50-1	1,2-Dichlorobenzene	ND		0.30	0.050
107-06-2	1,2-Dichloroethane	1.3		0.20	0.043
78-87-5	1,2-Dichloropropane	1.4		0.20	0.060
108-67-8	1,3,5-Trimethylbenzene	19		0.50	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.30	0.050
142-28-9	1,3-Dichloropropane	0.40		0.20	0.056
106-46-7	1,4-Dichlorobenzene	ND		0.30	0.050
594-20-7	2,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone	ND		10	2.5
95-49-8	2-Chlorotoluene	ND		0.50	0.12
106-43-4	4-Chlorotoluene	ND		0.30	0.050
99-87-6	4-Isopropyltoluene	4.8		0.30	0.050
108-10-1	4-Methyl-2-pentanone	2.2	J	5.0	1.7
108-86-1	Bromobenzene	ND		0.20	0.035
74-97-5	Bromochloromethane	ND		0.20	0.025
75-27-4	Bromodichloromethane	ND		0.20	0.060
75-25-2	Bromoform	ND		0.50	0.16
74-83-9	Bromomethane	ND		0.50	0.16
75-15-0	Carbon disulfide	ND		0.30	0.083
56-23-5	Carbon tetrachloride	ND		0.20	0.025
108-90-7	Chlorobenzene	ND		0.20	0.025
75-00-3	Chloroethane	ND		0.50	0.096
67-66-3	Chloroform	ND		0.20	0.030
74-87-3	Chloromethane	ND	*	0.50	0.15

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-7-W-190917 Lab Sample ID: 580-89287-8  
 Matrix: Water Lab File ID: 09271925.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 12:45  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 02:19  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	ND		0.20	0.055
10061-01-5	cis-1,3-Dichloropropene	ND		0.20	0.090
124-48-1	Dibromochloromethane	ND		0.20	0.055
74-95-3	Dibromomethane	ND		0.20	0.062
75-71-8	Dichlorodifluoromethane	ND		0.40	0.13
87-68-3	Hexachlorobutadiene	ND		0.50	0.15
98-82-8	Isopropylbenzene	6.9		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		0.30	0.070
75-09-2	Methylene Chloride	ND		5.0	0.74
91-20-3	Naphthalene	79		1.0	0.22
104-51-8	n-Butylbenzene	30	B	0.50	0.080
103-65-1	N-Propylbenzene	5.7		0.30	0.091
95-47-6	o-Xylene	17		0.50	0.15
135-98-8	sec-Butylbenzene	ND		1.0	0.17
100-42-5	Styrene	0.25	J	0.50	0.19
98-06-6	t-Butylbenzene	1.6	B	0.50	0.10
127-18-4	Tetrachloroethene	ND		0.50	0.084
108-88-3	Toluene	18		0.20	0.050
156-60-5	trans-1,2-Dichloroethene	ND		0.20	0.089
10061-02-6	trans-1,3-Dichloropropene	ND		0.20	0.092
79-01-6	Trichloroethene	ND		0.20	0.066
75-69-4	Trichlorofluoromethane	ND	*	0.50	0.11
75-01-4	Vinyl chloride	ND	*	0.020	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	94		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	108		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-7-W-190917 DL Lab Sample ID: 580-89287-8 DL  
 Matrix: Water Lab File ID: 09281911.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 12:45  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 20:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 100  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312662 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-63-6	1,2,4-Trimethylbenzene	880		30	7.2
67-64-1	Acetone	ND		600	310
71-43-2	Benzene	190		20	3.0
100-41-4	Ethylbenzene	360	B	20	3.0
179601-23-1	m-Xylene & p-Xylene	810	B	50	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		80-120
460-00-4	4-Bromofluorobenzene (Surr)	106		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-5-W-190917 Lab Sample ID: 580-89287-9  
 Matrix: Water Lab File ID: 09271920.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 13:20  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 00:06  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	6.6		0.20	0.030
108-88-3	Toluene	0.59		0.20	0.050
100-41-4	Ethylbenzene	0.57	B	0.20	0.030
179601-23-1	m-Xylene & p-Xylene	22		0.50	0.12
95-47-6	o-Xylene	0.81		0.50	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	85		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		80-120
460-00-4	4-Bromofluorobenzene (Surr)	111		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-6-W-190917 Lab Sample ID: 580-89287-10  
 Matrix: Water Lab File ID: 09271919.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 14:20  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 23:40  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.30	0.027
71-55-6	1,1,1-Trichloroethane	ND		0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.20	0.056
79-00-5	1,1,2-Trichloroethane	ND		0.20	0.070
75-34-3	1,1-Dichloroethane	ND		0.20	0.025
75-35-4	1,1-Dichloroethene	ND		0.20	0.10
563-58-6	1,1-Dichloropropene	ND		0.20	0.036
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.20	0.050
120-82-1	1,2,4-Trichlorobenzene	ND		0.30	0.072
95-63-6	1,2,4-Trimethylbenzene	0.11	J	0.30	0.072
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.44
106-93-4	1,2-Dibromoethane	ND		0.10	0.025
95-50-1	1,2-Dichlorobenzene	ND		0.30	0.050
107-06-2	1,2-Dichloroethane	ND		0.20	0.043
78-87-5	1,2-Dichloropropane	ND		0.20	0.060
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.30	0.050
142-28-9	1,3-Dichloropropane	ND		0.20	0.056
106-46-7	1,4-Dichlorobenzene	ND		0.30	0.050
594-20-7	2,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone	ND		10	2.5
95-49-8	2-Chlorotoluene	ND		0.50	0.12
106-43-4	4-Chlorotoluene	ND		0.30	0.050
99-87-6	4-Isopropyltoluene	ND		0.30	0.050
108-10-1	4-Methyl-2-pentanone	ND		5.0	1.7
71-43-2	Benzene	0.059	J	0.20	0.030
108-86-1	Bromobenzene	ND		0.20	0.035
74-97-5	Bromochloromethane	ND		0.20	0.025
75-27-4	Bromodichloromethane	ND		0.20	0.060
75-25-2	Bromoform	ND		0.50	0.16
74-83-9	Bromomethane	ND		0.50	0.16
75-15-0	Carbon disulfide	ND		0.30	0.083
56-23-5	Carbon tetrachloride	ND		0.20	0.025
108-90-7	Chlorobenzene	ND		0.20	0.025
75-00-3	Chloroethane	ND		0.50	0.096

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-6-W-190917 Lab Sample ID: 580-89287-10  
 Matrix: Water Lab File ID: 09271919.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 14:20  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 23:40  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	ND		0.20	0.030
74-87-3	Chloromethane	ND	*	0.50	0.15
156-59-2	cis-1,2-Dichloroethene	ND		0.20	0.055
10061-01-5	cis-1,3-Dichloropropene	ND		0.20	0.090
124-48-1	Dibromochloromethane	ND		0.20	0.055
74-95-3	Dibromomethane	ND		0.20	0.062
75-71-8	Dichlorodifluoromethane	ND		0.40	0.13
100-41-4	Ethylbenzene	0.077	J B	0.20	0.030
87-68-3	Hexachlorobutadiene	ND		0.50	0.15
98-82-8	Isopropylbenzene	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	0.50	B	0.30	0.070
75-09-2	Methylene Chloride	ND		5.0	0.74
179601-23-1	m-Xylene & p-Xylene	0.16	J	0.50	0.12
91-20-3	Naphthalene	ND		1.0	0.22
104-51-8	n-Butylbenzene	0.12	J B	0.50	0.080
103-65-1	N-Propylbenzene	0.096	J	0.30	0.091
95-47-6	o-Xylene	ND		0.50	0.15
135-98-8	sec-Butylbenzene	ND		1.0	0.17
100-42-5	Styrene	0.22	J	0.50	0.19
98-06-6	t-Butylbenzene	0.13	J B	0.50	0.10
127-18-4	Tetrachloroethene	ND		0.50	0.084
108-88-3	Toluene	0.056	J	0.20	0.050
156-60-5	trans-1,2-Dichloroethene	ND		0.20	0.089
10061-02-6	trans-1,3-Dichloropropene	ND		0.20	0.092
79-01-6	Trichloroethene	ND		0.20	0.066
75-69-4	Trichlorofluoromethane	ND	*	0.50	0.11
75-01-4	Vinyl chloride	ND	*	0.020	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	88		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		80-120
460-00-4	4-Bromofluorobenzene (Surr)	107		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-6-W-190917 RA Lab Sample ID: 580-89287-10 RA  
 Matrix: Water Lab File ID: 09281909.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 14:20  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 19:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312662 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	3.7	J	6.0	3.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	91		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	121	X	80-120
460-00-4	4-Bromofluorobenzene (Surr)	111		80-120
1868-53-7	Dibromofluoromethane (Surr)	114		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-1-W-190917 Lab Sample ID: 580-89287-11  
 Matrix: Water Lab File ID: 09271921.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 15:00  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 00:33  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	5.2		0.20	0.030
108-88-3	Toluene	0.68		0.20	0.050
100-41-4	Ethylbenzene	0.15	J B	0.20	0.030
179601-23-1	m-Xylene & p-Xylene	15		0.50	0.12
95-47-6	o-Xylene	1.0		0.50	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	85		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		80-120
460-00-4	4-Bromofluorobenzene (Surr)	110		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-2-W-190917 Lab Sample ID: 580-89287-12  
 Matrix: Water Lab File ID: 09271922.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 15:30  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 00:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.30	0.027
71-55-6	1,1,1-Trichloroethane	ND		0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.20	0.056
79-00-5	1,1,2-Trichloroethane	ND		0.20	0.070
75-34-3	1,1-Dichloroethane	ND		0.20	0.025
75-35-4	1,1-Dichloroethene	ND		0.20	0.10
563-58-6	1,1-Dichloropropene	ND		0.20	0.036
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.20	0.050
120-82-1	1,2,4-Trichlorobenzene	ND		0.30	0.072
95-63-6	1,2,4-Trimethylbenzene	ND		0.30	0.072
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.44
106-93-4	1,2-Dibromoethane	ND		0.10	0.025
95-50-1	1,2-Dichlorobenzene	ND		0.30	0.050
107-06-2	1,2-Dichloroethane	0.58		0.20	0.043
78-87-5	1,2-Dichloropropane	ND		0.20	0.060
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.30	0.050
142-28-9	1,3-Dichloropropane	ND		0.20	0.056
106-46-7	1,4-Dichlorobenzene	ND		0.30	0.050
594-20-7	2,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone	ND		10	2.5
95-49-8	2-Chlorotoluene	ND		0.50	0.12
106-43-4	4-Chlorotoluene	ND		0.30	0.050
99-87-6	4-Isopropyltoluene	ND		0.30	0.050
108-10-1	4-Methyl-2-pentanone	ND		5.0	1.7
67-64-1	Acetone	ND		6.0	3.1
71-43-2	Benzene	ND		0.20	0.030
108-86-1	Bromobenzene	ND		0.20	0.035
74-97-5	Bromochloromethane	ND		0.20	0.025
75-27-4	Bromodichloromethane	ND		0.20	0.060
75-25-2	Bromoform	ND		0.50	0.16
74-83-9	Bromomethane	ND		0.50	0.16
75-15-0	Carbon disulfide	ND		0.30	0.083
56-23-5	Carbon tetrachloride	ND		0.20	0.025
108-90-7	Chlorobenzene	ND		0.20	0.025

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-2-W-190917 Lab Sample ID: 580-89287-12  
 Matrix: Water Lab File ID: 09271922.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 15:30  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 00:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	ND		0.50	0.096
67-66-3	Chloroform	ND		0.20	0.030
74-87-3	Chloromethane	ND	*	0.50	0.15
156-59-2	cis-1,2-Dichloroethene	ND		0.20	0.055
10061-01-5	cis-1,3-Dichloropropene	ND		0.20	0.090
124-48-1	Dibromochloromethane	ND		0.20	0.055
74-95-3	Dibromomethane	ND		0.20	0.062
75-71-8	Dichlorodifluoromethane	0.52		0.40	0.13
100-41-4	Ethylbenzene	0.061	J B	0.20	0.030
87-68-3	Hexachlorobutadiene	ND		0.50	0.15
98-82-8	Isopropylbenzene	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		0.30	0.070
75-09-2	Methylene Chloride	ND		5.0	0.74
179601-23-1	m-Xylene & p-Xylene	0.16	J	0.50	0.12
91-20-3	Naphthalene	ND		1.0	0.22
104-51-8	n-Butylbenzene	ND		0.50	0.080
103-65-1	N-Propylbenzene	ND		0.30	0.091
95-47-6	o-Xylene	ND		0.50	0.15
135-98-8	sec-Butylbenzene	ND		1.0	0.17
100-42-5	Styrene	ND		0.50	0.19
98-06-6	t-Butylbenzene	0.14	J B	0.50	0.10
127-18-4	Tetrachloroethene	ND		0.50	0.084
108-88-3	Toluene	ND		0.20	0.050
156-60-5	trans-1,2-Dichloroethene	ND		0.20	0.089
10061-02-6	trans-1,3-Dichloropropene	ND		0.20	0.092
79-01-6	Trichloroethene	ND		0.20	0.066
75-69-4	Trichlorofluoromethane	ND	*	0.50	0.11
75-01-4	Vinyl chloride	ND	*	0.020	0.013



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-2-W-190917 Lab Sample ID: 580-89287-12  
 Matrix: Water Lab File ID: 09271922.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 15:30  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 00:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		80-120
460-00-4	4-Bromofluorobenzene (Surr)	110		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3-W-190917 Lab Sample ID: 580-89287-13  
 Matrix: Water Lab File ID: 09271923.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 16:00  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 01:26  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.30	0.027
71-55-6	1,1,1-Trichloroethane	ND		0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.20	0.056
79-00-5	1,1,2-Trichloroethane	ND		0.20	0.070
75-34-3	1,1-Dichloroethane	ND		0.20	0.025
75-35-4	1,1-Dichloroethene	ND		0.20	0.10
563-58-6	1,1-Dichloropropene	ND		0.20	0.036
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.20	0.050
120-82-1	1,2,4-Trichlorobenzene	ND		0.30	0.072
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.44
106-93-4	1,2-Dibromoethane	ND		0.10	0.025
95-50-1	1,2-Dichlorobenzene	ND		0.30	0.050
107-06-2	1,2-Dichloroethane	1.1		0.20	0.043
78-87-5	1,2-Dichloropropane	ND		0.20	0.060
541-73-1	1,3-Dichlorobenzene	ND		0.30	0.050
142-28-9	1,3-Dichloropropane	0.19	J	0.20	0.056
106-46-7	1,4-Dichlorobenzene	ND		0.30	0.050
594-20-7	2,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone	ND		10	2.5
95-49-8	2-Chlorotoluene	ND		0.50	0.12
106-43-4	4-Chlorotoluene	ND		0.30	0.050
99-87-6	4-Isopropyltoluene	2.6		0.30	0.050
108-10-1	4-Methyl-2-pentanone	ND		5.0	1.7
108-86-1	Bromobenzene	ND		0.20	0.035
74-97-5	Bromochloromethane	ND		0.20	0.025
75-27-4	Bromodichloromethane	ND		0.20	0.060
75-25-2	Bromoform	ND		0.50	0.16
74-83-9	Bromomethane	ND		0.50	0.16
75-15-0	Carbon disulfide	0.18	J	0.30	0.083
56-23-5	Carbon tetrachloride	ND		0.20	0.025
108-90-7	Chlorobenzene	ND		0.20	0.025
75-00-3	Chloroethane	ND		0.50	0.096
67-66-3	Chloroform	ND		0.20	0.030
74-87-3	Chloromethane	ND	*	0.50	0.15
156-59-2	cis-1,2-Dichloroethene	ND		0.20	0.055

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3-W-190917 Lab Sample ID: 580-89287-13  
 Matrix: Water Lab File ID: 09271923.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 16:00  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 01:26  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-01-5	cis-1,3-Dichloropropene	ND		0.20	0.090
124-48-1	Dibromochloromethane	ND		0.20	0.055
74-95-3	Dibromomethane	ND		0.20	0.062
75-71-8	Dichlorodifluoromethane	ND		0.40	0.13
87-68-3	Hexachlorobutadiene	ND		0.50	0.15
98-82-8	Isopropylbenzene	23		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		0.30	0.070
75-09-2	Methylene Chloride	ND		5.0	0.74
104-51-8	n-Butylbenzene	40	B	0.50	0.080
95-47-6	o-Xylene	11		0.50	0.15
135-98-8	sec-Butylbenzene	ND		1.0	0.17
100-42-5	Styrene	0.27	J	0.50	0.19
98-06-6	t-Butylbenzene	1.2	B	0.50	0.10
127-18-4	Tetrachloroethene	0.35	J	0.50	0.084
108-88-3	Toluene	8.4		0.20	0.050
156-60-5	trans-1,2-Dichloroethene	ND		0.20	0.089
10061-02-6	trans-1,3-Dichloropropene	ND		0.20	0.092
79-01-6	Trichloroethene	ND		0.20	0.066
75-69-4	Trichlorofluoromethane	13	*	0.50	0.11
75-01-4	Vinyl chloride	ND	*	0.020	0.013

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		80-120
460-00-4	4-Bromofluorobenzene (Surr)	109		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3-W-190917 DL Lab Sample ID: 580-89287-13 DL  
 Matrix: Water Lab File ID: 09281912.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 16:00  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 20:29  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 100  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312662 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-63-6	1,2,4-Trimethylbenzene	490		30	7.2
108-67-8	1,3,5-Trimethylbenzene	98		50	15
67-64-1	Acetone	ND		600	310
71-43-2	Benzene	110		20	3.0
100-41-4	Ethylbenzene	280	B	20	3.0
179601-23-1	m-Xylene & p-Xylene	690	B	50	12
91-20-3	Naphthalene	90	J	100	22
103-65-1	N-Propylbenzene	49		30	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	89		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		80-120
460-00-4	4-Bromofluorobenzene (Surr)	110		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: BD-1-W-190917 Lab Sample ID: 580-89287-14  
 Matrix: Water Lab File ID: 09271924.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 00:00  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 01:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.035	J	0.20	0.030
108-88-3	Toluene	ND		0.20	0.050
100-41-4	Ethylbenzene	0.18	J B	0.20	0.030
179601-23-1	m-Xylene & p-Xylene	0.46	J	0.50	0.12
95-47-6	o-Xylene	ND		0.50	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	106		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: BD-2-W-190917 Lab Sample ID: 580-89287-15  
 Matrix: Water Lab File ID: 09271908.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 00:00  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 18:48  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.20	0.030
108-88-3	Toluene	ND		0.20	0.050
100-41-4	Ethylbenzene	0.056	J B	0.20	0.030
179601-23-1	m-Xylene & p-Xylene	0.13	J	0.50	0.12
95-47-6	o-Xylene	ND		0.50	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: Trip Blank\_190917 Lab Sample ID: 580-89287-16  
 Matrix: Water Lab File ID: 09271909.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 00:00  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 19:14  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.30	0.027
71-55-6	1,1,1-Trichloroethane	ND		0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.20	0.056
79-00-5	1,1,2-Trichloroethane	ND		0.20	0.070
75-34-3	1,1-Dichloroethane	ND		0.20	0.025
75-35-4	1,1-Dichloroethene	ND		0.20	0.10
563-58-6	1,1-Dichloropropene	ND		0.20	0.036
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.20	0.050
120-82-1	1,2,4-Trichlorobenzene	ND		0.30	0.072
95-63-6	1,2,4-Trimethylbenzene	ND		0.30	0.072
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.44
106-93-4	1,2-Dibromoethane	ND		0.10	0.025
95-50-1	1,2-Dichlorobenzene	ND		0.30	0.050
107-06-2	1,2-Dichloroethane	ND		0.20	0.043
78-87-5	1,2-Dichloropropane	ND		0.20	0.060
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.30	0.050
142-28-9	1,3-Dichloropropane	ND		0.20	0.056
106-46-7	1,4-Dichlorobenzene	ND		0.30	0.050
594-20-7	2,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone	ND		10	2.5
95-49-8	2-Chlorotoluene	ND		0.50	0.12
106-43-4	4-Chlorotoluene	ND		0.30	0.050
99-87-6	4-Isopropyltoluene	ND		0.30	0.050
108-10-1	4-Methyl-2-pentanone	ND		5.0	1.7
67-64-1	Acetone	ND		6.0	3.1
71-43-2	Benzene	ND		0.20	0.030
108-86-1	Bromobenzene	ND		0.20	0.035
74-97-5	Bromochloromethane	ND		0.20	0.025
75-27-4	Bromodichloromethane	ND		0.20	0.060
75-25-2	Bromoform	ND		0.50	0.16
74-83-9	Bromomethane	ND		0.50	0.16
75-15-0	Carbon disulfide	ND		0.30	0.083
56-23-5	Carbon tetrachloride	ND		0.20	0.025
108-90-7	Chlorobenzene	ND		0.20	0.025

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: Trip Blank\_190917 Lab Sample ID: 580-89287-16  
 Matrix: Water Lab File ID: 09271909.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 00:00  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 19:14  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	ND		0.50	0.096
67-66-3	Chloroform	ND		0.20	0.030
74-87-3	Chloromethane	ND	*	0.50	0.15
156-59-2	cis-1,2-Dichloroethene	ND		0.20	0.055
10061-01-5	cis-1,3-Dichloropropene	ND		0.20	0.090
124-48-1	Dibromochloromethane	ND		0.20	0.055
74-95-3	Dibromomethane	ND		0.20	0.062
75-71-8	Dichlorodifluoromethane	ND		0.40	0.13
100-41-4	Ethylbenzene	0.059	J B	0.20	0.030
87-68-3	Hexachlorobutadiene	ND		0.50	0.15
98-82-8	Isopropylbenzene	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		0.30	0.070
75-09-2	Methylene Chloride	ND		5.0	0.74
179601-23-1	m-Xylene & p-Xylene	0.13	J	0.50	0.12
91-20-3	Naphthalene	ND		1.0	0.22
104-51-8	n-Butylbenzene	ND		0.50	0.080
103-65-1	N-Propylbenzene	ND		0.30	0.091
95-47-6	o-Xylene	ND		0.50	0.15
135-98-8	sec-Butylbenzene	ND		1.0	0.17
100-42-5	Styrene	ND		0.50	0.19
98-06-6	t-Butylbenzene	ND		0.50	0.10
127-18-4	Tetrachloroethene	ND		0.50	0.084
108-88-3	Toluene	0.056	J	0.20	0.050
156-60-5	trans-1,2-Dichloroethene	ND		0.20	0.089
10061-02-6	trans-1,3-Dichloropropene	ND		0.20	0.092
79-01-6	Trichloroethene	ND		0.20	0.066
75-69-4	Trichlorofluoromethane	ND	*	0.50	0.11
75-01-4	Vinyl chloride	ND	*	0.020	0.013



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: Trip Blank\_190917 Lab Sample ID: 580-89287-16  
 Matrix: Water Lab File ID: 09271909.D  
 Analysis Method: 8260C Date Collected: 09/17/2019 00:00  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 19:14  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	89		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		80-120
460-00-4	4-Bromofluorobenzene (Surr)	107		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 580-311485/3	09171903b.D
Level 2	STD 580-311485/4	09171904b.D
Level 3	STD 580-311485/5	09171905b.D
Level 4	STD 580-311485/6	09171906b.D
Level 5	STD 580-311485/7	09171907b.D
Level 6	STD 580-311485/8	09171908b.D
Level 7	STD 580-311485/9	09171909b.D
Level 8	ICIS 580-311485/10	09171910b.D
Level 9	STD 580-311485/11	09171911b.D
Level 10	STD 580-311485/12	09171912b.D
Level 11	STD 580-311485/13	09171913b.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Dichlorodifluoromethane	+++++ 0.3794 0.3493	+++++ 0.4436	0.2673 0.4012	0.2546 0.3425	0.2598 0.3879	Qua1	-0.021	0.3957	-0.000440		0.1000	15.5		0.9970		0.9900	
Chloromethane	+++++ 0.3485 +++++	+++++ 0.3458	0.3459 0.3143	0.2973 0.2447	0.2628 0.2554	Qua1	0.0056	0.2996	-0.000972		0.1000	15.1		0.9920		0.9900	
Vinyl chloride	0.2874 0.3194 0.2277	0.2732 0.3476	0.2707 0.3129	0.2198 0.2489	0.2443 0.2683	Qua1	-0.001	0.2982	-0.000702		0.1000	15.6		0.9960		0.9900	
Bromomethane	+++++ 0.2809 0.2317	+++++ 0.3051	0.2975 0.2834	0.2225 0.2362	0.2354 0.2646	Ave		0.2619			0.1000	11.9	20.0				
Chloroethane	+++++ 0.0900 0.0694	+++++ 0.0918	0.0598 0.0864	0.0685 0.0707	0.0770 0.0797	Ave		0.0770			0.0600	14.1	20.0				
Acrolein	+++++ 0.0145 0.0194	+++++ 0.0168	+++++ 0.0192	+++++ 0.0218	+++++ 0.0207	Lin1	-0.035	0.0201				7.6		0.9970		0.9900	
Trichlorofluoromethane	+++++ 0.5826 0.5170	+++++ 0.6318	0.5839 0.5926	0.5228 0.4969	0.4798 0.5807	Ave		0.5542			0.1000	9.3	20.0				
Acetone	+++++ 0.0220 0.0216	+++++ 0.0205	+++++ 0.0219	+++++ 0.0292	+++++ 0.0231	Qua1	-0.043	0.0266	-0.000010		0.0200	17.7		0.9930		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
1,1-Dichloroethene	++++ 0.2608 ++++	++++ 0.2953	0.2784 0.2782	0.2211 0.2372	0.2244 0.2710	Lin1	-0.003	0.2652		0.1000	11.8			0.9960		0.9900	
2-Methyl-2-propanol	++++ 0.0076 0.0079	++++ 0.0063	++++ 0.0071	++++ 0.0096	0.0092 0.0079	Qua1	-0.005	0.0083	0		19.4			0.9930		0.9900	
Iodomethane	++++ 0.3858 0.3459	++++ 0.4432	0.3654 0.4201	0.3215 0.3541	0.3452 0.4040	Qua1	-0.013	0.4159	-0.000662		11.5			0.9970		0.9900	
Acrylonitrile	++++ 0.0476 0.0403	++++ 0.0591	++++ 0.0575	0.0302 0.0523	0.0470 0.0543	Qua1	-0.076	0.0612	-0.000020		8.7			0.9970		0.9900	
Methylene Chloride	++++ 0.5257 0.2775	++++ 0.4199	++++ 0.3683	++++ 0.2988	0.6434 0.3297	Qua1	0.1682	0.3459	-0.000680	0.1000	11.4			0.9960		0.9900	
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 0.2032 0.1748	++++ 0.2181	0.2017 0.2015	0.1911 0.1713	0.1795 0.1968	Lin2	0.0007	0.1917		0.1000	8.5			0.9920		0.9900	
Carbon disulfide	++++ 1.0693 0.8622	++++ 1.1683	1.0839 1.0810	0.9793 0.9001	0.9309 0.9990	Qua1	-0.004	1.0555	-0.001878	0.1000	9.3			0.9970		0.9900	
trans-1,2-Dichloroethene	++++ 0.3000 0.2708	++++ 0.3448	0.2871 0.3253	0.2599 0.2764	0.2695 0.3173	Qua2	-0.004	0.3090	-0.000286	0.1000	9.9			0.9910		0.9900	
Methyl tert-butyl ether	++++ 0.4672 0.5365	++++ 0.5978	++++ 0.6033	0.4013 0.5630	0.4508 0.6482	Qua1	-0.085	0.6450	-0.000970	0.1000	15.7			0.9960		0.9900	
1,1-Dichloroethane	++++ 0.6678 0.5036	++++ 0.7266	0.6602 0.6785	0.6045 0.5731	0.6228 0.6192	Qua1	-0.006	0.6766	-0.001686	0.2000	7.9			0.9970		0.9900	
Vinyl acetate	++++ 0.0212 0.0346	++++ 0.0300	++++ 0.0340	++++ 0.0377	0.0243 0.0370	Qua1	-0.029	0.0376	-0.000010		16.7			0.9980		0.9900	
Hexane	++++ 0.4508 0.3329	++++ 0.5301	++++ 0.4901	0.3482 0.4489	0.4080 0.4190	Qua1	-0.033	0.5025	-0.001694		5.4			0.9990		0.9900	
2-Butanone	++++ 0.0115 0.0122	++++ 0.0134	++++ 0.0138	++++ 0.0161	0.0122 0.0140	Ave		0.0133		*	0.0200	11.5	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
cis-1,2-Dichloroethene	++++ 0.3456 0.2731	++++ 0.3771	0.3156 0.3470	0.2933 0.2920	0.3202 0.3235	Qual	-0.004	0.3442	-0.000689	0.1000	8.3			0.9970		0.9900	
Bromochloromethane	++++ 0.1521 0.1300	++++ 0.1598	++++ 0.1517	0.1314 0.1361	0.1528 0.1496	Qual	-0.003	0.1541	-0.000228		5.8			0.9980		0.9900	
Chloroform	++++ 0.6671 0.5032	++++ 0.7020	0.6754 0.6622	0.6158 0.5731	0.6317 0.6168	Qual	-0.004	0.6681	-0.001599	0.2000	6.8			0.9980		0.9900	
Tert-butyl ethyl ether	++++ 0.3350 0.3226	++++ 0.3919	++++ 0.3805	0.2738 0.3426	0.2984 0.3865	Qual	-0.046	0.3957	-0.000543		9.9			0.9970		0.9900	
2,2-Dichloropropane	++++ 0.4289 0.3023	++++ 0.5098	0.4428 0.4684	0.4028 0.3851	0.4126 0.4240	Ave		0.4196			13.7		20.0				
1,2-Dichloroethane	++++ 0.3997 0.3498	++++ 0.3863	0.5561 0.3912	0.4522 0.3998	0.4456 0.3881	Qual	0.0108	0.4086	-0.000571	0.1000	5.5			1.0000		0.9900	
1,1,1-Trichloroethane	++++ 0.5479 0.4934	++++ 0.6020	0.5084 0.5710	0.5085 0.5028	0.4817 0.5717	Qual	-0.015	0.5785	-0.000790	0.1000	9.2			0.9970		0.9900	
1,1-Dichloropropene	++++ 0.4013 0.4103	++++ 0.4727	++++ 0.4856	0.3735 0.4509	0.3809 0.4731	Qual	-0.043	0.4952	-0.000807		10.6			0.9990		0.9900	
Carbon tetrachloride	++++ 0.4494 0.4185	++++ 0.5025	0.4627 0.4759	0.4322 0.4232	0.4167 0.4808	Qual	-0.010	0.4832	-0.000596	0.1000	9.5			0.9970		0.9900	
Benzene	1.7092 1.2388 ++++	1.2819 1.2814	1.3340 1.2656	1.2126 1.1864	1.2527 1.1103	Qual	0.0049	1.2726	-0.003288	0.5000	7.0			1.0000		0.9900	
Tert-amyl methyl ether	++++ 0.5353 ++++	++++ 0.6808	++++ 0.6862	0.3899 0.6346	0.4798 0.7125	Lin1	-0.109	0.6926			10.7			0.9980		0.9900	
Dibromomethane	++++ 0.1146 0.1060	++++ 0.1116	0.1207 0.1136	0.1097 0.1187	0.1188 0.1156	Qual	-0.001	0.1200	-0.000134		6.2			1.0000		0.9900	
1,2-Dichloropropane	++++ 0.2847 0.2291	++++ 0.2994	0.3328 0.2888	0.2958 0.2997	0.3063 0.2719	Qual	-0.001	0.3094	-0.000796	0.1000	6.3			1.0000		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Trichloroethene	++++ 0.2375 0.2101	++++ 0.2365	0.2464 0.2475	0.2348 0.2391	0.2409 0.2348	Qual	-0.003	0.2504	-0.000394		0.2000	4.9		1.0000		0.9900	
Bromodichloromethane	++++ 0.3977 0.3825	++++ 0.3949	0.4461 0.4179	0.4103 0.4384	0.4133 0.4160	Ave		0.4130			0.2000	4.9	20.0				
2-Chloroethyl vinyl ether	++++ 0.0941 0.1320	++++ 0.1153	++++ 0.1155	++++ 0.1499	0.1122 0.1371	Qual	-0.032	0.1392	-0.000062			17.6		0.9970		0.9900	
cis-1,3-Dichloropropene	++++ 0.5044 0.5395	++++ 0.5038	0.5681 0.5583	0.4994 0.6010	0.5263 0.5780	Ave		0.5421			0.2000	6.7	20.0				
4-Methyl-2-pentanone	++++ 0.0570 0.0650	++++ 0.0636	++++ 0.0717	++++ 0.0712	0.0537 0.0765	Qual	-0.095	0.0778	-0.000023		0.0600	12.1		0.9970		0.9900	
trans-1,3-Dichloropropene	++++ 0.3771 0.4493	++++ 0.4228	++++ 0.4351	0.3906 0.5025	0.4096 0.4748	Qual	-0.041	0.4830	-0.000307		0.1000	13.8		0.9990		0.9900	
1,1,2-Trichloroethane	++++ 0.2255 0.2086	++++ 0.2113	0.2781 0.2127	0.2267 0.2229	0.2490 0.2219	Lin1	0.0071	0.2139			0.1000	6.2		0.9990		0.9900	
Toluene	++++ 1.5725 ++++	++++ 1.4695	1.8707 1.5553	1.7625 1.4447	1.6399 1.3952	Qual	0.0428	1.5177	-0.002510		0.4000	3.6		1.0000		0.9900	
1,3-Dichloropropane	++++ 0.4282 0.3853	++++ 0.4298	++++ 0.4142	0.4811 0.4361	0.4909 0.4141	Ave		0.4350				8.1	20.0				
2-Hexanone	++++ 0.0451 0.0547	++++ 0.0555	++++ 0.0581	++++ 0.0618	0.0475 0.0631	Qual	-0.037	0.0591	-0.000003	*	0.0600	8.6		0.9940		0.9900	
Dibromochloromethane	++++ 0.2346 0.2696	++++ 0.2413	0.2657 0.2546	0.2380 0.2629	0.2621 0.2798	Ave		0.2565			0.1000	6.1	20.0				
1,2-Dibromoethane	++++ 0.1830 0.2105	++++ 0.1955	0.2204 0.1941	0.1954 0.2089	0.2091 0.2154	Qual	-0.002	0.2064	0.0000560		0.1000	8.7		0.9990		0.9900	
Tetrachloroethene	++++ 0.2696 0.2540	++++ 0.2523	0.3078 0.2723	0.2785 0.2627	0.2526 0.2771	Qual	-0.001	0.2759	-0.000196		0.2000	8.2		0.9990		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
1,1,1,2-Tetrachloroethane	++++ 0.3261 0.3266	++++ 0.3087	0.3203 0.3481	0.3114 0.3093	0.3117 0.3683	Ave		0.3256			6.2		20.0				
Chlorobenzene	++++ 0.9393 0.7731	++++ 0.9331	1.1114 0.9256	1.0298 0.8808	0.9930 0.8943	Qua1	0.0133	0.9509	-0.001721	0.5000	3.0		0.9990			0.9900	
Ethylbenzene	++++ 1.5888 ++++	++++ 1.7955	++++ 1.8580	1.4758 1.6794	1.5579 1.6923	Qua1	-0.085	1.7909	-0.002067	0.1000	5.9		0.9990			0.9900	
m-Xylene & p-Xylene	++++ 1.1674 ++++	++++ 1.4005	++++ 1.4617	++++ 1.3408	1.1341 1.4177	Qua1	-0.146	1.3972	0.0003560	0.1000	5.5		0.9990			0.9900	
Bromoform	++++ 0.1248 0.1638	++++ 0.1309	0.1348 0.1376	0.1176 0.1410	0.1288 0.1679	Qua1	-0.006	0.1455	0.0002086	0.1000	14.6		0.9970			0.9900	
Styrene	++++ 0.6117 ++++	++++ 0.8399	++++ 0.8963	++++ 0.8743	0.5766 0.9361	Qua1	-0.181	0.8716	0.0013368	0.3000	7.2		1.0000			0.9900	
o-Xylene	++++ 1.3782 ++++	++++ 1.5401	++++ 1.6230	++++ 1.3815	1.2083 1.4655	Qua1	-0.115	1.5139	-0.001139	0.3000	7.5		0.9970			0.9900	
1,1,2,2-Tetrachloroethane	++++ 0.5842 0.5099	++++ 0.5959	0.6286 0.5597	0.5558 0.5555	0.6204 0.5498	Qua1	0.0047	0.5775	-0.000668	0.3000	4.4		1.0000			0.9900	
trans-1,4-Dichloro-2-butene	++++ 0.1073 0.1777	++++ 0.1304	++++ 0.1359	0.1096 0.1596	0.1327 0.1685	Qua1	-0.015	0.1484	0.0003075		15.3		0.9990			0.9900	
1,2,3-Trichloropropane	++++ 0.1477 0.1667	++++ 0.1513	0.1607 0.1476	0.1461 0.1543	0.1528 0.1630	Qua1	0	0.1522	0.0001522		4.2		1.0000			0.9900	
Isopropylbenzene	++++ 1.4068 ++++	++++ 1.6776	++++ 1.8323	++++ 1.5711	1.2201 1.6724	Qua1	-0.234	1.7060	-0.000792	0.1000	7.0		0.9980			0.9900	
Bromobenzene	++++ 0.6499 0.7204	++++ 0.7226	++++ 0.6998	0.6772 0.7315	0.7129 0.7302	Lin2	-0.008	0.7143			3.7		0.9990			0.9900	
N-Propylbenzene	++++ 4.0199 ++++	++++ 4.8686	++++ 4.7813	3.7355 4.4884	3.8600 3.8448	Qua1	-0.399	4.9864	-0.022690		9.9		1.0000			0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
2-Chlorotoluene	++++ 0.6785 0.7269	++++ 0.7913	0.6681 0.7901	0.6558 0.7614	0.6597 0.7734	Lin1	-0.012	0.7482			6.3			0.9990		0.9900	
4-Chlorotoluene	++++ 0.6815 0.7263	++++ 0.7940	0.6572 0.7605	0.6578 0.7760	0.6729 0.7667	Lin1	-0.012	0.7462			5.4			0.9990		0.9900	
1,3,5-Trimethylbenzene	++++ 2.7105 ++++	++++ 3.2225	++++ 3.2407	2.3471 3.0545	2.5666 2.8971	Qual	-0.257	3.2594	-0.007225		7.9			1.0000		0.9900	
t-Butylbenzene	++++ 1.7972 1.9613	++++ 2.1761	++++ 2.4265	1.8384 2.4806	1.8519 2.4061	Qual	-0.338	2.6176	-0.006273		18.9			0.9980		0.9900	
1,2,4-Trimethylbenzene	++++ 2.7691 ++++	++++ 3.3754	++++ 3.3484	2.4239 3.1370	2.5807 2.9751	Lin1	-0.115	3.0820			8.1			0.9970		0.9900	
sec-Butylbenzene	++++ 3.5591 ++++	++++ 4.1091	++++ 4.1434	3.1937 3.8543	3.3902 3.5292	Qual	-0.290	4.1946	-0.013289		7.4			1.0000		0.9900	
1,3-Dichlorobenzene	++++ 1.4694 1.2656	++++ 1.5167	1.5790 1.4861	1.4857 1.4400	1.4928 1.4407	Ave		1.4640		0.6000	5.8	20.0					
4-Isopropyltoluene	++++ 3.0432 ++++	++++ 3.3074	3.3726 3.3098	3.0490 2.9974	3.0539 2.7401	Qual	-0.032	3.3084	-0.011502		7.1			0.9990		0.9900	
1,4-Dichlorobenzene	++++ 1.5045 1.1624	++++ 1.4899	1.8739 1.4578	1.5797 1.4057	1.5741 1.3217	Ave		1.4855		0.5000	13.2	20.0					
1,2-Dichlorobenzene	++++ 1.3432 1.2179	++++ 1.4095	1.5158 1.4259	1.3556 1.3400	1.3756 1.3791	Qual	0.0089	1.3825	-0.001306	0.4000	4.3			0.9980		0.9900	
n-Butylbenzene	++++ 0.6619 0.5821	++++ 0.7688	++++ 0.7841	0.5974 0.7175	0.6002 0.6963	Qual	-0.062	0.7880	-0.002033		8.7			1.0000		0.9900	
1,2-Dibromo-3-Chloropropane	++++ 0.0827 0.0976	++++ 0.0783	++++ 0.0834	++++ 0.0781	0.0810 0.0919	Qual	0.0002	0.0797	0.0001846	0.0500	4.2			0.9990		0.9900	
1,3,5-Trichlorobenzene	++++ 1.2303 0.9114	++++ 1.2906	1.4198 1.3657	1.2237 1.1017	1.1951 1.0199	Qual	0.0203	1.2202	-0.003195		8.4			0.9970		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
1,2,4-Trichlorobenzene	++++ 0.9298 0.7537	++++ 0.9967	++++ 1.0854	0.8471 0.8412	0.9310 0.7784	Qual	0.0170	0.9192	-0.001783		0.2000	13.4		0.9950		0.9900	
Naphthalene	++++ 1.3758 1.2343	++++ 1.5265	1.5142 1.6692	1.1798 1.2699	1.3506 1.2869	Qual	-0.003	1.4260	-0.002027			12.1		0.9960		0.9900	
Hexachlorobutadiene	++++ 0.6091 ++++	++++ 0.6477	++++ 0.6706	0.6418 0.5124	0.6163 0.4154	Qual	-0.007	0.6564	-0.004908			8.6		0.9950		0.9900	
1,2,3-Trichlorobenzene	++++ 0.8000 ++++	++++ 0.8178	++++ 0.8837	++++ 0.6295	0.8063 0.5851	Qual	0.0226	0.8079	-0.004643			13.4		0.9900		0.9900	
Dibromofluoromethane (Surr)	0.2840 0.2827 0.2672	0.2686 0.2979	0.2729 0.2831	0.2659 0.2578	0.2683 0.2808	Ave		0.2754				4.1	20.0				
1,2-Dichloroethane-d4 (Surr)	0.3349 0.3240 0.3090	0.3264 0.3184	0.3364 0.3165	0.3259 0.3238	0.3377 0.3168	Ave		0.3245				2.8	20.0				
Trifluorotoluene (Surr)	1.1693 1.1501 1.2542	1.2645 1.1145	1.2064 1.1517	1.2178 1.1723	1.1750 1.1726	Ave		1.1862				3.8	20.0				
Toluene-d8 (Surr)	1.3103 1.3075 1.3247	1.3808 1.1901	1.3637 1.2739	1.3567 1.2434	1.3047 1.3031	Ave		1.3053				4.2	20.0				
4-Bromofluorobenzene (Surr)	0.3722 0.3779 0.3969	0.3648 0.3685	0.3841 0.3681	0.3745 0.3530	0.3722 0.3971	Ave		0.3754				3.5	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.



FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 580-311485/3	09171903b.D
Level 2	STD 580-311485/4	09171904b.D
Level 3	STD 580-311485/5	09171905b.D
Level 4	STD 580-311485/6	09171906b.D
Level 5	STD 580-311485/7	09171907b.D
Level 6	STD 580-311485/8	09171908b.D
Level 7	STD 580-311485/9	09171909b.D
Level 8	ICIS 580-311485/10	09171910b.D
Level 9	STD 580-311485/11	09171911b.D
Level 10	STD 580-311485/12	09171912b.D
Level 11	STD 580-311485/13	09171913b.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
Dichlorodifluoromethane	FB	Qual	++++ 80986 9256563	++++ 433154	5999 862790	12023 1788431	29271 4712640	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Chloromethane	FB	Qual	++++ 74386 ++++	++++ 337674	7764 675839	14037 1277678	29608 3102150	++++ 1.00 ++++	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Vinyl chloride	FB	Qual	1186 68188 6034702	3254 339399	6076 672911	10380 1299663	27523 3259612	0.0200 1.00 100	0.0500 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Bromomethane	FB	Ave	++++ 59961 6139934	++++ 297947	6677 609444	10506 1233414	26529 3213979	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Chloroethane	FB	Ave	++++ 19217 1839362	++++ 89654	1343 185884	3233 369226	8679 968104	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Acrolein	FB	Lin1	++++ 18537 3079255	++++ 98658	++++ 247977	++++ 682825	++++ 1505520	++++ 6.00 600	++++ 30.0	++++ 60.0	++++ 120	++++ 300
Trichlorofluoromethane	FB	Ave	++++ 124381 13698359	++++ 616977	13104 1274390	24687 2594182	54061 7054212	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Acetone	FB	Qual	++++ 23505 2866897	++++ 100169	++++ 235523	++++ 763435	++++ 1405517	++++ 5.00 500	++++ 25.0	++++ 50.0	++++ 100	++++ 250

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
1,1-Dichloroethene	FB	Lin1	++++ 55669 ++++	++++ 288378	6249 598350	10438 1238340	25291 3291977	++++ 1.00 ++++	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
2-Methyl-2-propanol	FB	Qual	++++ 16169 2091616	++++ 61531	++++ 153174	++++ 500191	10314 954218	++++ 10.0 1000	++++ 50.0	++++ 100	++++ 200	5.00 500
Iodomethane	FB	Qual	++++ 82367 9166274	++++ 432809	8201 903429	15179 1848875	38898 4907652	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Acrylonitrile	FB	Qual	++++ 101569 10681738	++++ 577244	++++ 1237485	14264 2731239	53007 6592752	++++ 10.0 1000	++++ 50.0	++++ 100	2.00 200	5.00 500
Methylene Chloride	FB	Qual	++++ 112218 7351749	++++ 409991	++++ 792038	++++ 1559796	72504 4005068	++++ 1.00 100	++++ 5.00	++++ 10.0	++++ 20.0	0.500 50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Lin2	++++ 43369 4632758	++++ 212989	4526 433311	9022 894192	20230 2390315	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Carbon disulfide	FB	Qual	++++ 228271 22846728	++++ 1140790	24327 2324591	46242 4699273	104896 12136593	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
trans-1,2-Dichloroethene	FB	Qua2	++++ 64042 7176467	++++ 336725	6443 699567	12270 1442972	30371 3854399	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Methyl tert-butyl ether	FB	Qual	++++ 99746 14215893	++++ 583717	++++ 1297316	18948 2939616	50803 7874459	++++ 1.00 100	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0
1,1-Dichloroethane	FB	Qual	++++ 142559 13343543	++++ 709459	14816 1459047	28545 2991885	70179 7522355	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Vinyl acetate	FB	Qual	++++ 11330 2294577	++++ 73278	++++ 182716	++++ 492643	6833 1124623	++++ 2.50 250	++++ 12.5	++++ 25.0	++++ 50.0	1.25 125
Hexane	FB	Qual	++++ 96228 8820391	++++ 517636	++++ 1054016	16443 2343642	45974 5090106	++++ 1.00 100	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0
2-Butanone	FB	Ave	++++ 12305 1613569	++++ 65320	++++ 147901	++++ 419295	6849 847621	++++ 5.00 500	++++ 25.0	++++ 50.0	++++ 100	2.50 250

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
cis-1,2-Dichloroethene	FB	Qual	++++ 73768 7235904	++++ 368196	7083 746284	13850 1524602	36082 3930486	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Bromochloromethane	FB	Qual	++++ 32463 3445519	++++ 155997	++++ 326135	6205 710710	17214 1817120	++++ 1.00 100	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0
Chloroform	FB	Qual	++++ 142401 13334192	++++ 685485	15157 1424001	29077 2992262	71187 7493596	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Tert-butyl ethyl ether	FB	Qual	++++ 89382 10686488	++++ 478342	++++ 1022819	16160 2235685	42031 5868549	++++ 1.25 125	++++ 6.25	++++ 12.5	0.250 25.0	0.625 62.5
2,2-Dichloropropane	FB	Ave	++++ 91570 8008848	++++ 497840	9937 1007271	19021 2010809	46492 5150441	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
1,2-Dichloroethane	FB	Qual	++++ 85326 9267790	++++ 377185	12481 841240	21352 2087342	50209 4714274	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
1,1,1-Trichloroethane	FB	Qual	++++ 116965 13073642	++++ 587839	11410 1227818	24011 2624973	54274 6945841	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
1,1-Dichloropropene	FB	Qual	++++ 85673 10871769	++++ 461600	++++ 1044277	17638 2354237	42921 5747997	++++ 1.00 100	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0
Carbon tetrachloride	FB	Qual	++++ 95926 11088874	++++ 490634	10384 1023438	20406 2209551	46953 5841473	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Benzene	FB	Qual	7054 264446 ++++	15271 1251274	29940 2721588	57254 6193911	141156 13488628	0.0200 1.00 ++++	0.0500 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Tert-amyl methyl ether	FB	Lin1	++++ 142831 ++++	++++ 831033	++++ 1844527	23012 4141279	67580 10820402	++++ 1.25 ++++	++++ 6.25	++++ 12.5	0.250 25.0	0.625 62.5
Dibromomethane	FB	Qual	++++ 24466 2808250	++++ 108941	2710 244251	5181 619524	13392 1403934	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
1,2-Dichloropropane	FB	Qual	++++ 60774 6069482	++++ 292308	7468 620979	13966 1564812	34517 3303176	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Trichloroethene	FB	Qual	++++ 50700 5566698	++++ 230889	5529 532209	11086 1248555	27145 2852092	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Bromodichloromethane	FB	Ave	++++ 84902 10136517	++++ 385581	10011 898743	19375 2288839	46568 5054328	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
2-Chloroethyl vinyl ether	CBNZ d5	Qual	++++ 13666 2456863	++++ 93466	++++ 177632	++++ 618189	9238 1171713	++++ 1.00 100	++++ 5.00	++++ 10.0	++++ 20.0	0.500 50.0
cis-1,3-Dichloropropene	CBNZ d5	Ave	++++ 73255 10038323	++++ 408574	8906 858299	16534 2478239	43347 4938747	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
4-Methyl-2-pentanone	CBNZ d5	Qual	++++ 41379 6050986	++++ 257964	++++ 550994	++++ 1468845	22117 3266423	++++ 5.00 500	++++ 25.0	++++ 50.0	++++ 100	2.50 250
trans-1,3-Dichloropropene	CBNZ d5	Qual	++++ 54768 8359485	++++ 342843	++++ 668855	12931 2072054	33729 4056675	++++ 1.00 100	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0
1,1,2-Trichloroethane	CBNZ d5	Lin1	++++ 32749 3881942	++++ 171344	4359 326962	7505 918965	20504 1896254	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Toluene	CBNZ d5	Qual	++++ 228374 ++++	++++ 1191741	29327 2390900	58353 5957373	135055 11920841	++++ 1.00 ++++	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
1,3-Dichloropropane	CBNZ d5	Ave	++++ 62189 7168482	++++ 348584	++++ 636778	15927 1798476	40431 3538626	++++ 1.00 100	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0
2-Hexanone	CBNZ d5	Qua2	++++ 32732 5086829	++++ 225086	++++ 446583	++++ 1273708	19551 2695561	++++ 5.00 500	++++ 25.0	++++ 50.0	++++ 100	2.50 250
Dibromochloromethane	CBNZ d5	Ave	++++ 34077 5016083	++++ 195674	4165 391364	7879 1084151	21587 2391118	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
1,2-Dibromoethane	CBNZ d5	Qual	++++ 26582 3916648	++++ 158568	3455 298353	6469 861314	17218 1840558	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Tetrachloroethene	CBNZ d5	Qual	++++ 39149 4725550	++++ 204582	4825 418579	9222 1083458	20806 2367969	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 47364 6076919	++++ 250303	5021 535082	10309 1275573	25673 3147202	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Chlorobenzene	CBNZ d5	Qual	++++ 136418 14385163	++++ 756701	17424 1422857	34093 3632045	81775 7641483	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Ethylbenzene	CBNZ d5	Qual	++++ 230748 ++++	++++ 1456104	++++ 2856298	48861 6925155	128301 14459598	++++ 1.00 ++++	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0
m-Xylene & p-Xylene	CBNZ d5	Qual	++++ 169544 ++++	++++ 1135771	++++ 2247122	++++ 5528735	93398 12113700	++++ 1.00 ++++	++++ 5.00	++++ 10.0	++++ 20.0	0.500 50.0
Bromoform	CBNZ d5	Qual	++++ 18125 3046903	++++ 106188	2113 211478	3893 581440	10607 1434818	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Styrene	CBNZ d5	Qual	++++ 88830 ++++	++++ 681152	++++ 1377865	++++ 3605068	47486 7998351	++++ 1.00 ++++	++++ 5.00	++++ 10.0	++++ 20.0	0.500 50.0
o-Xylene	CBNZ d5	Qual	++++ 200160 ++++	++++ 1248958	++++ 2494948	++++ 5696501	99508 12521552	++++ 1.00 ++++	++++ 5.00	++++ 10.0	++++ 20.0	0.500 50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Qual	++++ 43818 4294930	++++ 227073	4902 428182	8943 1018977	24570 2356677	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Qual	++++ 8052 1496739	++++ 49691	++++ 103945	1764 292851	5255 722119	++++ 1.00 100	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0
1,2,3-Trichloropropane	DCBd 4	Qual	++++ 11076 1404480	++++ 57677	1253 112877	2351 283137	6053 698721	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Isopropylbenzene	CBNZ d5	Qual	++++ 204304 ++++	++++ 1360446	++++ 2816706	++++ 6478417	100484 14289246	++++ 1.00 ++++	++++ 5.00	++++ 10.0	++++ 20.0	0.500 50.0
Bromobenzene	DCBd 4	Lin2	++++ 48750 6068066	++++ 275385	++++ 535332	10896 1341889	28231 3130154	++++ 1.00 100	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0
N-Propylbenzene	DCBd 4	Qual	++++ 301522 ++++	++++ 1855347	++++ 3657666	60107 8233907	152863 16480811	++++ 1.00 ++++	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2-Chlorotoluene	DCBd 4	Lin1	++++ 50893 6123432	++++ 301558	5210 604399	10553 1396834	26124 3314947	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
4-Chlorotoluene	DCBd 4	Lin1	++++ 51119 6118339	++++ 302570	5125 581741	10585 1423530	26648 3286336	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
1,3,5-Trimethylbenzene	DCBd 4	Qual	++++ 203307 ++++	++++ 1228046	++++ 2479149	37766 5603480	101640 12418279	++++ 1.00 ++++	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0
t-Butylbenzene	DCBd 4	Qual	++++ 134805 16520988	++++ 829289	++++ 1856265	29582 4550545	73337 10313857	++++ 1.00 100	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0
1,2,4-Trimethylbenzene	DCBd 4	Lin1	++++ 207703 ++++	++++ 1286312	++++ 2561540	39002 5754752	102201 12752874	++++ 1.00 ++++	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0
sec-Butylbenzene	DCBd 4	Qual	++++ 266961 ++++	++++ 1565920	++++ 3169639	51389 7070598	134257 15127975	++++ 1.00 ++++	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0
1,3-Dichlorobenzene	DCBd 4	Ave	++++ 110218 10660801	++++ 577985	12314 1136823	23906 2641559	59117 6175344	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
4-Isopropyltoluene	DCBd 4	Qual	++++ 228265 ++++	++++ 1260429	26302 2532007	49061 5498619	120940 11745359	++++ 1.00 ++++	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
1,4-Dichlorobenzene	DCBd 4	Ave	++++ 112849 9792096	++++ 567779	14614 1115179	25418 2578792	62338 5665448	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
1,2-Dichlorobenzene	DCBd 4	Qua2	++++ 100748 10259449	++++ 537138	11821 1090791	21813 2458282	54477 5911501	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
n-Butylbenzene	DCBd 4	Qual	++++ 49650 4903818	++++ 292969	++++ 599828	9612 1316270	23770 2984549	++++ 1.00 100	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Qual	++++ 6205 822040	++++ 29839	++++ 63789	++++ 143347	3206 394132	++++ 1.00 100	++++ 5.00	++++ 10.0	++++ 20.0	0.500 50.0
1,3,5-Trichlorobenzene	DCBd 4	Qual	++++ 92284 7677072	++++ 491840	11073 1044746	19691 2021021	47327 4371940	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
1,2,4-Trichlorobenzene	DCBd 4	Qual	++++ 69740 6348739	++++ 379833	++++ 830309	13630 1543086	36869 3336761	++++ 1.00 100	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0
Naphthalene	DCBd 4	Qual	++++ 103197 10397576	++++ 581743	11809 1276927	18984 2329511	53485 5516281	++++ 1.00 100	++++ 5.00	0.100 10.0	0.200 20.0	0.500 50.0
Hexachlorobutadiene	DCBd 4	Qual	++++ 45686 ++++	++++ 246830	++++ 512979	10327 940043	24406 1780700	++++ 1.00 ++++	++++ 5.00	++++ 10.0	0.200 20.0	0.500 50.0
1,2,3-Trichlorobenzene	DCBd 4	Qual	++++ 60004 ++++	++++ 311638	++++ 676029	++++ 1154887	31931 2507865	++++ 1.00 ++++	++++ 5.00	++++ 10.0	++++ 20.0	0.500 50.0
Dibromofluoromethane (Surr)	FB	Ave	571293 588428 690219	623998 567284	597059 593569	612160 656136	589617 665206	9.75 9.75 9.75	9.75 9.75	9.75 9.75	9.75 9.75	9.75 9.75
1,2-Dichloroethane-d4 (Surr)	FB	Ave	673865 674315 798395	758116 606285	736221 663632	750146 824268	742022 750532	9.75 9.75 9.75	9.75 9.75	9.75 9.75	9.75 9.75	9.75 9.75
Trifluorotoluene (Surr)	DCBd 4	Ave	901256 862346 1056110	977041 849118	940431 880706	979394 1074873	930288 1004847	10.00 10.00 10.00	10.00 10.00	10.00 10.00	10.00 10.00	10.00 10.00
Toluene-d8 (Surr)	CBNZ d5	Ave	2011914 1851417 2403187	2155833 1881952	2084363 1909337	2189746 2499494	2095262 2171179	9.75 9.75 9.75	9.75 9.75	9.75 9.75	9.75 9.75	9.75 9.75
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	571525 535089 719976	569634 582740	587028 551761	604370 709662	597682 661708	9.75 9.75 9.75	9.75 9.75	9.75 9.75	9.75 9.75	9.75 9.75

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qual = Quadratic 1/conc ISTD
Qua2 = Quadratic 1/conc^2 ISTD

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 580-311485/3	09171903b.D
Level 2	STD 580-311485/4	09171904b.D
Level 3	STD 580-311485/5	09171905b.D
Level 4	STD 580-311485/6	09171906b.D
Level 5	STD 580-311485/7	09171907b.D
Level 6	STD 580-311485/8	09171908b.D
Level 7	STD 580-311485/9	09171909b.D
Level 8	ICIS 580-311485/10	09171910b.D
Level 9	STD 580-311485/11	09171911b.D
Level 10	STD 580-311485/12	09171912b.D
Level 11	STD 580-311485/13	09171913b.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
Dichlorodifluoromethane	+++++	+++++	21.7						30			
Chloromethane	+++++	+++++	-3.1		+++++				30			
Vinyl chloride	20.9						30					
Bromomethane	+++++	+++++	13.6						50			
Chloroethane	+++++	+++++	-22.3						50			
Acrolein	+++++	+++++	+++++	+++++	+++++	1.1						30
Trichlorofluoromethane	+++++	+++++	5.3						50			
Acetone	+++++	+++++	+++++	+++++	+++++	15.3						30
1,1-Dichloroethene	+++++	+++++	16.3		+++++				30			
2-Methyl-2-propanol	+++++	+++++	+++++	+++++	22.6						30	
Iodomethane	+++++	+++++	18.5						30			
Acrylonitrile	+++++	+++++	+++++	11.6						30		
Methylene Chloride	+++++	+++++	+++++	+++++	-11.2						30	



FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++	+++++	1.6						30			
Carbon disulfide	+++++	+++++	6.6						30			
trans-1,2-Dichloroethene	+++++	+++++	6.4						30			
Methyl tert-butyl ether	+++++	+++++	+++++	28.0						30		
1,1-Dichloroethane	+++++	+++++	7.1						30			
Vinyl acetate	+++++	+++++	+++++	+++++	26.7						30	
Hexane	+++++	+++++	+++++	2.1						30		
2-Butanone	+++++	+++++	+++++	+++++	-8.5						50	
cis-1,2-Dichloroethene	+++++	+++++	4.6						30			
Bromochloromethane	+++++	+++++	+++++	-4.3						30		
Chloroform	+++++	+++++	6.5						30			
Tert-butyl ethyl ether	+++++	+++++	+++++	15.6						30		
2,2-Dichloropropane	+++++	+++++	5.5						50			
1,2-Dichloroethane	+++++	+++++	9.8						30			
1,1,1-Trichloroethane	+++++	+++++	13.4						30			
1,1-Dichloropropene	+++++	+++++	+++++	19.1						30		
Carbon tetrachloride	+++++	+++++	15.6						30			
Benzene	15.1						30					
Tert-amyl methyl ether	+++++	+++++	+++++	19.2		+++++				30		
Dibromomethane	+++++	+++++	12.1						30			
1,2-Dichloropropane	+++++	+++++	12.4						30			

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
Trichloroethene	+++++	+++++	9.8						30			
Bromodichloromethane	+++++	+++++	8.0						50			
2-Chloroethyl vinyl ether	+++++	+++++	+++++	+++++	26.0						30	
cis-1,3-Dichloropropene	+++++	+++++	4.8						50			
4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	18.0						30	
trans-1,3-Dichloropropene	+++++	+++++	+++++	23.5						30		
1,1,2-Trichloroethane	+++++	+++++	-3.4						30			
Toluene	+++++	+++++	-4.9		+++++				30			
1,3-Dichloropropane	+++++	+++++	+++++	10.6						50		
2-Hexanone	+++++	+++++	+++++	+++++	5.7						30	
Dibromochloromethane	+++++	+++++	3.6						50			
1,2-Dibromoethane	+++++	+++++	16.2						30			
Tetrachloroethene	+++++	+++++	15.4						30			
1,1,1,2-Tetrachloroethane	+++++	+++++	-1.6						50			
Chlorobenzene	+++++	+++++	2.9						30			
Ethylbenzene	+++++	+++++	+++++	6.1	+++++					30		
m-Xylene & p-Xylene	+++++	+++++	+++++	+++++	2.0	+++++					30	
Bromoform	+++++	+++++	30.5 *						30			
Styrene	+++++	+++++	+++++	+++++	7.6	+++++					30	
o-Xylene	+++++	+++++	+++++	+++++	-4.9	+++++					30	
1,1,2,2-Tetrachloroethane	+++++	+++++	0.7						30			

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
trans-1,4-Dichloro-2-butene	+++++	+++++	+++++	23.2						30		
1,2,3-Trichloropropane	+++++	+++++	8.4						30			
Isopropylbenzene	+++++	+++++	+++++	+++++	-1.1						30	
Bromobenzene	+++++	+++++	+++++	0.7						30		
N-Propylbenzene	+++++	+++++	+++++	15.0						30		
2-Chlorotoluene	+++++	+++++	5.9		+++++				30			
4-Chlorotoluene	+++++	+++++	4.3						30			
1,3,5-Trimethylbenzene	+++++	+++++	+++++	11.5						30		
t-Butylbenzene	+++++	+++++	+++++	34.9 *						30		
1,2,4-Trimethylbenzene	+++++	+++++	+++++	-2.7						30		
sec-Butylbenzene	+++++	+++++	+++++	10.8						30		
1,3-Dichlorobenzene	+++++	+++++	7.9						50			
4-Isopropyltoluene	+++++	+++++	11.8						30			
1,4-Dichlorobenzene	+++++	+++++	26.1						50			
1,2-Dichlorobenzene	+++++	+++++	3.2						30			
n-Butylbenzene	+++++	+++++	+++++	15.0						30		
1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	0.9						30	
1,3,5-Trichlorobenzene	+++++	+++++	-0.3						30			
1,2,4-Trichlorobenzene	+++++	+++++	+++++	-17.1						30		
Naphthalene	+++++	+++++	8.0						30			
Hexachlorobutadiene	+++++	+++++	+++++	3.0						30		

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311485

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2019 19:00 Calibration End Date: 09/17/2019 23:58 Calibration ID: 28231

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT						
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11		
1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	-5.5 +++++							30	
Dibromofluoromethane (Surr)	3.1						50						
1,2-Dichloroethane-d4 (Surr)	3.2						50						
Trifluorotoluene (Surr)	-1.4						50						
Toluene-d8 (Surr)	0.4						50						
4-Bromofluorobenzene (Surr)	-0.8						50						

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-311485/15 Calibration Date: 09/18/2019 00:50  
 Instrument ID: TAC113 Calib Start Date: 09/17/2019 19:00  
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/17/2019 23:58  
 Lab File ID: 09171915b.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Qual		0.3394	0.1000	8.72	10.0	-12.8	30.0
Chloromethane	Qual		0.2898	0.1000	9.98	10.0	-0.2	30.0
Vinyl chloride	Qual		0.3098	0.1000	10.7	10.0	6.6	30.0
Bromomethane	Ave	0.2619	0.2991	0.1000	11.4	10.0	14.2	30.0
Chloroethane	Ave	0.0770	0.0914	0.0600	11.9	10.0	18.6	30.0
Acrolein	Lin1		0.0185		57.0	60.0	-4.9	30.0
Trichlorofluoromethane	Ave	0.5542	0.6509	0.1000	11.7	10.0	17.4	30.0
Acetone	Qual		0.0203	0.0200	40.4	50.0	-19.1	30.0
1,1-Dichloroethene	Lin1		0.3145	0.1000	11.9	10.0	18.7	30.0
2-Methyl-2-propanol	Qual		0.0066		81.2	100	-18.8	30.0
Acrylonitrile	Qual		0.0574		98.1	100	-1.9	30.0
Iodomethane	Qual		0.4842		11.9	10.0	19.0	30.0
Methylene Chloride	Qual		0.3880	0.1000	11.0	10.0	9.7	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin2		0.2209	0.1000	11.5	10.0	15.2	30.0
Carbon disulfide	Qual		1.157	0.1000	11.2	10.0	11.9	30.0
trans-1,2-Dichloroethene	Qua2		0.3599	0.1000	11.8	10.0	17.9	30.0
Methyl tert-butyl ether	Qual		0.6801	0.1000	10.9	10.0	8.5	30.0
1,1-Dichloroethane	Qual		0.6981	0.2000	10.6	10.0	6.1	30.0
Vinyl acetate	Qual		0.0352		24.3	25.0	-2.7	30.0
Hexane	Qual		0.4719		9.78	10.0	-2.2	30.0
2-Butanone	Ave	0.0133	0.0142*	0.0200	53.4	50.0	6.9	30.0
cis-1,2-Dichloroethene	Qual		0.3791	0.1000	11.3	10.0	12.8	30.0
Bromochloromethane	Qual		0.1628		10.8	10.0	7.6	30.0
Chloroform	Qual		0.6935	0.2000	10.7	10.0	6.6	30.0
Tert-butyl ethyl ether	Qual		0.4175		13.6	12.5	8.5	30.0
2,2-Dichloropropane	Ave	0.4196	0.4811		11.5	10.0	14.6	30.0
1,2-Dichloroethane	Qual		0.3816	0.1000	9.44	10.0	-5.6	30.0
1,1,1-Trichloroethane	Qual		0.6351	0.1000	11.2	10.0	11.7	30.0
1,1-Dichloropropene	Qual		0.4818		9.98	10.0	-0.2	30.0
Carbon tetrachloride	Qual		0.5220	0.1000	11.0	10.0	9.7	30.0
Benzene	Qual		1.266	0.5000	10.2	10.0	2.2	30.0
Tert-amyl methyl ether	Lin1		0.7941		14.5	12.5	15.9	30.0
Dibromomethane	Qual		0.1230		10.4	10.0	3.8	30.0
1,2-Dichloropropane	Qual		0.2921	0.1000	9.69	10.0	-3.1	30.0
Trichloroethene	Qual		0.2437	0.2000	9.90	10.0	-1.0	30.0
Bromodichloromethane	Ave	0.4130	0.4158	0.2000	10.1	10.0	0.7	30.0
2-Chloroethyl vinyl ether	Qual		0.1260		9.31	10.0	-6.9	30.0
cis-1,3-Dichloropropene	Ave	0.5421	0.5158	0.2000	9.51	10.0	-4.9	30.0
4-Methyl-2-pentanone	Qual		0.0672	0.0600	45.0	50.0	-10.0	30.0
trans-1,3-Dichloropropene	Qual		0.4317	0.1000	9.08	10.0	-9.2	30.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-311485/15 Calibration Date: 09/18/2019 00:50  
 Instrument ID: TAC113 Calib Start Date: 09/17/2019 19:00  
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/17/2019 23:58  
 Lab File ID: 09171915b.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,2-Trichloroethane	Lin1		0.2117	0.1000	9.86	10.0	-1.4	30.0
Toluene	Qual		1.422	0.4000	9.49	10.0	-5.1	30.0
1,3-Dichloropropane	Ave	0.4350	0.4160		9.56	10.0	-4.4	30.0
2-Hexanone	Qua2		0.0617	0.0600	53.0	50.0	5.9	30.0
Dibromochloromethane	Ave	0.2565	0.2641	0.1000	10.3	10.0	3.0	30.0
1,2-Dibromoethane	Qual		0.2082	0.1000	10.1	10.0	0.7	30.0
Tetrachloroethene	Qual		0.2564	0.2000	9.36	10.0	-6.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3256	0.3317		10.2	10.0	1.9	30.0
Chlorobenzene	Qual		0.9331	0.5000	9.98	10.0	-0.2	30.0
Ethylbenzene	Qual		1.836	0.1000	10.4	10.0	4.2	30.0
m-Xylene & p-Xylene	Qual		1.450	0.1000	10.5	10.0	4.5	30.0
Bromoform	Qual		0.1608	0.1000	10.9	10.0	9.2	30.0
Styrene	Qual		1.002	0.3000	11.5	10.0	15.0	30.0
o-Xylene	Qual		1.541	0.3000	10.3	10.0	3.4	30.0
1,1,2,2-Tetrachloroethane	Qual		0.5646	0.3000	9.88	10.0	-1.2	30.0
trans-1,4-Dichloro-2-butene	Qual		0.1467		9.79	10.0	-2.1	30.0
1,2,3-Trichloropropane	Qual		0.1572		10.2	10.0	2.2	30.0
Isopropylbenzene	Qual		1.767	0.1000	10.5	10.0	5.5	30.0
Bromobenzene	Lin2		0.7527		10.5	10.0	5.5	30.0
N-Propylbenzene	Qual		4.690		9.94	10.0	-0.6	30.0
2-Chlorotoluene	Lin1		0.7919		10.6	10.0	6.0	30.0
4-Chlorotoluene	Lin1		0.7948		10.7	10.0	6.7	30.0
1,3,5-Trimethylbenzene	Qual		3.177		10.0	10.0	0.5	30.0
t-Butylbenzene	Qual		2.256		8.94	10.0	-10.6	30.0
1,2,4-Trimethylbenzene	Lin1		3.344		10.9	10.0	8.9	30.0
sec-Butylbenzene	Qual		3.968		9.84	10.0	-1.6	30.0
1,3-Dichlorobenzene	Ave	1.464	1.508	0.6000	10.3	10.0	3.0	30.0
4-Isopropyltoluene	Qual		3.193		10.0	10.0	0.1	30.0
1,4-Dichlorobenzene	Ave	1.486	1.473	0.5000	9.92	10.0	-0.8	30.0
1,2-Dichlorobenzene	Qua2		1.396	0.4000	10.2	10.0	1.9	30.0
n-Butylbenzene	Qual		0.7507		9.86	10.0	-1.4	30.0
1,2-Dibromo-3-Chloropropane	Qual		0.0925	0.0500	11.3	10.0	13.1	30.0
1,3,5-Trichlorobenzene	Qual		1.282		10.8	10.0	7.9	30.0
1,2,4-Trichlorobenzene	Qual		1.014	0.2000	11.3	10.0	12.6	30.0
Naphthalene	Qual		1.567		11.2	10.0	11.7	30.0
Hexachlorobutadiene	Qual		0.6233		10.3	10.0	3.0	30.0
1,2,3-Trichlorobenzene	Qual		0.8089		10.6	10.0	6.3	30.0
Dibromofluoromethane (Surr)	Ave	0.2754	0.2984		10.6	9.75	8.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3245	0.3145		9.45	9.75	-3.1	30.0
Trifluorotoluene (Surr)	Ave	1.186	1.097		9.25	10.0	-7.5	30.0
Toluene-d8 (Surr)	Ave	1.305	1.168		8.72	9.75	-10.5	30.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-311485/15 Calibration Date: 09/18/2019 00:50  
 Instrument ID: TAC113 Calib Start Date: 09/17/2019 19:00  
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/17/2019 23:58  
 Lab File ID: 09171915b.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Bromofluorobenzene (Surr)	Ave	0.3754	0.3909		10.2	9.75	4.1	30.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 580-312585/3 Calibration Date: 09/27/2019 16:35  
 Instrument ID: TAC113 Calib Start Date: 09/17/2019 19:00  
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/17/2019 23:58  
 Lab File ID: 09271903.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Qual		0.3876	0.1000	9.96	10.0	-0.4	20.0
Chloromethane	Qual		0.3096	0.1000	10.7	10.0	6.9	20.0
Vinyl chloride	Qual		0.3140	0.1000	10.8	10.0	8.1	20.0
Bromomethane	Ave	0.2619	0.2691	0.1000	10.3	10.0	2.7	20.0
Chloroethane	Ave	0.0770	0.0790	0.0600	10.3	10.0	2.5	20.0
Acrolein	Lin1		0.0232		71.0	60.0	18.3	20.0
Trichlorofluoromethane	Ave	0.5542	0.6286	0.1000	11.3	10.0	13.4	20.0
Acetone	Qual		0.0402	0.0200	79.5	50.0	59.1*	20.0
1,1-Dichloroethene	Lin1		0.2551	0.1000	9.63	10.0	-3.7	20.0
2-Methyl-2-propanol	Qual		0.0115		141	100	40.9*	20.0
Acrylonitrile	Qual		0.0531		90.7	100	-9.3	20.0
Iodomethane	Qual		0.4026		9.87	10.0	-1.3	20.0
Methylene Chloride	Qual		0.3476	0.1000	9.75	10.0	-2.5	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin2		0.1899	0.1000	9.90	10.0	-1.0	20.0
Carbon disulfide	Qual		0.9649	0.1000	9.30	10.0	-7.0	20.0
trans-1,2-Dichloroethene	Qua2		0.2987	0.1000	9.77	10.0	-2.3	20.0
Methyl tert-butyl ether	Qual		0.6508	0.1000	10.4	10.0	3.8	20.0
1,1-Dichloroethane	Qual		0.6360	0.2000	9.64	10.0	-3.6	20.0
Vinyl acetate	Qual		0.0402		27.7	25.0	11.0	20.0
Hexane	Qual		0.4916		10.2	10.0	2.0	20.0
2-Butanone	Ave	0.0133	0.0171*	0.0200	64.4	50.0	28.7*	20.0
cis-1,2-Dichloroethene	Qual		0.3242	0.1000	9.62	10.0	-3.8	20.0
Bromochloromethane	Qual		0.1541		10.2	10.0	1.7	20.0
Chloroform	Qual		0.6755	0.2000	10.4	10.0	3.7	20.0
Tert-butyl ethyl ether	Qual		0.4047		13.1	12.5	5.1	20.0
2,2-Dichloropropane	Ave	0.4196	0.4975		11.9	10.0	18.6	20.0
1,2-Dichloroethane	Qual		0.4835	0.1000	12.0	10.0	20.1*	20.0
1,1,1-Trichloroethane	Qual		0.6108	0.1000	10.7	10.0	7.4	20.0
1,1-Dichloropropene	Qual		0.5054		10.5	10.0	4.7	20.0
Carbon tetrachloride	Qual		0.5197	0.1000	10.9	10.0	9.2	20.0
Benzene	Qual		1.293	0.5000	10.4	10.0	4.4	20.0
Tert-amyl methyl ether	Lin1		0.7312		13.4	12.5	6.8	20.0
Dibromomethane	Qual		0.1302		11.0	10.0	10.0	20.0
1,2-Dichloropropane	Qual		0.3198	0.1000	10.6	10.0	6.3	20.0
Trichloroethene	Qual		0.2710	0.2000	11.0	10.0	10.2	20.0
Bromodichloromethane	Ave	0.4130	0.4893	0.2000	11.8	10.0	18.5	20.0
2-Chloroethyl vinyl ether	Qual		0.1486		11.0	10.0	9.5	20.0
cis-1,3-Dichloropropene	Ave	0.5421	0.6511	0.2000	12.0	10.0	20.1*	20.0
4-Methyl-2-pentanone	Qual		0.0723	0.0600	48.4	50.0	-3.2	20.0
trans-1,3-Dichloropropene	Qual		0.5490	0.1000	11.5	10.0	15.4	20.0



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 580-312585/3 Calibration Date: 09/27/2019 16:35

Instrument ID: TAC113 Calib Start Date: 09/17/2019 19:00

GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/17/2019 23:58

Lab File ID: 09271903.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,2-Trichloroethane	Lin1		0.2359	0.1000	11.0	10.0	9.9	20.0
Toluene	Qual		1.586	0.4000	10.6	10.0	6.1	20.0
1,3-Dichloropropane	Ave	0.4350	0.4721		10.9	10.0	8.5	20.0
2-Hexanone	Qua2		0.0626	0.0600	53.7	50.0	7.5	20.0
Dibromochloromethane	Ave	0.2565	0.2922	0.1000	11.4	10.0	13.9	20.0
1,2-Dibromoethane	Qual		0.2251	0.1000	10.9	10.0	8.8	20.0
Tetrachloroethene	Qual		0.2876	0.2000	10.5	10.0	5.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3256	0.3543		10.9	10.0	8.8	20.0
Chlorobenzene	Qual		0.9694	0.5000	10.4	10.0	3.8	20.0
Ethylbenzene	Qual		1.880	0.1000	10.7	10.0	6.7	20.0
m-Xylene & p-Xylene	Qual		1.507	0.1000	10.9	10.0	8.6	20.0
Bromoform	Qual		0.1502	0.1000	10.2	10.0	2.1	20.0
Styrene	Qual		0.9328	0.3000	10.7	10.0	7.3	20.0
o-Xylene	Qual		1.592	0.3000	10.7	10.0	6.8	20.0
1,1,2,2-Tetrachloroethane	Qual		0.5395	0.3000	9.44	10.0	-5.6	20.0
trans-1,4-Dichloro-2-butene	Qual		0.1596		10.6	10.0	6.2	20.0
1,2,3-Trichloropropane	Qual		0.1577		10.3	10.0	2.6	20.0
Isopropylbenzene	Qual		1.813	0.1000	10.8	10.0	8.2	20.0
Bromobenzene	Lin2		0.7487		10.5	10.0	4.9	20.0
N-Propylbenzene	Qual		4.674		9.90	10.0	-1.0	20.0
2-Chlorotoluene	Lin1		0.7772		10.4	10.0	4.0	20.0
4-Chlorotoluene	Lin1		0.7859		10.5	10.0	5.5	20.0
1,3,5-Trimethylbenzene	Qual		3.232		10.2	10.0	2.3	20.0
t-Butylbenzene	Qual		2.630		10.4	10.0	4.4	20.0
1,2,4-Trimethylbenzene	Lin1		3.323		10.8	10.0	8.2	20.0
sec-Butylbenzene	Qual		4.100		10.2	10.0	1.7	20.0
1,3-Dichlorobenzene	Ave	1.464	1.520	0.6000	10.4	10.0	3.8	20.0
4-Isopropyltoluene	Qual		3.267		10.2	10.0	2.5	20.0
1,4-Dichlorobenzene	Ave	1.486	1.489	0.5000	10.0	10.0	0.2	20.0
1,2-Dichlorobenzene	Qua2		1.417	0.4000	10.3	10.0	3.4	20.0
n-Butylbenzene	Qual		0.7632		10.0	10.0	0.2	20.0
1,2-Dibromo-3-Chloropropane	Qual		0.0832	0.0500	10.2	10.0	2.0	20.0
1,3,5-Trichlorobenzene	Qual		1.280		10.8	10.0	7.8	20.0
1,2,4-Trichlorobenzene	Qual		1.004	0.2000	11.1	10.0	11.4	20.0
Naphthalene	Qual		1.526		10.9	10.0	8.7	20.0
Hexachlorobutadiene	Qual		0.6413		10.6	10.0	6.2	20.0
1,2,3-Trichlorobenzene	Qual		0.8031		10.6	10.0	5.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2754	0.2769		9.80	9.75	0.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3245	0.3631		10.9	9.75	11.9	20.0
Trifluorotoluene (Surr)	Ave	1.186	1.084		9.14	10.0	-8.6	20.0
Toluene-d8 (Surr)	Ave	1.305	1.251		9.35	9.75	-4.1	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 580-312585/3 Calibration Date: 09/27/2019 16:35  
 Instrument ID: TAC113 Calib Start Date: 09/17/2019 19:00  
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/17/2019 23:58  
 Lab File ID: 09271903.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Bromofluorobenzene (Surr)	Ave	0.3754	0.3819		9.92	9.75	1.7	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 580-312662/3 Calibration Date: 09/28/2019 16:30  
 Instrument ID: TAC113 Calib Start Date: 09/17/2019 19:00  
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/17/2019 23:58  
 Lab File ID: 09281903.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Qual		0.3382	0.1000	8.68	10.0	-13.2	20.0
Chloromethane	Qual		0.2712	0.1000	9.32	10.0	-6.8	20.0
Vinyl chloride	Qual		0.2770	0.1000	9.51	10.0	-4.9	20.0
Bromomethane	Ave	0.2619	0.2528	0.1000	9.65	10.0	-3.5	20.0
Chloroethane	Ave	0.0770	0.0717	0.0600	9.30	10.0	-7.0	20.0
Acrolein	Lin1		0.0185		57.1	60.0	-4.9	20.0
Trichlorofluoromethane	Ave	0.5542	0.6702	0.1000	12.1	10.0	20.9*	20.0
Acetone	Qual		0.0329	0.0200	65.2	50.0	30.3*	20.0
1,1-Dichloroethene	Lin1		0.2575	0.1000	9.72	10.0	-2.8	20.0
2-Methyl-2-propanol	Qual		0.0100		122	100	21.8*	20.0
Acrylonitrile	Qual		0.0533		91.1	100	-8.9	20.0
Iodomethane	Qual		0.3932		9.63	10.0	-3.7	20.0
Methylene Chloride	Qual		0.3378	0.1000	9.46	10.0	-5.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin2		0.2028	0.1000	10.6	10.0	5.8	20.0
Carbon disulfide	Qual		0.9432	0.1000	9.09	10.0	-9.1	20.0
trans-1,2-Dichloroethene	Qua2		0.2941	0.1000	9.62	10.0	-3.8	20.0
Methyl tert-butyl ether	Qual		0.6681	0.1000	10.7	10.0	6.6	20.0
1,1-Dichloroethane	Qual		0.6340	0.2000	9.61	10.0	-3.9	20.0
Vinyl acetate	Qual		0.0409		28.2	25.0	12.8	20.0
Hexane	Qual		0.4940		10.3	10.0	2.5	20.0
2-Butanone	Ave	0.0133	0.0172*	0.0200	64.6	50.0	29.2*	20.0
cis-1,2-Dichloroethene	Qual		0.3219	0.1000	9.55	10.0	-4.5	20.0
Bromochloromethane	Qual		0.1541		10.2	10.0	1.7	20.0
Chloroform	Qual		0.6859	0.2000	10.5	10.0	5.4	20.0
Tert-butyl ethyl ether	Qual		0.4090		13.3	12.5	6.2	20.0
2,2-Dichloropropane	Ave	0.4196	0.4296		10.2	10.0	2.4	20.0
1,2-Dichloroethane	Qual		0.5056	0.1000	12.6	10.0	25.7*	20.0
1,1,1-Trichloroethane	Qual		0.6272	0.1000	11.0	10.0	10.3	20.0
1,1-Dichloropropene	Qual		0.5098		10.6	10.0	5.6	20.0
Carbon tetrachloride	Qual		0.5450	0.1000	11.5	10.0	14.6	20.0
Benzene	Qual		1.283	0.5000	10.4	10.0	3.5	20.0
Tert-amyl methyl ether	Lin1		0.7481		13.7	12.5	9.3	20.0
Dibromomethane	Qual		0.1329		11.2	10.0	12.3	20.0
1,2-Dichloropropane	Qual		0.3165	0.1000	10.5	10.0	5.2	20.0
Trichloroethene	Qual		0.2694	0.2000	11.0	10.0	9.6	20.0
Bromodichloromethane	Ave	0.4130	0.5127	0.2000	12.4	10.0	24.1*	20.0
2-Chloroethyl vinyl ether	Qual		0.1507		11.1	10.0	11.1	20.0
cis-1,3-Dichloropropene	Ave	0.5421	0.6485	0.2000	12.0	10.0	19.6	20.0
4-Methyl-2-pentanone	Qual		0.0749	0.0600	50.1	50.0	0.2	20.0
trans-1,3-Dichloropropene	Qual		0.5645	0.1000	11.9	10.0	18.6	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 580-312662/3 Calibration Date: 09/28/2019 16:30  
 Instrument ID: TAC113 Calib Start Date: 09/17/2019 19:00  
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/17/2019 23:58  
 Lab File ID: 09281903.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,2-Trichloroethane	Lin1		0.2406	0.1000	11.2	10.0	12.1	20.0
Toluene	Qual		1.569	0.4000	10.5	10.0	4.9	20.0
1,3-Dichloropropane	Ave	0.4350	0.4774		11.0	10.0	9.8	20.0
2-Hexanone	Qua2		0.0655	0.0600	56.2	50.0	12.5	20.0
Dibromochloromethane	Ave	0.2565	0.2984	0.1000	11.6	10.0	16.3	20.0
1,2-Dibromoethane	Qual		0.2300	0.1000	11.1	10.0	11.2	20.0
Tetrachloroethene	Qual		0.2909	0.2000	10.6	10.0	6.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3256	0.3627		11.1	10.0	11.4	20.0
Chlorobenzene	Qual		0.9642	0.5000	10.3	10.0	3.2	20.0
Ethylbenzene	Qual		1.883	0.1000	10.7	10.0	6.9	20.0
m-Xylene & p-Xylene	Qual		1.507	0.1000	10.9	10.0	8.6	20.0
Bromoform	Qual		0.1540	0.1000	10.5	10.0	4.6	20.0
Styrene	Qual		0.9294	0.3000	10.7	10.0	6.9	20.0
o-Xylene	Qual		1.604	0.3000	10.8	10.0	7.6	20.0
1,1,2,2-Tetrachloroethane	Qual		0.5451	0.3000	9.54	10.0	-4.6	20.0
trans-1,4-Dichloro-2-butene	Qual		0.1495		9.97	10.0	-0.3	20.0
1,2,3-Trichloropropane	Qual		0.1646		10.7	10.0	7.0	20.0
Isopropylbenzene	Qual		1.831	0.1000	10.9	10.0	9.2	20.0
Bromobenzene	Lin2		0.7434		10.4	10.0	4.2	20.0
N-Propylbenzene	Qual		4.706		9.97	10.0	-0.3	20.0
2-Chlorotoluene	Lin1		0.7744		10.4	10.0	3.7	20.0
4-Chlorotoluene	Lin1		0.7814		10.5	10.0	4.9	20.0
1,3,5-Trimethylbenzene	Qual		3.254		10.3	10.0	3.0	20.0
t-Butylbenzene	Qual		2.664		10.6	10.0	5.7	20.0
1,2,4-Trimethylbenzene	Lin1		3.379		11.0	10.0	10.0	20.0
sec-Butylbenzene	Qual		4.145		10.3	10.0	2.9	20.0
1,3-Dichlorobenzene	Ave	1.464	1.515	0.6000	10.3	10.0	3.5	20.0
4-Isopropyltoluene	Qual		3.294		10.3	10.0	3.4	20.0
1,4-Dichlorobenzene	Ave	1.486	1.482	0.5000	9.98	10.0	-0.2	20.0
1,2-Dichlorobenzene	Qua2		1.440	0.4000	10.5	10.0	5.1	20.0
n-Butylbenzene	Qual		0.7716		10.1	10.0	1.3	20.0
1,2-Dibromo-3-Chloropropane	Qual		0.0884	0.0500	10.8	10.0	8.2	20.0
1,3,5-Trichlorobenzene	Qual		1.293		10.9	10.0	8.9	20.0
1,2,4-Trichlorobenzene	Qual		1.039	0.2000	11.5	10.0	15.5	20.0
Naphthalene	Qual		1.616		11.5	10.0	15.2	20.0
Hexachlorobutadiene	Qual		0.6538		10.9	10.0	8.5	20.0
1,2,3-Trichlorobenzene	Qual		0.8307		10.9	10.0	9.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2754	0.2828		10.0	9.75	2.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3245	0.3843		11.5	9.75	18.4	20.0
Trifluorotoluene (Surr)	Ave	1.186	1.067		8.99	10.0	-10.1	20.0
Toluene-d8 (Surr)	Ave	1.305	1.246		9.30	9.75	-4.6	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 580-312662/3 Calibration Date: 09/28/2019 16:30  
 Instrument ID: TAC113 Calib Start Date: 09/17/2019 19:00  
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/17/2019 23:58  
 Lab File ID: 09281903.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Bromofluorobenzene (Surr)	Ave	0.3754	0.3839		9.97	9.75	2.3	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVL 580-312662/6 Calibration Date: 09/28/2019 17:50  
 Instrument ID: TAC113 Calib Start Date: 09/17/2019 19:00  
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/17/2019 23:58  
 Lab File ID: 09281906.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Qual		0.3474	0.1000	0.230	0.200	14.9	
Chloromethane	Qual		0.4399	0.1000	0.275	0.200	37.7	
Vinyl chloride	Qual		0.3606	0.1000	0.247	0.200	23.4	
Bromomethane	Ave	0.2619	0.4639	0.1000	0.354	0.200	77.1	
Chloroethane	Ave	0.0770	0.1326	0.0600	0.344	0.200	72.2	
Trichlorofluoromethane	Ave	0.5542	0.8758	0.1000	0.316	0.200	58.0	
Acrolein	Lin1		0.0271		3.36	1.20	179.8	
Acetone	Qual		0.1341	0.0200	6.67	1.00	567.4	
1,1-Dichloroethene	Lin1		0.3975	0.1000	0.311	0.200	55.6	
2-Methyl-2-propanol	Qual		0.0207		5.61	2.00	180.3	
Iodomethane	Qual		0.6852		0.360	0.200	80.2	
Acrylonitrile	Qual		0.0327		2.31	2.00	15.6	
Methylene Chloride	Qual		1.726	0.1000		0.200	156.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin2		0.2419	0.1000	0.249	0.200	24.4	
Carbon disulfide	Qual		1.616	0.1000	0.310	0.200	55.1	
trans-1,2-Dichloroethene	Qua2		0.5335	0.1000	0.359	0.200	79.5	
Methyl tert-butyl ether	Qual		0.8210	0.1000	0.386	0.200	93.2	
1,1-Dichloroethane	Qual		1.109	0.2000	0.338	0.200	68.8	
Vinyl acetate	Qual		0.0307		1.19	0.500	137.0	
Hexane	Qual		0.4996		0.265	0.200	32.3	
2-Butanone	Ave	0.0133	0.0143*	0.0200		1.00	7.4	
cis-1,2-Dichloroethene	Qual		0.5757	0.1000	0.348	0.200	73.8	
Bromochloromethane	Qual		0.2357		0.327	0.200	63.4	
Chloroform	Qual		1.237	0.2000	0.376	0.200	88.0	
Tert-butyl ethyl ether	Qual		0.5880		0.488	0.250	95.1	
2,2-Dichloropropane	Ave	0.4196	0.7578		0.361	0.200	80.6	
1,2-Dichloroethane	Qual		0.7715	0.1000	0.351	0.200	75.7	
1,1,1-Trichloroethane	Qual		0.9246	0.1000	0.345	0.200	72.7	
1,1-Dichloropropene	Qual		0.6754		0.360	0.200	80.1	
Carbon tetrachloride	Qual		0.7605	0.1000	0.335	0.200	67.3	
Benzene	Qual		2.108	0.5000	0.328	0.200	63.8	
Tert-amyl methyl ether	Lin1		0.9615		0.504	0.250	101.7	
Dibromomethane	Qual		0.1897		0.328	0.200	63.9	
1,2-Dichloropropane	Qual		0.5045	0.1000	0.331	0.200	65.6	
Trichloroethene	Qual		0.4117	0.2000	0.340	0.200	70.2	
Bromodichloromethane	Ave	0.4130	0.8408	0.2000	0.407	0.200	103.6	
2-Chloroethyl vinyl ether	Qual		0.1944		0.506	0.200	153.2	
cis-1,3-Dichloropropene	Ave	0.5421	0.9138	0.2000	0.337	0.200	68.6	
4-Methyl-2-pentanone	Qual		0.1429	0.0600	3.06	1.00	206.0	
trans-1,3-Dichloropropene	Qual		0.8528	0.1000	0.438	0.200	119.2	

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVL 580-312662/6 Calibration Date: 09/28/2019 17:50  
 Instrument ID: TAC113 Calib Start Date: 09/17/2019 19:00  
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/17/2019 23:58  
 Lab File ID: 09281906.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,2-Trichloroethane	Lin1		0.4679	0.1000	0.404	0.200	102.0	
Toluene	Qual		2.660	0.4000	0.322	0.200	61.2	
1,3-Dichloropropane	Ave	0.4350	0.8905		0.409	0.200	104.7	
2-Hexanone	Qua2		0.1377	0.0600	2.96	1.00	196.4	
Dibromochloromethane	Ave	0.2565	0.5637	0.1000	0.440	0.200	119.8	
1,2-Dibromoethane	Qual		0.3986	0.1000	0.396	0.200	97.8	
Tetrachloroethene	Qual		0.3964	0.2000	0.291	0.200	45.6	
1,1,1,2-Tetrachloroethane	Ave	0.3256	0.7781		0.478	0.200	139.0	
Chlorobenzene	Qual		2.165	0.5000	0.442	0.200	120.9	
Ethylbenzene	Qual		3.504	0.1000	0.439	0.200	119.4	
m-Xylene & p-Xylene	Qual		2.862	0.1000	0.514	0.200	157.0	
Bromoform	Qual		0.3420	0.1000	0.508	0.200	153.8	
Styrene	Qual		1.616	0.3000	0.578	0.200	189.1	
o-Xylene	Qual		3.215	0.3000	0.501	0.200	150.5	
1,1,2,2-Tetrachloroethane	Qual		1.557	0.3000	0.531	0.200	165.7	
trans-1,4-Dichloro-2-butene	Qual		0.2706			0.200	131.5	
1,2,3-Trichloropropane	Qual		0.4779		0.630	0.200	215.2	
Isopropylbenzene	Qual		3.434	0.1000	0.540	0.200	169.8	
Bromobenzene	Lin2		1.957		0.560	0.200	179.9	
N-Propylbenzene	Qual		9.840		0.476	0.200	137.9	
2-Chlorotoluene	Lin1		1.906		0.526	0.200	163.1	
4-Chlorotoluene	Lin1		2.044		0.564	0.200	182.1	
1,3,5-Trimethylbenzene	Qual		7.176		0.520	0.200	159.9	
t-Butylbenzene	Qual		5.676		0.564	0.200	181.8	
1,2,4-Trimethylbenzene	Lin1		8.132		0.565	0.200	182.5	
sec-Butylbenzene	Qual		9.103		0.504	0.200	152.0	
1,3-Dichlorobenzene	Ave	1.464	4.350	0.6000	0.594	0.200	197.1	
4-Isopropyltoluene	Qual		7.874		0.487	0.200	143.3	
1,4-Dichlorobenzene	Ave	1.486	4.409	0.5000	0.594	0.200	196.8	
1,2-Dichlorobenzene	Qua2		4.276	0.4000	0.612	0.200	206.2	
n-Butylbenzene	Qual		1.701		0.511	0.200	155.3	
1,2-Dibromo-3-Chloropropane	Qual		0.2447	0.0500	0.610	0.200	205.1	
1,3,5-Trichlorobenzene	Qual		3.528		0.562	0.200	181.2	
1,2,4-Trichlorobenzene	Qual		3.018	0.2000	0.639	0.200	219.5	
Naphthalene	Qual		4.832		0.680	0.200	240.1	
Hexachlorobutadiene	Qual		1.631		0.509	0.200	154.5	
1,2,3-Trichlorobenzene	Qual		2.737		0.652	0.200	226.0	
Dibromofluoromethane (Surr)	Ave	0.2754	0.3013		10.7	9.75	9.4	
1,2-Dichloroethane-d4 (Surr)	Ave	0.3245	0.3799		11.4	9.75	17.1	
Trifluorotoluene (Surr)	Ave	1.186	1.088		9.17	10.0	-8.3	
Toluene-d8 (Surr)	Ave	1.305	1.243		9.28	9.75	-4.8	

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVL 580-312662/6 Calibration Date: 09/28/2019 17:50  
 Instrument ID: TAC113 Calib Start Date: 09/17/2019 19:00  
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 09/17/2019 23:58  
 Lab File ID: 09281906.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Bromofluorobenzene (Surr)	Ave	0.3754	0.3950		10.3	9.75	5.2	



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-312585/7  
 Matrix: Water Lab File ID: 09271907.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 18:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.30	0.027
71-55-6	1,1,1-Trichloroethane	ND		0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.20	0.056
79-00-5	1,1,2-Trichloroethane	ND		0.20	0.070
75-34-3	1,1-Dichloroethane	ND		0.20	0.025
75-35-4	1,1-Dichloroethene	ND		0.20	0.10
563-58-6	1,1-Dichloropropene	ND		0.20	0.036
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.20	0.050
120-82-1	1,2,4-Trichlorobenzene	ND		0.30	0.072
95-63-6	1,2,4-Trimethylbenzene	ND		0.30	0.072
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.44
106-93-4	1,2-Dibromoethane	ND		0.10	0.025
95-50-1	1,2-Dichlorobenzene	ND		0.30	0.050
107-06-2	1,2-Dichloroethane	ND		0.20	0.043
78-87-5	1,2-Dichloropropane	ND		0.20	0.060
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.30	0.050
142-28-9	1,3-Dichloropropane	ND		0.20	0.056
106-46-7	1,4-Dichlorobenzene	ND		0.30	0.050
594-20-7	2,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone	ND		10	2.5
95-49-8	2-Chlorotoluene	ND		0.50	0.12
106-43-4	4-Chlorotoluene	ND		0.30	0.050
99-87-6	4-Isopropyltoluene	ND		0.30	0.050
108-10-1	4-Methyl-2-pentanone	ND		5.0	1.7
67-64-1	Acetone	ND		6.0	3.1
71-43-2	Benzene	ND		0.20	0.030
108-86-1	Bromobenzene	ND		0.20	0.035
74-97-5	Bromochloromethane	0.0283	J	0.20	0.025
75-27-4	Bromodichloromethane	ND		0.20	0.060
75-25-2	Bromoform	ND		0.50	0.16
74-83-9	Bromomethane	ND		0.50	0.16
75-15-0	Carbon disulfide	ND		0.30	0.083
56-23-5	Carbon tetrachloride	ND		0.20	0.025
108-90-7	Chlorobenzene	ND		0.20	0.025

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-312585/7  
 Matrix: Water Lab File ID: 09271907.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 18:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	ND		0.50	0.096
67-66-3	Chloroform	ND		0.20	0.030
74-87-3	Chloromethane	ND		0.50	0.15
156-59-2	cis-1,2-Dichloroethene	ND		0.20	0.055
10061-01-5	cis-1,3-Dichloropropene	ND		0.20	0.090
124-48-1	Dibromochloromethane	ND		0.20	0.055
74-95-3	Dibromomethane	ND		0.20	0.062
75-71-8	Dichlorodifluoromethane	ND		0.40	0.13
100-41-4	Ethylbenzene	0.0519	J	0.20	0.030
87-68-3	Hexachlorobutadiene	ND		0.50	0.15
98-82-8	Isopropylbenzene	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	0.133	J	0.30	0.070
75-09-2	Methylene Chloride	ND		5.0	0.74
179601-23-1	m-Xylene & p-Xylene	ND		0.50	0.12
91-20-3	Naphthalene	ND		1.0	0.22
104-51-8	n-Butylbenzene	0.0896	J	0.50	0.080
103-65-1	N-Propylbenzene	ND		0.30	0.091
95-47-6	o-Xylene	ND		0.50	0.15
135-98-8	sec-Butylbenzene	ND		1.0	0.17
100-42-5	Styrene	ND		0.50	0.19
98-06-6	t-Butylbenzene	0.133	J	0.50	0.10
127-18-4	Tetrachloroethene	ND		0.50	0.084
108-88-3	Toluene	ND		0.20	0.050
156-60-5	trans-1,2-Dichloroethene	ND		0.20	0.089
10061-02-6	trans-1,3-Dichloropropene	ND		0.20	0.092
79-01-6	Trichloroethene	ND		0.20	0.066
75-69-4	Trichlorofluoromethane	ND		0.50	0.11
75-01-4	Vinyl chloride	ND		0.020	0.013

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-312585/7  
 Matrix: Water Lab File ID: 09271907.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 18:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	89		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123	X	80-120
460-00-4	4-Bromofluorobenzene (Surr)	108		80-120
1868-53-7	Dibromofluoromethane (Surr)	115		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-312662/7  
 Matrix: Water Lab File ID: 09281907.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 18:16  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312662 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.30	0.027
71-55-6	1,1,1-Trichloroethane	ND		0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.20	0.056
79-00-5	1,1,2-Trichloroethane	ND		0.20	0.070
75-34-3	1,1-Dichloroethane	ND		0.20	0.025
75-35-4	1,1-Dichloroethene	ND		0.20	0.10
563-58-6	1,1-Dichloropropene	ND		0.20	0.036
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.20	0.050
120-82-1	1,2,4-Trichlorobenzene	ND		0.30	0.072
95-63-6	1,2,4-Trimethylbenzene	ND		0.30	0.072
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.44
106-93-4	1,2-Dibromoethane	ND		0.10	0.025
95-50-1	1,2-Dichlorobenzene	ND		0.30	0.050
107-06-2	1,2-Dichloroethane	ND		0.20	0.043
78-87-5	1,2-Dichloropropane	ND		0.20	0.060
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.30	0.050
142-28-9	1,3-Dichloropropane	ND		0.20	0.056
106-46-7	1,4-Dichlorobenzene	ND		0.30	0.050
594-20-7	2,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone	ND		10	2.5
95-49-8	2-Chlorotoluene	ND		0.50	0.12
106-43-4	4-Chlorotoluene	ND		0.30	0.050
99-87-6	4-Isopropyltoluene	ND		0.30	0.050
108-10-1	4-Methyl-2-pentanone	ND		5.0	1.7
67-64-1	Acetone	ND		6.0	3.1
71-43-2	Benzene	ND		0.20	0.030
108-86-1	Bromobenzene	ND		0.20	0.035
74-97-5	Bromochloromethane	ND		0.20	0.025
75-27-4	Bromodichloromethane	ND		0.20	0.060
75-25-2	Bromoform	ND		0.50	0.16
74-83-9	Bromomethane	ND		0.50	0.16
75-15-0	Carbon disulfide	ND		0.30	0.083
56-23-5	Carbon tetrachloride	ND		0.20	0.025
108-90-7	Chlorobenzene	ND		0.20	0.025

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-312662/7  
 Matrix: Water Lab File ID: 09281907.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 18:16  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312662 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	ND		0.50	0.096
67-66-3	Chloroform	ND		0.20	0.030
74-87-3	Chloromethane	ND		0.50	0.15
156-59-2	cis-1,2-Dichloroethene	ND		0.20	0.055
10061-01-5	cis-1,3-Dichloropropene	ND		0.20	0.090
124-48-1	Dibromochloromethane	ND		0.20	0.055
74-95-3	Dibromomethane	ND		0.20	0.062
75-71-8	Dichlorodifluoromethane	ND		0.40	0.13
100-41-4	Ethylbenzene	0.0563	J	0.20	0.030
87-68-3	Hexachlorobutadiene	ND		0.50	0.15
98-82-8	Isopropylbenzene	ND		1.0	0.19
1634-04-4	Methyl tert-butyl ether	ND		0.30	0.070
75-09-2	Methylene Chloride	ND		5.0	0.74
179601-23-1	m-Xylene & p-Xylene	0.122	J	0.50	0.12
91-20-3	Naphthalene	ND		1.0	0.22
104-51-8	n-Butylbenzene	0.0892	J	0.50	0.080
103-65-1	N-Propylbenzene	ND		0.30	0.091
95-47-6	o-Xylene	ND		0.50	0.15
135-98-8	sec-Butylbenzene	ND		1.0	0.17
100-42-5	Styrene	0.213	J	0.50	0.19
98-06-6	t-Butylbenzene	0.136	J	0.50	0.10
127-18-4	Tetrachloroethene	ND		0.50	0.084
108-88-3	Toluene	ND		0.20	0.050
156-60-5	trans-1,2-Dichloroethene	ND		0.20	0.089
10061-02-6	trans-1,3-Dichloropropene	ND		0.20	0.092
79-01-6	Trichloroethene	ND		0.20	0.066
75-69-4	Trichlorofluoromethane	ND		0.50	0.11
75-01-4	Vinyl chloride	ND		0.020	0.013

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-312662/7  
 Matrix: Water Lab File ID: 09281907.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 18:16  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312662 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		80-120
460-00-4	4-Bromofluorobenzene (Surr)	110		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-312585/4  
 Matrix: Water Lab File ID: 09271904.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 17:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.78		0.30	0.027
71-55-6	1,1,1-Trichloroethane	6.09		0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	4.59		0.20	0.056
79-00-5	1,1,2-Trichloroethane	5.24		0.20	0.070
75-34-3	1,1-Dichloroethane	5.48		0.20	0.025
75-35-4	1,1-Dichloroethene	5.55		0.20	0.10
563-58-6	1,1-Dichloropropene	5.44		0.20	0.036
87-61-6	1,2,3-Trichlorobenzene	5.56		0.50	0.15
96-18-4	1,2,3-Trichloropropane	5.06		0.20	0.050
120-82-1	1,2,4-Trichlorobenzene	5.82		0.30	0.072
95-63-6	1,2,4-Trimethylbenzene	5.79		0.30	0.072
96-12-8	1,2-Dibromo-3-Chloropropane	4.85		2.0	0.44
106-93-4	1,2-Dibromoethane	5.13		0.10	0.025
95-50-1	1,2-Dichlorobenzene	5.39		0.30	0.050
107-06-2	1,2-Dichloroethane	5.77		0.20	0.043
78-87-5	1,2-Dichloropropane	5.17		0.20	0.060
108-67-8	1,3,5-Trimethylbenzene	5.33		0.50	0.15
541-73-1	1,3-Dichlorobenzene	5.44		0.30	0.050
142-28-9	1,3-Dichloropropane	5.20		0.20	0.056
106-46-7	1,4-Dichlorobenzene	5.23		0.30	0.050
594-20-7	2,2-Dichloropropane	6.74		0.50	0.060
78-93-3	2-Butanone	27.6		10	2.5
95-49-8	2-Chlorotoluene	5.39		0.50	0.12
106-43-4	4-Chlorotoluene	5.44		0.30	0.050
99-87-6	4-Isopropyltoluene	5.41		0.30	0.050
108-10-1	4-Methyl-2-pentanone	23.9		5.0	1.7
67-64-1	Acetone	34.1		6.0	3.1
71-43-2	Benzene	5.34		0.20	0.030
108-86-1	Bromobenzene	5.18		0.20	0.035
74-97-5	Bromochloromethane	5.57		0.20	0.025
75-27-4	Bromodichloromethane	5.72		0.20	0.060
75-25-2	Bromoform	4.94		0.50	0.16
74-83-9	Bromomethane	5.95		0.50	0.16
75-15-0	Carbon disulfide	5.46		0.30	0.083
56-23-5	Carbon tetrachloride	6.03		0.20	0.025
108-90-7	Chlorobenzene	5.26		0.20	0.025

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-312585/4  
 Matrix: Water Lab File ID: 09271904.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 17:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	5.41		0.50	0.096
67-66-3	Chloroform	5.74		0.20	0.030
74-87-3	Chloromethane	6.17		0.50	0.15
156-59-2	cis-1,2-Dichloroethene	5.54		0.20	0.055
10061-01-5	cis-1,3-Dichloropropene	5.54		0.20	0.090
124-48-1	Dibromochloromethane	5.34		0.20	0.055
74-95-3	Dibromomethane	5.31		0.20	0.062
75-71-8	Dichlorodifluoromethane	5.09		0.40	0.13
100-41-4	Ethylbenzene	5.70		0.20	0.030
87-68-3	Hexachlorobutadiene	5.61		0.50	0.15
98-82-8	Isopropylbenzene	6.02		1.0	0.19
1634-04-4	Methyl tert-butyl ether	5.46		0.30	0.070
75-09-2	Methylene Chloride	5.86		5.0	0.74
179601-23-1	m-Xylene & p-Xylene	5.86		0.50	0.12
91-20-3	Naphthalene	5.65		1.0	0.22
104-51-8	n-Butylbenzene	5.36		0.50	0.080
103-65-1	N-Propylbenzene	5.12		0.30	0.091
95-47-6	o-Xylene	5.93		0.50	0.15
135-98-8	sec-Butylbenzene	5.28		1.0	0.17
100-42-5	Styrene	5.47		0.50	0.19
98-06-6	t-Butylbenzene	5.17		0.50	0.10
127-18-4	Tetrachloroethene	5.39		0.50	0.084
108-88-3	Toluene	5.42		0.20	0.050
156-60-5	trans-1,2-Dichloroethene	5.61		0.20	0.089
10061-02-6	trans-1,3-Dichloropropene	5.17		0.20	0.092
79-01-6	Trichloroethene	5.59		0.20	0.066
75-69-4	Trichlorofluoromethane	6.27		0.50	0.11
75-01-4	Vinyl chloride	6.21		0.020	0.013



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-312585/4  
 Matrix: Water Lab File ID: 09271904.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 17:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	91		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		80-120
460-00-4	4-Bromofluorobenzene (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-312662/4  
 Matrix: Water Lab File ID: 09281904.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 16:57  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312662 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.94		0.30	0.027
71-55-6	1,1,1-Trichloroethane	6.63		0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	4.57		0.20	0.056
79-00-5	1,1,2-Trichloroethane	5.00		0.20	0.070
75-34-3	1,1-Dichloroethane	5.73		0.20	0.025
75-35-4	1,1-Dichloroethene	5.90		0.20	0.10
563-58-6	1,1-Dichloropropene	5.60		0.20	0.036
87-61-6	1,2,3-Trichlorobenzene	6.00		0.50	0.15
96-18-4	1,2,3-Trichloropropane	5.33		0.20	0.050
120-82-1	1,2,4-Trichlorobenzene	6.04		0.30	0.072
95-63-6	1,2,4-Trimethylbenzene	5.60		0.30	0.072
96-12-8	1,2-Dibromo-3-Chloropropane	5.11		2.0	0.44
106-93-4	1,2-Dibromoethane	5.13		0.10	0.025
95-50-1	1,2-Dichlorobenzene	5.30		0.30	0.050
107-06-2	1,2-Dichloroethane	5.90		0.20	0.043
78-87-5	1,2-Dichloropropane	4.83		0.20	0.060
108-67-8	1,3,5-Trimethylbenzene	5.12		0.50	0.15
541-73-1	1,3-Dichlorobenzene	5.27		0.30	0.050
142-28-9	1,3-Dichloropropane	5.07		0.20	0.056
106-46-7	1,4-Dichlorobenzene	5.06		0.30	0.050
594-20-7	2,2-Dichloropropane	7.26		0.50	0.060
78-93-3	2-Butanone	27.7		10	2.5
95-49-8	2-Chlorotoluene	5.21		0.50	0.12
106-43-4	4-Chlorotoluene	5.24		0.30	0.050
99-87-6	4-Isopropyltoluene	5.20		0.30	0.050
108-10-1	4-Methyl-2-pentanone	25.3		5.0	1.7
67-64-1	Acetone	20.9		6.0	3.1
71-43-2	Benzene	5.27		0.20	0.030
108-86-1	Bromobenzene	5.06		0.20	0.035
74-97-5	Bromochloromethane	5.76		0.20	0.025
75-27-4	Bromodichloromethane	5.77		0.20	0.060
75-25-2	Bromoform	5.17		0.50	0.16
74-83-9	Bromomethane	5.80		0.50	0.16
75-15-0	Carbon disulfide	5.57		0.30	0.083
56-23-5	Carbon tetrachloride	6.74		0.20	0.025
108-90-7	Chlorobenzene	5.15		0.20	0.025

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-312662/4  
 Matrix: Water Lab File ID: 09281904.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 16:57  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312662 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	5.66		0.50	0.096
67-66-3	Chloroform	6.12		0.20	0.030
74-87-3	Chloromethane	5.61		0.50	0.15
156-59-2	cis-1,2-Dichloroethene	5.72		0.20	0.055
10061-01-5	cis-1,3-Dichloropropene	4.95		0.20	0.090
124-48-1	Dibromochloromethane	5.19		0.20	0.055
74-95-3	Dibromomethane	5.25		0.20	0.062
75-71-8	Dichlorodifluoromethane	5.32		0.40	0.13
100-41-4	Ethylbenzene	5.73		0.20	0.030
87-68-3	Hexachlorobutadiene	5.52		0.50	0.15
98-82-8	Isopropylbenzene	6.07		1.0	0.19
1634-04-4	Methyl tert-butyl ether	6.34		0.30	0.070
75-09-2	Methylene Chloride	6.03		5.0	0.74
179601-23-1	m-Xylene & p-Xylene	5.91		0.50	0.12
91-20-3	Naphthalene	6.18		1.0	0.22
104-51-8	n-Butylbenzene	5.26		0.50	0.080
103-65-1	N-Propylbenzene	5.01		0.30	0.091
95-47-6	o-Xylene	5.98		0.50	0.15
135-98-8	sec-Butylbenzene	5.07		1.0	0.17
100-42-5	Styrene	5.61		0.50	0.19
98-06-6	t-Butylbenzene	4.71		0.50	0.10
127-18-4	Tetrachloroethene	5.11		0.50	0.084
108-88-3	Toluene	5.00		0.20	0.050
156-60-5	trans-1,2-Dichloroethene	5.88		0.20	0.089
10061-02-6	trans-1,3-Dichloropropene	4.92		0.20	0.092
79-01-6	Trichloroethene	5.40		0.20	0.066
75-69-4	Trichlorofluoromethane	7.15		0.50	0.11
75-01-4	Vinyl chloride	6.00		0.020	0.013

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-312662/4  
 Matrix: Water Lab File ID: 09281904.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 16:57  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312662 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	87		80-120
2037-26-5	Toluene-d8 (Surr)	92		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		80-120
460-00-4	4-Bromofluorobenzene (Surr)	113		80-120
1868-53-7	Dibromofluoromethane (Surr)	117		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-312585/5  
 Matrix: Water Lab File ID: 09271905.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 17:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.30		0.30	0.027
71-55-6	1,1,1-Trichloroethane	5.27		0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	4.43		0.20	0.056
79-00-5	1,1,2-Trichloroethane	5.32		0.20	0.070
75-34-3	1,1-Dichloroethane	4.77		0.20	0.025
75-35-4	1,1-Dichloroethene	4.75		0.20	0.10
563-58-6	1,1-Dichloropropene	5.08		0.20	0.036
87-61-6	1,2,3-Trichlorobenzene	5.02		0.50	0.15
96-18-4	1,2,3-Trichloropropane	5.08		0.20	0.050
120-82-1	1,2,4-Trichlorobenzene	5.39		0.30	0.072
95-63-6	1,2,4-Trimethylbenzene	5.53		0.30	0.072
96-12-8	1,2-Dibromo-3-Chloropropane	4.59		2.0	0.44
106-93-4	1,2-Dibromoethane	5.18		0.10	0.025
95-50-1	1,2-Dichlorobenzene	5.11		0.30	0.050
107-06-2	1,2-Dichloroethane	5.71		0.20	0.043
78-87-5	1,2-Dichloropropane	5.19		0.20	0.060
108-67-8	1,3,5-Trimethylbenzene	5.17		0.50	0.15
541-73-1	1,3-Dichlorobenzene	5.32		0.30	0.050
142-28-9	1,3-Dichloropropane	5.36		0.20	0.056
106-46-7	1,4-Dichlorobenzene	5.20		0.30	0.050
594-20-7	2,2-Dichloropropane	5.57		0.50	0.060
78-93-3	2-Butanone	29.8		10	2.5
95-49-8	2-Chlorotoluene	5.26		0.50	0.12
106-43-4	4-Chlorotoluene	5.53		0.30	0.050
99-87-6	4-Isopropyltoluene	5.08		0.30	0.050
108-10-1	4-Methyl-2-pentanone	23.3		5.0	1.7
67-64-1	Acetone	37.0		6.0	3.1
71-43-2	Benzene	5.16		0.20	0.030
108-86-1	Bromobenzene	5.25		0.20	0.035
74-97-5	Bromochloromethane	4.88		0.20	0.025
75-27-4	Bromodichloromethane	5.77		0.20	0.060
75-25-2	Bromoform	4.74		0.50	0.16
74-83-9	Bromomethane	5.09		0.50	0.16
75-15-0	Carbon disulfide	4.67		0.30	0.083
56-23-5	Carbon tetrachloride	5.29		0.20	0.025
108-90-7	Chlorobenzene	5.12		0.20	0.025

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-312585/5  
 Matrix: Water Lab File ID: 09271905.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 17:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	4.86		0.50	0.096
67-66-3	Chloroform	5.13		0.20	0.030
74-87-3	Chloromethane	4.65		0.50	0.15
156-59-2	cis-1,2-Dichloroethene	4.77		0.20	0.055
10061-01-5	cis-1,3-Dichloropropene	5.72		0.20	0.090
124-48-1	Dibromochloromethane	5.31		0.20	0.055
74-95-3	Dibromomethane	5.25		0.20	0.062
75-71-8	Dichlorodifluoromethane	4.31		0.40	0.13
100-41-4	Ethylbenzene	5.46		0.20	0.030
87-68-3	Hexachlorobutadiene	5.08		0.50	0.15
98-82-8	Isopropylbenzene	5.52		1.0	0.19
1634-04-4	Methyl tert-butyl ether	4.70		0.30	0.070
75-09-2	Methylene Chloride	5.04		5.0	0.74
179601-23-1	m-Xylene & p-Xylene	5.63		0.50	0.12
91-20-3	Naphthalene	5.04		1.0	0.22
104-51-8	n-Butylbenzene	4.93		0.50	0.080
103-65-1	N-Propylbenzene	5.01		0.30	0.091
95-47-6	o-Xylene	5.51		0.50	0.15
135-98-8	sec-Butylbenzene	5.10		1.0	0.17
100-42-5	Styrene	5.55		0.50	0.19
98-06-6	t-Butylbenzene	5.19		0.50	0.10
127-18-4	Tetrachloroethene	5.17		0.50	0.084
108-88-3	Toluene	5.28		0.20	0.050
156-60-5	trans-1,2-Dichloroethene	4.89		0.20	0.089
10061-02-6	trans-1,3-Dichloropropene	5.45		0.20	0.092
79-01-6	Trichloroethene	5.41		0.20	0.066
75-69-4	Trichlorofluoromethane	3.07		0.50	0.11
75-01-4	Vinyl chloride	4.95		0.020	0.013

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-312585/5  
 Matrix: Water Lab File ID: 09271905.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/27/2019 17:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312585 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	91		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-312662/5  
 Matrix: Water Lab File ID: 09281905.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 17:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312662 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.99		0.30	0.027
71-55-6	1,1,1-Trichloroethane	6.53		0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	4.42		0.20	0.056
79-00-5	1,1,2-Trichloroethane	4.94		0.20	0.070
75-34-3	1,1-Dichloroethane	5.53		0.20	0.025
75-35-4	1,1-Dichloroethene	5.72		0.20	0.10
563-58-6	1,1-Dichloropropene	5.56		0.20	0.036
87-61-6	1,2,3-Trichlorobenzene	5.87		0.50	0.15
96-18-4	1,2,3-Trichloropropane	5.02		0.20	0.050
120-82-1	1,2,4-Trichlorobenzene	6.12		0.30	0.072
95-63-6	1,2,4-Trimethylbenzene	5.74		0.30	0.072
96-12-8	1,2-Dibromo-3-Chloropropane	4.97		2.0	0.44
106-93-4	1,2-Dibromoethane	4.90		0.10	0.025
95-50-1	1,2-Dichlorobenzene	5.30		0.30	0.050
107-06-2	1,2-Dichloroethane	5.74		0.20	0.043
78-87-5	1,2-Dichloropropane	4.83		0.20	0.060
108-67-8	1,3,5-Trimethylbenzene	5.22		0.50	0.15
541-73-1	1,3-Dichlorobenzene	5.29		0.30	0.050
142-28-9	1,3-Dichloropropane	4.82		0.20	0.056
106-46-7	1,4-Dichlorobenzene	5.10		0.30	0.050
594-20-7	2,2-Dichloropropane	6.99		0.50	0.060
78-93-3	2-Butanone	26.1		10	2.5
95-49-8	2-Chlorotoluene	5.29		0.50	0.12
106-43-4	4-Chlorotoluene	5.32		0.30	0.050
99-87-6	4-Isopropyltoluene	5.28		0.30	0.050
108-10-1	4-Methyl-2-pentanone	23.5		5.0	1.7
67-64-1	Acetone	22.8		6.0	3.1
71-43-2	Benzene	5.24		0.20	0.030
108-86-1	Bromobenzene	5.01		0.20	0.035
74-97-5	Bromochloromethane	5.63		0.20	0.025
75-27-4	Bromodichloromethane	5.48		0.20	0.060
75-25-2	Bromoform	4.91		0.50	0.16
74-83-9	Bromomethane	5.68		0.50	0.16
75-15-0	Carbon disulfide	5.43		0.30	0.083
56-23-5	Carbon tetrachloride	6.59		0.20	0.025
108-90-7	Chlorobenzene	5.09		0.20	0.025



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-312662/5  
 Matrix: Water Lab File ID: 09281905.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 17:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312662 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	5.78		0.50	0.096
67-66-3	Chloroform	6.03		0.20	0.030
74-87-3	Chloromethane	5.30		0.50	0.15
156-59-2	cis-1,2-Dichloroethene	5.66		0.20	0.055
10061-01-5	cis-1,3-Dichloropropene	5.12		0.20	0.090
124-48-1	Dibromochloromethane	5.14		0.20	0.055
74-95-3	Dibromomethane	5.20		0.20	0.062
75-71-8	Dichlorodifluoromethane	5.01		0.40	0.13
100-41-4	Ethylbenzene	5.78		0.20	0.030
87-68-3	Hexachlorobutadiene	5.66		0.50	0.15
98-82-8	Isopropylbenzene	6.24		1.0	0.19
1634-04-4	Methyl tert-butyl ether	5.82		0.30	0.070
75-09-2	Methylene Chloride	5.84		5.0	0.74
179601-23-1	m-Xylene & p-Xylene	5.96		0.50	0.12
91-20-3	Naphthalene	5.91		1.0	0.22
104-51-8	n-Butylbenzene	5.35		0.50	0.080
103-65-1	N-Propylbenzene	5.09		0.30	0.091
95-47-6	o-Xylene	6.05		0.50	0.15
135-98-8	sec-Butylbenzene	5.16		1.0	0.17
100-42-5	Styrene	5.51		0.50	0.19
98-06-6	t-Butylbenzene	4.94		0.50	0.10
127-18-4	Tetrachloroethene	5.24		0.50	0.084
108-88-3	Toluene	5.16		0.20	0.050
156-60-5	trans-1,2-Dichloroethene	5.83		0.20	0.089
10061-02-6	trans-1,3-Dichloropropene	4.83		0.20	0.092
79-01-6	Trichloroethene	5.37		0.20	0.066
75-69-4	Trichlorofluoromethane	7.06		0.50	0.11
75-01-4	Vinyl chloride	5.62		0.020	0.013

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-312662/5  
 Matrix: Water Lab File ID: 09281905.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10 (mL) Date Analyzed: 09/28/2019 17:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-VRX ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 312662 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		80-120
460-00-4	4-Bromofluorobenzene (Surr)	110		80-120
1868-53-7	Dibromofluoromethane (Surr)	114		80-120

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Start Date: 09/17/2019 18:19Analysis Batch Number: 311485 End Date: 09/18/2019 00:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-311485/2		09/17/2019 18:19	1	09171902b.D	DB-VRX 0.25 (mm)
STD 580-311485/3 IC		09/17/2019 19:00	1	09171903b.D	DB-VRX 0.25 (mm)
STD 580-311485/4 IC		09/17/2019 19:26	1	09171904b.D	DB-VRX 0.25 (mm)
STD 580-311485/5 IC		09/17/2019 20:15	1	09171905b.D	DB-VRX 0.25 (mm)
STD 580-311485/6 IC		09/17/2019 20:42	1	09171906b.D	DB-VRX 0.25 (mm)
STD 580-311485/7 IC		09/17/2019 21:19	1	09171907b.D	DB-VRX 0.25 (mm)
STD 580-311485/8 IC		09/17/2019 21:45	1	09171908b.D	DB-VRX 0.25 (mm)
STD 580-311485/9 IC		09/17/2019 22:12	1	09171909b.D	DB-VRX 0.25 (mm)
ICIS 580-311485/10		09/17/2019 22:38	1	09171910b.D	DB-VRX 0.25 (mm)
STD 580-311485/11 IC		09/17/2019 23:05	1	09171911b.D	DB-VRX 0.25 (mm)
STD 580-311485/12 IC		09/17/2019 23:31	1	09171912b.D	DB-VRX 0.25 (mm)
STD 580-311485/13 IC		09/17/2019 23:58	1	09171913b.D	DB-VRX 0.25 (mm)
ICV 580-311485/15		09/18/2019 00:50	1	09171915b.D	DB-VRX 0.25 (mm)

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Start Date: 09/27/2019 16:09Analysis Batch Number: 312585 End Date: 09/28/2019 03:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-312585/2		09/27/2019 16:09	1	09271902.D	DB-VRX 0.25 (mm)
CCVIS 580-312585/3		09/27/2019 16:35	1	09271903.D	DB-VRX 0.25 (mm)
LCS 580-312585/4		09/27/2019 17:02	1	09271904.D	DB-VRX 0.25 (mm)
LCSD 580-312585/5		09/27/2019 17:28	1	09271905.D	DB-VRX 0.25 (mm)
MB 580-312585/7		09/27/2019 18:21	1	09271907.D	DB-VRX 0.25 (mm)
580-89287-15		09/27/2019 18:48	1	09271908.D	DB-VRX 0.25 (mm)
580-89287-16		09/27/2019 19:14	1	09271909.D	624SIL-MS 0.25 (mm)
ZZZZZ		09/27/2019 19:41	1		DB-VRX 0.25 (mm)
ZZZZZ		09/27/2019 20:07	1		DB-VRX 0.25 (mm)
580-89287-1		09/27/2019 20:34	1	09271912.D	624SIL-MS 0.25 (mm)
580-89287-2		09/27/2019 21:00	1	09271913.D	DB-VRX 0.25 (mm)
580-89287-3		09/27/2019 21:27	1	09271914.D	DB-VRX 0.25 (mm)
580-89287-4		09/27/2019 21:54	1	09271915.D	DB-VRX 0.25 (mm)
580-89287-5		09/27/2019 22:20	1	09271916.D	DB-VRX 0.25 (mm)
580-89287-6		09/27/2019 22:47	1	09271917.D	DB-VRX 0.25 (mm)
580-89287-7		09/27/2019 23:13	1	09271918.D	624SIL-MS 0.25 (mm)
580-89287-10		09/27/2019 23:40	1	09271919.D	624SIL-MS 0.25 (mm)
580-89287-9		09/28/2019 00:06	1	09271920.D	DB-VRX 0.25 (mm)
580-89287-11		09/28/2019 00:33	1	09271921.D	DB-VRX 0.25 (mm)
580-89287-12		09/28/2019 00:59	1	09271922.D	624SIL-MS 0.25 (mm)
580-89287-13		09/28/2019 01:26	1	09271923.D	624SIL-MS 0.25 (mm)
580-89287-14		09/28/2019 01:52	1	09271924.D	DB-VRX 0.25 (mm)
580-89287-8		09/28/2019 02:19	1	09271925.D	624SIL-MS 0.25 (mm)
ZZZZZ		09/28/2019 02:45	50		DB-VRX 0.25 (mm)
ZZZZZ		09/28/2019 03:12	1		DB-VRX 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC113 Start Date: 09/28/2019 16:04

Analysis Batch Number: 312662 End Date: 09/29/2019 03:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-312662/2		09/28/2019 16:04	1	09281902.D	DB-VRX 0.25 (mm)
CCVIS 580-312662/3		09/28/2019 16:30	1	09281903.D	DB-VRX 0.25 (mm)
LCS 580-312662/4		09/28/2019 16:57	1	09281904.D	DB-VRX 0.25 (mm)
LCSD 580-312662/5		09/28/2019 17:23	1	09281905.D	DB-VRX 0.25 (mm)
CCVL 580-312662/6		09/28/2019 17:50	1	09281906.D	DB-VRX 0.25 (mm)
MB 580-312662/7		09/28/2019 18:16	1	09281907.D	DB-VRX 0.25 (mm)
580-89287-1 RA		09/28/2019 18:43	1	09281908.D	624SIL-MS 0.25 (mm)
580-89287-10 RA		09/28/2019 19:09	1	09281909.D	624SIL-MS 0.25 (mm)
ZZZZZ		09/28/2019 19:36	1		DB-VRX 0.25 (mm)
580-89287-8 DL		09/28/2019 20:02	100	09281911.D	624SIL-MS 0.25 (mm)
580-89287-13 DL		09/28/2019 20:29	100	09281912.D	624SIL-MS 0.25 (mm)
ZZZZZ		09/28/2019 20:55	10		DB-VRX 0.25 (mm)
ZZZZZ		09/28/2019 21:22	10		DB-VRX 0.25 (mm)
ZZZZZ		09/28/2019 21:48	10		DB-VRX 0.25 (mm)
ZZZZZ		09/28/2019 22:15	100		DB-VRX 0.25 (mm)
ZZZZZ		09/28/2019 22:41	1		DB-VRX 0.25 (mm)
ZZZZZ		09/28/2019 23:08	1		DB-VRX 0.25 (mm)
ZZZZZ		09/28/2019 23:34	1		DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 00:01	1		DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 00:27	1		DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 00:54	1		DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 01:20	1		DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 01:47	1		DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 02:13	1		DB-VRX 0.25 (mm)
ZZZZZ		09/29/2019 02:40	10		624SIL-MS 0.25 (mm)
ZZZZZ		09/29/2019 03:06	10		624SIL-MS 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Batch Number: 311485 Batch Start Date: 09/17/19 18:19 Batch Analyst: Overman, Derek S

Batch Method: 8260C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	5X SUR/IS/TFT 00010	VOAMasterMix 00043	VOAMasterSEC 00035	
BFB 580-311485/2		8260C		10 mL	10 mL	2 uL			
STD 580-311485/3 IC		8260C		10 mL	10 mL	2 uL	0.02 uL		
STD 580-311485/4 IC		8260C		10 mL	10 mL	2 uL	0.05 uL		
STD 580-311485/5 IC		8260C		10 mL	10 mL	2 uL	0.1 uL		
STD 580-311485/6 IC		8260C		10 mL	10 mL	2 uL	0.2 uL		
STD 580-311485/7 IC		8260C		10 mL	10 mL	2 uL	0.5 uL		
STD 580-311485/8 IC		8260C		10 mL	10 mL	2 uL	1 uL		
STD 580-311485/9 IC		8260C		10 mL	10 mL	2 uL	5 uL		
ICIS 580-311485/10		8260C		10 mL	10 mL	2 uL	10 uL		
STD 580-311485/11 IC		8260C		10 mL	10 mL	2 uL	20 uL		
STD 580-311485/12 IC		8260C		10 mL	10 mL	2 uL	50 uL		
STD 580-311485/13 IC		8260C		10 mL	10 mL	2 uL	100 uL		
ICV 580-311485/15		8260C		10 mL	10 mL	2 uL		10 uL	

Batch Notes	
Vial Lot Number	0103701E

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Batch Number: 312585 Batch Start Date: 09/27/19 16:09 Batch Analyst: Overman, Derek S

Batch Method: 8260C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS/TFT 00011	VOAMasterMix 00043	
BFB 580-312585/2		8260C		10 mL	10 mL		2 uL		
CCVIS 580-312585/3		8260C		10 mL	10 mL		2 uL	10 uL	
LCS 580-312585/4		8260C		10 mL	10 mL		2 uL	5 uL	
LCS 580-312585/5		8260C		10 mL	10 mL		2 uL	5 uL	
MB 580-312585/7		8260C		10 mL	10 mL		2 uL		
580-89287-H-15	BD-2-W-190917	8260C	T	10 mL	10 mL	<2 SU	2 uL		
580-89287-D-16	Trip Blank 190917	8260C	T	10 mL	10 mL		2 uL		
580-89287-J-1	EQB-1-W-190917	8260C	T	10 mL	10 mL		2 uL		
580-89287-E-2	MW-4-W-190917	8260C	T	10 mL	10 mL	<2 SU	2 uL		
580-89287-G-3	MW-8-W-190917	8260C	T	10 mL	10 mL	<2 SU	2 uL		
580-89287-E-4	SP-3-W-190917	8260C	T	10 mL	10 mL	<2 SU	2 uL		
580-89287-G-5	SP-2-W-190917	8260C	T	10 mL	10 mL	<2 SU	2 uL		
580-89287-E-6	SP-1-W-190917	8260C	T	10 mL	10 mL	<2 SU	2 uL		
580-89287-E-7	MW-10-W-190917	8260C	T	10 mL	10 mL		2 uL		
580-89287-C-10	MW-6-W-190917	8260C	T	10 mL	10 mL		2 uL		
580-89287-D-9	MW-5-W-190917	8260C	T	10 mL	10 mL	<2 SU	2 uL		
580-89287-H-11	MW-1-W-190917	8260C	T	10 mL	10 mL	<2 SU	2 uL		
580-89287-J-12	MW-2-W-190917	8260C	T	10 mL	10 mL		2 uL		
580-89287-C-13	MW-3-W-190917	8260C	T	10 mL	10 mL		2 uL		
580-89287-D-14	BD-1-W-190917	8260C	T	10 mL	10 mL	<2 SU	2 uL		
580-89287-C-8	MW-7-W-190917	8260C	T	10 mL	10 mL		2 uL		

Batch Notes	
Vial Lot Number	0103701E

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Batch Number: 312662 Batch Start Date: 09/28/19 16:04 Batch Analyst: Overman, Derek S

Batch Method: 8260C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	5X SUR/IS/TFT 00011	VOAMasterMix 00043		
BFB 580-312662/2		8260C		10 mL	10 mL	2 uL			
CCVIS 580-312662/3		8260C		10 mL	10 mL	2 uL	10 uL		
LCS 580-312662/4		8260C		10 mL	10 mL	2 uL	5 uL		
LCS 580-312662/5		8260C		10 mL	10 mL	2 uL	5 uL		
CCVL 580-312662/6		8260C		10 mL	10 mL	2 uL	0.2 uL		
MB 580-312662/7		8260C		10 mL	10 mL	2 uL			
580-89287-K-1	EQB-1-W-190917	8260C	T	10 mL	10 mL	2 uL			
580-89287-H-10	MW-6-W-190917	8260C	T	10 mL	10 mL	2 uL			
580-89287-E-8	MW-7-W-190917	8260C	T	10 mL	10 mL	2 uL			
580-89287-E-13	MW-3-W-190917	8260C	T	10 mL	10 mL	2 uL			

Batch Notes	
Vial Lot Number	0103701E

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



# Method AK101

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Alaska - Gasoline Range Organics  
(GC) by Method AK101

FORM II  
GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): RTX-VRX ID: 0.45 (mm)

Client Sample ID	Lab Sample ID	TFT1 #	BFB1 #
EQB-1-W-190917	580-89287-1	118	97
MW-4-W-190917	580-89287-2	102	95
MW-8-W-190917	580-89287-3	101	96
SP-3-W-190917	580-89287-4	98	92
SP-2-W-190917	580-89287-5	117	98
SP-1-W-190917	580-89287-6	114	91
MW-10-W-190917	580-89287-7	114	97
MW-7-W-190917	580-89287-8	109	176 X
MW-5-W-190917	580-89287-9	109	99
MW-6-W-190917	580-89287-10	110	95
MW-1-W-190917	580-89287-11	143	99
MW-2-W-190917	580-89287-12	113	94
MW-3-W-190917	580-89287-13	111	146
BD-1-W-190917	580-89287-14	116	96
BD-2-W-190917	580-89287-15	112	93
Trip Blank_190917	580-89287-16	115	95
	MB 580-311813/7	98	86
	MB 580-311815/9	119	91
	LCS 580-311813/8	97	85
	LCS 580-311815/10	106	95
	LCSD 580-311813/9	94	91
	LCSD 580-311815/11	103	97

TFT = Trifluorotoluene (Surr)  
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS  
50-150  
50-150

# Column to be used to flag recovery values

FORM III  
 GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 09201908.D

Lab ID: LCS 580-311813/8 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Gasoline Range Organics (GRO) -C6-C10	1.00	0.899	90	77-123	

# Column to be used to flag recovery and RPD values

FORM III  
GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 09201908.D

Lab ID: LCS 580-311815/10 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Gasoline Range Organics (GRO) -C6-C10	1.00	0.989	99	77-123	

# Column to be used to flag recovery and RPD values

FORM III  
GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 09201909.D

Lab ID: LCSD 580-311813/9 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Gasoline Range Organics (GRO) -C6-C10	1.00	0.899	90	0	20	77-123	

# Column to be used to flag recovery and RPD values

FORM III  
 GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 09201909.D

Lab ID: LCSD 580-311815/11 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Gasoline Range Organics (GRO) -C6-C10	1.00	0.996	100	1	20	77-123	

# Column to be used to flag recovery and RPD values

FORM IV  
GASOLINE RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: MB 580-311813/7  
 Matrix: Water Date Extracted: 09/20/2019 12:32  
 Lab File ID: (1) 09201907.D Lab File ID: (2) \_\_\_\_\_  
 Date Analyzed: (1) 09/20/2019 12:32 Date Analyzed: (2) \_\_\_\_\_  
 Instrument ID: (1) SEA006 Instrument ID: (2) \_\_\_\_\_  
 GC Column: (1) RTX-VRX ID: 0.45 (mm) GC Column: (2) \_\_\_\_\_ ID: \_\_\_\_\_

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 580-311813/8	09/20/2019 12:56	
	LCSD 580-311813/9	09/20/2019 13:21	
MW-4-W-190917	580-89287-2	09/20/2019 16:12	
MW-8-W-190917	580-89287-3	09/20/2019 16:37	
SP-3-W-190917	580-89287-4	09/20/2019 17:01	

FORM IV  
GASOLINE RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: MB 580-311815/9  
 Matrix: Water Date Extracted: 09/20/2019 14:36  
 Lab File ID: (1) 09201907.D Lab File ID: (2) \_\_\_\_\_  
 Date Analyzed: (1) 09/20/2019 14:36 Date Analyzed: (2) \_\_\_\_\_  
 Instrument ID: (1) SEA047 Instrument ID: (2) \_\_\_\_\_  
 GC Column: (1) RTX-VRX ID: 0.45 (mm) GC Column: (2) \_\_\_\_\_ ID: \_\_\_\_\_

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 580-311815/10	09/20/2019 15:06	
	LCSD 580-311815/11	09/20/2019 15:36	
EQB-1-W-190917	580-89287-1	09/20/2019 16:07	
Trip Blank_190917	580-89287-16	09/20/2019 16:37	
SP-2-W-190917	580-89287-5	09/20/2019 20:10	
SP-1-W-190917	580-89287-6	09/20/2019 20:41	
MW-10-W-190917	580-89287-7	09/20/2019 21:11	
MW-1-W-190917	580-89287-11	09/20/2019 21:42	
MW-2-W-190917	580-89287-12	09/20/2019 22:12	
MW-3-W-190917	580-89287-13	09/20/2019 22:43	
BD-1-W-190917	580-89287-14	09/20/2019 23:13	
BD-2-W-190917	580-89287-15	09/20/2019 23:44	
MW-7-W-190917	580-89287-8	09/21/2019 00:44	
MW-5-W-190917	580-89287-9	09/21/2019 01:15	
MW-6-W-190917	580-89287-10	09/21/2019 01:45	



FORM VIII  
GASOLINE RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: STD1000 580-308501/8 Date Analyzed: 08/15/2019 18:30  
 Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm)  
 Lab File ID (Standard): 08151916.D Heated Purge: (Y/N) N  
 Calibration ID: 28102

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFT	BFB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				8.09	11.16	
UPPER LIMIT				8.14	11.21	
LOWER LIMIT				8.04	11.11	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD1000 580-308501/8 ICRT		08/15/2019 18:30	08151916.D	8.09	11.16	
ICV 580-308501/13		08/15/2019 20:30	08151921.D	8.09	11.16	

TFT = Trifluorotoluene (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)

TFT RT Limit = ± 0.05 minutes of surrogate RT  
 BFB RT Limit = ± 0.05 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII  
GASOLINE RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVRT 580-311813/6 Date Analyzed: 09/20/2019 12:08  
 Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm)  
 Lab File ID (Standard): 09201906.D Heated Purge: (Y/N) N  
 Calibration ID: 28102

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFT	BFB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				8.09	11.16	
UPPER LIMIT				8.14	11.21	
LOWER LIMIT				8.04	11.11	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-311813/6		09/20/2019 12:08	09201906.D	8.09	11.16	
MB 580-311813/7		09/20/2019 12:32	09201907.D	8.09	11.16	
LCS 580-311813/8		09/20/2019 12:56	09201908.D	8.08	11.16	
LCSD 580-311813/9		09/20/2019 13:21	09201909.D	8.09	11.16	
580-89287-2	MW-4-W-190917	09/20/2019 16:12	09201914.D	8.09	11.16	
580-89287-3	MW-8-W-190917	09/20/2019 16:37	09201915.D	8.09	11.16	
580-89287-4	SP-3-W-190917	09/20/2019 17:01	09201916.D	8.09	11.16	
CCV 580-311813/17		09/20/2019 17:25	09201917.D	8.09	11.16	

TFT = Trifluorotoluene (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)

TFT RT Limit = ± 0.05 minutes of surrogate RT  
 BFB RT Limit = ± 0.05 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII  
GASOLINE RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: STD1000 580-307784/8 Date Analyzed: 08/07/2019 15:38  
 Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm)  
 Lab File ID (Standard): 08071908.D Heated Purge: (Y/N) N  
 Calibration ID: 28085

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFT	BFB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				6.12	9.70	
UPPER LIMIT				6.17	9.75	
LOWER LIMIT				6.07	9.65	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD1000 580-307784/8 ICRT		08/07/2019 15:38	08071908.D	6.12	9.70	
ICV 580-307784/13		08/07/2019 18:10	08071913.D	6.12	9.70	

TFT = Trifluorotoluene (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)

TFT RT Limit = ± 0.05 minutes of surrogate RT  
 BFB RT Limit = ± 0.05 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII  
GASOLINE RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVRT 580-311815/8 Date Analyzed: 09/20/2019 12:31  
 Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm)  
 Lab File ID (Standard): 09201906.D Heated Purge: (Y/N) N  
 Calibration ID: 28085

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFT	BFB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				6.12	9.70	
UPPER LIMIT				6.17	9.75	
LOWER LIMIT				6.07	9.65	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-311815/8		09/20/2019 12:31	09201906.D	6.12	9.70	
MB 580-311815/9		09/20/2019 14:36	09201907.D	6.11	9.70	
LCS 580-311815/10		09/20/2019 15:06	09201908.D	6.12	9.70	
LCSD 580-311815/11		09/20/2019 15:36	09201909.D	6.12	9.70	
580-89287-1	EQB-1-W-190917	09/20/2019 16:07	09201910.D	6.11	9.70	
580-89287-16	Trip Blank_190917	09/20/2019 16:37	09201911.D	6.11	9.70	
CCV 580-311815/19		09/20/2019 19:40	09201917.D	6.12	9.70	
580-89287-5	SP-2-W-190917	09/20/2019 20:10	09201918.D	6.11	9.70	
580-89287-6	SP-1-W-190917	09/20/2019 20:41	09201919.D	6.11	9.70	
580-89287-7	MW-10-W-190917	09/20/2019 21:11	09201920.D	6.11	9.70	
580-89287-11	MW-1-W-190917	09/20/2019 21:42	09201921.D	6.11	9.70	
580-89287-12	MW-2-W-190917	09/20/2019 22:12	09201922.D	6.11	9.70	
580-89287-13	MW-3-W-190917	09/20/2019 22:43	09201923.D	6.11	9.69	
580-89287-14	BD-1-W-190917	09/20/2019 23:13	09201924.D	6.11	9.70	
580-89287-15	BD-2-W-190917	09/20/2019 23:44	09201925.D	6.11	9.70	
CCV 580-311815/28		09/21/2019 00:14	09201926.D	6.12	9.70	
580-89287-8	MW-7-W-190917	09/21/2019 00:44	09201927.D	6.11	9.69	
580-89287-9	MW-5-W-190917	09/21/2019 01:15	09201928.D	6.11	9.70	
580-89287-10	MW-6-W-190917	09/21/2019 01:45	09201929.D	6.11	9.70	
CCV 580-311815/32		09/21/2019 02:16	09201930.D	6.12	9.70	

TFT = Trifluorotoluene (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)

TFT RT Limit = ± 0.05 minutes of surrogate RT  
 BFB RT Limit = ± 0.05 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EQB-1-W-190917 Lab Sample ID: 580-89287-1  
 Matrix: Water Lab File ID: 09201910.D  
 Analysis Method: AK101 Date Collected: 09/17/2019 09:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 16:07  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311815 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	118		50-150
460-00-4	4-Bromofluorobenzene (Surr)	97		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-4-W-190917 Lab Sample ID: 580-89287-2  
 Matrix: Water Lab File ID: 09201914.D  
 Analysis Method: AK101 Date Collected: 09/17/2019 09:50  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 16:12  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311813 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	102		50-150
460-00-4	4-Bromofluorobenzene (Surr)	95		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-8-W-190917 Lab Sample ID: 580-89287-3  
 Matrix: Water Lab File ID: 09201915.D  
 Analysis Method: AK101 Date Collected: 09/17/2019 10:50  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 16:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311813 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.28		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	101		50-150
460-00-4	4-Bromofluorobenzene (Surr)	96		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SP-3-W-190917 Lab Sample ID: 580-89287-4  
 Matrix: Water Lab File ID: 09201916.D  
 Analysis Method: AK101 Date Collected: 09/17/2019 11:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 17:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311813 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	98		50-150
460-00-4	4-Bromofluorobenzene (Surr)	92		50-150



FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SP-2-W-190917 Lab Sample ID: 580-89287-5  
 Matrix: Water Lab File ID: 09201918.D  
 Analysis Method: AK101 Date Collected: 09/17/2019 11:10  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 20:10  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311815 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	117		50-150
460-00-4	4-Bromofluorobenzene (Surr)	98		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SP-1-W-190917 Lab Sample ID: 580-89287-6  
 Matrix: Water Lab File ID: 09201919.D  
 Analysis Method: AK101 Date Collected: 09/17/2019 11:20  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 20:41  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311815 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	114		50-150
460-00-4	4-Bromofluorobenzene (Surr)	91		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-10-W-190917 Lab Sample ID: 580-89287-7  
 Matrix: Water Lab File ID: 09201920.D  
 Analysis Method: AK101 Date Collected: 09/17/2019 12:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 21:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311815 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	114		50-150
460-00-4	4-Bromofluorobenzene (Surr)	97		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-7-W-190917 Lab Sample ID: 580-89287-8  
 Matrix: Water Lab File ID: 09201927.D  
 Analysis Method: AK101 Date Collected: 09/17/2019 12:45  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/21/2019 00:44  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311815 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	5.8		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	109		50-150
460-00-4	4-Bromofluorobenzene (Surr)	176	X	50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-5-W-190917 Lab Sample ID: 580-89287-9  
 Matrix: Water Lab File ID: 09201928.D  
 Analysis Method: AK101 Date Collected: 09/17/2019 13:20  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/21/2019 01:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311815 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.22	J	0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	109		50-150
460-00-4	4-Bromofluorobenzene (Surr)	99		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-6-W-190917 Lab Sample ID: 580-89287-10  
 Matrix: Water Lab File ID: 09201929.D  
 Analysis Method: AK101 Date Collected: 09/17/2019 14:20  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/21/2019 01:45  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311815 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	110		50-150
460-00-4	4-Bromofluorobenzene (Surr)	95		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-1-W-190917 Lab Sample ID: 580-89287-11  
 Matrix: Water Lab File ID: 09201921.D  
 Analysis Method: AK101 Date Collected: 09/17/2019 15:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 21:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311815 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.11	J	0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	143		50-150
460-00-4	4-Bromofluorobenzene (Surr)	99		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-2-W-190917 Lab Sample ID: 580-89287-12  
 Matrix: Water Lab File ID: 09201922.D  
 Analysis Method: AK101 Date Collected: 09/17/2019 15:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 22:12  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311815 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	113		50-150
460-00-4	4-Bromofluorobenzene (Surr)	94		50-150



FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3-W-190917 Lab Sample ID: 580-89287-13  
 Matrix: Water Lab File ID: 09201923.D  
 Analysis Method: AK101 Date Collected: 09/17/2019 16:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 22:43  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311815 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	4.0		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	111		50-150
460-00-4	4-Bromofluorobenzene (Surr)	146		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: BD-1-W-190917 Lab Sample ID: 580-89287-14  
 Matrix: Water Lab File ID: 09201924.D  
 Analysis Method: AK101 Date Collected: 09/17/2019 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 23:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311815 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	116		50-150
460-00-4	4-Bromofluorobenzene (Surr)	96		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: BD-2-W-190917 Lab Sample ID: 580-89287-15  
 Matrix: Water Lab File ID: 09201925.D  
 Analysis Method: AK101 Date Collected: 09/17/2019 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 23:44  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311815 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	112		50-150
460-00-4	4-Bromofluorobenzene (Surr)	93		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: Trip Blank\_190917 Lab Sample ID: 580-89287-16  
 Matrix: Water Lab File ID: 09201911.D  
 Analysis Method: AK101 Date Collected: 09/17/2019 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 16:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311815 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	115		50-150
460-00-4	4-Bromofluorobenzene (Surr)	95		50-150

FORM VI  
 GASOLINE RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 308501

SDG No.: \_\_\_\_\_

Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2019 16:53 Calibration End Date: 08/15/2019 20:06 Calibration ID: 28102

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-308501/12	08151920.D
Level 2	STD100 580-308501/11	08151919.D
Level 3	STD250 580-308501/10	08151918.D
Level 4	STD500 580-308501/9	08151917.D
Level 5	STD1000 580-308501/8	08151916.D
Level 6	STD5000 580-308501/7	08151915.D
Level 7	STD10000 580-308501/6	08151914.D
Level 8	STD15000 580-308501/5	08151913.D
Level 9	STD25000 580-308501/4	08151912.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Gasoline Range Organics (GRO)-C6-C10	8.761	8.761	8.761	8.761	8.761	8.761	8.761	8.761	8.761		5.879 - 11.643	8.761
Trifluorotoluene (Surr)	8.094	8.096	8.094	8.094	8.091	8.095	8.086	+++++	+++++		7.991 - 8.191	8.093
4-Bromofluorobenzene (Surr)	11.160	11.161	11.161	11.160	11.159	11.160	11.158	+++++	+++++		11.059 - 11.259	11.160

FORM VI  
 GASOLINE RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 308501

SDG No.: \_\_\_\_\_

Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2019 16:53 Calibration End Date: 08/15/2019 20:06 Calibration ID: 28102

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-308501/12	08151920.D
Level 2	STD100 580-308501/11	08151919.D
Level 3	STD250 580-308501/10	08151918.D
Level 4	STD500 580-308501/9	08151917.D
Level 5	STD1000 580-308501/8	08151916.D
Level 6	STD5000 580-308501/7	08151915.D
Level 7	STD10000 580-308501/6	08151914.D
Level 8	STD15000 580-308501/5	08151913.D
Level 9	STD25000 580-308501/4	08151912.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Gasoline Range Organics (GRO)-C6-C10	176145 148639 160997	163930 153311	161369 154860	149069 157139	Ave		158384.492		25.00	5.4		25.0				
Trifluorotoluene (Surr)	180420 172409 ++++	173802 178010	165263 213068	170465 ++++	Ave		179062.319		25.00	8.8		25.0				
4-Bromofluorobenzene (Surr)	151008 154901 ++++	151556 172725	148009 189748	151661 ++++	Ave		159944.220		25.00	9.7		25.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
 GASOLINE RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 308501

SDG No.: \_\_\_\_\_

Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2019 16:53 Calibration End Date: 08/15/2019 20:06 Calibration ID: 28102

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-308501/12	08151920.D
Level 2	STD100 580-308501/11	08151919.D
Level 3	STD250 580-308501/10	08151918.D
Level 4	STD500 580-308501/9	08151917.D
Level 5	STD1000 580-308501/8	08151916.D
Level 6	STD5000 580-308501/7	08151915.D
Level 7	STD10000 580-308501/6	08151914.D
Level 8	STD15000 580-308501/5	08151913.D
Level 9	STD25000 580-308501/4	08151912.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Gasoline Range Organics (GRO)-C6-C10	Ave	8807262 766557005	16393046 1548604554	40342362 2357081406	74534329 4024932908	148638687	50.0 5000	100 10000	250 15000	500 25000	1000
Trifluorotoluene (Surr)	Ave	3606948 26690771	6949296 42596473	9911829 +++++	13631777 +++++	17233986	20.0 150	40.0 200	60.0 +++++	80.0 +++++	100.0
4-Bromofluorobenzene (Surr)	Ave	30201684 34545020	30311282 37949682	29601801 +++++	30332214 +++++	30980225	200 200	200 200	200 +++++	200 +++++	200

Curve Type Legend:

Ave = Average

FORM VI  
 GASOLINE RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 307784

SDG No.: \_\_\_\_\_

Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2019 13:36 Calibration End Date: 08/07/2019 17:39 Calibration ID: 28085

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-307784/12	08071912.D
Level 2	STD100 580-307784/11	08071911.D
Level 3	STD250 580-307784/10	08071910.D
Level 4	STD500 580-307784/9	08071909.D
Level 5	STD1000 580-307784/8	08071908.D
Level 6	STD5000 580-307784/7	08071907.D
Level 7	STD10000 580-307784/6	08071906.D
Level 8	STD15000 580-307784/5	08071905.D
Level 9	STD25000 580-307784/4	08071904.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Gasoline Range Organics (GRO)-C6-C10	6.857	6.857	6.857	6.857	6.857	6.857	6.857	6.857	6.857		3.397 - 10.317	6.857
Trifluorotoluene (Surr)	6.123	6.123	6.120	6.117	6.120	6.120	6.120	+++++	+++++		6.017 - 6.217	6.120
4-Bromofluorobenzene (Surr)	9.703	9.707	9.703	9.700	9.703	9.700	+++++	+++++	+++++		9.600 - 9.800	9.703



FORM VI  
 GASOLINE RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 307784

SDG No.: \_\_\_\_\_

Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2019 13:36 Calibration End Date: 08/07/2019 17:39 Calibration ID: 28085

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-307784/12	08071912.D
Level 2	STD100 580-307784/11	08071911.D
Level 3	STD250 580-307784/10	08071910.D
Level 4	STD500 580-307784/9	08071909.D
Level 5	STD1000 580-307784/8	08071908.D
Level 6	STD5000 580-307784/7	08071907.D
Level 7	STD10000 580-307784/6	08071906.D
Level 8	STD15000 580-307784/5	08071905.D
Level 9	STD25000 580-307784/4	08071904.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Gasoline Range Organics (GRO)-C6-C10	12038 7405.3 7018.0	10491 6938.2	8445.9 7014.3	8009.6 7307.3	Lin1	294512.097	7072.33229			6.2			1.0000			0.9900
Trifluorotoluene (Surr)	9118.2 8225.4 ++++	8268.2 8293.6	8325.8 8172.3	7925.4 ++++	Ave		8332.71451			25.00	4.5	25.0				
4-Bromofluorobenzene (Surr)	5732.5 5914.6 ++++	5817.8 7214.3	5916.2 ++++	5615.7 ++++	Ave		6035.15667			25.00	9.8	25.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
 GASOLINE RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 307784

SDG No.: \_\_\_\_\_

Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/07/2019 13:36 Calibration End Date: 08/07/2019 17:39 Calibration ID: 28085

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-307784/12	08071912.D
Level 2	STD100 580-307784/11	08071911.D
Level 3	STD250 580-307784/10	08071910.D
Level 4	STD500 580-307784/9	08071909.D
Level 5	STD1000 580-307784/8	08071908.D
Level 6	STD5000 580-307784/7	08071907.D
Level 7	STD10000 580-307784/6	08071906.D
Level 8	STD15000 580-307784/5	08071905.D
Level 9	STD25000 580-307784/4	08071904.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Gasoline Range Organics (GRO)-C6-C10	Lin1	601881	1049146	2111487	4004795	7405266	50.0	100	250	500	1000
		34690981	70143084	109609904	175449772		5000	10000	15000	25000	
Trifluorotoluene (Surr)	Ave	182292	330597	499349	633778	822210	20.0	40.0	60.0	80.0	100.0
		1243549	1633802	++++	++++		150	200	++++	++++	
4-Bromofluorobenzene (Surr)	Ave	573249	581779	591617	561566	591458	100	100	100	100	100
		721425	++++	++++	++++		100	++++	++++	++++	

Curve Type Legend:

Ave = Average  
 Lin1 = Linear 1/conc

FORM VII  
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-308501/13 Calibration Date: 08/15/2019 20:30  
 Instrument ID: SEA006 Calib Start Date: 08/15/2019 16:53  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/15/2019 20:06  
 Lab File ID: 08151921.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline Range Organics (GRO)-C6-C10	Ave	158384	151145		954	1000	-4.6	25.0
Trifluorotoluene (Surr)	Ave	179062	177127		59.3	60.0	-1.1	25.0
4-Bromofluorobenzene (Surr)	Ave	159944	155930		195	200	-2.5	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-308501/13 Calibration Date: 08/15/2019 20:30  
 Instrument ID: SEA006 Calib Start Date: 08/15/2019 16:53  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/15/2019 20:06  
 Lab File ID: 08151921.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	8.76	5.88	11.64
Trifluorotoluene (Surr)	8.09	7.99	8.19
4-Bromofluorobenzene (Surr)	11.16	11.06	11.26

FORM VII  
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 580-311813/6 Calibration Date: 09/20/2019 12:08  
 Instrument ID: SEA006 Calib Start Date: 08/15/2019 16:53  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/15/2019 20:06  
 Lab File ID: 09201906.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline Range Organics (GRO)-C6-C10	Ave	158384	140285		886	1000	-11.4	25.0
Trifluorotoluene (Surr)	Ave	179062	158859		53.2	60.0	-11.3	25.0
4-Bromofluorobenzene (Surr)	Ave	159944	143436		179	200	-10.3	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 580-311813/6 Calibration Date: 09/20/2019 12:08  
 Instrument ID: SEA006 Calib Start Date: 08/15/2019 16:53  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/15/2019 20:06  
 Lab File ID: 09201906.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	8.76	5.87	11.64
Trifluorotoluene (Surr)	8.09	7.99	8.19
4-Bromofluorobenzene (Surr)	11.16	11.06	11.26

FORM VII  
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-311813/17 Calibration Date: 09/20/2019 17:25  
 Instrument ID: SEA006 Calib Start Date: 08/15/2019 16:53  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/15/2019 20:06  
 Lab File ID: 09201917.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline Range Organics (GRO)-C6-C10	Ave	158384	142595		900	1000	-10.0	25.0
Trifluorotoluene (Surr)	Ave	179062	172263		57.7	60.0	-3.8	25.0
4-Bromofluorobenzene (Surr)	Ave	159944	150210		188	200	-6.1	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-311813/17 Calibration Date: 09/20/2019 17:25  
 Instrument ID: SEA006 Calib Start Date: 08/15/2019 16:53  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/15/2019 20:06  
 Lab File ID: 09201917.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	8.76	5.87	11.64
Trifluorotoluene (Surr)	8.09	7.99	8.19
4-Bromofluorobenzene (Surr)	11.16	11.06	11.26



FORM VII  
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-307784/13 Calibration Date: 08/07/2019 18:10  
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39  
 Lab File ID: 08071913.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline Range Organics (GRO)-C6-C10	Lin1		6929		938	1000	-6.2	25.0
Trifluorotoluene (Surr)	Ave	8333	8556		61.6	60.0	2.7	25.0
4-Bromofluorobenzene (Surr)	Ave	6035	5916		98.0	100	-2.0	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-307784/13 Calibration Date: 08/07/2019 18:10  
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39  
 Lab File ID: 08071913.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.86	3.40	10.32
Trifluorotoluene (Surr)	6.12	6.02	6.22
4-Bromofluorobenzene (Surr)	9.70	9.60	9.80

FORM VII  
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 580-311815/8 Calibration Date: 09/20/2019 12:31  
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39  
 Lab File ID: 09201906.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline Range Organics (GRO)-C6-C10	Lin1		7090		961	1000	-3.9	25.0
Trifluorotoluene (Surr)	Ave	8333	8594		61.9	60.0	3.1	25.0
4-Bromofluorobenzene (Surr)	Ave	6035	5971		98.9	100	-1.1	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 580-311815/8 Calibration Date: 09/20/2019 12:31  
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39  
 Lab File ID: 09201906.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.86	3.39	10.34
Trifluorotoluene (Surr)	6.12	6.02	6.22
4-Bromofluorobenzene (Surr)	9.70	9.60	9.80

FORM VII  
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-311815/19 Calibration Date: 09/20/2019 19:40  
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39  
 Lab File ID: 09201917.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline Range Organics (GRO)-C6-C10	Lin1		6811		921	1000	-7.9	25.0
Trifluorotoluene (Surr)	Ave	8333	8414		60.6	60.0	1.0	25.0
4-Bromofluorobenzene (Surr)	Ave	6035	6058		100	100	0.4	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-311815/19 Calibration Date: 09/20/2019 19:40  
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39  
 Lab File ID: 09201917.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.86	3.39	10.34
Trifluorotoluene (Surr)	6.12	6.01	6.21
4-Bromofluorobenzene (Surr)	9.70	9.60	9.80

FORM VII  
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-311815/28 Calibration Date: 09/21/2019 00:14  
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39  
 Lab File ID: 09201926.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline Range Organics (GRO)-C6-C10	Lin1		7046		955	1000	-4.5	25.0
Trifluorotoluene (Surr)	Ave	8333	8905		64.1	60.0	6.9	25.0
4-Bromofluorobenzene (Surr)	Ave	6035	6010		99.6	100	-0.4	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-311815/28 Calibration Date: 09/21/2019 00:14  
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39  
 Lab File ID: 09201926.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.86	3.39	10.34
Trifluorotoluene (Surr)	6.12	6.01	6.21
4-Bromofluorobenzene (Surr)	9.70	9.60	9.80



FORM VII  
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-311815/32 Calibration Date: 09/21/2019 02:16  
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39  
 Lab File ID: 09201930.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline Range Organics (GRO)-C6-C10	Lin1		6841		926	1000	-7.4	25.0
Trifluorotoluene (Surr)	Ave	8333	8663		62.4	60.0	4.0	25.0
4-Bromofluorobenzene (Surr)	Ave	6035	5908		97.9	100	-2.1	25.0

FORM VII  
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-311815/32 Calibration Date: 09/21/2019 02:16  
 Instrument ID: SEA047 Calib Start Date: 08/07/2019 13:36  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 08/07/2019 17:39  
 Lab File ID: 09201930.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.86	3.39	10.34
Trifluorotoluene (Surr)	6.12	6.01	6.21
4-Bromofluorobenzene (Surr)	9.70	9.60	9.80

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-311813/7  
 Matrix: Water Lab File ID: 09201907.D  
 Analysis Method: AK101 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 12:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311813 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	98		50-150
460-00-4	4-Bromofluorobenzene (Surr)	86		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-311815/9  
 Matrix: Water Lab File ID: 09201907.D  
 Analysis Method: AK101 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 14:36  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311815 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	119		50-150
460-00-4	4-Bromofluorobenzene (Surr)	91		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-311813/8  
 Matrix: Water Lab File ID: 09201908.D  
 Analysis Method: AK101 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 12:56  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311813 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.899		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	97		50-150
460-00-4	4-Bromofluorobenzene (Surr)	85		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-311815/10  
 Matrix: Water Lab File ID: 09201908.D  
 Analysis Method: AK101 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 15:06  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311815 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.989		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	106		50-150
460-00-4	4-Bromofluorobenzene (Surr)	95		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-311813/9  
 Matrix: Water Lab File ID: 09201909.D  
 Analysis Method: AK101 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 13:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311813 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.899		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	94		50-150
460-00-4	4-Bromofluorobenzene (Surr)	91		50-150

FORM I  
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-311815/11  
 Matrix: Water Lab File ID: 09201909.D  
 Analysis Method: AK101 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 09/20/2019 15:36  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 311815 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.996		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	103		50-150
460-00-4	4-Bromofluorobenzene (Surr)	97		50-150



GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: SEA006 Start Date: 08/15/2019 15:44

Analysis Batch Number: 308501 End Date: 08/15/2019 20:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-308501/3		08/15/2019 15:44	1		RTX-VRX 0.45 (mm)
STD25000 580-308501/4 IC		08/15/2019 16:53	1	08151912.D	RTX-VRX 0.45 (mm)
STD15000 580-308501/5 IC		08/15/2019 17:17	1	08151913.D	RTX-VRX 0.45 (mm)
STD10000 580-308501/6 IC		08/15/2019 17:42	1	08151914.D	RTX-VRX 0.45 (mm)
STD5000 580-308501/7 IC		08/15/2019 18:06	1	08151915.D	RTX-VRX 0.45 (mm)
STD1000 580-308501/8 ICRT		08/15/2019 18:30	1	08151916.D	RTX-VRX 0.45 (mm)
STD500 580-308501/9 IC		08/15/2019 18:54	1	08151917.D	RTX-VRX 0.45 (mm)
STD250 580-308501/10 IC		08/15/2019 19:18	1	08151918.D	RTX-VRX 0.45 (mm)
STD100 580-308501/11 IC		08/15/2019 19:42	1	08151919.D	RTX-VRX 0.45 (mm)
STD50 580-308501/12 IC		08/15/2019 20:06	1	08151920.D	RTX-VRX 0.45 (mm)
ICV 580-308501/13		08/15/2019 20:30	1	08151921.D	RTX-VRX 0.45 (mm)

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: SEA006 Start Date: 09/20/2019 11:44

Analysis Batch Number: 311813 End Date: 09/21/2019 01:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-311813/5		09/20/2019 11:44	1	09201905.D	RTX-VRX 0.45 (mm)
CCVRT 580-311813/6		09/20/2019 12:08	1	09201906.D	RTX-VRX 0.45 (mm)
MB 580-311813/7		09/20/2019 12:32	1	09201907.D	RTX-VRX 0.45 (mm)
LCS 580-311813/8		09/20/2019 12:56	1	09201908.D	RTX-VRX 0.45 (mm)
LCSD 580-311813/9		09/20/2019 13:21	1	09201909.D	RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 15:00	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 15:24	1		RTX-VRX 0.45 (mm)
580-89287-2		09/20/2019 16:12	1	09201914.D	RTX-VRX 0.45 (mm)
580-89287-3		09/20/2019 16:37	1	09201915.D	RTX-VRX 0.45 (mm)
580-89287-4		09/20/2019 17:01	1	09201916.D	RTX-VRX 0.45 (mm)
CCV 580-311813/17		09/20/2019 17:25	1	09201917.D	RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 17:50	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 18:14	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 18:38	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 19:02	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 19:26	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 19:50	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 20:14	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 20:39	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 21:03	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 21:27	1		RTX-VRX 0.45 (mm)
CCV 580-311813/28		09/20/2019 21:52	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 22:16	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 22:41	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 23:05	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 23:29	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/20/2019 23:53	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/21/2019 00:17	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/21/2019 00:42	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/21/2019 01:06	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/21/2019 01:30	1		RTX-VRX 0.45 (mm)
CCV 580-311813/38		09/21/2019 01:54	1		RTX-VRX 0.45 (mm)

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: SEA047 Start Date: 08/07/2019 13:06

Analysis Batch Number: 307784 End Date: 08/07/2019 19:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-307784/3		08/07/2019 13:06	1		RTX-VRX 0.45 (mm)
STD25000 580-307784/4 IC		08/07/2019 13:36	1	08071904.D	RTX-VRX 0.45 (mm)
STD15000 580-307784/5 IC		08/07/2019 14:07	1	08071905.D	RTX-VRX 0.45 (mm)
STD10000 580-307784/6 IC		08/07/2019 14:37	1	08071906.D	RTX-VRX 0.45 (mm)
STD5000 580-307784/7 IC		08/07/2019 15:08	1	08071907.D	RTX-VRX 0.45 (mm)
STD1000 580-307784/8 ICRT		08/07/2019 15:38	1	08071908.D	RTX-VRX 0.45 (mm)
STD500 580-307784/9 IC		08/07/2019 16:08	1	08071909.D	RTX-VRX 0.45 (mm)
STD250 580-307784/10 IC		08/07/2019 16:39	1	08071910.D	RTX-VRX 0.45 (mm)
STD100 580-307784/11 IC		08/07/2019 17:09	1	08071911.D	RTX-VRX 0.45 (mm)
STD50 580-307784/12 IC		08/07/2019 17:39	1	08071912.D	RTX-VRX 0.45 (mm)
ICV 580-307784/13		08/07/2019 18:10	1	08071913.D	RTX-VRX 0.45 (mm)
ZZZZZ		08/07/2019 18:40	1		RTX-VRX 0.45 (mm)
ZZZZZ		08/07/2019 19:10	1		RTX-VRX 0.45 (mm)
ZZZZZ		08/07/2019 19:41	1		RTX-VRX 0.45 (mm)

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: SEA047 Start Date: 09/20/2019 12:01

Analysis Batch Number: 311815 End Date: 09/21/2019 02:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-311815/7		09/20/2019 12:01	1	09201905.D	RTX-VRX 0.45 (mm)
CCVRT 580-311815/8		09/20/2019 12:31	1	09201906.D	RTX-VRX 0.45 (mm)
MB 580-311815/9		09/20/2019 14:36	1	09201907.D	RTX-VRX 0.45 (mm)
LCS 580-311815/10		09/20/2019 15:06	1	09201908.D	RTX-VRX 0.45 (mm)
LCSD 580-311815/11		09/20/2019 15:36	1	09201909.D	RTX-VRX 0.45 (mm)
580-89287-1		09/20/2019 16:07	1	09201910.D	RTX-VRX 0.45 (mm)
580-89287-16		09/20/2019 16:37	1	09201911.D	RTX-VRX 0.45 (mm)
CCV 580-311815/19		09/20/2019 19:40	1	09201917.D	RTX-VRX 0.45 (mm)
580-89287-5		09/20/2019 20:10	1	09201918.D	RTX-VRX 0.45 (mm)
580-89287-6		09/20/2019 20:41	1	09201919.D	RTX-VRX 0.45 (mm)
580-89287-7		09/20/2019 21:11	1	09201920.D	RTX-VRX 0.45 (mm)
580-89287-11		09/20/2019 21:42	1	09201921.D	RTX-VRX 0.45 (mm)
580-89287-12		09/20/2019 22:12	1	09201922.D	RTX-VRX 0.45 (mm)
580-89287-13		09/20/2019 22:43	1	09201923.D	RTX-VRX 0.45 (mm)
580-89287-14		09/20/2019 23:13	1	09201924.D	RTX-VRX 0.45 (mm)
580-89287-15		09/20/2019 23:44	1	09201925.D	RTX-VRX 0.45 (mm)
CCV 580-311815/28		09/21/2019 00:14	1	09201926.D	RTX-VRX 0.45 (mm)
580-89287-8		09/21/2019 00:44	1	09201927.D	RTX-VRX 0.45 (mm)
580-89287-9		09/21/2019 01:15	1	09201928.D	RTX-VRX 0.45 (mm)
580-89287-10		09/21/2019 01:45	1	09201929.D	RTX-VRX 0.45 (mm)
CCV 580-311815/32		09/21/2019 02:16	1	09201930.D	RTX-VRX 0.45 (mm)

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Batch Number: 307784 Batch Start Date: 08/07/19 13:06 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: 08/14/19 14:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BFBGRO ARCHON 00034	GRO BTEXBlend 00010	GRO_LCS 00054	Methanol 1L 00032
STD25000 580-307784/4 IC		AK101		5 mL	5 mL	1 uL		1250 uL	1250 uL
STD15000 580-307784/5 IC		AK101		5 mL	5 mL	1 uL		750 uL	1750 uL
STD10000 580-307784/6 IC		AK101		5 mL	5 mL	1 uL		500 uL	2000 uL
STD5000 580-307784/7 IC		AK101		5 mL	5 mL	1 uL		250 uL	2250 uL
STD1000 580-307784/8 ICRT		AK101		5 mL	5 mL	1 uL		50 uL	2450 uL
STD500 580-307784/9 IC		AK101		5 mL	5 mL	1 uL		25 uL	2475 uL
STD250 580-307784/10 IC		AK101		5 mL	5 mL	1 uL		12.5 uL	2500 uL
STD100 580-307784/11 IC		AK101		5 mL	5 mL	1 uL		5 uL	2500 uL
STD50 580-307784/12 IC		AK101		5 mL	5 mL	1 uL		2.5 uL	2500 uL
ICV 580-307784/13		AK101		5 mL	5 mL	1 uL	50 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00037				
STD25000 580-307784/4 IC		AK101		1 uL					
STD15000 580-307784/5 IC		AK101		1 uL					
STD10000 580-307784/6 IC		AK101		50 uL					
STD5000 580-307784/7 IC		AK101		37.5 uL					
STD1000 580-307784/8 ICRT		AK101		25 uL					
STD500 580-307784/9 IC		AK101		20 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Batch Number: 307784 Batch Start Date: 08/07/19 13:06 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: 08/14/19 14:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00037				
STD250 580-307784/10 IC		AK101		15 uL					
STD100 580-307784/11 IC		AK101		10 uL					
STD50 580-307784/12 IC		AK101		5 uL					
ICV 580-307784/13		AK101			2500 uL				

Batch Notes	
Pipette/Syringe/Dispenser ID	C25I, B50M, B100S, A500V, A1000X, C2500J
Vial Lot Number	0103701E

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Batch Number: 308501 Batch Start Date: 08/15/19 15:44 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BFBGRO ARCHON 00034	GRO BTEXBlend 00010	GRO_LCS 00054	Methanol 1L 00032
STD25000 580-308501/4 IC		AK101		5 mL	5 mL	2 uL		1250 uL	1250 uL
STD15000 580-308501/5 IC		AK101		5 mL	5 mL	2 uL		750 uL	1750 uL
STD10000 580-308501/6 IC		AK101		5 mL	5 mL	2 uL		500 uL	2000 uL
STD5000 580-308501/7 IC		AK101		5 mL	5 mL	2 uL		250 uL	2250 uL
STD1000 580-308501/8 ICRT		AK101		5 mL	5 mL	2 uL		50 uL	2450 uL
STD500 580-308501/9 IC		AK101		5 mL	5 mL	2 uL		25 uL	2450 uL
STD250 580-308501/10 IC		AK101		5 mL	5 mL	2 uL		12.5 uL	2500 uL
STD100 580-308501/11 IC		AK101		5 mL	5 mL	2 uL		5 uL	2500 uL
STD50 580-308501/12 IC		AK101		5 mL	5 mL	2 uL		2.5 uL	2500 uL
ICV 580-308501/13		AK101		5 mL	5 mL	2 uL	50 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00037				
STD25000 580-308501/4 IC		AK101		1 uL					
STD15000 580-308501/5 IC		AK101		1 uL					
STD10000 580-308501/6 IC		AK101		50 uL					
STD5000 580-308501/7 IC		AK101		37.5 uL					
STD1000 580-308501/8 ICRT		AK101		25 uL					
STD500 580-308501/9 IC		AK101		20 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Batch Number: 308501 Batch Start Date: 08/15/19 15:44 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00037				
STD250 580-308501/10 IC		AK101		15 uL					
STD100 580-308501/11 IC		AK101		10 uL					
STD50 580-308501/12 IC		AK101		5 uL					
ICV 580-308501/13		AK101			2500 uL				

Batch Notes	
Pipette/Syringe/Dispenser ID	C25I, B50M, B100S, A500V, A1000X, C2500J
Vial Lot Number	0103701E

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Batch Number: 311813 Batch Start Date: 09/20/19 11:44 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFBGRO ARCHON 00036	GRO_LCS 00056	RT_GRO_CUS 00021
RTC 580-311813/5		AK101		5 mL	5 mL		2 uL		11 uL
CCVRT 580-311813/6		AK101		5 mL	5 mL		2 uL	25 uL	
MB 580-311813/7		AK101		5 mL	5 mL		2 uL		
LCS 580-311813/8		AK101		5 mL	5 mL		2 uL	25 uL	
LCSD 580-311813/9		AK101		5 mL	5 mL		2 uL	25 uL	
580-89287-F-2	MW-4-W-190917	AK101	T	5 mL	5 mL	<2.0 SU	2 uL		
580-89287-F-3	MW-8-W-190917	AK101	T	5 mL	5 mL	<2.0 SU	2 uL		
580-89287-F-4	SP-3-W-190917	AK101	T	5 mL	5 mL	<2.0 SU	2 uL		
CCV 580-311813/17		AK101		5 mL	5 mL		2 uL	25 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00040				
RTC 580-311813/5		AK101			1250 uL				
CCVRT 580-311813/6		AK101			1250 uL				
MB 580-311813/7		AK101		10.75 uL					
LCS 580-311813/8		AK101			1250 uL				
LCSD 580-311813/9		AK101			1250 uL				
580-89287-F-2	MW-4-W-190917	AK101	T	10.75 uL					
580-89287-F-3	MW-8-W-190917	AK101	T	10.75 uL					
580-89287-F-4	SP-3-W-190917	AK101	T	10.75 uL					
CCV 580-311813/17		AK101			1250 uL				

Batch Notes	
pH Indicator ID	pH0.0-6.0 lot#6901002
Pipette/Syringe/Dispenser ID	B50N, C25K, C2500o
Vial Lot Number	0103701E

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Batch Number: 311813 Batch Start Date: 09/20/19 11:44 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: \_\_\_\_\_

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Batch Number: 311815 Batch Start Date: 09/20/19 12:01 Batch Analyst: Vaughan, Dmiitra C

Batch Method: AK101 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFBGRO ARCHON 00034	GRO_LCS 00056	RT_GRO_CUS 00021
RTC 580-311815/7		AK101		5 mL	5 mL		1 uL		22 uL
CCVRT 580-311815/8		AK101		5 mL	5 mL		1 uL	25 uL	
MB 580-311815/9		AK101		5 mL	5 mL		1 uL		
LCS 580-311815/10		AK101		5 mL	5 mL		1 uL	25 uL	
LCS 580-311815/11		AK101		5 mL	5 mL		1 uL	25 uL	
580-89287-I-1	EQB-1-W-190917	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
580-89287-C-16	Trip Blank	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
CCV 580-311815/19		AK101		5 mL	5 mL		1 uL	25 uL	
580-89287-F-5	SP-2-W-190917	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
580-89287-F-6	SP-1-W-190917	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
580-89287-F-7	MW-10-W-190917	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
580-89287-C-11	MW-1-W-190917	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
580-89287-I-12	MW-2-W-190917	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
580-89287-D-13	MW-3-W-190917	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
580-89287-C-14	BD-1-W-190917	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
580-89287-E-15	BD-2-W-190917	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
CCV 580-311815/28		AK101		5 mL	5 mL		1 uL	25 uL	
580-89287-F-8	MW-7-W-190917	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
580-89287-C-9	MW-5-W-190917	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
580-89287-D-10	MW-6-W-190917	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
CCV 580-311815/32		AK101		5 mL	5 mL		1 uL	25 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00040				
RTC 580-311815/7		AK101			1250 uL				
CCVRT 580-311815/8		AK101			1250 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Batch Number: 311815 Batch Start Date: 09/20/19 12:01 Batch Analyst: Vaughan, Dmiitra C

Batch Method: AK101 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00040			
MB 580-311815/9		AK101		10.75 uL				
LCS 580-311815/10		AK101			1250 uL			
LCSD 580-311815/11		AK101			1250 uL			
580-89287-I-1	EQB-1-W-190917	AK101	T	10.75 uL				
580-89287-C-16	Trip Blank	AK101	T	10.75 uL				
CCV 580-311815/19		AK101			1250 uL			
580-89287-F-5	SP-2-W-190917	AK101	T	10.75 uL				
580-89287-F-6	SP-1-W-190917	AK101	T	10.75 uL				
580-89287-F-7	MW-10-W-190917	AK101	T	10.75 uL				
580-89287-C-11	MW-1-W-190917	AK101	T	10.75 uL				
580-89287-I-12	MW-2-W-190917	AK101	T	10.75 uL				
580-89287-D-13	MW-3-W-190917	AK101	T	10.75 uL				
580-89287-C-14	BD-1-W-190917	AK101	T	10.75 uL				
580-89287-E-15	BD-2-W-190917	AK101	T	10.75 uL				
CCV 580-311815/28		AK101			1250 uL			
580-89287-F-8	MW-7-W-190917	AK101	T	10.75 uL				
580-89287-C-9	MW-5-W-190917	AK101	T	10.75 uL				
580-89287-D-10	MW-6-W-190917	AK101	T	10.75 uL				
CCV 580-311815/32		AK101			1250 uL			

Batch Notes	
pH Indicator ID	pH0.0-6.0 LOT#6901002
Pipette/Syringe/Dispenser ID	B50N, C25K, C25000
Vial Lot Number	0103701E

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Method 8011

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**EDB, DBCP, and 1,2,3-TCP (GC) by  
Method 8011**

FORM II  
GC SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water

Level: Low

GC Column (1): ZB-624short ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	12DBP1 #
MW-10-W-190917	580-89287-7	113
MW-7-W-190917	580-89287-8	168 X
MW-6-W-190917	580-89287-10	104
MW-2-W-190917	580-89287-12	111
MW-3-W-190917	580-89287-13	128
	MB 580-312652/3-A	91
	LCS 580-312652/4-A	123
	LCSD 580-312652/5-A	105
	LLCS 580-312652/6-A	108

12DBP = 1,2-Dibromopropane

QC LIMITS  
60-140

# Column to be used to flag recovery values

FORM II 8011

FORM III  
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 46I093019a006.D

Lab ID: LCS 580-312652/4-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,2,3-Trichloropropane	0.0571	0.0486	85	60-140	
Ethylene Dibromide	0.0571	0.0594	104	60-140	

# Column to be used to flag recovery and RPD values

FORM III  
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 46I093019a007.D

Lab ID: LCS D 580-312652/5-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS D CONCENTRATION (ug/L)	LCS D % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,2,3-Trichloropropane	0.0571	0.0562	98	14	20	60-140	
Ethylene Dibromide	0.0571	0.0620	108	4	20	60-140	

# Column to be used to flag recovery and RPD values



FORM III  
GC SEMI VOA LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 46I093019a008.D  
 Lab ID: LLCS 580-312652/6-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
1,2,3-Trichloropropane	0.0114	0.0160 J	140	60-140	
Ethylene Dibromide	0.0114	0.0242	211	60-140	*

# Column to be used to flag recovery and RPD values

FORM IV  
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: MB 580-312652/3-A  
 Matrix: Water Date Extracted: 09/28/2019 15:07  
 Lab File ID: (1) 46I093019a005.D Lab File ID: (2) 46I093019a005.D  
 Date Analyzed: (1) 09/30/2019 13:59 Date Analyzed: (2) 09/30/2019 13:59  
 Instrument ID: (1) TAC046 Instrument ID: (2) TAC046  
 GC Column: (1) ZB-624short ID: 0.18 (mm) GC Column: (2) RTX-VRX ID: 0.45 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1		DATE ANALYZED 2	
	LCS 580-312652/4-A	09/30/2019	14:16	09/30/2019	14:16
	LCSD 580-312652/5-A	09/30/2019	14:32	09/30/2019	14:32
	LLCS 580-312652/6-A	09/30/2019	14:49	09/30/2019	14:49
MW-10-W-190917	580-89287-7	09/30/2019	19:06	09/30/2019	19:06
MW-7-W-190917	580-89287-8	09/30/2019	19:22	09/30/2019	19:22
MW-6-W-190917	580-89287-10	09/30/2019	19:54	09/30/2019	19:54
MW-2-W-190917	580-89287-12	09/30/2019	20:10	09/30/2019	20:10
MW-3-W-190917	580-89287-13	09/30/2019	20:26	09/30/2019	20:26

FORM X  
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-7-W-190917 Lab Sample ID: 580-89287-8  
 Instrument ID (1): TAC046 Instrument ID (2): TAC046  
 Date Analyzed (1): 09/30/2019 19:22 Date Analyzed (2): 09/30/2019 19:22  
 GC Column (1): ZB-624short ID: 0.18(mm) GC Column (2): RTX-VRX ID: 0.45(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
1,2,3-Trichloropropane	1		5.48	5.46	5.52	0.24		23.2
	2		5.36	5.32	5.38	0.30		

FORM X  
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3-W-190917 Lab Sample ID: 580-89287-13  
 Instrument ID (1): TAC046 Instrument ID (2): TAC046  
 Date Analyzed (1): 09/30/2019 20:26 Date Analyzed (2): 09/30/2019 20:26  
 GC Column (1): ZB-624short ID: 0.18(mm) GC Column (2): RTX-VRX ID: 0.45(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
1,2,3-Trichloropropane	1		5.48	5.46	5.52	0.078		44.6
	2		5.36	5.32	5.38	0.12		

FORM X  
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-312652/4-A  
 Instrument ID (1): TAC046 Instrument ID (2): TAC046  
 Date Analyzed (1): 09/30/2019 14:16 Date Analyzed (2): 09/30/2019 14:16  
 GC Column (1): ZB-624short ID: 0.18(mm) GC Column (2): RTX-VRX ID: 0.45(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Ethylene Dibromide	1		4.79	4.76	4.82	0.0594		6.1
	2		4.75	4.72	4.78	0.0559		
1,2,3-Trichloropropane	1		5.49	5.46	5.52	0.0486		18.8
	2		5.36	5.32	5.38	0.0403		

FORM X  
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-312652/5-A  
 Instrument ID (1): TAC046 Instrument ID (2): TAC046  
 Date Analyzed (1): 09/30/2019 14:32 Date Analyzed (2): 09/30/2019 14:32  
 GC Column (1): ZB-624short ID: 0.18(mm) GC Column (2): RTX-VRX ID: 0.45(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Ethylene Dibromide	1		4.79	4.76	4.82	0.0620		0.7
	2		4.75	4.72	4.78	0.0624		
1,2,3-Trichloropropane	1		5.49	5.46	5.52	0.0562		20.2
	2		5.36	5.32	5.38	0.0459		

FORM X  
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LLCS 580-312652/6-A  
 Instrument ID (1): TAC046 Instrument ID (2): TAC046  
 Date Analyzed (1): 09/30/2019 14:49 Date Analyzed (2): 09/30/2019 14:49  
 GC Column (1): ZB-624short ID: 0.18(mm) GC Column (2): RTX-VRX ID: 0.45(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Ethylene Dibromide	1		4.79	4.76	4.82	0.0242		26.9
	2		4.75	4.72	4.78	0.0184		
1,2,3-Trichloropropane	1		5.49	5.46	5.52	0.0160		36.7
	2		5.36	5.32	5.38	0.0110		

FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-10-W-190917 Lab Sample ID: 580-89287-7  
 Matrix: Water Lab File ID: 46I093019a024.D  
 Analysis Method: 8011 Date Collected: 09/17/2019 12:00  
 Extraction Method: 8011 Date Extracted: 09/28/2019 15:57  
 Sample wt/vol: 35.3 (mL) Date Analyzed: 09/30/2019 19:06  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 312767 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	ND		0.030	0.0079
106-93-4	Ethylene Dibromide	ND	*	0.0099	0.0020

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	113		60-140



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-7-W-190917 Lab Sample ID: 580-89287-8  
 Matrix: Water Lab File ID: 46I093019a025.D  
 Analysis Method: 8011 Date Collected: 09/17/2019 12:45  
 Extraction Method: 8011 Date Extracted: 09/28/2019 15:57  
 Sample wt/vol: 35.5 (mL) Date Analyzed: 09/30/2019 19:22  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 312767 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	0.24		0.030	0.0079
106-93-4	Ethylene Dibromide	ND	*	0.0099	0.0020

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	168	X	60-140

FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-6-W-190917 Lab Sample ID: 580-89287-10  
 Matrix: Water Lab File ID: 46I093019a027.D  
 Analysis Method: 8011 Date Collected: 09/17/2019 14:20  
 Extraction Method: 8011 Date Extracted: 09/28/2019 15:57  
 Sample wt/vol: 34.8 (mL) Date Analyzed: 09/30/2019 19:54  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 312767 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	ND		0.030	0.0080
106-93-4	Ethylene Dibromide	ND	*	0.010	0.0020

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	104		60-140

FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-2-W-190917 Lab Sample ID: 580-89287-12  
 Matrix: Water Lab File ID: 46I093019a028.D  
 Analysis Method: 8011 Date Collected: 09/17/2019 15:30  
 Extraction Method: 8011 Date Extracted: 09/28/2019 15:57  
 Sample wt/vol: 35.7(mL) Date Analyzed: 09/30/2019 20:10  
 Con. Extract Vol.: 2(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: ZB-624short ID: 0.18(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 312767 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	ND		0.029	0.0078
106-93-4	Ethylene Dibromide	ND	*	0.0098	0.0020

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	111		60-140

FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3-W-190917 Lab Sample ID: 580-89287-13  
 Matrix: Water Lab File ID: 46I093019a029.D  
 Analysis Method: 8011 Date Collected: 09/17/2019 16:00  
 Extraction Method: 8011 Date Extracted: 09/28/2019 15:57  
 Sample wt/vol: 35.6(mL) Date Analyzed: 09/30/2019 20:26  
 Con. Extract Vol.: 2(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: ZB-624short ID: 0.18(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 312767 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	0.078		0.029	0.0079
106-93-4	Ethylene Dibromide	ND	*	0.0098	0.0020

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	128		60-140

FORM VI  
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311558

SDG No.: \_\_\_\_\_

Instrument ID: TAC046 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 13:10 Calibration End Date: 09/18/2019 15:23 Calibration ID: 28238

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311558/3	46I091819a005.D
Level 2	IC 580-311558/4	46I091819a006.D
Level 3	IC 580-311558/5	46I091819a007.D
Level 4	IC 580-311558/6	46I091819a008.D
Level 5	IC 580-311558/7	46I091819a009.D
Level 6	ICIS 580-311558/8	46I091819a010.D
Level 7	IC 580-311558/9	46I091819a011.D
Level 8	IC 580-311558/10	46I091819a012.D
Level 9	IC 580-311558/11	46I091819a013.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	RT WINDOW	AVG RT
Ethylene Dibromide	4.793	4.791	4.792	4.791	4.790	4.790	4.791	4.791	4.791	4.762 - 4.822	4.791
1,2,3-Trichloropropane	+++++	+++++	5.487	5.489	5.487	5.487	5.488	5.488	5.487	5.457 - 5.517	5.488
1,2-Dibromo-3-Chloropropane	6.609	6.605	6.606	6.603	6.605	6.604	6.604	6.605	6.605	6.576 - 6.636	6.605
1,2-Dibromopropane	5.056	5.057	5.056	5.056	5.055	5.055	5.056	5.056	5.056	5.026 - 5.086	5.056

FORM VI  
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311558

SDG No.: \_\_\_\_\_

Instrument ID: TAC046 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 13:10 Calibration End Date: 09/18/2019 15:23 Calibration ID: 28238

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311558/3	46I091819a005.D
Level 2	IC 580-311558/4	46I091819a006.D
Level 3	IC 580-311558/5	46I091819a007.D
Level 4	IC 580-311558/6	46I091819a008.D
Level 5	IC 580-311558/7	46I091819a009.D
Level 6	ICIS 580-311558/8	46I091819a010.D
Level 7	IC 580-311558/9	46I091819a011.D
Level 8	IC 580-311558/10	46I091819a012.D
Level 9	IC 580-311558/11	46I091819a013.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Ethylene Dibromide	5280179 2842795 2202546	4396611 2487038	4316973 2355210	3792352 2255702	Lin1	186259.650	2222413.32			17.2			0.9980			0.9900
1,2,3-Trichloropropane	++++ 247980 180682	++++ 224730	179648 220439	234234 196176	LinF		185950.561			20.9			0.9940			0.9900
1,2-Dibromo-3-Chloropropane	3406968 3252830 3040039	3708770 3220606	4139266 3232347	3802912 3129481	Lin1	58303.2282	3091738.03			13.1			0.9990			0.9900
1,2-Dibromopropane	2677050 1928800 1822931	2638536 1877686	2592515 1661070	2549314 1759160	Lin	16942.9682	1802915.97			29.9			0.9990			0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311558

SDG No.: \_\_\_\_\_

Instrument ID: TAC046 GC Column: ZB-624short ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 13:10 Calibration End Date: 09/18/2019 15:23 Calibration ID: 28238

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311558/3	46I091819a005.D
Level 2	IC 580-311558/4	46I091819a006.D
Level 3	IC 580-311558/5	46I091819a007.D
Level 4	IC 580-311558/6	46I091819a008.D
Level 5	IC 580-311558/7	46I091819a009.D
Level 6	ICIS 580-311558/8	46I091819a010.D
Level 7	IC 580-311558/9	46I091819a011.D
Level 8	IC 580-311558/10	46I091819a012.D
Level 9	IC 580-311558/11	46I091819a013.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Ethylene Dibromide	Lin1	265989	310071	434935	668639	1432058	0.0504	0.0705	0.101	0.176	0.504
		2505691	5932184	11363100	22190654		1.01	2.52	5.04	10.1	
1,2,3-Trichloropropane	LinF	++++	++++	17875	40786	123370	++++	++++	0.0995	0.174	0.498
		223606	548343	975974	1797783		0.995	2.49	4.98	9.95	
1,2-Dibromo-3-Chloropropane	Lin1	171626	261561	417031	670501	1638613	0.0504	0.0705	0.101	0.176	0.504
		3244761	8141473	15764763	30628391		1.01	2.52	5.04	10.1	
1,2-Dibromopropane	Lin	267705	369395	518503	892260	1928800	0.100	0.140	0.200	0.350	1.00
		3755371	8305350	17591601	36458612		2.00	5.00	10.0	20.0	

Curve Type Legend:

Lin = Linear
Lin1 = Linear 1/conc
LinF = Linear forced zero

FORM VI  
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311558

SDG No.: \_\_\_\_\_

Instrument ID: TAC046 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 13:10 Calibration End Date: 09/18/2019 15:23 Calibration ID: 28239

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311558/3	46I091819a005.D
Level 2	IC 580-311558/4	46I091819a006.D
Level 3	IC 580-311558/5	46I091819a007.D
Level 4	IC 580-311558/6	46I091819a008.D
Level 5	IC 580-311558/7	46I091819a009.D
Level 6	ICIS 580-311558/8	46I091819a010.D
Level 7	IC 580-311558/9	46I091819a011.D
Level 8	IC 580-311558/10	46I091819a012.D
Level 9	IC 580-311558/11	46I091819a013.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	RT WINDOW	AVG RT
Ethylene Dibromide	4.752	4.749	4.750	4.751	4.750	4.750	4.750	4.751	4.751	4.720 - 4.780	4.750
1,2,3-Trichloropropane	+++++	+++++	5.355	5.356	5.356	5.354	5.354	5.355	5.356	5.325 - 5.385	5.355
1,2-Dibromo-3-Chloropropane	6.440	6.440	6.440	6.441	6.439	6.439	6.436	6.440	6.440	6.410 - 6.470	6.439
1,2-Dibromopropane	5.062	5.062	5.062	5.062	5.061	5.061	5.062	5.062	5.062	5.032 - 5.092	5.062



FORM VI  
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311558

SDG No.: \_\_\_\_\_

Instrument ID: TAC046 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 13:10 Calibration End Date: 09/18/2019 15:23 Calibration ID: 28239

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311558/3	46I091819a005.D
Level 2	IC 580-311558/4	46I091819a006.D
Level 3	IC 580-311558/5	46I091819a007.D
Level 4	IC 580-311558/6	46I091819a008.D
Level 5	IC 580-311558/7	46I091819a009.D
Level 6	ICIS 580-311558/8	46I091819a010.D
Level 7	IC 580-311558/9	46I091819a011.D
Level 8	IC 580-311558/10	46I091819a012.D
Level 9	IC 580-311558/11	46I091819a013.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Ethylene Dibromide	2945151 2408437 2348368	2718738 2565997	3272020 2296977	3100052 2338317	LinF		2346072.52			21.2			1.0000			0.9900
1,2,3-Trichloropropane	++++ 228197 193606	++++ 218580	244442 198113	210808 178962	Lin	7708.50353	190191.032			11.1			0.9980			0.9900
1,2-Dibromo-3-Chloropropane	570759 2897580 3393795	1637065 3303846	2015404 3415885	3091244 3401390	Lin2	-137347.57	3449736.52			6.0			0.9950			0.9900
1,2-Dibromopropane	4017980 2101386 2090088	3212664 2106357	3799170 1931138	3410903 2138154	Lin1	233908.031	2058600.95			20.8			0.9970			0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1 Analy Batch No.: 311558

SDG No.: \_\_\_\_\_

Instrument ID: TAC046 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/18/2019 13:10 Calibration End Date: 09/18/2019 15:23 Calibration ID: 28239

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-311558/3	46I091819a005.D
Level 2	IC 580-311558/4	46I091819a006.D
Level 3	IC 580-311558/5	46I091819a007.D
Level 4	IC 580-311558/6	46I091819a008.D
Level 5	IC 580-311558/7	46I091819a009.D
Level 6	ICIS 580-311558/8	46I091819a010.D
Level 7	IC 580-311558/9	46I091819a011.D
Level 8	IC 580-311558/10	46I091819a012.D
Level 9	IC 580-311558/11	46I091819a013.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Ethylene Dibromide	LinF	148362	191739	329656	546578	1213250	0.0504	0.0705	0.101	0.176	0.504
		2585242	5785510	11779273	23659807		1.01	2.52	5.04	10.1	
1,2,3-Trichloropropane	Lin	++++	++++	24322	36707	113528	++++	++++	0.0995	0.174	0.498
		217487	492805	890334	1926379		0.995	2.49	4.98	9.95	
1,2-Dibromo-3-Chloropropane	Lin2	28752	115454	203052	545025	1459656	0.0504	0.0705	0.101	0.176	0.504
		3328625	8603760	17134503	34192483		1.01	2.52	5.04	10.1	
1,2-Dibromopropane	Lin1	401798	449773	759834	1193816	2101386	0.100	0.140	0.200	0.350	1.00
		4212713	9655689	21381540	41801754		2.00	5.00	10.0	20.0	

Curve Type Legend:

Lin = Linear
Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2
LinF = Linear forced zero

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-311558/12 Calibration Date: 09/18/2019 15:39  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I091819a014.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		2306300		0.954	1.00	-4.6	20.0
1,2,3-Trichloropropane	LinF		222068		1.19	1.00	19.4	20.0
1,2-Dibromo-3-Chloropropane	Lin1		2975642		0.944	1.00	-5.6	20.0
1,2-Dibromopropane	Lin		1977024		2.18	2.00	9.2	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-311558/12 Calibration Date: 09/18/2019 15:39  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I091819a014.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.79	4.76	4.82
1,2,3-Trichloropropane	5.49	5.46	5.52
1,2-Dibromo-3-Chloropropane	6.61	6.57	6.63
1,2-Dibromopropane	5.06	5.03	5.09

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-311558/12 Calibration Date: 09/18/2019 15:39  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I091819a014.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	LinF		2278217		0.971	1.00	-2.9	20.0
1,2,3-Trichloropropane	Lin		160138		0.801	1.00	-19.9	20.0
1,2-Dibromo-3-Chloropropane	Lin2		3042324		0.922	1.00	-7.8	20.0
1,2-Dibromopropane	Lin1		2580879		2.39	2.00	19.7	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-311558/12 Calibration Date: 09/18/2019 15:39  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I091819a014.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.75	4.72	4.78
1,2,3-Trichloropropane	5.36	5.32	5.38
1,2-Dibromo-3-Chloropropane	6.44	6.41	6.47
1,2-Dibromopropane	5.06	5.03	5.09

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312652/1-A Calibration Date: 09/30/2019 13:43  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I093019a004.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		2323340		0.0554	0.0576	-3.8	20.0
1,2,3-Trichloropropane	LinF		202579		0.0619	0.0569	8.9	20.0
1,2-Dibromo-3-Chloropropane	Lin1		3572128		0.0654	0.0576	13.7	20.0
1,2-Dibromopropane	Lin		1800375		0.114	0.229	-50.3*	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312652/1-A Calibration Date: 09/30/2019 13:43  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I093019a004.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.79	4.76	4.82
1,2,3-Trichloropropane	5.49	5.46	5.52
1,2-Dibromo-3-Chloropropane	6.61	6.57	6.63
1,2-Dibromopropane	5.06	5.03	5.09



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312652/1-A Calibration Date: 09/30/2019 13:43  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I093019a004.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	LinF		2168648		0.0532	0.0576	-7.6	20.0
1,2,3-Trichloropropane	Lin		154956		0.0440	0.0569	-22.6*	20.0
1,2-Dibromo-3-Chloropropane	Lin2		2450068		0.0432	0.0576	-25.0*	20.0
1,2-Dibromopropane	Lin1		3518156		0.189	0.229	-17.4	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312652/1-A Calibration Date: 09/30/2019 13:43  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I093019a004.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.75	4.72	4.78
1,2,3-Trichloropropane	5.36	5.32	5.38
1,2-Dibromo-3-Chloropropane	6.44	6.41	6.47
1,2-Dibromopropane	5.06	5.03	5.09

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312652/1-A Calibration Date: 09/30/2019 16:42  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I093019a015.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		2370632		0.0566	0.0576	-1.6	20.0
1,2,3-Trichloropropane	LinF		173289		0.0530	0.0569	-6.8	20.0
1,2-Dibromo-3-Chloropropane	Lin1		3299514		0.0604	0.0576	4.8	20.0
1,2-Dibromopropane	Lin		1845258		0.116	0.229	-49.1*	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312652/1-A Calibration Date: 09/30/2019 16:42  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I093019a015.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.79	4.76	4.82
1,2,3-Trichloropropane	5.49	5.46	5.52
1,2-Dibromo-3-Chloropropane	6.60	6.57	6.63
1,2-Dibromopropane	5.06	5.03	5.09

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312652/1-A Calibration Date: 09/30/2019 16:42  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I093019a015.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	LinF		2520695		0.0619	0.0576	7.4	20.0
1,2,3-Trichloropropane	Lin		175371		0.0501	0.0569	-11.9	20.0
1,2-Dibromo-3-Chloropropane	Lin2		3164699		0.0551	0.0576	-4.3	20.0
1,2-Dibromopropane	Lin1		2228916		0.117	0.229	-48.7*	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312652/1-A Calibration Date: 09/30/2019 16:42  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I093019a015.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.75	4.72	4.78
1,2,3-Trichloropropane	5.36	5.32	5.38
1,2-Dibromo-3-Chloropropane	6.44	6.41	6.47
1,2-Dibromopropane	5.06	5.03	5.09

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312652/2-A Calibration Date: 09/30/2019 19:38  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I093019a026.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		2367556		0.0565	0.0576	-1.8	20.0
1,2,3-Trichloropropane	LinF		181782		0.0556	0.0569	-2.2	20.0
1,2-Dibromo-3-Chloropropane	Lin1		3565205		0.0653	0.0576	13.4	20.0
1,2-Dibromopropane	Lin		1795415		0.113	0.229	-50.4*	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312652/2-A Calibration Date: 09/30/2019 19:38  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I093019a026.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.79	4.76	4.82
1,2,3-Trichloropropane	5.49	5.46	5.52
1,2-Dibromo-3-Chloropropane	6.60	6.57	6.63
1,2-Dibromopropane	5.06	5.03	5.09



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312652/2-A Calibration Date: 09/30/2019 19:38  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I093019a026.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	LinF		2687340		0.0659	0.0576	14.5	20.0
1,2,3-Trichloropropane	Lin		181623		0.0520	0.0569	-8.6	20.0
1,2-Dibromo-3-Chloropropane	Lin2		3009821		0.0525	0.0576	-8.8	20.0
1,2-Dibromopropane	Lin1		3336176		0.179	0.229	-21.8*	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312652/2-A Calibration Date: 09/30/2019 19:38  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I093019a026.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.75	4.72	4.78
1,2,3-Trichloropropane	5.36	5.32	5.38
1,2-Dibromo-3-Chloropropane	6.44	6.41	6.47
1,2-Dibromopropane	5.06	5.03	5.09

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312652/2-A Calibration Date: 09/30/2019 20:58  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I093019a031.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		2321586		0.0554	0.0576	-3.9	20.0
1,2,3-Trichloropropane	LinF		156316		0.0478	0.0569	-15.9	20.0
1,2-Dibromo-3-Chloropropane	Lin1		3356776		0.0614	0.0576	6.7	20.0
1,2-Dibromopropane	Lin		1773642		0.112	0.229	-51.0*	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312652/2-A Calibration Date: 09/30/2019 20:58  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: ZB-624short ID: 0.18 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I093019a031.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.79	4.76	4.82
1,2,3-Trichloropropane	5.49	5.46	5.52
1,2-Dibromo-3-Chloropropane	6.61	6.57	6.63
1,2-Dibromopropane	5.06	5.03	5.09

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312652/2-A Calibration Date: 09/30/2019 20:58  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I093019a031.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	LinF		2170867		0.0533	0.0576	-7.5	20.0
1,2,3-Trichloropropane	Lin		145534		0.0412	0.0569	-27.6*	20.0
1,2-Dibromo-3-Chloropropane	Lin2		3032601		0.0529	0.0576	-8.1	20.0
1,2-Dibromopropane	Lin1		2228507		0.117	0.229	-48.7*	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-312652/2-A Calibration Date: 09/30/2019 20:58  
 Instrument ID: TAC046 Calib Start Date: 09/18/2019 13:10  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 09/18/2019 15:23  
 Lab File ID: 46I093019a031.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	4.75	4.72	4.78
1,2,3-Trichloropropane	5.36	5.32	5.38
1,2-Dibromo-3-Chloropropane	6.44	6.41	6.47
1,2-Dibromopropane	5.06	5.03	5.09

FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-312652/3-A  
 Matrix: Water Lab File ID: 46I093019a005.D  
 Analysis Method: 8011 Date Collected: \_\_\_\_\_  
 Extraction Method: 8011 Date Extracted: 09/28/2019 15:07  
 Sample wt/vol: 35 (mL) Date Analyzed: 09/30/2019 13:59  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 312767 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	ND		0.030	0.0080
106-93-4	Ethylene Dibromide	ND		0.010	0.0020

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	91		60-140

FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-312652/4-A  
 Matrix: Water Lab File ID: 46I093019a006.D  
 Analysis Method: 8011 Date Collected: \_\_\_\_\_  
 Extraction Method: 8011 Date Extracted: 09/28/2019 15:07  
 Sample wt/vol: 35 (mL) Date Analyzed: 09/30/2019 14:16  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 312767 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	0.0486		0.030	0.0080
106-93-4	Ethylene Dibromide	0.0594		0.010	0.0020

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	123		60-140



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-312652/5-A  
 Matrix: Water Lab File ID: 46I093019a007.D  
 Analysis Method: 8011 Date Collected: \_\_\_\_\_  
 Extraction Method: 8011 Date Extracted: 09/28/2019 15:07  
 Sample wt/vol: 35 (mL) Date Analyzed: 09/30/2019 14:32  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 312767 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	0.0562		0.030	0.0080
106-93-4	Ethylene Dibromide	0.0620		0.010	0.0020

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	105		60-140

FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LLCS 580-312652/6-A  
 Matrix: Water Lab File ID: 46I093019a008.D  
 Analysis Method: 8011 Date Collected: \_\_\_\_\_  
 Extraction Method: 8011 Date Extracted: 09/28/2019 15:07  
 Sample wt/vol: 35 (mL) Date Analyzed: 09/30/2019 14:49  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) GC Column: ZB-624short ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 312767 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
96-18-4	1,2,3-Trichloropropane	0.0160	J	0.030	0.0080
106-93-4	Ethylene Dibromide	0.0242		0.010	0.0020

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	108		60-140

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC046 Start Date: 09/18/2019 13:10

Analysis Batch Number: 311558 End Date: 09/18/2019 15:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 580-311558/3		09/18/2019 13:10	1	46I091819a005.D	ZB-624short 0.18 (mm)
IC 580-311558/3		09/18/2019 13:10	1	46I091819a005.D	RTX-VRX 0.45 (mm)
IC 580-311558/4		09/18/2019 13:30	1	46I091819a006.D	ZB-624short 0.18 (mm)
IC 580-311558/4		09/18/2019 13:30	1	46I091819a006.D	RTX-VRX 0.45 (mm)
IC 580-311558/5		09/18/2019 13:46	1	46I091819a007.D	ZB-624short 0.18 (mm)
IC 580-311558/5		09/18/2019 13:46	1	46I091819a007.D	RTX-VRX 0.45 (mm)
IC 580-311558/6		09/18/2019 14:03	1	46I091819a008.D	ZB-624short 0.18 (mm)
IC 580-311558/6		09/18/2019 14:03	1	46I091819a008.D	RTX-VRX 0.45 (mm)
IC 580-311558/7		09/18/2019 14:19	1	46I091819a009.D	ZB-624short 0.18 (mm)
IC 580-311558/7		09/18/2019 14:19	1	46I091819a009.D	RTX-VRX 0.45 (mm)
ICIS 580-311558/8		09/18/2019 14:35	1	46I091819a010.D	ZB-624short 0.18 (mm)
ICIS 580-311558/8		09/18/2019 14:35	1	46I091819a010.D	RTX-VRX 0.45 (mm)
IC 580-311558/9		09/18/2019 14:51	1	46I091819a011.D	ZB-624short 0.18 (mm)
IC 580-311558/9		09/18/2019 14:51	1	46I091819a011.D	RTX-VRX 0.45 (mm)
IC 580-311558/10		09/18/2019 15:07	1	46I091819a012.D	ZB-624short 0.18 (mm)
IC 580-311558/10		09/18/2019 15:07	1	46I091819a012.D	RTX-VRX 0.45 (mm)
IC 580-311558/11		09/18/2019 15:23	1	46I091819a013.D	ZB-624short 0.18 (mm)
IC 580-311558/11		09/18/2019 15:23	1	46I091819a013.D	RTX-VRX 0.45 (mm)
ICV 580-311558/12		09/18/2019 15:39	1	46I091819a014.D	ZB-624short 0.18 (mm)
ICV 580-311558/12		09/18/2019 15:39	1	46I091819a014.D	RTX-VRX 0.45 (mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC046 Start Date: 09/30/2019 13:43

Analysis Batch Number: 312767 End Date: 09/30/2019 20:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 580-312652/1-A		09/30/2019 13:43	1	46I093019a004.D	ZB-624short 0.18 (mm)
CCV 580-312652/1-A		09/30/2019 13:43	1	46I093019a004.D	RTX-VRX 0.45 (mm)
MB 580-312652/3-A		09/30/2019 13:59	1	46I093019a005.D	ZB-624short 0.18 (mm)
MB 580-312652/3-A		09/30/2019 13:59	1	46I093019a005.D	RTX-VRX 0.45 (mm)
LCS 580-312652/4-A		09/30/2019 14:16	1	46I093019a006.D	ZB-624short 0.18 (mm)
LCS 580-312652/4-A		09/30/2019 14:16	1	46I093019a006.D	RTX-VRX 0.45 (mm)
LCSD 580-312652/5-A		09/30/2019 14:32	1	46I093019a007.D	ZB-624short 0.18 (mm)
LCSD 580-312652/5-A		09/30/2019 14:32	1	46I093019a007.D	RTX-VRX 0.45 (mm)
LLCS 580-312652/6-A		09/30/2019 14:49	1	46I093019a008.D	ZB-624short 0.18 (mm)
LLCS 580-312652/6-A		09/30/2019 14:49	1	46I093019a008.D	RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 15:05	1		ZB-624short 0.18 (mm)
ZZZZZ		09/30/2019 15:05	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 15:21	1		ZB-624short 0.18 (mm)
ZZZZZ		09/30/2019 15:21	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 15:37	1		ZB-624short 0.18 (mm)
ZZZZZ		09/30/2019 15:37	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 15:54	1		ZB-624short 0.18 (mm)
ZZZZZ		09/30/2019 15:54	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 16:10	1		ZB-624short 0.18 (mm)
ZZZZZ		09/30/2019 16:10	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 16:26	1		ZB-624short 0.18 (mm)
ZZZZZ		09/30/2019 16:26	1		RTX-VRX 0.45 (mm)
CCV 580-312652/1-A		09/30/2019 16:42	1	46I093019a015.D	ZB-624short 0.18 (mm)
CCV 580-312652/1-A		09/30/2019 16:42	1	46I093019a015.D	RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 16:58	1		ZB-624short 0.18 (mm)
ZZZZZ		09/30/2019 16:58	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 17:14	1		ZB-624short 0.18 (mm)
ZZZZZ		09/30/2019 17:14	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 17:30	1		ZB-624short 0.18 (mm)
ZZZZZ		09/30/2019 17:30	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 17:46	1		ZB-624short 0.18 (mm)
ZZZZZ		09/30/2019 17:46	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 18:02	1		ZB-624short 0.18 (mm)
ZZZZZ		09/30/2019 18:02	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 18:18	1		ZB-624short 0.18 (mm)
ZZZZZ		09/30/2019 18:18	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 18:34	1		ZB-624short 0.18 (mm)
ZZZZZ		09/30/2019 18:34	1		RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 18:50	1		ZB-624short 0.18 (mm)
ZZZZZ		09/30/2019 18:50	1		RTX-VRX 0.45 (mm)
580-89287-7		09/30/2019 19:06	1	46I093019a024.D	ZB-624short 0.18 (mm)
580-89287-7		09/30/2019 19:06	1	46I093019a024.D	RTX-VRX 0.45 (mm)
580-89287-8		09/30/2019 19:22	1	46I093019a025.D	ZB-624short 0.18 (mm)
580-89287-8		09/30/2019 19:22	1	46I093019a025.D	RTX-VRX 0.45 (mm)
CCV 580-312652/2-A		09/30/2019 19:38	1	46I093019a026.D	ZB-624short 0.18 (mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC046 Start Date: 09/30/2019 13:43

Analysis Batch Number: 312767 End Date: 09/30/2019 20:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 580-312652/2-A		09/30/2019 19:38	1	46I093019a026.D	RTX-VRX 0.45 (mm)
580-89287-10		09/30/2019 19:54	1	46I093019a027.D	ZB-624short 0.18 (mm)
580-89287-10		09/30/2019 19:54	1	46I093019a027.D	RTX-VRX 0.45 (mm)
580-89287-12		09/30/2019 20:10	1	46I093019a028.D	ZB-624short 0.18 (mm)
580-89287-12		09/30/2019 20:10	1	46I093019a028.D	RTX-VRX 0.45 (mm)
580-89287-13		09/30/2019 20:26	1	46I093019a029.D	ZB-624short 0.18 (mm)
580-89287-13		09/30/2019 20:26	1	46I093019a029.D	RTX-VRX 0.45 (mm)
ZZZZZ		09/30/2019 20:42	1		ZB-624short 0.18 (mm)
ZZZZZ		09/30/2019 20:42	1		RTX-VRX 0.45 (mm)
CCV 580-312652/2-A		09/30/2019 20:58	1	46I093019a031.D	ZB-624short 0.18 (mm)
CCV 580-312652/2-A		09/30/2019 20:58	1	46I093019a031.D	RTX-VRX 0.45 (mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Batch Number: 312652 Batch Start Date: 09/28/19 15:07 Batch Analyst: Bohn, Christina J

Batch Method: 8011 Batch End Date: 09/28/19 17:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ResidualChloChe ck	ReceivedpH
CCV 580-312652/1		8011, 8011				35 mL	2 mL	no	7.0 SU
CCV 580-312652/2		8011, 8011				35 mL	2 mL	no	7.0 SU
MB 580-312652/3		8011, 8011				35 mL	2 mL	no	7.0 SU
LCS 580-312652/4		8011, 8011				35 mL	2 mL	no	7.0 SU
LCSD 580-312652/5		8011, 8011				35 mL	2 mL	no	7.0 SU
LLCS 580-312652/6		8011, 8011				35 mL	2 mL	no	7.0 SU
580-89287-M-7	MW-10-W-190917	8011, 8011	T	61.7765 g	26.4540 g	35.3 mL	2 mL		
580-89287-D-8	MW-7-W-190917	8011, 8011	T	61.8874 g	26.4250 g	35.5 mL	2 mL		
580-89287-G-10	MW-6-W-190917	8011, 8011	T	61.0080 g	26.2575 g	34.8 mL	2 mL		
580-89287-M-12	MW-2-W-190917	8011, 8011	T	61.8560 g	26.1991 g	35.7 mL	2 mL		
580-89287-F-13	MW-3-W-190917	8011, 8011	T	61.7874 g	26.1767 g	35.6 mL	2 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	504/8011_IC 00105	504/8011_Sspk 00092	504/8011_Ssur 00092			
CCV 580-312652/1		8011, 8011		10 uL		10 uL			
CCV 580-312652/2		8011, 8011		10 uL		10 uL			
MB 580-312652/3		8011, 8011				10 uL			
LCS 580-312652/4		8011, 8011			10 uL	10 uL			
LCSD 580-312652/5		8011, 8011			10 uL	10 uL			
LLCS 580-312652/6		8011, 8011			2 uL	10 uL			
580-89287-M-7	MW-10-W-190917	8011, 8011	T			10 uL			
580-89287-D-8	MW-7-W-190917	8011, 8011	T			10 uL			
580-89287-G-10	MW-6-W-190917	8011, 8011	T			10 uL			
580-89287-M-12	MW-2-W-190917	8011, 8011	T			10 uL			
580-89287-F-13	MW-3-W-190917	8011, 8011	T			10 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Batch Number: 312652 Batch Start Date: 09/28/19 15:07 Batch Analyst: Bohn, Christina J

Batch Method: 8011 Batch End Date: 09/28/19 17:45

Batch Notes	
Balance ID	SEA232
Batch Comment	8011 h2o prep Viald by JCM
Analyst ID - Extraction	JCM
NaCl ID	NaCl_00020, 2311937
Pipette/Syringe/Dispenser ID	10uL, 10mL volumetric pipette
Prep Solvent ID	2440387
Analyst ID - Spike Analyst	JCM
Sufficient Volume for Batch QC	MB, LCS, LCSD, LLCS
Vial Lot Number	0318301D

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Method AK102 and 103

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Alaska - Diesel Range Organics &  
Residual Range Organics (GC) by  
Method AK102 and AK103



FORM II  
DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (2): \_\_\_\_\_ ID: \_\_\_\_\_

Client Sample ID	Lab Sample ID	OTPH #	NTC #
EQB-1-W-190917	580-89287-1	89	90
MW-4-W-190917	580-89287-2	90	92
MW-8-W-190917	580-89287-3	88	93
SP-3-W-190917	580-89287-4	100	104
SP-2-W-190917	580-89287-5	85	92
SP-1-W-190917	580-89287-6	90	93
MW-10-W-190917	580-89287-7	85	89
MW-7-W-190917	580-89287-8	86	94
MW-5-W-190917	580-89287-9	88	96
MW-6-W-190917	580-89287-10	88	96
MW-1-W-190917	580-89287-11	91	98
MW-2-W-190917	580-89287-12	90	95
MW-3-W-190917	580-89287-13	87	94
BD-1-W-190917	580-89287-14	85	91
BD-2-W-190917	580-89287-15	93	101
	MB 590-24414/1-A	90	92
	LCS 590-24414/2-A	97	97
	LCSD 590-24414/3-A	95	100

OTPH = o-Terphenyl  
NTC = n-Triacontane-d62

QC LIMITS  
50-150  
50-150

# Column to be used to flag recovery values

FORM II AK102 & 103

FORM III  
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 590-0006081-025.D

Lab ID: LCS 590-24414/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
DRO (nC10-<nC25)	1.60	1.53	96	75-125	

# Column to be used to flag recovery and RPD values

FORM III AK102 & 103

FORM III  
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 590-0006081-026.D

Lab ID: LCSO 590-24414/3-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCSO CONCENTRATION (mg/L)	LCSO % REC	% RPD	QC LIMITS		#
					RPD	REC	
DRO (nC10-<nC25)	1.60	1.56	97	2	20	75-125	

# Column to be used to flag recovery and RPD values

FORM III AK102 & 103

FORM IV  
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 590-0006081-024.D Lab Sample ID: MB 590-24414/1-A  
 Matrix: Water Date Extracted: 09/29/2019 12:37  
 Instrument ID: Droid2\_R Date Analyzed: 09/29/2019 19:06  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 590-24414/2-A	590-0006081-025.D	09/29/2019 19:25
	LCSD 590-24414/3-A	590-0006081-026.D	09/29/2019 19:44
EQB-1-W-190917	580-89287-1	590-0006081-027.D	09/29/2019 20:04
MW-4-W-190917	580-89287-2	590-0006081-028.D	09/29/2019 20:23
MW-8-W-190917	580-89287-3	590-0006081-029.D	09/29/2019 20:42
SP-3-W-190917	580-89287-4	590-0006081-030.D	09/29/2019 21:01
SP-2-W-190917	580-89287-5	590-0006081-031.D	09/29/2019 21:20
SP-1-W-190917	580-89287-6	590-0006081-032.D	09/29/2019 21:40
MW-10-W-190917	580-89287-7	590-0006081-033.D	09/29/2019 21:59
MW-7-W-190917	580-89287-8	590-0006081-035.D	09/29/2019 22:38
MW-5-W-190917	580-89287-9	590-0006081-036.D	09/29/2019 22:57
MW-6-W-190917	580-89287-10	590-0006081-037.D	09/29/2019 23:16
MW-1-W-190917	580-89287-11	590-0006081-038.D	09/29/2019 23:35
MW-2-W-190917	580-89287-12	590-0006081-039.D	09/29/2019 23:55
MW-3-W-190917	580-89287-13	590-0006081-040.D	09/30/2019 00:14
BD-1-W-190917	580-89287-14	590-0006081-041.D	09/30/2019 00:33
BD-2-W-190917	580-89287-15	590-0006081-042.D	09/30/2019 00:52

FORM VIII  
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICRT 590-24407/18 Date Analyzed: 09/29/2019 17:11  
 Instrument ID: Droid2\_R GC Column: ZB-1HT B ID: 0.25 (mm)  
 Lab File ID (Standard): 590-0006081-018.D Heated Purge: (Y/N) N  
 Calibration ID: 3762

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				OTPH	NTC	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				5.37	8.56	
UPPER LIMIT				5.40	8.59	
LOWER LIMIT				5.34	8.53	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
ICRT 590-24407/18		09/29/2019 17:11	590-0006081-018.D	5.37	8.56	
ICV 590-24407/23		09/29/2019 18:47	590-0006081-023.D	5.37	8.55	
MB 590-24414/1-A		09/29/2019 19:06	590-0006081-024.D	5.37	8.55	
LCS 590-24414/2-A		09/29/2019 19:25	590-0006081-025.D	5.37	8.55	
LCSD 590-24414/3-A		09/29/2019 19:44	590-0006081-026.D	5.37	8.55	
580-89287-1	EQB-1-W-190917	09/29/2019 20:04	590-0006081-027.D	5.37	8.55	
580-89287-2	MW-4-W-190917	09/29/2019 20:23	590-0006081-028.D	5.37	8.55	
580-89287-3	MW-8-W-190917	09/29/2019 20:42	590-0006081-029.D	5.37	8.55	
580-89287-4	SP-3-W-190917	09/29/2019 21:01	590-0006081-030.D	5.37	8.55	
580-89287-5	SP-2-W-190917	09/29/2019 21:20	590-0006081-031.D	5.37	8.55	
580-89287-6	SP-1-W-190917	09/29/2019 21:40	590-0006081-032.D	5.37	8.55	
580-89287-7	MW-10-W-190917	09/29/2019 21:59	590-0006081-033.D	5.37	8.56	
CCV 590-24407/34		09/29/2019 22:18	590-0006081-034.D	5.37	8.55	
580-89287-8	MW-7-W-190917	09/29/2019 22:38	590-0006081-035.D	5.37	8.56	
580-89287-9	MW-5-W-190917	09/29/2019 22:57	590-0006081-036.D	5.37	8.55	
580-89287-10	MW-6-W-190917	09/29/2019 23:16	590-0006081-037.D	5.37	8.55	
580-89287-11	MW-1-W-190917	09/29/2019 23:35	590-0006081-038.D	5.37	8.55	
580-89287-12	MW-2-W-190917	09/29/2019 23:55	590-0006081-039.D	5.37	8.55	
580-89287-13	MW-3-W-190917	09/30/2019 00:14	590-0006081-040.D	5.37	8.55	

OTPH = o-Terphenyl  
 NTC = n-Triacontane-d62

OTPH RT Limit = ± 0.03 minutes of surrogate RT  
 NTC RT Limit = ± 0.03 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII  
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICRT 590-24407/18 Date Analyzed: 09/29/2019 17:11  
 Instrument ID: Droid2\_R GC Column: ZB-1HT B ID: 0.25 (mm)  
 Lab File ID (Standard): 590-0006081-018.D Heated Purge: (Y/N) N  
 Calibration ID: 3762

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				OTPH	NTC	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				5.37	8.56	
UPPER LIMIT				5.40	8.59	
LOWER LIMIT				5.34	8.53	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
580-89287-14	BD-1-W-190917	09/30/2019 00:33	590-0006081-041.D	5.37	8.55	
580-89287-15	BD-2-W-190917	09/30/2019 00:52	590-0006081-042.D	5.37	8.55	
CCV 590-24407/45		09/30/2019 01:50	590-0006081-045.D	5.37	8.55	

OTPH = o-Terphenyl  
 NTC = n-Triacontane-d62

OTPH RT Limit = ± 0.03 minutes of surrogate RT  
 NTC RT Limit = ± 0.03 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EQB-1-W-190917 Lab Sample ID: 580-89287-1  
 Matrix: Water Lab File ID: 590-0006081-027.D  
 Analysis Method: AK102 & 103 Date Collected: 09/17/2019 09:30  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 247.3(mL) Date Analyzed: 09/29/2019 20:04  
 Con. Extract Vol.: 2(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: ZB-1HT B ID: 0.25(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	ND		0.25	0.091

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		50-150
93952-07-9	n-Triacontane-d62	90		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-4-W-190917 Lab Sample ID: 580-89287-2  
 Matrix: Water Lab File ID: 590-0006081-028.D  
 Analysis Method: AK102 & 103 Date Collected: 09/17/2019 09:50  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 246.2 (mL) Date Analyzed: 09/29/2019 20:23  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: ZB-1HT B ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.26		0.25	0.091

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		50-150
93952-07-9	n-Triacontane-d62	92		50-150



FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-8-W-190917 Lab Sample ID: 580-89287-3  
 Matrix: Water Lab File ID: 590-0006081-029.D  
 Analysis Method: AK102 & 103 Date Collected: 09/17/2019 10:50  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 249.3(mL) Date Analyzed: 09/29/2019 20:42  
 Con. Extract Vol.: 2(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: ZB-1HT B ID: 0.25(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.56		0.25	0.090

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		50-150
93952-07-9	n-Triacontane-d62	93		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SP-3-W-190917 Lab Sample ID: 580-89287-4  
 Matrix: Water Lab File ID: 590-0006081-030.D  
 Analysis Method: AK102 & 103 Date Collected: 09/17/2019 11:00  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 246.1(mL) Date Analyzed: 09/29/2019 21:01  
 Con. Extract Vol.: 2(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: ZB-1HT B ID: 0.25(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.69		0.25	0.091

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	100		50-150
93952-07-9	n-Triacontane-d62	104		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SP-2-W-190917 Lab Sample ID: 580-89287-5  
 Matrix: Water Lab File ID: 590-0006081-031.D  
 Analysis Method: AK102 & 103 Date Collected: 09/17/2019 11:10  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 241.8(mL) Date Analyzed: 09/29/2019 21:20  
 Con. Extract Vol.: 2(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: ZB-1HT B ID: 0.25(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.66		0.26	0.093

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		50-150
93952-07-9	n-Triacontane-d62	92		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SP-1-W-190917 Lab Sample ID: 580-89287-6  
 Matrix: Water Lab File ID: 590-0006081-032.D  
 Analysis Method: AK102 & 103 Date Collected: 09/17/2019 11:20  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 230.3(mL) Date Analyzed: 09/29/2019 21:40  
 Con. Extract Vol.: 2(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: ZB-1HT B ID: 0.25(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	ND		0.27	0.098

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		50-150
93952-07-9	n-Triacontane-d62	93		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-10-W-190917 Lab Sample ID: 580-89287-7  
 Matrix: Water Lab File ID: 590-0006081-033.D  
 Analysis Method: AK102 & 103 Date Collected: 09/17/2019 12:00  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 245.3(mL) Date Analyzed: 09/29/2019 21:59  
 Con. Extract Vol.: 2(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: ZB-1HT B ID: 0.25(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.42		0.25	0.092

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		50-150
93952-07-9	n-Triacontane-d62	89		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-7-W-190917 Lab Sample ID: 580-89287-8  
 Matrix: Water Lab File ID: 590-0006081-035.D  
 Analysis Method: AK102 & 103 Date Collected: 09/17/2019 12:45  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 233.2 (mL) Date Analyzed: 09/29/2019 22:38  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: ZB-1HT B ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	2.2		0.27	0.096

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		50-150
93952-07-9	n-Triacontane-d62	94		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-5-W-190917 Lab Sample ID: 580-89287-9  
 Matrix: Water Lab File ID: 590-0006081-036.D  
 Analysis Method: AK102 & 103 Date Collected: 09/17/2019 13:20  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 245.1(mL) Date Analyzed: 09/29/2019 22:57  
 Con. Extract Vol.: 2(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: ZB-1HT B ID: 0.25(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.33		0.25	0.092

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		50-150
93952-07-9	n-Triacontane-d62	96		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-6-W-190917 Lab Sample ID: 580-89287-10  
 Matrix: Water Lab File ID: 590-0006081-037.D  
 Analysis Method: AK102 & 103 Date Collected: 09/17/2019 14:20  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 241.9(mL) Date Analyzed: 09/29/2019 23:16  
 Con. Extract Vol.: 2(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: ZB-1HT B ID: 0.25(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	1.2		0.26	0.093

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		50-150
93952-07-9	n-Triacontane-d62	96		50-150



FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-1-W-190917 Lab Sample ID: 580-89287-11  
 Matrix: Water Lab File ID: 590-0006081-038.D  
 Analysis Method: AK102 & 103 Date Collected: 09/17/2019 15:00  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 242.2 (mL) Date Analyzed: 09/29/2019 23:35  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: ZB-1HT B ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.35		0.26	0.093

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	91		50-150
93952-07-9	n-Triacontane-d62	98		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-2-W-190917 Lab Sample ID: 580-89287-12  
 Matrix: Water Lab File ID: 590-0006081-039.D  
 Analysis Method: AK102 & 103 Date Collected: 09/17/2019 15:30  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 246.4 (mL) Date Analyzed: 09/29/2019 23:55  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: ZB-1HT B ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.43		0.25	0.091

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		50-150
93952-07-9	n-Triacontane-d62	95		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3-W-190917 Lab Sample ID: 580-89287-13  
 Matrix: Water Lab File ID: 590-0006081-040.D  
 Analysis Method: AK102 & 103 Date Collected: 09/17/2019 16:00  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 248.4 (mL) Date Analyzed: 09/30/2019 00:14  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: ZB-1HT B ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	1.6		0.25	0.091

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	87		50-150
93952-07-9	n-Triacontane-d62	94		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: BD-1-W-190917 Lab Sample ID: 580-89287-14  
 Matrix: Water Lab File ID: 590-0006081-041.D  
 Analysis Method: AK102 & 103 Date Collected: 09/17/2019 00:00  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 243.9(mL) Date Analyzed: 09/30/2019 00:33  
 Con. Extract Vol.: 2(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: ZB-1HT B ID: 0.25(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.25	J	0.26	0.092

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		50-150
93952-07-9	n-Triacontane-d62	91		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: BD-2-W-190917 Lab Sample ID: 580-89287-15  
 Matrix: Water Lab File ID: 590-0006081-042.D  
 Analysis Method: AK102 & 103 Date Collected: 09/17/2019 00:00  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 247.9(mL) Date Analyzed: 09/30/2019 00:52  
 Con. Extract Vol.: 2(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: ZB-1HT B ID: 0.25(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	ND		0.25	0.091

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	93		50-150
93952-07-9	n-Triacontane-d62	101		50-150

FORM VI  
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1 Analy Batch No.: 24407

SDG No.: \_\_\_\_\_

Instrument ID: Droid2\_R GC Column: ZB-1HT B ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/29/2019 15:54 Calibration End Date: 09/29/2019 18:28 Calibration ID: 3762

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 590-24407/14	590-0006081-014.D
Level 2	IC 590-24407/15	590-0006081-015.D
Level 3	IC 590-24407/16	590-0006081-016.D
Level 4	IC 590-24407/17	590-0006081-017.D
Level 5	ICRT 590-24407/18	590-0006081-018.D
Level 6	IC 590-24407/19	590-0006081-019.D
Level 7	IC 590-24407/20	590-0006081-020.D
Level 8	IC 590-24407/21	590-0006081-021.D
Level 9	IC 590-24407/22	590-0006081-022.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
DRO (nC10-<nC25)	++++	4.891	4.891	4.891	4.891	4.891	4.891	4.891	4.891		2.457 - 7.324	4.891
Residual Range Organics (RRO) (C25-C36)	8.639	8.639	8.639	8.639	8.639	8.639	8.639	8.639	8.639	++++	7.284 - 9.994	8.639
o-Terphenyl	5.368	5.367	5.368	5.368	5.372	5.377	5.396	5.417	5.444		5.122 - 5.622	5.386
n-Triacontane-d62	8.550	8.549	8.550	8.551	8.555	8.560	8.589	8.614	++++		8.305 - 8.805	8.565

FORM VI  
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1 Analy Batch No.: 24407

SDG No.: \_\_\_\_\_

Instrument ID: Droid2\_R GC Column: ZB-1HT B ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/29/2019 15:54 Calibration End Date: 09/29/2019 18:28 Calibration ID: 3762

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 590-24407/14	590-0006081-014.D
Level 2	IC 590-24407/15	590-0006081-015.D
Level 3	IC 590-24407/16	590-0006081-016.D
Level 4	IC 590-24407/17	590-0006081-017.D
Level 5	ICRT 590-24407/18	590-0006081-018.D
Level 6	IC 590-24407/19	590-0006081-019.D
Level 7	IC 590-24407/20	590-0006081-020.D
Level 8	IC 590-24407/21	590-0006081-021.D
Level 9	IC 590-24407/22	590-0006081-022.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
DRO (nC10-<nC25)	++++ 353699 333290	442397 358648	383197 367617	382780 331926	Lin2	911340.746	348939.683			4.2			0.9980		0.9900	
Residual Range Organics (RRO) (C25-C36)	97100 154322 ++++	106850 164963	126712 168781	147989 146778	Lin2	-340630.48	155268.753			7.5			0.9940		0.9900	
o-Terphenyl	351248 380904 386866	354650 391923	364389 399509	386701 379563	Lin2	-8548.9097	386223.824			2.4			0.9990		0.9900	
n-Triacontane-d62	275428 306789 ++++	266965 324069	270223 338587	303869 295983	Lin2	-9926.1745	309408.290			6.7			0.9950		0.9900	

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1 Analy Batch No.: 24407

SDG No.: \_\_\_\_\_

Instrument ID: Droid2\_R GC Column: ZB-1HT B ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/29/2019 15:54 Calibration End Date: 09/29/2019 18:28 Calibration ID: 3762

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 590-24407/14	590-0006081-014.D
Level 2	IC 590-24407/15	590-0006081-015.D
Level 3	IC 590-24407/16	590-0006081-016.D
Level 4	IC 590-24407/17	590-0006081-017.D
Level 5	ICRT 590-24407/18	590-0006081-018.D
Level 6	IC 590-24407/19	590-0006081-019.D
Level 7	IC 590-24407/20	590-0006081-020.D
Level 8	IC 590-24407/21	590-0006081-021.D
Level 9	IC 590-24407/22	590-0006081-022.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
DRO (nC10-<nC25)	Lin2	+++++	4423972	7663939	19138980	70739820	+++++	10.0	20.0	50.0	200
		179323953	735234441	1659631253	3332896254		500	2000	5000	10000	
Residual Range Organics (RRO) (C25-C36)	Lin2	485500	1068503	2534239	7399427	30864337	5.00	10.0	20.0	50.0	200
		82481422	337561225	733889788	+++++		500	2000	5000	+++++	
o-Terphenyl	Lin2	70671	142711	293260	778042	3065518	0.201	0.402	0.805	2.01	8.05
		7885492	32152492	76368060	155674701		20.1	80.5	201	402	
n-Triacontane-d62	Lin2	55306	107213	217043	610168	2464127	0.201	0.402	0.803	2.01	8.03
		6507300	27195274	59433486	+++++		20.1	80.3	201	+++++	

Curve Type Legend:

Lin2 = Linear 1/conc^2



FORM VII  
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 590-24407/23 Calibration Date: 09/29/2019 18:47  
 Instrument ID: Droid2\_R Calib Start Date: 09/29/2019 15:54  
 GC Column: ZB-1HT B ID: 0.25 (mm) Calib End Date: 09/29/2019 18:28  
 Lab File ID: 590-0006081-023.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		367903		208	200	4.1	25.0
Residual Range Organics (RRO) (C25-C36)	Lin2		206664		268	200	34.2*	25.0
o-Terphenyl	Lin2		414627		8.68	8.06	7.6	25.0
n-Triacontane-d62	Lin2		341970		8.93	8.05	10.9	25.0

FORM VII  
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 590-24407/23 Calibration Date: 09/29/2019 18:47  
 Instrument ID: Droid2\_R Calib Start Date: 09/29/2019 15:54  
 GC Column: ZB-1HT B ID: 0.25 (mm) Calib End Date: 09/29/2019 18:28  
 Lab File ID: 590-0006081-023.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.89	2.46	7.32
Residual Range Organics (RRO) (C25-C36)	8.64	7.28	9.99
o-Terphenyl	5.37	5.12	5.62
n-Triacontane-d62	8.55	8.31	8.81

FORM VII  
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 590-24407/34 Calibration Date: 09/29/2019 22:18  
 Instrument ID: Droid2\_R Calib Start Date: 09/29/2019 15:54  
 GC Column: ZB-1HT B ID: 0.25 (mm) Calib End Date: 09/29/2019 18:28  
 Lab File ID: 590-0006081-034.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		335934		190	200	-5.0	25.0
Residual Range Organics (RRO) (C25-C36)	Lin2		154905		202	200	0.9	25.0
o-Terphenyl	Lin2		369521		7.72	8.05	-4.0	25.0
n-Triacontane-d62	Lin2		301412		7.86	8.03	-2.2	25.0

FORM VII  
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 590-24407/34 Calibration Date: 09/29/2019 22:18  
 Instrument ID: Droid2\_R Calib Start Date: 09/29/2019 15:54  
 GC Column: ZB-1HT B ID: 0.25 (mm) Calib End Date: 09/29/2019 18:28  
 Lab File ID: 590-0006081-034.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.89	2.46	7.32
Residual Range Organics (RRO) (C25-C36)	8.64	7.28	9.99
o-Terphenyl	5.37	5.12	5.62
n-Triacontane-d62	8.55	8.31	8.81

FORM VII  
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 590-24407/45 Calibration Date: 09/30/2019 01:50  
 Instrument ID: Droid2\_R Calib Start Date: 09/29/2019 15:54  
 GC Column: ZB-1HT B ID: 0.25 (mm) Calib End Date: 09/29/2019 18:28  
 Lab File ID: 590-0006081-045.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		353173		200	200	-0.0	25.0
Residual Range Organics (RRO) (C25-C36)	Lin2		163135		212	200	6.2	25.0
o-Terphenyl	Lin2		386171		8.07	8.05	0.3	25.0
n-Triacontane-d62	Lin2		327851		8.54	8.03	6.4	25.0

FORM VII  
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 590-24407/45 Calibration Date: 09/30/2019 01:50  
 Instrument ID: Droid2\_R Calib Start Date: 09/29/2019 15:54  
 GC Column: ZB-1HT B ID: 0.25 (mm) Calib End Date: 09/29/2019 18:28  
 Lab File ID: 590-0006081-045.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.89	2.46	7.32
Residual Range Organics (RRO) (C25-C36)	8.64	7.28	9.99
o-Terphenyl	5.37	5.12	5.62
n-Triacontane-d62	8.55	8.31	8.81

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 590-24414/1-A  
 Matrix: Water Lab File ID: 590-0006081-024.D  
 Analysis Method: AK102 & 103 Date Collected: \_\_\_\_\_  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 250 (mL) Date Analyzed: 09/29/2019 19:06  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: ZB-1HT B ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	ND		0.25	0.090

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		50-150
93952-07-9	n-Triacontane-d62	92		50-150

FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 590-24414/2-A  
 Matrix: Water Lab File ID: 590-0006081-025.D  
 Analysis Method: AK102 & 103 Date Collected: \_\_\_\_\_  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 250 (mL) Date Analyzed: 09/29/2019 19:25  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: ZB-1HT B ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	1.53		0.25	0.090

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		50-150
93952-07-9	n-Triacontane-d62	97		50-150



FORM I  
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 590-24414/3-A  
 Matrix: Water Lab File ID: 590-0006081-026.D  
 Analysis Method: AK102 & 103 Date Collected: \_\_\_\_\_  
 Extraction Method: 3510C Date Extracted: 09/29/2019 12:37  
 Sample wt/vol: 250 (mL) Date Analyzed: 09/29/2019 19:44  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: ZB-1HT B ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 24407 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	1.56		0.25	0.090

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	95		50-150
93952-07-9	n-Triacontane-d62	100		50-150

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: Droid2\_R Start Date: 09/29/2019 11:11

Analysis Batch Number: 24407 End Date: 09/30/2019 03:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		09/29/2019 11:11	1		ZB-1HT B 0.25 (mm)
ZZZZZ		09/29/2019 11:44	1		ZB-1HT B 0.25 (mm)
RTC 590-24407/3		09/29/2019 12:10	1		ZB-1HT B 0.25 (mm)
ZZZZZ		09/29/2019 15:35	1		ZB-1HT B 0.25 (mm)
IC 590-24407/14		09/29/2019 15:54	1	590-0006081-014 .D	ZB-1HT B 0.25 (mm)
IC 590-24407/15		09/29/2019 16:13	1	590-0006081-015 .D	ZB-1HT B 0.25 (mm)
IC 590-24407/16		09/29/2019 16:33	1	590-0006081-016 .D	ZB-1HT B 0.25 (mm)
IC 590-24407/17		09/29/2019 16:52	1	590-0006081-017 .D	ZB-1HT B 0.25 (mm)
ICRT 590-24407/18		09/29/2019 17:11	1	590-0006081-018 .D	ZB-1HT B 0.25 (mm)
IC 590-24407/19		09/29/2019 17:30	1	590-0006081-019 .D	ZB-1HT B 0.25 (mm)
IC 590-24407/20		09/29/2019 17:49	1	590-0006081-020 .D	ZB-1HT B 0.25 (mm)
IC 590-24407/21		09/29/2019 18:08	1	590-0006081-021 .D	ZB-1HT B 0.25 (mm)
IC 590-24407/22		09/29/2019 18:28	1	590-0006081-022 .D	ZB-1HT B 0.25 (mm)
ICV 590-24407/23		09/29/2019 18:47	1	590-0006081-023 .D	ZB-1HT B 0.25 (mm)
MB 590-24414/1-A		09/29/2019 19:06	1	590-0006081-024 .D	ZB-1HT B 0.25 (mm)
LCS 590-24414/2-A		09/29/2019 19:25	1	590-0006081-025 .D	ZB-1HT B 0.25 (mm)
LCSD 590-24414/3-A		09/29/2019 19:44	1	590-0006081-026 .D	ZB-1HT B 0.25 (mm)
580-89287-1		09/29/2019 20:04	1	590-0006081-027 .D	ZB-1HT B 0.25 (mm)
580-89287-2		09/29/2019 20:23	1	590-0006081-028 .D	ZB-1HT B 0.25 (mm)
580-89287-3		09/29/2019 20:42	1	590-0006081-029 .D	ZB-1HT B 0.25 (mm)
580-89287-4		09/29/2019 21:01	1	590-0006081-030 .D	ZB-1HT B 0.25 (mm)
580-89287-5		09/29/2019 21:20	1	590-0006081-031 .D	ZB-1HT B 0.25 (mm)
580-89287-6		09/29/2019 21:40	1	590-0006081-032 .D	ZB-1HT B 0.25 (mm)
580-89287-7		09/29/2019 21:59	1	590-0006081-033 .D	ZB-1HT B 0.25 (mm)
CCV 590-24407/34		09/29/2019 22:18	1	590-0006081-034 .D	ZB-1HT B 0.25 (mm)
580-89287-8		09/29/2019 22:38	1	590-0006081-035 .D	ZB-1HT B 0.25 (mm)
580-89287-9		09/29/2019 22:57	1	590-0006081-036 .D	ZB-1HT B 0.25 (mm)
580-89287-10		09/29/2019 23:16	1	590-0006081-037 .D	ZB-1HT B 0.25 (mm)
580-89287-11		09/29/2019 23:35	1	590-0006081-038 .D	ZB-1HT B 0.25 (mm)
580-89287-12		09/29/2019 23:55	1	590-0006081-039 .D	ZB-1HT B 0.25 (mm)
580-89287-13		09/30/2019 00:14	1	590-0006081-040 .D	ZB-1HT B 0.25 (mm)
580-89287-14		09/30/2019 00:33	1	590-0006081-041 .D	ZB-1HT B 0.25 (mm)
580-89287-15		09/30/2019 00:52	1	590-0006081-042 .D	ZB-1HT B 0.25 (mm)

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Instrument ID: Droid2\_R Start Date: 09/29/2019 11:11

Analysis Batch Number: 24407 End Date: 09/30/2019 03:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		09/30/2019 01:12	1		ZB-1HT B 0.25 (mm)
ZZZZZ		09/30/2019 01:31	1		ZB-1HT B 0.25 (mm)
CCV 590-24407/45		09/30/2019 01:50	1	590-0006081-045 .D	ZB-1HT B 0.25 (mm)
ZZZZZ		09/30/2019 02:09	1		ZB-1HT B 0.25 (mm)
ZZZZZ		09/30/2019 02:29	1		ZB-1HT B 0.25 (mm)
ZZZZZ		09/30/2019 02:48	1		ZB-1HT B 0.25 (mm)
CCV 590-24407/49		09/30/2019 03:07	1		ZB-1HT B 0.25 (mm)

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Batch Number: 24414 Batch Start Date: 09/29/19 12:36 Batch Analyst: Brednick, Araceli M

Batch Method: 3510C Batch End Date: 09/29/19 14:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 590-24414/1		3510C, AK102 & 103				250 mL	2 mL	6 SU	<2 SU
LCS 590-24414/2		3510C, AK102 & 103				250 mL	2 mL	6 SU	<2 SU
LCS 590-24414/3		3510C, AK102 & 103				250 mL	2 mL	6 SU	<2 SU
580-89287-A-1	EQB-1-W-190917	3510C, AK102 & 103	T	415.00 g	167.66 g	247.3 mL	2 mL	<2 SU	
580-89287-A-2	MW-4-W-190917	3510C, AK102 & 103	T	413.74 g	167.54 g	246.2 mL	2 mL	<2 SU	
580-89287-A-3	MW-8-W-190917	3510C, AK102 & 103	T	433.83 g	184.57 g	249.3 mL	2 mL	<2 SU	
580-89287-A-4	SP-3-W-190917	3510C, AK102 & 103	T	412.74 g	166.62 g	246.1 mL	2 mL	<2 SU	
580-89287-A-5	SP-2-W-190917	3510C, AK102 & 103	T	407.63 g	165.83 g	241.8 mL	2 mL	<2 SU	
580-89287-A-6	SP-1-W-190917	3510C, AK102 & 103	T	395.84 g	165.59 g	230.3 mL	2 mL	<2 SU	
580-89287-A-7	MW-10-W-190917	3510C, AK102 & 103	T	410.93 g	165.68 g	245.3 mL	2 mL	<2 SU	
580-89287-A-8	MW-7-W-190917	3510C, AK102 & 103	T	400.42 g	167.21 g	233.2 mL	2 mL	<2 SU	
580-89287-A-9	MW-5-W-190917	3510C, AK102 & 103	T	412.27 g	167.19 g	245.1 mL	2 mL	<2 SU	
580-89287-A-10	MW-6-W-190917	3510C, AK102 & 103	T	409.70 g	167.83 g	241.9 mL	2 mL	<2 SU	
580-89287-A-11	MW-1-W-190917	3510C, AK102 & 103	T	409.72 g	167.48 g	242.2 mL	2 mL	<2 SU	
580-89287-A-12	MW-2-W-190917	3510C, AK102 & 103	T	412.85 g	166.44 g	246.4 mL	2 mL	<2 SU	
580-89287-A-13	MW-3-W-190917	3510C, AK102 & 103	T	414.19 g	165.77 g	248.4 mL	2 mL	<2 SU	
580-89287-A-14	BD-1-W-190917	3510C, AK102 & 103	T	410.72 g	166.82 g	243.9 mL	2 mL	<2 SU	
580-89287-A-15	BD-2-W-190917	3510C, AK102 & 103	T	414.62 g	166.74 g	247.9 mL	2 mL	<2 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_DXAK_SPIKE 00032	OP_FSURR 00081	AnalysisComment			
MB 590-24414/1		3510C, AK102 & 103			40 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Batch Number: 24414 Batch Start Date: 09/29/19 12:36 Batch Analyst: Brednick, Araceli M

Batch Method: 3510C Batch End Date: 09/29/19 14:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_DXAK SPIKE 00032	OP_FSURR 00081	AnalysisComment			
LCS 590-24414/2		3510C, AK102 & 103		40 uL	40 uL				
LCSD 590-24414/3		3510C, AK102 & 103		40 uL	40 uL				
580-89287-A-1	EQB-1-W-190917	3510C, AK102 & 103	T		40 uL				
580-89287-A-2	MW-4-W-190917	3510C, AK102 & 103	T		40 uL				
580-89287-A-3	MW-8-W-190917	3510C, AK102 & 103	T		40 uL				
580-89287-A-4	SP-3-W-190917	3510C, AK102 & 103	T		40 uL				
580-89287-A-5	SP-2-W-190917	3510C, AK102 & 103	T		40 uL				
580-89287-A-6	SP-1-W-190917	3510C, AK102 & 103	T		40 uL				
580-89287-A-7	MW-10-W-190917	3510C, AK102 & 103	T		80 uL	Possible 2X Surr			
580-89287-A-8	MW-7-W-190917	3510C, AK102 & 103	T		40 uL	Emulsion Present			
580-89287-A-9	MW-5-W-190917	3510C, AK102 & 103	T		40 uL	Emulsion Present			
580-89287-A-10	MW-6-W-190917	3510C, AK102 & 103	T		40 uL	Emulsion Present			
580-89287-A-11	MW-1-W-190917	3510C, AK102 & 103	T		40 uL				
580-89287-A-12	MW-2-W-190917	3510C, AK102 & 103	T		40 uL				
580-89287-A-13	MW-3-W-190917	3510C, AK102 & 103	T		40 uL				
580-89287-A-14	BD-1-W-190917	3510C, AK102 & 103	T		40 uL				
580-89287-A-15	BD-2-W-190917	3510C, AK102 & 103	T		40 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Spokane Job No.: 580-89287-1

SDG No.: \_\_\_\_\_

Batch Number: 24414 Batch Start Date: 09/29/19 12:36 Batch Analyst: Brednick, Araceli M

Batch Method: 3510C Batch End Date: 09/29/19 14:30

Batch Notes	
Acid Used for pH Adjustment ID	HCL:DI 1:1 lot# 4117090
Balance ID	B435969932
Analyst ID - Concentration	amb
Concentration 1 Corrected Temperature	80-85 Degrees C
Equipment ID - Concentration 1	waterbath
Analyst ID - Extraction	amb
Filter ID	16957365
Method/Fraction	3510LVI
Na2SO4 ID	211199
pH Indicator ID	lot#223314
Pipette/Syringe/Dispenser ID	DX SPIKE DX SURR
Prep Solvent ID	DCM 229304
Prep Solvent Volume Used	34,17,17 mL
Analyst ID - Spike Analyst	amb
Sufficient Volume for Batch QC	yes
Thermometer ID - Concentration 1	4873
Concentration 1 Uncorrected Temperature	80-85 Degrees C
Reagent Water ID	DI Water

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Subcontract Data

# Shipping and Receiving Documents




Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact: **Arceadis**  
 Company Name: **Arceadis**  
 Address: **111 SW Columbia St Suite 670**  
 City/State/Zip: **Portland OR, 97201**  
 Phone: **503-226-8201**  
 Fax: **-**  
 Project Name: **Cambell Creek 95414**  
 Site: **5210 Old Seward Hwy Anchorage AK**  
 P O #: **30010531**

Project Manager: **Nicole Monroe**  
 Tell/Fax: **503-285-7414**  
 Analysis Turnaround Time:  CALENDAR DAYS  WORKING DAYS  
 TAT if different from Below: **Standard**  
 2 weeks  
 1 week  
 2 days  
 1 day

Site Contact: **David Beaudoin** Date: **9/17/19**  
 Lab Contact: **David Beaudoin** Carrier: **1 of 3 COCs**

Sampler: **DB, EIW**  
 For Lab Use Only:  
 Walk-in Client:

Barcode:   
 580-89287 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		Perform MS / MSD (Y/N)		Sample Specific Notes:
						Y	N	Y	N	
EQB-1-W-190917	9.17.19	0930	G	W	11	X		X		
MW-4-W-190917	9.17.19	0950	G	W	8	X		X		
MW-8-W-190917	9.17.19	1050	G	W	8	X		X		
SP-3-W-190917	9.17.19	1100	G	W	8	X		X		
SP-1-W-190917	9.17.19	1120	G	W	8	X		X		
MW-10-W-190917	9.17.19	1200	G	W	13	X		X		
MW-7-W-190917	9.17.19	1245	G	W	13	X		X		
MW-5-W-190917	9.17.19	1320	G	W	8	X		X		
MW-6-W-190917	9.17.19	1420	G	W	13	X		X		
MW-1-W-190917	9.17.19	1500	G	W	8	X		X		
MW-2-W-190917	9.17.19	1530	G	W	13	X		X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments: **Type III Data Package**

Custody Seal No.:  Yes  No

Relinquished by: **Arceadis** Date/Time: **9.18.19 0850**

Relinquished by: **Arceadis** Date/Time: **9.18.19 0850**

Relinquished by: **Arceadis** Date/Time: **9.18.19 0850**

Company: **Arceadis** Date/Time: **9.18.19 0850**  
 Company: **Arceadis** Date/Time: **9.18.19 0850**  
 Company: **Arceadis** Date/Time: **9.18.19 0850**

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Regulatory Program:  DW  NPDES  RCRA  Other:

Project Manager: <i>Nicole Meyer</i> Tel/Fax: <i>503-785-9414</i>		Date: <i>9/17/19</i> Carrier:		COC No: <i>249628</i> of <i>2</i> COCs	
Project Name: <i>Aradis</i> Address: <i>111 SW Columbia St Suite 670</i> City/State/Zip: <i>Portland, OR 97201</i> Phone: <i>503-220-8201</i> Fax:		Site Contact: <i>David Beaudin</i> Lab Contact:		Sampler: <i>DB, EW</i> For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:	
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <i>Standard</i> <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) Perform MS/MSD (Y/N)		Sample Specific Notes:	
Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	
<i>9.17.19</i>	<i>1600</i>	<i>G</i>	<i>W</i>	<i>13</i>	<i>X</i>
<i>9.17.19</i>	<i>---</i>	<i>G</i>	<i>W</i>	<i>8</i>	<i>X</i>
<i>9.17.19</i>	<i>---</i>	<i>G</i>	<i>W</i>	<i>8</i>	<i>X</i>
<i>---</i>	<i>---</i>	<i>---</i>	<i>W</i>	<i>9</i>	<i>X</i>
Preservation Used: 1 = Ice, 2 = HCl; 3 = H <sub>2</sub> SO <sub>4</sub> ; 4 = HNO <sub>3</sub> ; 5 = NaOH; 6 = Other					
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					
Special Instructions/QC Requirements & Comments: <i>Type III Data Package</i>					
Custody Seal No.: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temp. (°C): Obs'd: <i>5.4</i> Corr'd: <i>3.9</i>		Therm ID No.:	
Relinquished by: <i>EW Meyer</i>		Received by: <i>Aradis</i>		Company: <i>TA-4K</i>	
Relinquished by:		Received by:		Date/Time: <i>9/18/19 8:50</i>	
Relinquished by:		Received in Laboratory by:		Date/Time:	

**Client Contact**  
 Project Manager: Nicole Morse  
 Site Contact: David Boudreau  
 Lab Contact: \_\_\_\_\_  
 Carrier: \_\_\_\_\_  
 Date: 9/17/19  
 COC No: 249686  
 1 of 2 COCS

**Company Name:** Arcadis  
**Address:** 111 SW Columbia St Suite 670  
**City/State/Zip:** Portland OR, 97201  
**Phone:** 503-226-8201  
**Fax:** \_\_\_\_\_  
**Project Name:** Central Creek 95419  
**Site:** S210 OR Sewer Hwy Anchorage AK  
**P O #** 50010531

**Analysis Turnaround Time**  
 2 weeks  
 1 week  
 2 days  
 1 day  
 TAT if different from Below Standard

**Sample Identification**  
 Sample Date: \_\_\_\_\_  
 Sample Time: \_\_\_\_\_  
 Sample Type (e-Grab): \_\_\_\_\_  
 Matrix: \_\_\_\_\_  
 # of Filtered Sample (Y/N): \_\_\_\_\_  
 Perform MS/MSD (Y/N): \_\_\_\_\_

**Site:** STEX 8260  
 DRD AK 101  
 VOC 8260  
 ED8 123 TCR 801

**Sample Specific Issues:**

Sample ID	Therm ID	Cooler Desc	Packing	Cust Seal	Blue Ice	Other	Lab Court	FPS	FedEx	Inc
EW-1-W-190917	AI	1.3	6x9 B1	Yes	None				P.O.	1.4
MW-4-W-190917	AI	1.3	6x9 B1	Yes	None				P.O.	1.4
SP-3-W-190917										
SP-2-W-190917										
SP-1-W-190917										
MW-10-W-190917	AI	1.4	6x9 B3	Yes	None				P.O.	1.4
MW-7-W-190917										
MW-5-W-190917										
MW-6-W-190917										
MW-1-W-190917										
MW-2-W-190917										

**Preservation Used:** 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Disposal by Lab  
 Return to Client  
 Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**  
 Type III Data Package

**Custody Seal No.:** \_\_\_\_\_  
 Yes  
 No

**Cooler Temp. (°C):** Obs'd: 5.3.9  
 Cor'd: 5.3.9  
 Therm ID No.: \_\_\_\_\_

Refrinished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
Refrinished by: _____	Company: Arcadis	Date/Time: 9-18-19 08:50	Received by: _____	Company: TA-AK	Date/Time: 9/18/19 8:50
Refrinished by: _____	Company: TA-AK	Date/Time: 9/8/19 12:00	Received by: _____	Company: TASA	Date/Time: 9/19/19 09:30

COC No: 249628  
 of 2 COCS  
 Sampler: DB, EW  
 For Lab Use Only:  
 Walk-in Client:  
 Lab Sampling:  
 Job / SDG No.:

Client Contact  
 Project Manager: Nick Mavor  
 Tel/Fax: 503-785-9414  
 Lab Contact:  
 Date: 9/17/19  
 Carrier:  
 Sample Specific Notes:

Address: 111 SW Columbia St Suite 620  
 City/State/zip: Portland, OR 97201  
 Phone: 503-220-8201  
 Project Name: Central Creek 95414  
 Site: 5210 Old Seward Hwy Anchorage AK  
 P O # 30010531

Analysis Turnaround Time  
 CALENDAR DAYS  
 WORKING DAYS  
 TAT if different from Below: 5 working days  
 2 weeks  
 1 week  
 2 days  
 1 day

Sample Identification  
 Sample Date  
 Sample Time  
 Sample Type (c-comp, g-grab)  
 Matrix  
 # of Cont

Filtered Sample (Y/N)  
 Perform MS / MSD (Y/N)  
 BTEX 8260  
 GPO Ar 101  
 DRO Ar 102  
 VOC 8260  
 EDB 123 TSP 8211

Sample ID	Date	Time	Type	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)
MW-3-W-190917	9-17-19	1600	G	W	13	N	N
BD-1-W-190917	9-17-19	-	G	W	8	N	N
BD-2-W-190917	9-17-19	-	G	W	8	N	N
Top Blank							

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification:  
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/OC Requirements & Comments:  
 Type III Data Package  
 Custody Seals Intact:  Yes  No  
 Custody Seal No.:  
 Cooler Temp. (°C): Obs'd: \_\_\_\_\_ Cor'd: 5.4, 3.9  
 Therm ID No.:

Relinquished by: \_\_\_\_\_  
 Company: Aradis  
 Date/Time: 9/18/19 08:50  
 Received by: \_\_\_\_\_  
 Company: TA-4K  
 Date/Time: 9/18/19 8:50  
 Relinquished by: \_\_\_\_\_  
 Company: TASEA  
 Date/Time: \_\_\_\_\_  
 Received in Laboratory by: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

**Eurofins TestAmerica, Seattle**

5755 8th Street East  
Tacoma, WA 98424  
Phone: 253-922-2310 Fax: 253-922-5047

**Chain of Custody Record**




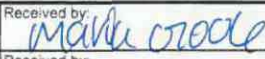
Environment Testing  
TestAmerica

<b>Client Information (Sub Contract Lab)</b>				Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:	
Client Contact: Shipping/Receiving				Phone:	Walker, Elaine M E-Mail: elaine.walker@testamericainc.com	State of Origin: Alaska	580-70458.1	
Company: TestAmerica Laboratories, Inc				Accreditations Required (See note):			Page: Page 1 of 2	
Address: 11922 East 1st Ave.				Due Date Requested: 9/30/2019	<b>Analysis Requested</b>			Job #: 580-89287-1
City: Spokane				TAT Requested (days):				Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) AK102_103/3510C_LVI_14d Alaska - DRO
State, Zip: WA, 99206				PO #:	Other:			
Phone: 509-924-9200(Tel) 509-924-9290(Fax)				WO #:	Project Name: Chevron Site 95414 Anchorage, Alaska			Project #: 58014325
Email:				SSOW#:	Site:			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	AK102_103/3510C_LVI_14d Alaska - DRO	Special Instructions/Note:
EQB-1-W-190917 (580-89287-1)								
	9/17/19	09:30 Alaskan		Water		X		2
MW-4-W-190917 (580-89287-2)								
	9/17/19	09:50 Alaskan		Water		X		2
MW-8-W-190917 (580-89287-3)								
	9/17/19	10:50 Alaskan		Water		X		2
SP-3-W-190917 (580-89287-4)								
	9/17/19	11:00 Alaskan		Water		X		2
SP-2-W-190917 (580-89287-5)								
	9/17/19	11:10 Alaskan		Water		X		2
SP-1-W-190917 (580-89287-6)								
	9/17/19	11:20 Alaskan		Water		X		2
MW-10-W-190917 (580-89287-7)								
	9/17/19	12:00 Alaskan		Water		X		2
MW-7-W-190917 (580-89287-8)								
	9/17/19	12:45 Alaskan		Water		X		2
MW-5-W-190917 (580-89287-9)								
	9/17/19	13:20 Alaskan		Water		X		2
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.								
<b>Possible Hazard Identification</b>					<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>			
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:			
Empty Kit Relinquished by:			Date:	Time:	Method of Shipment:			
Relinquished by: <i>R. K. Presu</i>			Date/Time: <i>9/25/19 1450</i>	Company: <i>Eurofins</i>	Received by: <i>Maria Ordo</i>		Date/Time: <i>9/26/19 12:55</i>	Company: <i>ASPO</i>
Relinquished by:			Date/Time:	Company:	Received by:		Date/Time:	Company:
Relinquished by:			Date/Time:	Company:	Received by:		Date/Time:	Company:
Custody Seals Intact: △ Yes △ No	Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: <i>0.9</i>			

**Eurofins TestAmerica, Seattle**

5755 8th Street East  
Tacoma, WA 98424  
Phone: 253-922-2310 Fax: 253-922-5047

**Chain of Custody Record**

<b>Client Information (Sub Contract Lab)</b>		Sampler:		Lab PM: Walker, Elaine M		Carrier Tracking No(s):		COC No: 580-70458.2									
Client Contact: Shipping/Receiving		Phone:		E-Mail: elaine.walker@testamericainc.com		State of Origin: Alaska		Page: Page 2 of 2									
Company: TestAmerica Laboratories, Inc				Accreditations Required (See note):				Job #: 580-89287-1									
Address: 11922 East 1st Ave.		Due Date Requested: 9/30/2019		<b>Analysis Requested</b>						<b>Preservation Codes:</b> A - HCL                      M - Hexane B - NaOH                    N - None C - Zn Acetate              O - AsNaO2 D - Nitric Acid              P - Na2O4S E - NaHSO4                 Q - Na2SO3 F - MeOH                    R - Na2S2O3 G - Amchlor                S - H2SO4 H - Ascorbic Acid         T - TSP Dodecahydrate I - Ice                         U - Acetone J - DI Water                V - MCAA K - EDTA                    W - pH 4-5 L - EDA                      Z - other (specify)							
City: Spokane		TAT Requested (days):															
State, Zip: WA, 99206		PO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		AK102_1033510C_LVI_14d Alaska - DRO		Total Number of containers							
Phone: 509-924-9200(Tel) 509-924-9290(Fax)		WO #:															
Email:		Project #: 58014325		Special Instructions/Note:		Other:											
Project Name: Chevron Site 95414 Anchorage, Alaska		SSOW#:															
Site:																	
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</b>												
				<b>Preservation Code:</b>													
MW-6-W-190917 (580-89287-10)		9/17/19	14:20 Alaskan	Water	Water		X				2						
MW-1-W-190917 (580-89287-11)		9/17/19	15:00 Alaskan	Water	Water		X				2						
MW-2-W-190917 (580-89287-12)		9/17/19	15:30 Alaskan	Water	Water		X				2						
MW-3-W-190917 (580-89287-13)		9/17/19	16:00 Alaskan	Water	Water		X				2						
BD-1-W-190917 (580-89287-14)		9/17/19	Alaskan	Water	Water		X				2						
BD-2-W-190917 (580-89287-15)		9/17/19	Alaskan	Water	Water		X				2						
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.																	
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>											
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For    Months											
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 3		Special Instructions/QC Requirements:											
Empty Kit Relinquished by:			Date:			Time:			Method of Shipment:								
Relinquished by: 			Date/Time: 9/25/19 1450			Company: EUNA			Received by: 			Date/Time: 9/26/19 10:53			Company: TASP0		
Relinquished by:			Date/Time:			Company:			Received by:			Date/Time:			Company:		
Relinquished by:			Date/Time:			Company:			Received by:			Date/Time:			Company:		
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:  0.9											

# Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 580-89287-1

**Login Number: 89287**  
**List Number: 1**  
**Creator: Pilch, Andrew C**

**List Source: Eurofins TestAmerica, Seattle**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Refer to Job Narrative for details.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 580-89287-1

**Login Number: 89287**  
**List Number: 2**  
**Creator: O'Toole, Maria C**

**List Source: Eurofins TestAmerica, Spokane**  
**List Creation: 09/26/19 11:19 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	497227
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	0.9
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.



# APPENDIX D

## ADEC Data Review Checklist



**Laboratory Data Review Checklist**

Completed By:

Suresh PR

Title:

Project Chemist

Date:

November 12, 2019

CS Report Name:

Third Quarter 2019 Groundwater Monitoring Report

Report Date:

October 03, 2019

Consultant Firm:

ARCADIS U.S., Inc

Laboratory Name:

Eurofins TestAmerica Laboratory, Seattle, WA

Laboratory Report Number:

580-89287-1

ADEC File Number:

2100.26.062

Hazard Identification Number:

24602

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 transferred to Eurofins TestAmerica, Spokane for AK102&103 method.

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.

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:

Yes.

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

Yes  No

Comments:

Yes.

c. Were all corrective actions documented?

Yes  No

Comments:

Yes.

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:

No.

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:

The compounds methyl tert-butyl ether (0.133 J ug/l), bromochloromethane (0.0283 J ug/l), ethylbenzene (0.0519 J ug/l), t-butylbenzene (0.133 J ug/l) and n-butylbenzene (0.0896 J ug/l) were detected below the reporting limit in a method blank batch 312585 for method SW846 8260C. A blank action level was established at five times of the detected blank concentration. Associated sample results for compounds methyl tert-butyl ether, ethylbenzene, t-butylbenzene and n-butylbenzene were less than the reporting limit and qualified as non-detect (UB) at the reporting limit. The compound bromochloromethane result in associated samples were non-detect and qualification was not required.

The compounds ethylbenzene, styrene, n-butylbenzene, t-butylbenzene and m&p-xylene were detected below the reporting limit in method blank batch 312662 for method SW846 8260C. A blank action level was established at five times of the detected blank concentration. Associated sample results were non-detect and/or greater than the action level; hence, qualification was not required.

iii. If above MDL, what samples are affected?

Yes  No

Comments:

Ethylbenzene result in samples MW-8-W-190917, SP-1-W-190917, SP-2-W-190917, SP-3-W-190917, MW-4-W-190917, MW-6-W-190917, BD-1-W-190917, BD-2-W-190917, MW-10-W-190917, MW-1-W-190917 and MW-2-W-190917 in samples were qualified as non-detect (UB).

Methyl-t-butyl ether result in sample MW-10-W-190917 was qualified as non-detect (UB).

n-Butylbenzene result in sample MW-6-W-190917 was qualified as non-detect (UB).

t-Butylbenzene result in sample MW-6-W-190917 and MW-2-W-190917 were qualified as non-detect (UB).

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

Yes  No

Comments:

Yes.

v. Data quality or usability affected?

Yes  No

Comments:

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

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

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

Yes  No

Comments:

Yes.

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

Yes  No

Comments:

Metals/Inorganic analysis was not requested for submitted samples.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified 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:

Yes.

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 RPD between LCS/LCSD recoveries for compounds chloromethane and trichlorofluoromethane were greater than the control limit in preparation batch 312585. The associated detected (J) and non-detected (UJ) result for these compounds were qualified as estimated.

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

Yes  No

Comments:

MW-10-W-190917, MW-7-W-190917, MW-6-W-190917, MW-2-W-190917 and MW-3-W-190917.

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

Yes  No

Comments:

Yes.

vii. Data quality or usability affected?

Yes  No

Comments:

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

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

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

Yes  No

Comments:

MS/MSD analysis was requested on MW-1 sample but was not reported in this data package.

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:

Not applicable.

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:

Not applicable.

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

Yes  No

Comments:

Not applicable.

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

Yes  No

Comments:

Not applicable.

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:

Surrogate 1,2-dibromopropane recovery was greater than the control limit in sample MW-7-W-190917 for method SW846 8011. The associated 1,2,3-trichloropropane result was detected and qualified as estimated (J).

Surrogate 1,2-dichloroethane-d4 recovery was greater than the control limit in sample MW-6-W-190917. The associated target compound acetone was qualified for equipment blank contamination and qualification was not required.

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

Yes  No

Comments:

Yes.

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

Yes  No

Comments:

The surrogate recovery exceedances were considered as minor and would result in the estimation of associated data. The reported data should still consider as usable.

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:

The compounds toluene (0.056 J ug/l), ethylbenzene (0.059 J ug/l) and m& p-xylene (0.13 J ug/l) were detected below the reporting limit in Trip Blank-W-190917. A blank action level was established at five times of the detected blank concentration. The associated sample results were qualified as non-detect (UB).



iii. If above MDL, what samples are affected?

Yes  No

Comments:

Ethylbenzene result in samples MW-8-W-190917, SP-1-W-190917, SP-2-W-190917, SP-3-W-190917, MW-4-W-190917, MW-6-W-190917, BD-1-W-190917, BD-2-W-190917, MW-10-W-190917, MW-1-W-190917 and MW-2-W-190917 were qualified as non-detect (UB)

m&p-Xylene result in samples MW-6-W-190917, SP-1-W-190917, SP-2-W-190917, SP-3-W-190917, MW-2-W-190917, MW-4-W-190917, BD-1-W-190917, BD-2-W-190917 and MW-10-W-190917 were qualified as non-detect (UB).

Toluene result in samples MW-6-W-190917 and MW-8-W-190917 were qualified as non-detect (UB).

iv. Data quality or usability affected?

Yes  No

Comments:

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

f. Field Duplicate

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

Yes  No

Comments:

Yes.

ii. Submitted blind to lab?

Yes  No

Comments:

BD-1-W-190917 was collected from MW-4-W-190917 and BD-2-W-190917 was collected from SP-1-W-190917.

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

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

Where  $R_1$  = Sample Concentration  
 $R_2$  = Field Duplicate Concentration

Yes  No

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 EQB-1-W-190917.

i. If above MDL, what samples are affected?

Yes  No

Comments:

The compounds ethylbenzene (0.065 J ug/l), m&p-xylene (0.15 J ug/l) and styrene (0.22 J ug/l) were detected below the reporting limit in an equipment blank sample EQB-1-W-190917 for method 8260C. In addition, acetone (7.4 ug/l) and toluene (0.54 ug/l) were detected greater than the reporting limit. A blank action level was established at five times of the detected blank concentration. The associated sample results were qualified as non-detect (UB).

The compound toluene result in sample MW-6-W-190917 was qualified as non-detect (UB) at the reporting limit and in samples MW-8-W-190917, MW-5-W-190917 and MW-1-W-190917 was qualified as non-detect (UB) at the sample concentration.

The compound ethylbenzene result in samples MW-4-W-190917, SP-3-W-190917, SP-2-W-190917, SP-1-W-190917, MW-10-W-190917, MW-6-W-190917, MW-1-W-190917, MW-2-W-190917, BD-1-W-190917 and BD-2-W-190917 were qualified as non-detect (UB) at the reporting limit and in the sample MW-8-W-190917 was qualified as non-detect (UB) at the detected sample concentration.

The compound m& p-xylene result in samples MW-4-W-190917, SP-3-W-190917, SP-2-W-190917, SP-1-W-190917, MW-10-W-190917, MW-6-W-190917, MW-2-W-190917, BD-1-W-190917 and BD-2-W-190917 were qualified as non-detect (UB) at the reporting limit.

The compound styrene result in samples MW-10-W-190917, MW-7-W-190917, MW-6-W-190917 and MW-3-W-190917 were qualified as non-detect (UB) at the reporting limit.

The compound acetone result in sample MW-6-W-190917 was qualified as non-detect (UB) at reporting limit.

ii. Data quality or usability affected?

Equipment blank contamination considered as minor and would result in the estimation of associated data.  
The reported data should still consider as usable.

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

a. Defined and appropriate?

Yes    No

Comments:

Yes.