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Mr. Shawn Tisdell
Alaska Department of Environmental Conservation
610 University Avenue
Fairbanks, Alaska 99709

Subject:
2019 Annual Groundwater Monitoring Report

ENVIRONMENT

Dear Mr. Tisdell,

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

Date:
December 12, 2019

Former Texaco

<u>Station No.</u>	<u>ADEC File No.</u>	<u>Hazard ID</u>	<u>Location</u>
211081	100.26.023	23798	4103 Geist Road Fairbanks, Alaska

Contact:
Nicole Monroe

Phone:
503-785-9414

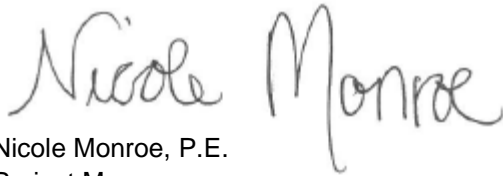
If you have any questions, please do not hesitate to contact me.

Email:
Nicole.Monroe@arcadis.com

Sincerely,

Our ref:
30010480

Arcadis U.S., Inc.



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

Copies:
Tim Bishop (*electronic copy*)
Camie Pederson (*electronic copy*)
Trish Winters/Chilkoot Ward (*electronic copy*)

Chevron Environmental Management Company

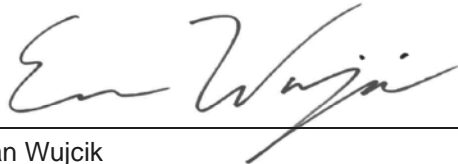
2019 ANNUAL GROUNDWATER MONITORING REPORT

University Car Care Center/Former Texaco 211081
4103 Geist Road
Fairbanks, Alaska
ADEC file no: 100.26.023
Hazard ID: 23798

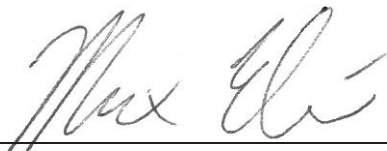
December 12 2019

A large orange geometric shape, consisting of a triangle and a rectangle, is positioned in the bottom right corner of the page. A thin white line runs horizontally across the page, intersecting the orange shape.

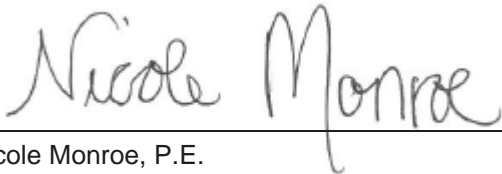
2019 ANNUAL GROUNDWATER MONITORING REPORT



Evan Wujcik
Environmental Engineer



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University Car Care Center/Former Texaco 211081

4103 Geist Road
Fairbanks, Alaska
ADEC File ID: 100.26.023
Hazard ID: 23798

Prepared for:

Chevron Environmental Management
Company

Prepared by:

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Our Ref.:
30015180

Date:
December 12, 2019

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**ANNUAL STATUS REPORT
 FIRST HALF 2019
 December 12, 2019**

Facility No: Former Texaco 211081 Address: 4103 Geist Road, Anchorage, Alaska

Arcadis Contact Person / Phone No.: Nicole Monroe / (503) 785 9414

Arcadis Project No.: 30015180

Primary Agency/Regulatory ID No.: Alaska Department of Environmental Conservation (ADEC) /
 Shawn Tisdell / ADEC File ID 100.26.023

WORK CONDUCTED THIS PERIOD [2019]:

1. Well repair activities conducted on June 20, 2019
2. Conducted annual groundwater monitoring activities on July 10, 2019
3. Prepared the *Annual Status Report, 2019*
4. Well survey was conducted on July 25, 2019

WORK PROPOSED NEXT PERIOD [2020]:

1. Conduct annual groundwater monitoring activities in 2020
2. Prepare the *Annual Status Report, 2020*.

Current Phase of Project:	<u>Monitoring</u>	
Frequency of Monitoring / Sampling:	<u>Annual</u>	
Is Light Non-Aqueous Phase Liquid (LNAPL) Present On-site:	<u>No</u>	
Cumulative LNAPL Recovered to Date:	<u>None</u>	(gallons)
Approximate Depth to Groundwater:	<u>10.81 to 16.45</u>	(feet below top of casing)
Approximate Groundwater Elevation:	<u>423.31 to 423.43</u>	(feet relative to corresponding datum)

Groundwater Flow Direction	Southwest	
Groundwater Gradient	0.002	(feet per foot)
Current Remediation Techniques:	None	
Permits for Discharge:	None	
Summary of Unusual Activity:	Well repairs were conducted on G-1R, MW-305 was inaccessible, and MW-307 was obstructed at 14.4 ft below the top of casing.	
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 annual groundwater sampling events of 2019 for University Car Care Center/former Texaco service station no. 211081 (the site), located at 4103 Geist Road in Fairbanks, Alaska. The site location and site plan are included as 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)]. Site background and history summaries are attached as Appendix A.

2 WELL REPAIR ACTIVITIES

On June 16, 2019 Arcadis field staff replaced the bolts at G-1R.

3 GROUNDWATER MONITORING

3.1 Groundwater Gauging Methods

The 2019 annual groundwater gauging event was conducted on July 10, 2019. Site monitoring wells were gauged with an oil/water interface probe to determine depth-to-water and to ascertain if LNAPL was present. The well survey was conducted on July 31, 2019.

In order to prevent the possibility of cross-contamination, wells were gauged in the order of lowest to highest historical petroleum hydrocarbon concentrations in groundwater. In addition, non-disposable groundwater gauging equipment was decontaminated prior to and after each use with a detergent solution and rinsed in potable water.

3.2 Groundwater Elevation and Flow Direction

During the 2019 annual event, monitoring wells G-1R, G-3, G-4, G-5, G-7, G-8, G-9, MW-301D, MW-301S, MW-304D, MW-304S and MW-305 through MW-307 were scheduled to be gauged for groundwater elevations and the presence of LNAPL. The groundwater monitoring event field notes are presented in Appendix B. MW-305 was inaccessible and MW-307 was obstructed at 14.4 ft below the top of casing during the 2019 annual groundwater sampling event.

The inferred groundwater flow direction for the annual 2019 monitoring events is to the southwest and is consistent with the 2018 groundwater flow data, however the 2018 and 2019 events are not consistent with the overall historic flow direction of north-northwest. This is likely due to the University changing the flow of their groundwater well. Current and historical groundwater elevation data and analytical data are included in Table 1 and 2 respectively. A groundwater elevation contour map is presented as Figure 3. A rose diagram of historical groundwater flow direction is also included within Figure 3.

3.3 Groundwater Sampling Methods

The first semi-annual groundwater monitoring event were conducted on July 10, 2019. Groundwater samples were collected from monitoring wells G-1R, G-3, G-4, G-5, G-7, G-8, MW-301D, and MW-304D using a low flow purge sampling method.

Sampling procedures were conducted in accordance with ADEC *Field Sampling Guidance* (ADEC, 2017). Monitoring well caps were removed to allow groundwater levels to stabilize and equilibrate before using an electronic interface probe (EIP) meter capable of 0.01-foot accuracy to measure the depth to groundwater and total well depth. A bladder pump with compressor & control unit with clean/disposable Teflon lined tubing and bladders was used to purge groundwater from the wells and collect samples to minimize the risk of volatile contaminant absorption by the sampling equipment. Water table drawdown was continuously monitored during purging with a water level meter and the flow rate of the pump was adjusted to limit drawdown to 0.1 meter. The intake of the pump was set as close as possible to the soil groundwater interface. Water quality parameters were monitored during purging with a multi-parameter water quality meter equipped with a flow through cell and Turbidity meter. Parameters were recorded every 3 to 5 minutes until a minimum of three (minimum of four if using temperature as an indicator) of the parameters listed below stabilized. The flow rate was reduced to 100-150 ml/minute and samples were collected from the discharge line into laboratory sample bottles. Water quality parameters were considered stable when three successive readings were within the following ADEC limits:

- $\pm 3\%$ for temperature (minimum of $\pm 0.2\text{ C}^\circ$),
- ± 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 Lancaster Laboratories Environmental (Eurofins) in Lancaster, Pennsylvania, under proper chain-of-custody procedures.

Groundwater samples collected from monitoring wells G-1R, G-3, G-4, G-5, G-7, G-8, MW-301D, and MW-304D 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) and Diesel range organics with silica gel cleanup concentrations (TPH-d w/Si gel) by Alaska method AK102-SV 4/8/02
- Total Petroleum Hydrocarbons-Residual range organics (TPH-r) by Alaska method AK103

3.4 Groundwater Analytical Results

Routine analytical results for the above-mentioned constituents obtained from the annual 2019 groundwater monitoring event are summarized in Table 2 and are shown on Figure 4.

4 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 annual 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.

4.1 Precision

The relative percent difference (RPD) for laboratory control sample / laboratory control sample duplicate (LCS/LCSD) and field duplicate (FD) were within the control limits. The RPD between matrix spike (MS) and matrix spike duplicate (MSD) for compound gasoline range organics (GRO)-C6-C10 for method AK101 in sample MW-304D-W-190710 was exceeded the control limit. The associated sample result was qualified as estimated.

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

4.2 Accuracy

The MS/MSD analysis was performed using sample MW-304D-W-190710. The low MS and MSD recoveries were observed for compounds benzene, ethylbenzene, m-xylene & p-xylene, o-xylene, toluene for method SW8260C and low MSD recovery was observed for compound gasoline range organics (GRO)-C6-C10 for method AK101 in sample MW-304D-W-190710. The associated result was qualified as estimated.

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

4.3 Representativeness

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

4.4 Comparability

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

4.5 Completeness

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

4.6 Sensitivity

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

5 CONCLUSIONS AND RECOMMENDATIONS

The groundwater data collected during the annual 2019 groundwater monitoring event indicates groundwater flow directions are to the southwest, consistent with 2018 flow data but inconsistent with historical groundwater flows, likely due to the University changing the flow of their groundwater well. Groundwater samples were collected for analysis from monitoring wells G-1R, G-3, G-4, G-5, G-7, G-8, MW-301D, and MW-304D; analytical results are generally consistent with historical data.

Groundwater monitoring will continue in accordance with the current annual schedule. The next annual sampling event is scheduled for summer 2020.

6 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

University Car Care Center / Former Texaco 211081
 4103 Geist Road,
 Anchorage, Alaska

Well ID	Sample Date	TOC (ft)	Datum	DTW* (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft)	TPH-d (mg/L)	TPH-d w/Si Gel (mg/L)	TPH-g (mg/L)	TPH-r (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)
ADEC Groundwater Cleanup Levels^a							1.5	1.5	2.2	1.1	0.0046	1.1	0.015	0.19
G-1R	7/10/2019	435.66	NAVD88	12.35	0.00	423.31	0.35	<0.078	<0.1 J	0.43	<0.00053	<0.00039	<0.00050	<0.00114
G-3	7/10/2019	434.73	NAVD88	11.36	0.00	423.37	2.4	0.85	4.5 J	0.77	0.68 D	0.08	0.47 D	0.892 D
G-4	7/10/2019	436.81	NAVD88	13.45	0.00	423.36	1	0.51	3.8 J	0.51	1.8 D	0.0075	0.65 D	0.83 D
G-5	7/10/2019	435.28	NAVD88	11.91	0.00	423.37	3.5	3	27 J	0.3	0.1 J	0.24	1.3	11.2 D
G-7	7/10/2019	436.58	NAVD88	13.25	0.00	423.33	0.34	<0.078	<0.1 J	0.37	0.0045	<0.00039	0.0026 J	<0.00114
G-8	7/10/2019	436.03	NAVD88	12.65	0.00	423.38	0.58	<0.076	<0.1 J	0.69	<0.00053	<0.00039	<0.00050	<0.00114
G-9	7/10/2019	435.64	NAVD88	12.27	0.00	423.37	--	--	--	--	--	--	--	--
MW-301D	7/10/2019	437.87	NAVD88	14.49	0.00	423.38	--	--	<0.1 J / <0.1 J	--	<0.00053 / <0.00053	<0.00039 / <0.00039	<0.00050 / <0.00050	<0.00114 / <0.00114
MW-301S	7/10/2019	437.51	NAVD88	14.13	0.00	423.38	--	--	--	--	--	--	--	--
MW-304D	7/10/2019	439.88	NAVD88	16.45	0.00	423.43	--	--	<0.1 J	--	<0.00053 J	<0.00039 J	<0.00050 J	0.00094 J
MW-304S	7/10/2019	439.56	NAVD88	16.13	0.00	423.43	--	--	--	--	--	--	--	--
MW-305 ¹	7/10/2019	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-306	7/10/2019	434.17	NAVD88	10.81	0.00	423.36	--	--	--	--	--	--	--	--
MW-307 ²	7/10/2019	--	--	--	--	--	--	--	--	--	--	--	--	--
QA - EB	7/10/2019	--	--	--	--	--	<0.077	<0.077	<0.1 J	<0.068	<0.00053	<0.00039	<0.00050	<0.00114

Notes:

MW, G = 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
 LNAPL = Light non-aqueous phase liquid
 -- = Not analyzed/ Not available

BOLD = Indicates concentration above method detection limit (MDL)

BOLD AND SHADED = Indicates concentration above the ADEC Table C Groundwater Cleanup Level

<0.0002 = Not detected at or above the method detection limit (MDL)

J = Estimated value (between MDL and Reporting Limit (RL))

D = The sample result reported from dilution

¹ = Well Inaccessible

² = Well obstructed at 14.4 ft bTOC

TPH-d = Total petroleum hydrocarbons, diesel range by LUFT GC/MS according to Alaska Series Method AK102 and AK103

TPH-d w/Si Gel = Total petroleum hydrocarbons, diesel range with silica gel by LUFT GC/MS according to Alaska Series Method AK102 and AK103

TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to Alaska Series Method AK101

TPH-r = Total petroleum hydrocarbons, residual range organics by LUFT GC/MS according to Alaska Series Method AK102 and AK103

Analytes by United States Environmental Protection Agency (USEPA) Method 8260C

Benzene, Toluene, Ethylbenzene, and Total Xylenes (collectively called BTEX) by SW-846 8021B or 8260B

Total Xylenes = Sum of m-, o-, and p-xylenes

MTBE = Methyl Tertiary-Butyl Ether

ADEC = Alaska Department of Environmental Conservation

QA - EB = Quality Assurance - Equipment Blank

^a = Levels established in ADEC Table C Groundwater Cleanup Levels (18 AAC 75.345)

* Depth to water taken from well survey dated July 25, 2019

NAVD88 = The North American Vertical Datum of 1988

x / y = Sample Results / Blind Duplicate Results

Table 2. Historical Groundwater Gauging and Analytical Results
First Quarter 200 to Current
 University Car Care Center / Former Texaco 211081
 4103 Geist Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-d w/Si gel (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)	Comments
ADEC Groundwater Cleanup Levels^a						1.5	1.5	2.2	1.1	0.0046	1.1	0.015	0.19	0.14	
G-1R	3/28/2000	430.69	15.37	--	415.32	--	--	--	--	--	--	--	--	--	
G-1R	6/27/2000	430.69	12.07	--	418.62	--	--	--	--	--	--	--	--	--	
G-1R	9/26/2000	430.69	11.09	--	419.60	--	--	--	--	--	--	--	--	--	
G-1R	12/19/2000	430.69	13.59	--	417.10	--	--	--	--	--	--	--	--	--	
G-1R	3/28/2001	430.69	14.51	--	416.18	--	--	--	--	--	--	--	--	--	
G-1R	6/27/2001	430.69	12.96	--	417.73	--	--	--	--	--	--	--	--	--	
G-1R	9/19/2001	430.69	12.03	--	418.66	--	--	--	--	--	--	--	--	--	
G-1R	12/12/2001	430.69	14.32	--	416.37	--	--	--	--	--	--	--	--	--	
G-1R	3/27/2002	430.69	14.62	--	416.07	--	--	--	--	--	--	--	--	--	
G-1R	6/25/2002	430.69	11.86	--	418.83	--	--	--	--	--	--	--	--	--	
G-1R	9/28/2002	430.69	11.62	--	419.07	--	--	--	--	--	--	--	--	--	
G-1R	12/17/2002	430.69	12.87	--	417.82	--	--	--	--	--	--	--	--	--	
G-1R	4/8/2003	430.69	12.61	--	418.08	--	--	--	--	--	--	--	--	--	
G-1R	6/24/2003	430.69	13.07	--	417.62	--	--	--	--	--	--	--	--	--	
G-1R	9/16/2003	430.69	9.82	--	420.87	--	--	--	--	--	--	--	--	--	
G-1R	12/22/2003	430.69	12.69	--	418.00	--	--	--	--	--	--	--	--	--	
G-1R	3/23/2004	430.69	14.50	--	416.19	--	--	1.6	--	0.094	0.0014	0.14	0.003	--	
G-1R	6/21/2004	430.69	11.98	--	418.71	--	--	1.4 / 1.6	--	0.089 / 0.095	0.0009 / 0.001	0.089 / 0.11	0.0042 / 0.0057	--	BTEX by SW-846 8021B
G-1R	9/29/2004	430.69	13.32	--	417.37	--	--	0.069	--	0.013	<0.00050	0.0019	<0.00150	--	
G-1R	12/2/2004	430.69	14.49	--	416.20	0.16	--	0.74	0.12	0.043	<0.00050	0.048	0.0025	--	
G-1R	4/7/2005	430.69	14.61	--	416.08	0.4	--	1.7	0.18	0.087	0.0009	0.15	0.009	--	
G-1R	6/27/2005	430.69	11.04	--	419.65	0.45 / 0.42	--	2.3 / 2.3	0.14 / 0.15	0.11 / 0.11	0.0009 / 0.0009	0.16 / 0.16	0.0081 / 0.0081	--	BTEX by SW-846 8021B
G-1R	9/22/2005	430.69	12.20	--	418.49	0.053 / 0.054	--	0.14 / 0.14	0.039 / 0.066	0.0151 / 0.0171	<0.000501 / <0.000501	0.0131 / 0.011	<0.001501 / <0.001501	--	BTEX by SW-846 8021B
G-1R	12/6/2005	430.69	13.92	--	416.77	--	--	0.29	--	0.026	<0.00050	0.02	<0.00150	--	
G-1R	3/29/2006	430.69	15.29	--	415.40	--	--	--	--	--	--	--	--	--	
G-1R	6/8/2006	430.69	12.94	--	417.75	--	--	--	--	--	--	--	--	--	
G-1R	9/26/2006	98.87	12.99	--	85.88	--	--	0.024 / 0.026	--	0.0027 / 0.0027	<0.00050 / <0.00050	0.0014 / 0.0013	<0.00150 / <0.00150	--	BTEX by SW-846 8021B
G-1R	3/31/2007	98.87	15.31	--	83.56	--	--	0.5	--	0.03	<0.0010	0.02	<0.0020	--	
G-1R	9/15/2007	98.87	12.35	--	86.52	--	--	0.02	--	0.008	<0.0010	<0.0010	<0.0020	--	
G-1R	3/26/2008	98.87	14.92	--	83.95	--	--	0.427	--	0.0329	<0.00050	0.0159	0.0025	--	
G-1R	9/9/2008	98.87	11.87	--	87.00	--	--	0.03	--	0.001	<0.0010	<0.0010	<0.0020	--	
G-1R	5/11/2009	98.87	13.70	--	85.17	--	--	1.8	--	0.074	0.0007	0.12	0.015	--	
G-1R	10/2/2009	435.81	13.26	--	422.55	--	--	0.024	--	0.0011	<0.00050	<0.00050	<0.00150	--	
G-1R	6/16/2010	435.81	13.84	--	421.97	0.34	--	0.68	--	0.015	0.001	0.028	<0.00150	--	
G-1R	9/25/2010	435.81	12.80	--	423.01	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
G-1R	6/9/2011	435.81	13.51	--	422.30	--	--	0.024	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
G-1R	9/20/2011	435.81	12.22	--	423.59	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
G-1R	6/12/2012	435.81	12.68	--	423.13	0.18	0.081	0.28	0.099	0.0074	0.0005	0.0058	0.0018	--	
G-1R	10/2/2012	435.77	13.23	--	422.54	0.48	<0.052	0.0120 J	3.7	0.00060 J	<0.00050	<0.00050	<0.00150	--	
G-1R	6/11/2013	435.77	12.00	--	423.77	--	--	0.5600	--	0.0174	0.000310 J	0.0443	0.0079	--	
G-1R	10/10/2013	435.77	13.25	--	422.52	<0.4300 / <0.4300	--	<0.1000 / <0.1000	--	<0.00100 / <0.00100	<0.00100 / <0.00100	<0.00100 / <0.00100	<0.00300 / <0.00300	--	
G-1R	6/30/2014	435.77	11.60	--	424.17	<0.42	--	0.4110	--	0.0075	<0.00100	0.0251	0.0066	--	
G-1R	9/16/2015	435.77	11.37	--	424.44	0.59 J	--	0.17	0.74 J	<0.00050	<0.00050	<0.00050	<0.00050	--	
G-1R	8/3/2016	435.77	9.06	--	426.71	1.2 J	0.035 J	0.051 J	0.55 J	<0.0005	<0.0005	<0.0005	<0.0005	--	
G-1R	9/19/2017	435.46	11.97	--	423.49	--	<0.052 J	0.16	0.19 J	0.039	<0.0005	<0.0005	<0.0005	--	
G-1R	8/20/2018	435.45	10.17	--	425.28	0.17 J	0.11 J	0.044 J	0.11 J	0.002	<0.0002	<0.0002	<0.0005	--	
G-1R	7/10/2019	435.66	12.35	--	423.31	0.35	< 0.078	<0.1 J	0.43	<0.00053	< 0.00039	< 0.00050	< 0.00114	--	Depth to water taken from well survey dated July 25, 2019
G-2	3/28/2000	430.11	--	--	--	--	--	--	--	--	--	--	--	--	
G-2	6/27/2000	430.11	11.51	--	418.60	--	--	--	--	--	--	--	--	--	
G-2	9/26/2000	430.11	10.56	--	419.55	--	--	--	--	--	--	--	--	--	
G-2	3/27/2002	430.11	--	--	--	--	--	--	--	--	--	--	--	--	
G-2	4/8/2003	430.11	--	--	--	--	--	--	--	--	--	--	--	--	
G-2	3/24/2004	430.11	--	--	--	--	--	--	--	--	--	--	--	--	
G-2	4/6/2005	430.11	--	--	--	--	--	--	--	--	--	--	--	--	
G-2	6/27/2005	430.11	10.47	--	419.64	0.21	--	<0.0100	0.49	<0.00050	<0.00050	<0.00050	<0.00150	--	
G-2	9/22/2005	430.11	11.62	--	418.49	--	--	--	--	--	--	--	--	--	
G-2	3/30/2006	430.11	14.73	--	415.38	--	--	--	--	--	--	--	--	--	
G-3	7/15/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	
G-3	7/25/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	
G-3	5/12/2009	429.36	11.89	--	417.47	3.2	--	19	--	0.014	0.1	0.96	4	--	

Table 2. Historical Groundwater Gauging and Analytical Results
First Quarter 200 to Current
 University Car Care Center / Former Texaco 211081
 4103 Geist Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-d w/Si gel (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)	Comments
ADEC Groundwater Cleanup Levels^a						1.5	1.5	2.2	1.1	0.0046	1.1	0.015	0.19	0.14	
G-3	10/2/2009	434.46	11.87	--	422.59	--	--	9	--	0.011	0.069	0.41	2.5	--	
G-3	6/17/2010	434.46	12.43	--	422.03	27	--	13	--	0.069	0.89	0.54	3.3	--	
G-3	9/25/2010	434.46	11.42	--	423.04	12	--	33	<1.4	0.13	0.88	0.98	7.8	--	
G-3	6/8/2011	434.46	--	--	--	--	--	--	--	--	--	--	--	--	
G-3	7/29/2011	--	--	--	--	4.3	--	7.6	--	0.025 / 0.026	0.032 / 0.0085	0.26 / 0.2	1.9 / 0.79	--	BTEX by SW-846 8021B
G-3	9/20/2011	434.46	12.50	--	421.96	4.8	--	22	<1.3	<0.0310	0.041	0.72	4.8	--	
G-3	6/11/2012	434.46	--	--	--	--	--	--	--	--	--	--	--	--	
G-3	10/2/2012	434.42	11.85	--	422.57	9	4.4	12	0.87J	<0.0410 / <0.0390	0.018 / 0.019	0.61 / 0.62	3.3 / 3.4	--	BTEX by SW-846 8021B
G-3	6/11/2013	434.42	10.57	--	423.85	2.7	1.6	3.48	--	0.00120 J	0.0047	0.188	0.516	--	
G-3	10/10/2013	434.42	11.86	--	422.56	3.1	1.8	10.4	1.1	<0.00100	0.0119	0.0335	3.21	--	
G-3	6/29/2014	434.42	10.20	--	424.22	--	--	--	--	--	--	--	--	--	
G-3	9/16/2015	434.42	9.98	--	424.44	6.9	--	15	4.9	0.0090J	0.027	0.21	4.1	--	
G-3	8/3/2016	434.42	8.01	--	426.41	2.1	0.30 J	5.4	0.61 J	0.003 J	0.01	0.22	0.83	--	
G-3	9/19/2017	434.55	11.01	--	423.54	2.4 J / 4.2 J	0.93 J / 1.7 J	7.7 / 7.4	<0.40 / 1.1 J	0.75 / 0.67	0.004 J / 0.003 J	0.41 / 0.36	0.91 / 0.80	--	
G-3	8/20/2018	434.53	9.27	--	425.26	4.2	0.80 J	6.2	0.34	0.39	<0.001	0.49	0.83	--	
G-3	7/10/2019	434.73	11.36	0.00	423.37	2.4	0.85	4.5 J	0.77	0.68 D	0.08	0.47 D	0.892 D	--	Depth to water taken from well survey dated July 25, 2019
G-4	3/28/2000	431.62	--	--	--	--	--	--	--	--	--	--	--	--	
G-4	6/27/2000	431.62	13.10	--	418.52	--	--	--	--	--	--	--	--	--	
G-4	9/26/2000	431.62	12.05	--	419.57	--	--	--	--	--	--	--	--	--	
G-4	12/19/2000	431.62	14.56	--	417.06	--	--	--	--	--	--	--	--	--	
G-4	3/30/2001	431.62	--	--	--	--	--	--	--	--	--	--	--	--	
G-4	6/28/2001	431.62	14.02	--	417.60	--	--	--	--	--	--	--	--	--	
G-4	9/19/2001	431.62	13.12	--	418.50	--	--	--	--	--	--	--	--	--	
G-4	12/12/2001	431.62	15.30	--	416.32	--	--	--	--	--	--	--	--	--	
G-4	3/27/2002	431.62	15.59	--	416.03	--	--	--	--	--	--	--	--	--	
G-4	6/25/2002	431.62	12.90	--	418.72	--	--	--	--	--	--	--	--	--	
G-4	9/28/2002	431.62	12.53	--	419.09	--	--	--	--	--	--	--	--	--	
G-4	12/17/2002	431.62	13.89	--	417.73	--	--	--	--	--	--	--	--	--	
G-4	4/8/2003	431.62	--	--	--	--	--	--	--	--	--	--	--	--	
G-4	6/25/2003	431.62	--	--	--	--	--	--	--	--	--	--	--	--	
G-4	9/16/2003	431.62	--	--	--	--	--	--	--	--	--	--	--	--	
G-4	12/22/2003	431.62	--	--	--	--	--	--	--	--	--	--	--	--	
G-4	3/24/2004	431.62	--	--	--	--	--	--	--	--	--	--	--	--	
G-4	6/21/2004	431.62	--	--	--	--	--	9.4	--	0.036	1.3	0.15	1.7	--	
G-4	9/29/2004	431.62	14.04	--	417.58	--	--	0.29	--	<0.00050	0.0005	0.0015	0.04	--	
G-4	12/2/2004	431.62	15.23	--	416.39	0.062	--	0.015	0.089	0.0038	<0.00050	<0.00050	<0.00150	--	
G-4	12/2/2004	--	--	--	--	0.48	--	0.17	0.57	<0.00050	<0.00050	0.0006	0.0048	--	
G-4	4/7/2005	431.62	15.41	--	416.21	0.27	--	<0.0100	0.32	<0.00050	<0.00050	<0.00050	<0.00150	--	
G-4	6/27/2005	431.62	11.95	--	419.67	0.75	--	5	0.12	0.011	0.43	0.077	0.83	--	
G-4	9/22/2005	431.62	12.90	--	418.72	1.2	--	3	1.1	0.012	0.45	0.055	0.62	--	
G-4	12/7/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	
G-4	3/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	
G-4	6/8/2006	--	13.93	--	--	--	--	--	--	--	--	--	--	--	
G-4	9/26/2006	99.66	13.70	--	85.96	--	--	1.6	--	0.019	0.0016	0.03	0.38	--	
G-4	12/20/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	
G-4	3/31/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	
G-4	9/15/2007	99.66	13.12	--	86.54	--	--	5.2	--	0.4	0.2	0.4	1	--	
G-4	1/30/2008	99.66	15.11	--	84.55	--	--	--	--	0.6	3.2	1.1	2.8	--	
G-4	3/26/2008	99.66	15.72	--	83.94	--	--	68.1	--	1.06	11.4	2.5	9.18	--	
G-4	6/27/2008	99.66	--	--	--	--	--	--	--	--	--	--	--	--	
G-4	9/9/2008	99.66	12.59	--	87.07	--	--	5.4	--	0.2	0.2	0.3	0.9	--	
G-4	12/12/2008	99.66	15.14	--	84.52	--	--	--	--	--	--	--	--	--	
G-4	1/13/2009	99.66	15.32	--	84.34	--	--	22	--	0.3	3.5	1.1	4.6	--	
G-4	5/8/2009	99.66	14.65	--	85.01	--	--	--	--	--	--	--	--	--	
G-4	5/12/2009	--	--	--	--	--	--	31	--	2.6	4.2	1.2	4.6	--	
G-4	10/2/2009	436.50	14.00	--	422.50	--	--	44	--	0.3	5.5	1.7	11	--	
G-4	6/16/2010	436.50	--	--	--	--	--	--	--	--	--	--	--	--	
G-4	8/17/2010	--	--	--	--	0.44	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
G-4	9/25/2010	436.50	13.58	--	422.92	2.3	--	0.28	0.82	<0.00250	<0.00250	0.0067	0.085	--	
G-4	6/8/2011	436.50	--	--	--	--	--	--	--	--	--	--	--	--	
G-4	9/20/2011	436.50	13.03	--	423.47	6.1	--	3.9	<1.3	0.03	0.0081	0.19	0.83	--	

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First Quarter 200 to Current**
University Car Care Center / Former Texaco 211081
4103 Geist Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-d w/Si gel (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)	Comments
ADEC Groundwater Cleanup Levels^a						1.5	1.5	2.2	1.1	0.0046	1.1	0.015	0.19	0.14	
G-4	6/11/2012	434.46	13.50	--	420.96	--	--	--	--	--	--	--	--	--	
G-4	10/2/2012	436.53	14.01	--	422.52	6.3	2.9	17	<0.33	0.14	1.7	0.97	4.6	--	
G-4	6/10/2013	436.53	--	--	--	--	--	--	--	--	--	--	--	--	
G-4	10/10/2013	436.53	13.99	--	422.54	7.3	3.7	15.9	--	0.164	0.816	0.651	4.04	--	
G-4	6/29/2014	436.53	--	--	--	--	--	--	--	--	--	--	--	--	
G-4	9/16/2015	436.53	12.22	--	424.31	2.5	--	2.5	1	0.024	0.08	0.061	0.49	--	
G-4	8/3/2016	436.53	9.99	--	426.54	4.8	1.4	53	0.25 J	1.8	6.1	1.4	7.6	--	
G-4	9/19/2017	436.32	12.63	--	423.69	1.3	0.23 J	8.3	0.23 J	1.7	0.19	0.3	0.62	--	
G-4	8/20/2018	436.62	11.23	--	425.39	0.4	0.19 J	3.9	0.14 J	0.81 / 0.83	0.055 / 0.053	0.22 / 0.20	0.27 / 0.24	--	
G-4	7/10/2019	436.81	13.45	0.00	423.36	1	0.51	3.8 J	0.51	1.8 D	0.0075	0.65 D	0.83 D	--	Depth to water taken from well survey dated July 25, 2019
G-5	1/30/1982	98.39	13.78	--	84.61	--	--	--	--	--	--	--	--	--	
G-5	3/28/2000	430.19	14.86	--	415.33	--	--	--	--	--	--	--	--	--	
G-5	6/27/2000	430.19	11.56	--	418.63	--	--	--	--	--	--	--	--	--	
G-5	9/26/2000	430.19	10.53	--	419.66	--	--	--	--	--	--	--	--	--	
G-5	12/19/2000	430.19	13.07	--	417.12	--	--	--	--	--	--	--	--	--	
G-5	3/30/2001	430.19	14.05	--	416.14	--	--	--	--	--	--	--	--	--	
G-5	6/27/2001	430.19	12.43	--	417.76	--	--	--	--	--	--	--	--	--	
G-5	9/19/2001	430.19	11.69	--	418.50	--	--	--	--	--	--	--	--	--	
G-5	12/12/2001	430.19	13.82	--	416.37	--	--	--	--	--	--	--	--	--	
G-5	3/27/2002	430.19	14.10	--	416.09	--	--	--	--	--	--	--	--	--	
G-5	6/25/2002	430.19	11.37	--	418.82	--	--	--	--	--	--	--	--	--	
G-5	9/28/2002	430.19	11.05	--	419.14	--	--	--	--	--	--	--	--	--	
G-5	12/17/2002	430.19	12.39	--	417.80	--	--	--	--	--	--	--	--	--	
G-5	4/8/2003	430.19	12.12	--	418.07	--	--	--	--	--	--	--	--	--	
G-5	6/24/2003	430.19	12.57	--	417.62	--	--	--	--	--	--	--	--	--	
G-5	9/16/2003	430.19	9.30	--	420.89	--	--	--	--	--	--	--	--	--	
G-5	12/22/2003	430.19	12.18	--	418.01	--	--	--	--	--	--	--	--	--	
G-5	3/24/2004	430.19	14.01	--	416.18	--	--	94	--	<0.1000	5.8	2.6	15	--	
G-5	6/21/2004	430.19	11.46	--	418.73	--	--	90	--	0.19	6.2	2.8	19	--	
G-5	9/29/2004	430.19	12.80	--	417.39	--	--	110	--	0.14	6.4	3.4	21	--	
G-5	12/2/2004	430.19	13.98	--	416.21	26	--	97	3.4	0.12	6	3.2	17	--	
G-5	4/7/2005	430.19	14.11	--	416.08	5.3	--	53	0.53	0.048	3	2	8.8	--	
G-5	6/27/2005	430.19	10.52	--	419.67	7	--	76	1.1	0.1	4.2	2.8	16	--	
G-5	9/23/2005	430.19	11.67	--	418.52	8.1	--	65	<1.0	0.074	3.4	2.5	16	--	
G-5	12/7/2005	430.19	13.40	--	416.79	8.5	--	80	--	0.071	3.7	3	17	--	<0.0630
G-5	3/30/2006	430.19	14.75	--	415.44	--	--	--	--	--	--	--	--	--	
G-5	6/8/2006	430.19	12.50	--	417.69	--	--	--	--	--	--	--	--	--	
G-5	9/27/2006	98.39	12.45	--	85.94	7.3	--	83	--	0.072	3.4	3.3	21	--	
G-5	12/20/2006	98.39	13.91	--	84.48	4.4	--	66	--	0.056	3.7	2.6	16	--	
G-5	3/31/2007	98.39	14.79	--	83.60	2	--	40	<0.20	0.09	2	1.8	9.1	--	
G-5	6/10/2007	98.39	13.17	--	85.22	1.9	--	34	<0.0940	<1.0000	2.1	1.5	7.6	--	
G-5	9/15/2007	98.39	11.82	--	86.57	12	--	55	--	0.08	2.1	2.1	15	--	
G-5	1/30/2008	98.39	13.78	--	84.61	6.1 / 6.4	--	--	--	<0.0400 / <0.0500	1.8 / 1.5	1.8 / 1.4	9.3 / 7.7	--	BTEX by SW-846 8021B
G-5	3/26/2008	98.39	14.40	--	83.99	3.26	--	31	<0.7430	0.00844	1.56	1.38	6.87	--	
G-5	6/30/2008	98.39	12.57	--	85.82	11	--	36	<0.98	<0.0500	0.9	1.3	8.4	--	
G-5	7/8/2008	98.39	12.58	--	85.81	12	--	44	--	<0.0500	0.9	1.6	11	--	
G-5	8/7/2008	98.39	9.94	--	88.45	2.8	--	26	--	<0.0400	0.4	1.2	7.8	--	
G-5	9/9/2008	98.39	11.32	--	87.07	2.4	--	23	<0.50	0.03	0.3	0.9	6.3	--	
G-5	12/12/2008	98.39	13.82	--	84.57	--	--	--	--	--	--	--	--	--	
G-5	1/13/2009	98.39	13.97	--	84.42	3.5	--	23	<0.48	<0.1000	0.4	1.4	6.9	--	
G-5	5/13/2009	98.39	13.18	--	85.21	0.9	--	7.1	<0.10	<0.00250	0.11	0.29	1.9	--	
G-5	10/1/2009	435.28	12.71	--	422.57	3.1	--	48	<0.98	<0.1000	0.4	2.2	13	--	
G-5	6/17/2010	435.28	13.86	--	421.42	3.5	--	11	--	<0.0200	0.069	0.51	3.5	--	
G-5	9/25/2010	435.28	12.29	--	422.99	12	--	43 / 44	1.4	<0.0500 / <0.0200	0.14 / 0.15	1.9 / 1.9	9.5 / 9.6	--	BTEX by SW-846 8021B
G-5	6/9/2011	435.28	12.99	--	422.29	6	--	40 / 40	<1.3	0.034 / <0.0400	0.082 / 0.073	1.6 / 1.6	12 / 13	--	BTEX by SW-846 8021B
G-5	9/20/2011	435.28	11.71	--	423.57	10	--	49	<1.3	0.044	0.057	2	11	--	
G-5	6/12/2012	435.28	12.10	--	423.18	19	9.2	46	<1.4	<0.0630	0.035	1.8	11	--	
G-5	10/2/2012	435.29	12.71	--	422.58	12	6.9	32	<0.36	<0.0750	0.021	1.7	10	--	
G-5	6/11/2013	435.29	11.48	--	423.81	3.2 / 3.8	2	15.2 / 3.76	<0.42 / <1.2	<0.000240 / <0.00100	0.0033 / 0.0012	0.4670 / 0.0983	2.83 / 0.541	--	
G-5	10/10/2013	435.29	12.69	--	422.60	11	6.9	44.3	<0.43	<0.02000	<0.02000	1.73	11.6	--	
G-5	6/30/2014	435.29	11.09	--	424.20	10.6	6.4	35.9	0.64	<0.00500	0.0056	1.31	8.99	--	

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 University Car Care Center / Former Texaco 211081
 4103 Geist Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-d w/Si gel (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)	Comments
ADEC Groundwater Cleanup Levels^a						1.5	1.5	2.2	1.1	0.0046	1.1	0.015	0.19	0.14	
G-5	9/16/2015	435.29	10.82	--	424.47	2.5	--	1.1	0.4	<0.00050	<0.00050	0.018	0.17	--	
G-5	8/3/2016	435.29	9.02	--	426.27	3.2 / 3.3	1.7 / 1.9	11 / 11	<0.080 / 0.081 J	<0.005 / <0.005	<0.005 / <0.005	0.34 / 0.37	2.3 / 2.4	--	
G-5	9/19/2017	435.09	11.50	--	423.59	14	6.0 J	23	<0.82	0.022	1.1	0.87	5.1	--	
G-5	8/20/2018	435.09	9.79	--	425.30	<0.051 J / 0.96 J	<0.050 J / 0.71 J	1.3 J / 2.3 J	<0.082 / <0.083	0.014	0.05	0.071	0.45	--	
G-5	7/10/2019	435.28	11.91	0.00	423.37	3.5	3	27 J	0.3	0.1 J	0.24	1.3	11.2 D	--	Depth to water taken from well survey dated July 25, 2019
G-6	6/27/2000	430.40	11.71	--	418.69	--	--	--	--	--	--	--	--	--	
G-6	3/27/2002	430.40	--	--	--	--	--	--	--	--	--	--	--	--	
G-6	3/28/2004	430.40	--	--	--	--	--	--	--	--	--	--	--	--	
G-6	9/26/2006	98.43	--	--	--	--	--	--	--	--	--	--	--	--	
G-7	3/28/2000	431.54	16.27	--	415.27	--	--	--	--	--	--	--	--	--	
G-7	6/27/2000	431.54	13.00	--	418.54	--	--	--	--	--	--	--	--	--	
G-7	9/26/2000	431.54	11.94	--	419.60	--	--	--	--	--	--	--	--	--	
G-7	12/19/2000	431.54	14.49	--	417.05	--	--	--	--	--	--	--	--	--	
G-7	3/30/2001	431.54	15.49	--	416.05	--	--	--	--	--	--	--	--	--	
G-7	6/27/2001	431.54	14.00	--	417.54	--	--	--	--	--	--	--	--	--	
G-7	9/19/2001	431.54	12.88	--	418.66	--	--	--	--	--	--	--	--	--	
G-7	12/12/2001	431.54	15.22	--	416.32	--	--	--	--	--	--	--	--	--	
G-7	3/27/2002	431.54	15.60	--	415.94	--	--	--	--	--	--	--	--	--	
G-7	6/25/2002	431.54	12.78	--	418.76	--	--	--	--	--	--	--	--	--	
G-7	9/28/2002	431.54	12.46	--	419.08	--	--	--	--	--	--	--	--	--	
G-7	12/17/2002	431.54	13.82	--	417.72	--	--	--	--	--	--	--	--	--	
G-7	4/8/2003	431.54	13.57	--	417.97	--	--	--	--	--	--	--	--	--	
G-7	6/24/2003	431.54	14.01	--	417.53	--	--	--	--	--	--	--	--	--	
G-7	9/16/2003	431.54	10.72	--	420.82	--	--	--	--	--	--	--	--	--	
G-7	12/22/2003	431.54	13.64	--	417.90	--	--	--	--	--	--	--	--	--	
G-7	3/24/2004	431.54	15.42	--	416.12	--	--	28	--	0.23	0.077	1.4	6.1	--	
G-7	6/21/2004	431.54	13.00	--	418.54	--	--	13	--	0.09	0.02	1.3	1.6	--	
G-7	9/29/2004	431.54	14.18	--	417.36	--	--	7.4	--	0.042	0.0064	0.64	0.97	--	
G-7	12/2/2004	431.54	15.40	--	416.14	3.4	--	8.7	0.94	0.054	0.031	0.81	0.97	--	
G-7	4/7/2005	431.54	15.55	--	415.99	6.5	--	16	1.7	0.13	0.0097	1.5	1.7	--	
G-7	6/27/2005	431.54	11.96	--	419.58	4.1	--	17	0.91	0.067	0.0063	1.7	1.8	--	
G-7	9/23/2005	431.54	13.05	--	418.49	6.3	--	4.1	<0.4200	0.018	0.008	0.36	0.93	--	
G-7	12/7/2005	431.54	14.81	--	416.73	9.7	--	8.4	--	0.046	0.0037	0.86	0.44	<0.0100	
G-7	3/30/2006	431.54	16.11	--	415.43	--	--	--	--	--	--	--	--	--	
G-7	6/8/2006	431.54	14.02	--	417.52	--	--	--	--	--	--	--	--	--	
G-7	9/26/2006	99.65	13.74	--	85.91	6.1	--	5	--	0.031	0.0033	0.61	0.6	--	
G-7	12/20/2006	99.65	15.24	--	84.41	6.5	--	5.9	--	0.05	<0.0050	0.86	0.48	--	
G-7	3/31/2007	99.65	16.10	--	83.55	4.2	--	8.4	0.84	0.4	<0.0050	0.8	0.8	--	
G-7	6/10/2007	98.43	14.59	--	83.84	2.9	--	9.1	<0.0940	0.4	0.02	1.1	0.9	--	
G-7	9/15/2007	98.43	13.15	--	85.28	2.3	--	2.7	--	<0.0100	0.1	0.1	0.9	--	
G-7	3/26/2008	98.43	15.74	--	82.69	7.67 / 7.63	--	8.38 / 8.52	1.02/1.05	0.336 / 0.342	<0.0250 / 0.00298	0.935 / 0.896	1 / 0.969	--	BTEX by SW-846 8021B
G-7	6/6/2008	98.43	14.55	--	83.88	--	--	--	--	--	--	--	--	--	
G-7	7/8/2008	98.43	14.00	--	84.43	2.7	--	10	--	0.4	0.6	0.6	1.9	--	
G-7	8/7/2008	98.43	11.41	--	87.02	1.9	--	6.9	--	0.3	0.09	0.7	1.2	--	
G-7	9/9/2008	98.43	12.66	--	85.77	0.63	--	<0.0100	0.38	<0.0010	<0.0010	<0.0010	<0.0020	--	
G-7	12/12/2008	98.43	15.19	--	83.24	1.5	--	--	<0.5	--	--	--	--	--	
G-7	1/13/2009	98.43	15.33	--	83.10	3.2	--	7.6	0.67	0.4	<0.0050	1	1.4	--	
G-7	5/13/2009	98.43	14.64	--	83.79	2.4	--	9.8	<0.24	0.34	0.013	1.3	0.8	--	
G-7	10/2/2009	436.57	14.05	--	422.52	1.3	--	5.3	0.26	0.13	0.007	0.68	0.67	--	
G-7	4/20/2010	--	--	--	--	--	--	3.4	--	0.29	0.049	0.38	0.62	--	
G-7	6/16/2010	436.57	13.10	--	423.47	2.6	--	17	--	0.66	1.2	1.1	3.2	--	
G-7	9/25/2010	436.57	13.63	--	422.94	3.9	--	4.4 / 4.8	0.56	0.15 / 0.16	0.0018 / 0.002	0.35 / 0.38	0.46 / 0.49	--	BTEX by SW-846 8021B
G-7	6/9/2011	436.57	14.40	--	422.17	2.1	--	3.7	0.82	0.1	<0.00250	0.53	0.35	--	
G-7	9/20/2011	436.57	13.03	--	423.54	1.6	--	3.2	<1.3	0.027	0.002	0.23	0.23	--	
G-7	6/12/2012	436.57	13.56	--	423.01	2.3	0.8	4.7	0.34	0.18	0.0028	0.66	0.36	--	
G-7	10/2/2012	436.57	14.06	--	422.51	2.9	1.4	3	0.38 J	0.032	0.0015 J	0.32	0.2	--	
G-7	6/10/2013	436.57	12.92	--	423.65	--	--	--	--	--	--	--	--	--	
G-7	10/10/2013	436.57	14.03	--	422.54	1.5	0.78	2.29	<0.43	0.046	<0.00200	0.167	0.114	--	
G-7	6/30/2014	436.57	12.52	--	424.05	1.5 / 1.4	0.84 / 0.79	4.4100 / 4.46	0.62 / 0.57	0.1280 / 0.123	0.0252 / 0.0254	0.8180 / 0.781	0.307 / 0.318	--	
G-7	8/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	

**Table 2. Historical Groundwater Gauging and Analytical Results
First Quarter 200 to Current**
University Car Care Center / Former Texaco 211081
4103 Geist Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-d w/Si gel (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)	Comments
ADEC Groundwater Cleanup Levels^a						1.5	1.5	2.2	1.1	0.0046	1.1	0.015	0.19	0.14	
G-7	9/19/2017	436.57	12.71	--	423.86	0.17 J	0.054 J	0.2	0.11 J	0.026	<0.0005	0.01	0.004	--	
G-7	8/20/2018	436.39	10.98	--	425.41	0.55	0.12 J	1.4	0.65	0.29	0.0002 J	0.15	0.012	--	
G-7	7/10/2019	436.58	13.25	0.00	423.33	0.34	< 0.078	<0.1 J	0.37	0.0045	< 0.00039	0.0026 J	< 0.00114	--	Depth to water taken from well survey dated July 25, 2019
G-8	9/26/2006	99.12	13.21	--	85.91	--	--	21	--	0.072	0.07	0.72	4	--	
G-8	12/20/2006	99.12	14.67	--	84.45	3.2	--	5	--	0.05	0.0046	0.18	0.52	--	
G-8	3/31/2007	99.12	15.56	--	83.56	2.4	--	12	<0.2100	0.1	0.03	0.5	1.9	--	
G-8	6/10/2007	99.12	14.01	--	85.11	1.9	--	19	0.054	2.1	0.06	1.2	2	--	
G-8	9/15/2007	99.12	12.76	--	86.36	2.3	--	3.1	--	0.3	<0.0100	0.2	0.5	--	
G-8	1/30/2008	99.12	14.59	--	84.53	2.6	--	--	--	0.4	0.04	0.6	1.3	--	
G-8	3/26/2008	99.12	15.18	--	83.94	4.55	--	13.8	0.899	0.63	0.233	0.719	2.1	--	
G-8	6/6/2008	99.12	14.00	--	85.12	--	--	--	--	--	--	--	--	--	
G-8	7/8/2008	99.12	13.43	--	85.69	1.5	--	5.5	--	0.3	0.09	0.2	0.8	--	
G-8	8/7/2008	99.12	10.83	--	88.29	0.62	--	3.5	--	0.09	0.03	0.2	0.7	--	
G-8	9/9/2008	99.12	12.11	--	87.01	1.8	--	11	<0.2600	0.6	0.4	0.4	1.6	--	
G-8	12/12/2008	99.12	14.62	--	84.50	--	--	--	--	--	--	--	--	--	
G-8	1/13/2009	99.12	14.78	--	84.34	2.7	--	5.1	1.1	0.5	0.04	0.5	0.8	--	
G-8	5/12/2009	99.12	14.04	--	85.08	0.68	--	3.3	0.15	0.34	0.015	0.22	0.3	--	
G-8	10/2/2009	436.03	13.44	--	422.59	0.35	--	0.095	0.4	0.003	<0.00050	0.0014	0.0032	--	
G-8	4/20/2010	--	--	--	--	--	--	0.67	--	0.0009	0.0039	0.0043	0.13	--	
G-8	6/16/2010	436.03	14.16	--	421.87	1	--	0.28	0.35	0.0018	<0.00050	0.0047	0.041	--	
G-8	9/25/2010	436.03	13.07	--	422.96	0.61	--	0.086	0.57	<0.00050	<0.00050	<0.00050	0.03	--	
G-8	6/9/2011	436.03	13.84	--	422.19	1.3	--	2.2 / 2.7	0.47	0.31 / 0.3	0.0011 / 0.0015	0.057 / 0.068	0.15 / 0.25	--	BTEX by SW-846 8021B
G-8	9/20/2011	436.03	12.52	--	423.51	1.7	--	3.2	<0.88	0.13	0.0021	0.045	0.72	--	
G-8	6/12/2012	436.03	13.00	--	423.03	1.7 / 1.2	0.61	4.7 / 4.7	0.44/0.24	0.34	0.002	0.39	0.25	--	
G-8	10/2/2012	436.03	13.50	--	422.53	0.48	<0.049	0.0260 J	0.17 J	0.006	<0.00050	<0.00050	<0.00150	--	
G-8	6/11/2013	436.03	12.32	--	423.71	1.9	0.99	4.33	<0.50	0.057	0.0057	0.405	0.402	--	
G-8	10/10/2013	436.03	13.46	--	422.57	0.58	<0.4300	<0.5000	0.44	0.012	<0.00100	<0.00100	<0.00300	--	
G-8	6/30/2014	436.03	11.94	--	424.09	2.9	1.9	8.05	<0.40	0.239	0.0061	0.676	1.15	--	
G-8	9/16/2015	436.03	11.69	--	424.34	2.6	--	2.3	1.8	0.2	0.002	0.14	0.12	--	
G-8	8/3/2016	436.03	9.39	--	426.64	4.4	1.3	21	<0.39	1.5	1.1	0.65	2.4	--	
G-8	9/19/2017	435.81	12.13	--	423.68	0.45	<0.050 J	0.16	0.20 J	0.007	<0.0005	0.011	0.017	--	
G-8	8/20/2018	435.84	10.48	--	425.36	0.37	<0.055 J	0.096 J	0.25 J	0.008	<0.0002	0.004	0.001 J	--	
G-8	7/10/2019	436.03	12.65	0.00	423.38	0.58	< 0.076	<0.1 J	0.69	<0.00053	< 0.00039	< 0.00050	< 0.00114	--	Depth to water taken from well survey dated July 25, 2019
G-9	9/26/2006	98.78	12.87	--	85.91	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
G-9	12/20/2006	98.78	14.33	--	84.45	--	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
G-9	3/31/2007	98.78	15.24	--	83.54	--	--	<0.0100 / <0.0100	--	<0.0010 / <0.0010	<0.0010 / <0.0010	<0.0010 / <0.0010	<0.0020 / <0.0020	--	
G-9	6/10/2007	98.78	13.63	--	85.15	--	--	<0.0100	--	0.002	<0.0010	<0.0010	<0.0020	--	
G-9	9/15/2007	98.78	12.20	--	86.58	--	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
G-9	3/26/2008	98.78	14.81	--	83.97	0.223	--	<0.0500	<0.7430	0.00938	<0.00050	<0.00050	<0.0010	--	
G-9	9/9/2008	98.78	11.73	--	87.05	0.2	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
G-9	5/11/2009	98.78	13.70	--	85.08	0.066	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
G-9	10/2/2009	435.67	13.14	--	422.53	0.059	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
G-9	6/16/2010	435.67	13.50	--	422.17	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
G-9	9/25/2010	435.67	12.72	--	422.95	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
G-9	6/8/2011	435.67	13.50	--	422.17	--	--	--	--	--	--	--	--	--	
G-9	9/19/2011	435.67	12.19	--	423.48	--	--	--	--	--	--	--	--	--	
G-9	6/11/2012	435.67	12.68	--	422.99	--	--	--	--	--	--	--	--	--	
G-9	10/2/2012	435.69	13.19	--	422.50	--	--	--	--	--	--	--	--	--	
G-9	6/10/2013	435.69	12.06	--	423.63	--	--	--	--	--	--	--	--	--	
G-9	10/10/2013	435.69	13.17	--	422.52	--	--	--	--	--	--	--	--	--	
G-9	6/29/2014	435.69	11.66	--	424.03	--	--	--	--	--	--	--	--	--	
G-9	9/16/2015	435.60	11.39	--	424.21	--	--	--	--	--	--	--	--	--	
G-9	8/3/2016	435.60	9.03	--	426.57	--	--	--	--	--	--	--	--	--	
G-9	9/19/2017	435.45	11.88	--	423.57	--	--	--	--	--	--	--	--	--	
G-9	8/20/2018	435.42	10.16	--	425.26	--	--	--	--	--	--	--	--	--	
G-9	7/10/2019	435.84	12.27	0.00	423.57	--	--	--	--	--	--	--	--	--	Depth to water taken from well survey dated July 25, 2019
MW-211	3/29/2000	430.48	14.97	--	415.51	--	--	--	--	--	--	--	--	--	
MW-211	6/28/2000	430.48	11.74	--	418.74	--	--	--	--	--	--	--	--	--	
MW-211	9/26/2000	430.48	10.76	--	419.72	--	--	--	--	--	--	--	--	--	

Table 2. Historical Groundwater Gauging and Analytical Results
First Quarter 200 to Current
 University Car Care Center / Former Texaco 211081
 4103 Geist Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-d w/Si gel (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)	Comments
ADEC Groundwater Cleanup Levels^a						1.5	1.5	2.2	1.1	0.0046	1.1	0.015	0.19	0.14	
MW-211	12/19/2000	430.48	13.10	--	417.38	--	--	--	--	--	--	--	--	--	
MW-211	3/30/2001	430.48	14.12	--	416.36	--	--	--	--	--	--	--	--	--	
MW-211	6/27/2001	430.48	12.62	--	417.86	--	--	--	--	--	--	--	--	--	
MW-211	9/19/2001	430.48	11.43	--	419.05	--	--	--	--	--	--	--	--	--	
MW-211	3/27/2002	430.48	14.19	--	416.29	--	--	--	--	--	--	--	--	--	
MW-211	9/28/2002	430.48	11.00	--	419.48	--	--	--	--	--	--	--	--	--	
MW-211	4/7/2003	430.48	12.19	--	418.29	--	--	--	--	--	--	--	--	--	
MW-211	9/16/2003	430.48	9.30	--	421.18	--	--	--	--	--	--	--	--	--	
MW-211	3/23/2004	430.48	13.95	--	416.53	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-211	9/29/2004	430.48	12.66	--	417.82	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-211	4/6/2005	430.48	14.23	--	416.25	<0.0190	--	<0.0100	0.032	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-211	9/22/2005	430.48	12.08	--	418.40	<0.0210	--	<0.0100	0.027	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-211	3/29/2006	430.48	16.02	--	414.46	--	--	--	--	--	--	--	--	--	
MW-211	3/30/2007	430.48	15.99	--	414.49	--	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
MW-211	5/11/2009	430.48	12.23	--	418.25	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-211	10/1/2009	435.19	12.78	--	422.41	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-211	6/16/2010	435.19	12.80	--	422.39	--	--	--	--	--	--	--	--	--	
MW-211	9/25/2010	435.19	12.38	--	422.81	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-211	6/8/2011	435.19	13.24	--	421.95	--	--	--	--	--	--	--	--	--	
MW-211	9/19/2011	435.19	11.85	--	423.34	--	--	--	--	--	--	--	--	--	
MW-211	6/11/2012	435.19	12.40	--	422.79	--	--	--	--	--	--	--	--	--	
MW-211	10/2/2012	435.22	12.83	--	422.39	--	--	--	--	--	--	--	--	--	
MW-211	6/10/2013	435.22	12.14	--	423.08	--	--	--	--	--	--	--	--	--	
MW-211	10/10/2013	435.22	12.74	--	422.48	--	--	--	--	--	--	--	--	--	
MW-211	6/29/2014	435.22	11.34	--	423.88	--	--	--	--	--	--	--	--	--	
MW-211	9/16/2015	435.22	11.15	--	424.07	--	--	--	--	--	--	--	--	--	
MW-211	8/3/2016	435.22	8.89	--	426.33	--	--	--	--	--	--	--	--	--	
MW-211	9/19/2017	435.22													Monitoring Well Decommissioned (July 2017)
MW-301D	3/29/2000	432.81	17.63	--	415.18	--	--	--	--	--	--	--	--	--	
MW-301D	6/28/2000	432.81	14.46	--	418.35	--	--	--	--	--	--	--	--	--	
MW-301D	9/27/2000	432.81	13.43	--	419.38	--	--	--	--	--	--	--	--	--	
MW-301D	12/20/2000	432.81	15.78	--	417.03	--	--	--	--	--	--	--	--	--	
MW-301D	3/30/2001	432.81	16.79	--	416.02	--	--	--	--	--	--	--	--	--	Unable to Locate.
MW-301D	6/28/2001	432.81	15.34	--	417.47	--	--	--	--	--	--	--	--	--	
MW-301D	9/19/2001	432.81	14.17	--	418.64	--	--	--	--	--	--	--	--	--	
MW-301D	3/27/2002	432.81	16.89	--	415.92	--	--	--	--	--	--	--	--	--	
MW-301D	9/28/2002	432.81	13.74	--	419.07	--	--	--	--	--	--	--	--	--	
MW-301D	4/7/2003	432.81	14.89	--	417.92	--	--	--	--	--	--	--	--	--	
MW-301D	9/16/2003	432.81	12.07	--	420.74	--	--	--	--	--	--	--	--	--	
MW-301D	3/23/2004	432.81	16.66	--	416.15	--	--	0.031	--	0.011	<0.00050	<0.00050	<0.00150	--	
MW-301D	9/29/2004	432.81	15.40	--	417.41	--	--	0.035	--	0.0065	<0.00050	<0.00050	<0.00150	--	
MW-301D	4/6/2005	432.81	16.91	--	415.90	0.033	--	0.023	--	0.0074	<0.00050	<0.00050	<0.00150	--	
MW-301D	6/27/2005	432.81	13.47	--	419.34	0.037	--	0.012	0.067	0.0029	<0.00050	<0.00050	<0.00150	--	
MW-301D	9/22/2005	433.81	14.40	--	419.41	<0.0200	--	0.014	0.022	0.0022	<0.00050	<0.00050	<0.00150	--	
MW-301D	12/6/2005	433.81	16.10	--	417.71	--	--	0.013	--	0.0029	<0.00050	<0.00050	<0.00150	--	
MW-301D	3/29/2006	433.81	17.69	--	416.12	--	--	--	--	--	--	--	--	--	
MW-301D	6/7/2006	433.81	15.45	--	418.36	--	--	--	--	--	--	--	--	--	
MW-301D	9/26/2006	100.97	15.11	--	85.86	--	--	0.014	--	0.0017	<0.00050	<0.00050	<0.00150	--	
MW-301D	3/30/2007	100.97	17.48	--	83.49	--	--	0.01	--	0.003	<0.0010	<0.0010	<0.0020	--	
MW-301D	9/15/2007	100.97	14.53	--	86.44	--	--	0.02	--	0.005	<0.0010	<0.0010	<0.0020	--	
MW-301D	3/26/2008	100.97	17.20	--	83.77	--	--	<0.0500	--	0.00757	<0.00050	<0.00050	<0.0010	--	
MW-301D	9/9/2008	100.97	14.09	--	86.88	--	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
MW-301D	5/12/2009	100.97	16.20	--	84.77	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-301D	9/30/2009	437.84	15.50	--	422.34	--	--	0.012	--	0.0025	<0.00050	<0.00050	<0.00150	--	
MW-301D	6/16/2010	437.84	16.30	--	421.54	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-301D	9/25/2010	437.84	15.07	--	422.77	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-301D	6/9/2011	437.84	15.94	--	421.90	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-301D	9/20/2011	437.84	14.49	--	423.35	--	--	--	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-301D	6/12/2012	437.84	15.08	--	422.76	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-301D	10/2/2012	437.87	15.44	--	422.43	--	--	--	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-301D	6/10/2013	437.87	14.55	--	423.32	--	--	<0.05000	--	0.0016	0.000650 J	<0.000240	<0.000720	--	

Table 2. Historical Groundwater Gauging and Analytical Results
First Quarter 200 to Current
 University Car Care Center / Former Texaco 211081
 4103 Geist Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-d w/Si gel (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)	Comments
ADEC Groundwater Cleanup Levels^a						1.5	1.5	2.2	1.1	0.0046	1.1	0.015	0.19	0.14	
MW-301D	10/10/2013	437.87	15.35	--	422.52	--	--	--	--	<0.00100	<0.00100	<0.00100	<0.00300	--	
MW-301D	6/30/2014	437.87	14.02	--	423.85	--	--	<0.1000	--	<0.00100	<0.00100	<0.00100	<0.00300	--	
MW-301D	9/16/2015	437.87	13.76	--	424.11	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00050	--	
MW-301D	8/3/2016	437.87	11.53	--	426.34	--	--	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-301D	9/19/2017	437.66	13.61	--	424.05	--	--	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-301D	8/20/2018	437.66	12.09	--	425.57	--	--	<0.014	--	<0.0002	<0.0002	<0.0002	<0.0005	--	
MW-301D	7/10/2019	437.87	14.49	0.00	423.38	--	--	<0.1 J / <0.1 J	--	<0.00053 / <0.00053	< 0.00039 / < 0.00039	< 0.00050 / < 0.00050	< 0.00114 / < 0.00114	--	Depth to water taken from well survey dated July 25, 2019
MW-301S	3/29/2000	432.44	17.26	--	415.18	--	--	--	--	--	--	--	--	--	
MW-301S	6/28/2000	432.44	14.06	--	418.38	--	--	--	--	--	--	--	--	--	
MW-301S	9/27/2000	432.44	13.06	--	419.38	--	--	--	--	--	--	--	--	--	
MW-301S	12/20/2000	432.44	15.41	--	417.03	--	--	--	--	--	--	--	--	--	
MW-301S	3/30/2001	432.44	16.43	--	416.01	--	--	--	--	--	--	--	--	--	
MW-301S	6/28/2001	432.44	14.95	--	417.49	--	--	--	--	--	--	--	--	--	
MW-301S	9/19/2001	432.44	13.78	--	418.66	--	--	--	--	--	--	--	--	--	
MW-301S	12/12/2001	432.44	16.13	--	416.31	--	--	--	--	--	--	--	--	--	
MW-301S	3/27/2002	432.44	16.50	--	415.94	--	--	--	--	--	--	--	--	--	
MW-301S	6/25/2002	432.44	13.78	--	418.66	--	--	--	--	--	--	--	--	--	
MW-301S	9/28/2002	432.44	13.36	--	419.08	--	--	--	--	--	--	--	--	--	
MW-301S	12/17/2002	432.44	14.76	--	417.68	--	--	--	--	--	--	--	--	--	
MW-301S	4/7/2003	432.44	14.50	--	417.94	--	--	--	--	--	--	--	--	--	
MW-301S	6/24/2003	432.44	15.01	--	417.43	--	--	--	--	--	--	--	--	--	
MW-301S	9/16/2003	432.44	11.69	--	420.75	--	--	--	--	--	--	--	--	--	
MW-301S	12/22/2003	432.44	14.56	--	417.88	--	--	--	--	--	--	--	--	--	
MW-301S	3/23/2004	432.44	16.29	--	416.15	--	--	0.013	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-301S	6/21/2004	432.44	13.93	--	418.51	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-301S	9/29/2004	432.44	15.03	--	417.41	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-301S	12/2/2004	432.44	16.31	--	416.13	0.058	--	<0.0100	0.1	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-301S	4/6/2005	432.44	16.52	--	415.92	0.051	--	0.012	0.054	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-301S	6/27/2005	432.44	13.08	--	419.36	0.23	--	0.24	0.17	0.084	<0.00050	<0.00050	<0.00150	--	
MW-301S	9/22/2005	433.44	14.03	--	419.41	0.14	--	<0.0100	0.36	0.0018	<0.00050	<0.00050	<0.00150	--	
MW-301S	12/6/2005	433.44	15.75	--	417.69	--	--	<0.0100	--	0.0016	<0.00050	<0.00050	<0.00150	--	
MW-301S	3/29/2006	433.44	17.27	--	416.17	--	--	--	--	--	--	--	--	--	
MW-301S	6/7/2006	433.44	15.05	--	418.39	--	--	--	--	--	--	--	--	--	
MW-301S	9/26/2006	100.60	14.73	--	85.87	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-301S	3/30/2007	100.60	17.12	--	83.48	--	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
MW-301S	9/15/2007	100.60	14.18	--	86.42	--	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
MW-301S	3/26/2008	100.60	16.80	--	83.80	--	--	<0.0500	--	<0.00050	<0.00050	<0.00050	<0.0010	--	
MW-301S	9/9/2008	100.60	13.73	--	86.87	--	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
MW-301S	5/11/2009	100.60	15.50	--	85.10	--	--	0.011	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-301S	10/1/2009	437.49	15.10	--	422.39	--	--	0.02	--	0.0034	<0.00050	<0.00050	<0.00150	--	
MW-301S	6/16/2010	437.49	15.93	--	421.56	--	--	0.6	--	0.2	<0.00050	0.0038	0.002	--	
MW-301S	9/25/2010	437.49	14.70	--	422.79	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-301S	6/8/2011	437.49	15.57	--	421.92	--	--	--	--	--	--	--	--	--	
MW-301S	9/19/2011	437.49	14.13	--	423.36	--	--	--	--	--	--	--	--	--	
MW-301S	6/11/2012	437.49	14.70	--	422.79	--	--	--	--	--	--	--	--	--	
MW-301S	10/2/2012	437.51	15.08	--	422.43	--	--	--	--	--	--	--	--	--	
MW-301S	6/10/2013	437.51	14.22	--	423.29	--	--	--	--	--	--	--	--	--	
MW-301S	10/10/2013	437.51	15.00	--	422.51	--	--	--	--	--	--	--	--	--	
MW-301S	6/29/2014	437.51	13.66	--	423.85	--	--	--	--	--	--	--	--	--	
MW-301S	9/16/2015	437.51	13.38	--	424.13	--	--	--	--	--	--	--	--	--	
MW-301S	8/3/2016	437.51	11.16	--	426.35	--	--	--	--	--	--	--	--	--	
MW-301S	9/19/2017	437.30	13.28	--	424.02	--	--	--	--	--	--	--	--	--	
MW-301S	8/20/2018	437.31	11.75	--	425.56	--	--	--	--	--	--	--	--	--	
MW-301S	7/10/2019	437.51	14.13	0.00	423.38	--	--	--	--	--	--	--	--	--	Depth to water taken from well survey dated July 25, 2019
MW-302D	3/29/2000	435.32	20.28	--	415.04	--	--	--	--	--	--	--	--	--	
MW-302D	6/28/2000	435.32	17.15	--	418.17	--	--	--	--	--	--	--	--	--	
MW-302D	9/27/2000	435.32	16.09	--	419.23	--	--	--	--	--	--	--	--	--	
MW-302D	12/20/2000	435.32	18.44	--	416.88	--	--	--	--	--	--	--	--	--	
MW-302D	3/30/2001	435.32	19.45	--	415.87	--	--	--	--	--	--	--	--	--	
MW-302D	6/28/2001	435.32	18.05	--	417.27	--	--	--	--	--	--	--	--	--	

**Table 2. Historical Groundwater Gauging and Analytical Results
First Quarter 200 to Current**
University Car Care Center / Former Texaco 211081
4103 Geist Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-d w/Si gel (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)	Comments
ADEC Groundwater Cleanup Levels^a						1.5	1.5	2.2	1.1	0.0046	1.1	0.015	0.19	0.14	
MW-302D	9/19/2001	435.32	16.76	--	418.56	--	--	--	--	--	--	--	--	--	
MW-302D	3/27/2002	435.32	19.54	--	415.78	--	--	--	--	--	--	--	--	--	
MW-302D	9/28/2002	435.32	16.32	--	419.00	--	--	--	--	--	--	--	--	--	
MW-302D	4/7/2003	435.32	17.52	--	417.80	--	--	--	--	--	--	--	--	--	
MW-302D	9/16/2003	435.32	14.73	--	420.59	--	--	--	--	--	--	--	--	--	
MW-302D	3/23/2004	435.32	19.24	--	416.08	--	--	0.047	--	0.022	<0.00050	<0.00050	<0.00150	--	
MW-302D	9/29/2004	435.32	17.97	--	417.35	--	--	0.14	--	0.044	<0.00050	<0.00050	<0.00150	--	
MW-302D	4/6/2005	435.32	19.58	--	415.74	0.051	--	0.029	0.12	0.011	<0.00050	<0.00050	<0.00150	--	
MW-302D	6/27/2005	435.32	16.20	--	419.12	0.035	--	0.017	0.063	0.0061	<0.00050	<0.00050	<0.00150	--	
MW-302D	9/21/2005	--	--	--	--	<0.0210	--	0.068	<0.0210	0.024	<0.00050	<0.00050	<0.00150	--	
MW-302D	9/22/2005	435.32	17.01	--	418.31	--	--	--	--	--	--	--	--	--	
MW-302D	12/6/2005	435.32	18.74	--	416.58	--	--	0.056	--	0.017	<0.00050	<0.00050	<0.00150	--	
MW-302D	3/29/2006	435.32	20.55	--	414.77	--	--	--	--	--	--	--	--	--	
MW-302D	6/7/2006	435.32	18.34	--	416.98	--	--	--	--	--	--	--	--	--	
MW-302D	9/26/2006	103.50	17.69	--	85.81	--	--	0.04	--	0.013	<0.00050	<0.00050	<0.00150	--	
MW-302D	3/30/2007	103.50	20.11	--	83.39	--	--	<0.0100	--	0.004	<0.0010	<0.0010	<0.0020	--	
MW-302D	9/15/2007	103.50	17.18	--	86.32	--	--	0.02	--	0.01	<0.0010	<0.0010	<0.0020	--	
MW-302D	3/25/2008	103.50	19.95	--	83.55	--	--	<0.0500	--	0.00274	<0.00050	<0.00050	<0.0010	--	
MW-302D	9/9/2008	103.50	16.78	--	86.72	--	--	0.01	--	0.004	<0.0010	<0.0010	<0.0020	--	
MW-302D	5/12/2009	103.50	18.99	--	84.51	--	--	<0.010	--	0.0017	<0.00050	<0.00050	<0.00150	--	
MW-302D	9/30/2009	440.39	18.05	--	422.34	--	--	0.011	--	0.0028	<0.00050	<0.00050	<0.00150	--	
MW-302D	6/16/2010	440.39	19.05	--	421.34	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-302D	9/25/2010	440.39	17.77	--	422.62	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-302D	6/8/2011	440.39	18.73	--	421.66	--	--	--	--	--	--	--	--	--	
MW-302D	9/19/2011	440.39	17.26	--	423.13	--	--	--	--	--	--	--	--	--	
MW-302D	6/11/2012	440.39	17.92	--	422.47	--	--	--	--	--	--	--	--	--	
MW-302D	10/2/2012	440.38	18.15	--	422.23	--	--	--	--	--	--	--	--	--	
MW-302D	6/10/2013	440.38	17.41	--	422.97	--	--	--	--	--	--	--	--	--	
MW-302D	10/10/2013	440.38	17.98	--	422.40	--	--	--	--	--	--	--	--	--	
MW-302D	6/29/2014	440.38	17.77	--	422.61	--	--	--	--	--	--	--	--	--	
MW-302D	9/16/2015	440.38	16.55	--	423.83	--	--	--	--	--	--	--	--	--	
MW-302D	8/3/2016	440.38	14.39	--	425.99	--	--	--	--	--	--	--	--	--	
MW-302D	9/19/2017	440.18													Monitoring Well Decommissioned (July 2017)
MW-302S	3/29/2000	434.91	19.85	--	415.06	--	--	--	--	--	--	--	--	--	
MW-302S	6/28/2000	434.91	16.74	--	418.17	--	--	--	--	--	--	--	--	--	
MW-302S	9/27/2000	434.91	15.70	--	419.21	--	--	--	--	--	--	--	--	--	
MW-302S	12/20/2000	434.91	18.03	--	416.88	--	--	--	--	--	--	--	--	--	
MW-302S	3/30/2001	434.91	19.05	--	415.86	--	--	--	--	--	--	--	--	--	
MW-302S	6/28/2001	434.91	17.62	--	417.29	--	--	--	--	--	--	--	--	--	
MW-302S	9/19/2001	434.91	16.35	--	418.56	--	--	--	--	--	--	--	--	--	
MW-302S	12/12/2001	434.91	18.74	--	416.17	--	--	--	--	--	--	--	--	--	
MW-302S	3/28/2002	434.91	19.15	--	415.76	--	--	--	--	--	--	--	--	--	
MW-302S	6/25/2002	434.91	16.40	--	418.51	--	--	--	--	--	--	--	--	--	
MW-302S	9/28/2002	434.91	15.91	--	419.00	--	--	--	--	--	--	--	--	--	
MW-302S	12/17/2002	434.91	17.38	--	417.53	--	--	--	--	--	--	--	--	--	
MW-302S	4/7/2003	434.91	17.12	--	417.79	--	--	--	--	--	--	--	--	--	
MW-302S	6/24/2003	434.91	17.66	--	417.25	--	--	--	--	--	--	--	--	--	
MW-302S	9/16/2003	434.91	14.32	--	420.59	--	--	--	--	--	--	--	--	--	
MW-302S	12/22/2003	434.91	17.16	--	417.75	--	--	--	--	--	--	--	--	--	
MW-302S	3/23/2004	434.91	18.84	--	416.07	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-302S	6/21/2004	434.91	16.63	--	418.28	--	--	0.032	--	0.0059	<0.00050	<0.00050	<0.00150	--	
MW-302S	9/29/2004	434.91	17.56	--	417.35	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-302S	12/2/2004	434.91	18.90	--	416.01	0.079	--	0.012	0.12	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-302S	4/6/2005	434.91	19.19	--	415.72	0.095	--	0.02	0.057	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-302S	6/27/2005	434.91	15.81	--	419.10	0.2	--	0.028	0.13	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-302S	9/21/2005	--	--	--	--	0.03	--	0.01	0.077	0.0021	<0.00050	<0.00050	<0.00150	--	
MW-302S	9/22/2005	434.91	16.61	--	418.30	--	--	--	--	--	--	--	--	--	
MW-302S	12/6/2005	434.91	18.34	--	416.57	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-302S	3/29/2006	434.91	20.04	--	414.87	--	--	--	--	--	--	--	--	--	
MW-302S	6/7/2006	434.91	17.84	--	417.07	--	--	--	--	--	--	--	--	--	
MW-302S	9/26/2006	103.10	17.29	--	85.81	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	

**Table 2. Historical Groundwater Gauging and Analytical Results
First Quarter 200 to Current
University Car Care Center / Former Texaco 211081
4103 Geist Road, Anchorage, Alaska**

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-d w/Si gel (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)	Comments
ADEC Groundwater Cleanup Levels^a						1.5	1.5	2.2	1.1	0.0046	1.1	0.015	0.19	0.14	
MW-302S	3/30/2007	103.10	19.70	--	83.40	--	--	0.02	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
MW-302S	9/15/2007	103.10	16.78	--	86.32	--	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
MW-302S	3/25/2008	103.10	19.45	--	83.65	--	--	<0.0500	--	<0.00050	<0.00050	<0.00050	<0.0010	--	
MW-302S	9/9/2008	103.10	16.37	--	86.73	--	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
MW-302S	5/8/2009	103.10	--	--	--	--	--	--	--	--	--	--	--	--	
MW-302S	10/1/2009	440.00	17.68	--	422.32	--	--	0.019	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-302S	6/16/2010	440.00	18.70	--	421.30	--	--	0.087	--	0.0006	<0.00050	<0.00050	<0.00150	--	
MW-302S	9/25/2010	440.00	17.37	--	422.63	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-302S	6/8/2011	440.00	18.32	--	421.68	--	--	--	--	--	--	--	--	--	
MW-302S	9/19/2011	440.00	16.81	--	423.19	--	--	--	--	--	--	--	--	--	
MW-302S	6/11/2012	440.00	17.46	--	422.54	--	--	--	--	--	--	--	--	--	
MW-302S	10/2/2012	439.99	17.73	--	422.26	--	--	--	--	--	--	--	--	--	
MW-302S	6/10/2013	439.99	17.02	--	422.97	--	--	--	--	--	--	--	--	--	
MW-302S	10/10/2013	439.99	17.57	--	422.42	--	--	--	--	--	--	--	--	--	
MW-302S	6/29/2014	439.99	16.41	--	423.58	--	--	--	--	--	--	--	--	--	
MW-302S	9/16/2015	439.99	16.12	--	423.87	--	--	--	--	--	--	--	--	--	
MW-302S	8/3/2016	439.99	13.96	--	426.03	--	--	--	--	--	--	--	--	--	
MW-302S	9/19/2017	439.80	--	--	--	--	--	--	--	--	--	--	--	--	Monitoring Well Decommissioned (July 2017)
MW-303D	9/25/2010	435.42	12.80	--	422.62	--	--	--	--	--	--	--	--	--	
MW-303D	6/8/2011	435.42	--	--	--	--	--	--	--	--	--	--	--	--	
MW-303D	9/19/2011	435.42	12.10	--	423.32	--	--	--	--	--	--	--	--	--	
MW-303D	6/11/2012	435.42	12.77	--	422.65	--	--	--	--	--	--	--	--	--	
MW-303D	10/2/2012	435.41	13.01	--	422.40	--	--	--	--	--	--	--	--	--	
MW-303D	6/10/2013	435.41	12.45	--	422.96	--	--	--	--	--	--	--	--	--	
MW-303D	10/10/2013	435.41	13.00	--	422.41	--	--	--	--	--	--	--	--	--	
MW-303D	6/29/2014	435.41	11.83	--	423.58	--	--	--	--	--	--	--	--	--	
MW-303D	9/16/2015	435.41	11.63	--	423.78	--	--	--	--	--	--	--	--	--	
MW-303D	8/3/2016	435.41	9.35	--	426.06	--	--	--	--	--	--	--	--	--	
MW-303D	9/19/2017	435.23	--	--	--	--	--	--	--	--	--	--	--	--	Monitoring Well Decommissioned (July 2017)
MW-303S	3/28/2000	429.99	--	--	--	--	--	--	--	--	--	--	--	--	
MW-303S	6/27/2000	429.99	11.96	--	418.03	--	--	--	--	--	--	--	--	--	
MW-303S	9/26/2000	429.99	10.90	--	419.09	--	--	--	--	--	--	--	--	--	
MW-303S	12/19/2000	429.99	13.19	--	416.80	--	--	--	--	--	--	--	--	--	
MW-303S	3/30/2001	429.99	14.28	--	415.71	--	--	--	--	--	--	--	--	--	
MW-303S	6/28/2001	429.99	--	--	--	--	--	--	--	--	--	--	--	--	
MW-303S	3/27/2002	429.99	14.40	--	415.59	--	--	--	--	--	--	--	--	--	
MW-303S	4/7/2003	429.99	12.27	--	417.72	--	--	--	--	--	--	--	--	--	
MW-303S	3/24/2004	429.99	13.99	--	416.00	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-303S	4/6/2005	429.99	14.41	--	415.58	<0.0400	--	<0.0100	0.04	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-303S	3/30/2006	429.99	15.06	--	414.93	--	--	--	--	--	--	--	--	--	
MW-303S	9/26/2006	98.24	--	--	--	--	--	--	--	--	--	--	--	--	
MW-303S	3/31/2007	98.24	14.88	--	83.36	--	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
MW-303S	5/13/2009	98.24	13.91	--	84.33	--	--	0.011	--	0.0009	<0.00050	<0.00050	<0.00150	--	
MW-303S	10/1/2009	435.10	12.90	--	422.20	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-303S	6/16/2010	435.10	13.91	--	421.19	--	--	--	--	--	--	--	--	--	
MW-303S	9/25/2010	435.10	12.57	--	422.53	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-303S	6/8/2011	435.10	13.57	--	421.53	--	--	--	--	--	--	--	--	--	
MW-303S	9/19/2011	435.10	10.81	--	424.29	--	--	--	--	--	--	--	--	--	
MW-303S	6/11/2012	435.10	--	--	--	--	--	--	--	--	--	--	--	--	
MW-303S	10/2/2012	435.11	12.73	--	422.38	--	--	--	--	--	--	--	--	--	
MW-303S	6/10/2013	435.11	12.42	--	422.69	--	--	--	--	--	--	--	--	--	
MW-303S	10/10/2013	435.11	12.71	--	422.40	--	--	--	--	--	--	--	--	--	
MW-303S	6/29/2014	435.11	11.64	--	423.47	--	--	--	--	--	--	--	--	--	
MW-303S	9/16/2015	435.11	11.35	--	423.76	--	--	--	--	--	--	--	--	--	
MW-303S	8/3/2016	435.11	9.13	--	425.98	--	--	--	--	--	--	--	--	--	
MW-303S	9/19/2017	434.89	--	--	--	--	--	--	--	--	--	--	--	--	Monitoring Well Decommissioned (July 2017)
MW-304D	1/30/1982	103.00	18.98	--	84.02	--	--	--	--	--	--	--	--	--	
MW-304D	3/28/2000	434.86	20.15	--	414.71	--	--	--	--	--	--	--	--	--	
MW-304D	6/28/2000	434.86	17.19	--	417.67	--	--	--	--	--	--	--	--	--	

Table 2. Historical Groundwater Gauging and Analytical Results
First Quarter 200 to Current
 University Car Care Center / Former Texaco 211081
 4103 Geist Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-d w/Si gel (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)	Comments
ADEC Groundwater Cleanup Levels^a						1.5	1.5	2.2	1.1	0.0046	1.1	0.015	0.19	0.14	
MW-304D	9/27/2000	434.86	16.04	--	418.82	--	--	--	--	--	--	--	--	--	
MW-304D	12/20/2000	434.86	18.31	--	416.55	--	--	--	--	--	--	--	--	--	
MW-304D	3/30/2001	434.86	19.35	--	415.51	--	--	--	--	--	--	--	--	--	
MW-304D	6/28/2001	434.86	18.03	--	416.83	--	--	--	--	--	--	--	--	--	
MW-304D	9/19/2001	434.86	16.56	--	418.30	--	--	--	--	--	--	--	--	--	
MW-304D	12/12/2001	434.86	19.00	--	415.86	--	--	--	--	--	--	--	--	--	
MW-304D	3/27/2002	434.86	19.47	--	415.39	--	--	--	--	--	--	--	--	--	
MW-304D	6/25/2002	434.86	16.67	--	418.19	--	--	--	--	--	--	--	--	--	
MW-304D	9/28/2002	434.86	16.14	--	418.72	--	--	--	--	--	--	--	--	--	
MW-304D	12/17/2002	434.86	17.59	--	417.27	--	--	--	--	--	--	--	--	--	
MW-304D	4/7/2003	434.86	17.35	--	417.51	--	--	--	--	--	--	--	--	--	
MW-304D	6/24/2003	434.86	18.00	--	416.86	--	--	--	--	--	--	--	--	--	
MW-304D	9/16/2003	434.86	14.69	--	420.17	--	--	--	--	--	--	--	--	--	
MW-304D	12/22/2003	434.86	17.37	--	417.49	--	--	--	--	--	--	--	--	--	
MW-304D	3/23/2004	434.86	19.03	--	415.83	--	--	0.16 / 0.15	--	0.06 / 0.056	<0.00050 / <0.00050	<0.00050 / <0.00050	<0.00150 / <0.00150	--	
MW-304D	3/24/2004	--	--	--	--	--	--	1.5	--	0.097	0.0014	0.14	0.0067	--	
MW-304D	6/21/2004	434.86	17.16	--	417.70	--	--	0.21	--	0.081	<0.00050	<0.00050	<0.00150	--	
MW-304D	9/29/2004	434.86	17.71	--	417.15	--	--	0.49 / 0.48	--	0.15 / 0.15	0.0005 / 0.0005	<0.00050 / <0.00050	<0.00150 / <0.00150	--	
MW-304D	12/2/2004	434.86	19.16	--	415.70	0.07	--	0.19	0.086	0.062	<0.00050	<0.00050	<0.00150	--	
MW-304D	4/6/2005	434.86	19.52	--	415.34	0.066	--	0.12	0.14	0.041	<0.00050	<0.00050	<0.00150	--	
MW-304D	6/27/2005	434.86	16.20	--	418.66	0.048	--	0.29	0.064	0.096	<0.00050	<0.00050	<0.00150	--	
MW-304D	9/21/2005	434.86	16.85	--	418.01	0.028	--	0.21	<0.0190	0.071	<0.00050	<0.00050	<0.00150	--	
MW-304D	12/6/2005	434.86	18.65	--	416.21	--	--	0.087	--	0.023	<0.00050	<0.00050	<0.00150	--	
MW-304D	3/29/2006	434.86	20.00	--	414.86	--	--	--	--	--	--	--	--	--	
MW-304D	6/7/2006	434.86	17.83	--	417.03	--	--	--	--	--	--	--	--	--	
MW-304D	9/26/2006	103.00	17.48	--	85.52	--	--	0.092	--	0.026	<0.00050	<0.00050	<0.00150	--	
MW-304D	12/19/2006	103.00	18.91	--	84.09	--	--	0.04	--	0.0071	<0.0010	<0.0010	<0.0020	--	
MW-304D	3/28/2007	103.00	19.94	--	83.06	--	--	0.03	--	0.008	<0.0010	<0.0010	<0.0020	--	
MW-304D	6/8/2007	103.00	18.72	--	84.28	--	--	0.04	--	0.01	<0.0010	<0.0010	<0.0020	--	
MW-304D	9/15/2007	103.00	17.10	--	85.90	--	--	0.04	--	0.01	<0.0010	<0.0010	<0.0020	--	
MW-304D	1/30/2008	--	--	--	--	--	--	--	--	0.006	<0.0010	<0.0010	<0.0020	--	
MW-304D	3/25/2008	103.00	19.98	--	83.02	--	<0.0500	--	--	0.00377	<0.00050	<0.00050	<0.0010	--	
MW-304D	6/30/2008	103.00	18.15	--	84.85	--	--	0.03	--	0.007	<0.0010	<0.0010	<0.0020	--	
MW-304D	9/9/2008	103.00	16.93	--	86.07	--	--	0.1	--	0.04	<0.0010	<0.0010	<0.0020	--	
MW-304D	12/12/2008	103.00	--	--	--	--	--	--	--	--	--	--	--	--	
MW-304D	1/13/2009	103.00	19.62	--	83.38	--	--	0.04	--	0.02	<0.0010	<0.0010	<0.0020	--	
MW-304D	5/12/2009	103.00	19.10	--	83.90	--	--	0.02	--	0.0049	<0.00050	<0.00050	<0.00150	--	
MW-304D	9/30/2009	439.87	17.95	--	421.92	--	--	0.015	--	0.0026	<0.00050	<0.00050	<0.00150	--	
MW-304D	6/16/2010	439.87	13.91	--	425.96	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-304D	9/25/2010	439.87	17.85	--	422.02	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-304D	6/8/2011	439.87	19.12	--	420.75	--	--	--	--	--	--	--	--	--	
MW-304D	6/9/2011	--	--	--	--	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-304D	9/19/2011	439.87	16.70	--	423.17	--	--	--	--	--	--	--	--	--	
MW-304D	9/20/2011	--	--	--	--	--	--	--	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-304D	6/11/2012	439.87	17.42	--	422.45	--	--	--	--	--	--	--	--	--	
MW-304D	6/12/2012	--	--	--	--	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-304D	10/2/2012	439.90	17.61	--	422.29	--	--	--	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-304D	6/10/2013	439.90	17.47	--	422.43	--	--	0.06520 J	--	0.0039	0.000440J	<0.000240	<0.000720	--	
MW-304D	10/10/2013	439.90	17.81	--	422.09	--	--	--	--	0.0042	<0.00100	<0.00100	<0.00300	--	
MW-304D	6/30/2014	439.90	16.76	--	423.14	--	--	<0.1000	--	0.002	<0.00100	<0.00100	<0.00300	--	
MW-304D	9/16/2015	439.90	17.18	--	422.72	--	--	0.0350 J	--	0.00090 J	<0.00050	<0.00050	<0.00050	--	
MW-304D	8/3/2016	439.90	14.00	--	425.90	--	--	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-304D	9/19/2017	439.70	14.58	--	425.12	--	--	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-304D	8/20/2018	439.70	13.42	--	426.28	--	--	<0.014	--	<0.0002	<0.0002	<0.0002	<0.0005	--	
MW-304D	7/10/2019	439.88	16.45	0.00	423.43	--	--	<0.1 J	--	<0.00053 J	<0.00039 J	<0.00050 J	0.00094 J	--	Depth to water taken from well survey dated July 25, 2019
MW-304S	3/28/2000	434.51	19.65	--	414.86	--	--	--	--	--	--	--	--	--	
MW-304S	6/28/2000	434.51	16.68	--	417.83	--	--	--	--	--	--	--	--	--	
MW-304S	9/27/2000	434.51	15.54	--	418.97	--	--	--	--	--	--	--	--	--	
MW-304S	12/20/2000	434.51	10.00	--	424.51	--	--	--	--	--	--	--	--	--	
MW-304S	3/30/2001	434.51	18.90	--	415.61	--	--	--	--	--	--	--	--	--	
MW-304S	6/28/2001	434.51	17.57	--	416.94	--	--	--	--	--	--	--	--	--	

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First Quarter 200 to Current
 University Car Care Center / Former Texaco 211081
 4103 Geist Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-d w/Si gel (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)	Comments
ADEC Groundwater Cleanup Levels ^a						1.5	1.5	2.2	1.1	0.0046	1.1	0.015	0.19	0.14	
MW-304S	3/27/2002	434.51	18.97	--	415.54	--	--	--	--	--	--	--	--	--	
MW-304S	4/7/2003	434.51	16.86	--	417.65	--	--	--	--	--	--	--	--	--	
MW-304S	3/23/2004	434.51	18.58	--	415.93	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-304S	4/6/2005	434.51	19.04	--	415.47	<0.0400	--	<0.0100	<0.0400	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-304S	3/29/2006	434.51	19.57	--	414.94	--	--	--	--	--	--	--	--	--	
MW-304S	9/26/2006	102.69	--	--	--	--	--	--	--	--	--	--	--	--	
MW-304S	3/28/2007	102.69	19.48	--	83.21	--	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
MW-304S	5/11/2009	102.69	18.91	--	83.78	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-304S	10/1/2009	439.54	17.41	--	422.13	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-304S	6/16/2010	439.54	18.65	--	420.89	--	--	--	--	--	--	--	--	--	
MW-304S	9/25/2010	439.54	17.26	--	422.28	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-304S	6/8/2011	439.54	18.43	--	421.11	--	--	--	--	--	--	--	--	--	
MW-304S	9/19/2011	439.54	16.35	--	423.19	--	--	--	--	--	--	--	--	--	
MW-304S	6/11/2012	439.54	17.05	--	422.49	--	--	--	--	--	--	--	--	--	
MW-304S	10/2/2012	439.57	17.25	--	422.32	--	--	--	--	--	--	--	--	--	
MW-304S	6/10/2013	439.57	16.93	--	422.64	--	--	--	--	--	--	--	--	--	
MW-304S	10/10/2013	439.57	17.33	--	422.24	--	--	--	--	--	--	--	--	--	
MW-304S	6/29/2014	439.57	16.31	--	423.26	--	--	--	--	--	--	--	--	--	
MW-304S	9/16/2015	439.57	16.29	--	423.28	--	--	--	--	--	--	--	--	--	
MW-304S	8/3/2016	439.57	13.69	--	425.88	--	--	--	--	--	--	--	--	--	
MW-304S	9/19/2017	439.37	14.59	--	424.78	--	--	--	--	--	--	--	--	--	
MW-304S	8/20/2018	439.37	13.28	--	426.09	--	--	--	--	--	--	--	--	--	
MW-304S	7/10/2019	439.56	16.13	0.00	423.43	--	--	--	--	--	--	--	--	--	Depth to water taken from well survey dated July 25, 2019
MW-305	3/28/2000	431.81	15.90	--	415.91	--	--	--	--	--	--	--	--	--	
MW-305	9/26/2000	431.81	11.63	--	420.18	--	--	--	--	--	--	--	--	--	
MW-305	3/30/2001	431.81	15.08	--	416.73	--	--	--	--	--	--	--	--	--	
MW-305	3/27/2002	431.81	15.18	--	416.63	--	--	--	--	--	--	--	--	--	
MW-305	4/8/2003	431.81	13.22	--	418.59	--	--	--	--	--	--	--	--	--	
MW-305	3/23/2004	--	--	--	--	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-305	3/24/2004	431.81	15.04	--	416.77	--	--	--	--	--	--	--	--	--	
MW-305	4/6/2005	431.81	15.21	--	416.60	--	--	--	--	--	--	--	--	--	
MW-305	4/7/2005	--	--	--	--	<0.0400	--	<0.0100	0.056	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-305	3/30/2006	431.81	16.78	--	415.03	--	--	--	--	--	--	--	--	--	
MW-305	9/26/2006	99.50	--	--	--	--	--	--	--	--	--	--	--	--	
MW-305	3/31/2007	99.50	15.82	--	83.68	--	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
MW-305	10/1/2009	436.76	13.75	--	423.01	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-305	6/16/2010	436.76	14.45	--	422.31	--	--	--	--	--	--	--	--	--	
MW-305	9/25/2010	436.76	13.37	--	423.39	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-305	6/8/2011	436.76	14.12	--	422.64	--	--	--	--	--	--	--	--	--	
MW-305	9/19/2011	436.76	12.76	--	424.00	--	--	--	--	--	--	--	--	--	
MW-305	6/11/2012	436.76	13.25	--	423.51	--	--	--	--	--	--	--	--	--	
MW-305	10/2/2012	436.38	13.78	--	422.60	--	--	--	--	--	--	--	--	--	
MW-305	6/10/2013	436.38	12.70	--	423.68	--	--	--	--	--	--	--	--	--	
MW-305	10/10/2013	436.38	13.71	--	422.67	--	--	--	--	--	--	--	--	--	
MW-305	6/29/2014	436.38	12.35	--	424.03	--	--	--	--	--	--	--	--	--	
MW-305	8/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-305	9/19/2017	436.38	--	--	--	--	--	--	--	--	--	--	--	--	
MW-305	8/20/2018	436.38	--	--	--	--	--	--	--	--	--	--	--	--	
MW-305	7/10/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	Well inaccessible
MW-306	7/13/2006	--	10.36	--	--	--	--	<0.0100 / <0.0100	--	<0.00050 / <0.00050	<0.00050 / <0.00050	<0.00050 / <0.00050	<0.00150 / <0.00150	--	
MW-306	9/26/2006	97.93	--	--	--	--	--	--	--	--	--	--	--	--	
MW-306	3/31/2007	97.93	14.21	--	83.72	--	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
MW-306	5/12/2009	97.93	12.58	--	85.35	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-306	10/1/2009	434.35	11.76	--	422.59	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-306	6/16/2010	434.35	12.10	--	422.25	--	--	--	--	--	--	--	--	--	
MW-306	9/25/2010	434.35	11.33	--	423.02	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-306	6/8/2011	434.35	12.01	--	422.34	--	--	--	--	--	--	--	--	--	
MW-306	9/19/2011	434.35	10.80	--	423.55	--	--	--	--	--	--	--	--	--	
MW-306	6/11/2012	434.35	11.13	--	423.22	--	--	--	--	--	--	--	--	--	
MW-306	10/2/2012	434.41	11.82	--	422.59	--	--	--	--	--	--	--	--	--	

Table 2. Historical Groundwater Gauging and Analytical Results
First Quarter 200 to Current
 University Car Care Center / Former Texaco 211081
 4103 Geist Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-d w/Si gel (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)	Comments
ADEC Groundwater Cleanup Levels ^a						1.5	1.5	2.2	1.1	0.0046	1.1	0.015	0.19	0.14	
MW-306	6/10/2013	434.41	10.45	--	423.96	--	--	--	--	--	--	--	--	--	
MW-306	10/10/2013	434.41	11.87	--	422.54	--	--	--	--	--	--	--	--	--	
MW-306	6/29/2014	434.41	10.12	--	424.29	--	--	--	--	--	--	--	--	--	
MW-306	9/16/2015	434.14	9.89	--	424.25	--	--	--	--	--	--	--	--	--	
MW-306	8/3/2016	434.14	7.31	--	426.83	--	--	--	--	--	--	--	--	--	
MW-306	9/19/2017	433.98	10.52	--	423.46	--	--	--	--	--	--	--	--	--	
MW-306	8/20/2018	433.98	8.82	--	425.16	--	--	--	--	--	--	--	--	--	
MW-306	7/10/2019	434.17	10.81	0.00	423.36	--	--	--	--	--	--	--	--	--	Depth to water taken from well survey dated July 25, 2019
MW-307	7/13/2006	--	13.90	--	--	--	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-307	9/26/2006	101.09	--	--	--	--	--	--	--	--	--	--	--	--	
MW-307	3/31/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-307	5/8/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-307	10/1/2009	438.10	15.29	--	422.81	--	--	<0.010	--	<0.00050	<0.00050	<0.00050	<0.00150	--	
MW-307	6/16/2010	438.10	--	--	--	--	--	--	--	--	--	--	--	--	
MW-307	9/25/2010	439.10	--	--	--	--	--	--	--	--	--	--	--	--	
MW-307	6/8/2011	439.10	--	--	--	--	--	--	--	--	--	--	--	--	
MW-307	9/19/2011	439.10	14.38	--	424.72	--	--	--	--	--	--	--	--	--	
MW-307	6/11/2012	439.10	14.80	--	424.30	--	--	--	--	--	--	--	--	--	
MW-307	10/2/2012	438.19	--	--	--	--	--	--	--	--	--	--	--	--	
MW-307	6/10/2013	438.19	14.22	--	423.97	--	--	--	--	--	--	--	--	--	
MW-307	10/10/2013	438.19	--	--	--	--	--	--	--	--	--	--	--	--	
MW-307	6/29/2014	438.19	13.96	--	424.23	--	--	--	--	--	--	--	--	--	
MW-307	6/30/2014	--	--	--	--	--	--	--	--	<0.00100	<0.00100	<0.00100	<0.00300	--	
MW-307	9/16/2015	438.19	13.60	--	424.59	0.24	--	<0.0100	--	<0.00050	<0.00050	<0.00050	<0.00050	--	
MW-307	8/3/2016	438.19	11.42	--	426.77	<0.05	<0.029	<0.010	<0.075	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-307	9/19/2017	438.03	14.39	--	423.64	--	--	--	--	--	--	--	--	--	
MW-307	8/20/2018	437.98	12.70	--	425.28	0.17 J	<0.053J	<0.014	0.21 J	<0.0002	<0.0002	<0.0002	<0.0005	--	
MW-307	7/10/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	Well obstructed at 14.4 ft bTOC
GW-1B	12/2/2004	--	--	--	--	0.066	--	0.019	0.094	0.0042	<0.00050	<0.00050	<0.00150	--	
GW-1B	6/27/2005	--	--	--	--	0.042 / 0.037	--	0.012 / 0.014	0.1 / 0.087	0.0043 / 0.0043	<0.00050 / 0.0006	<0.00050 / <0.00050	<0.00150 / <0.00150	--	
GW-1B	9/21/2005	--	--	--	--	<0.0200 / <0.0210	--	0.02 / 0.017	<0.0200 / <0.0210	0.0041 / 0.004	0.0013 / 0.0007	<0.00050 / <0.00050	<0.00150 / <0.00150	--	
GW-1B	12/6/2005	--	--	--	--	--	--	<0.0100 / <0.0100	--	0.002 / 0.002	<0.00050 / <0.00050	<0.00050 / <0.00050	<0.00150 / <0.00150	--	
GW-1B	9/26/2006	--	--	--	--	--	--	<0.0100 / <0.0100	--	0.0013 / 0.0013	<0.00050 / <0.00050	<0.00050 / <0.00050	<0.00150 / <0.00150	--	
GW-1B	12/19/2006	--	--	--	--	--	--	<0.0100 / <0.0100	--	<0.0010 / <0.0010	<0.0010 / <0.0010	<0.0010 / <0.0010	<0.0020 / <0.0020	--	
GW-1B	3/28/2007	--	--	--	--	--	--	<0.0100 / <0.0100	--	<0.0010 / <0.0010	<0.0010 / <0.0010	<0.0010 / <0.0010	<0.0020 / <0.0020	--	
GW-1B	6/8/2007	--	--	--	--	--	--	<0.0100 / <0.0100	--	<0.0010 / <0.0010	<0.0010 / <0.0010	<0.0010 / <0.0010	<0.0020 / <0.0020	--	
GW-1B	9/14/2007	--	--	--	--	--	--	<0.0100 / <0.0100	--	0.001 / 0.001	<0.0010 / <0.0010	<0.0010 / <0.0010	<0.0020 / <0.0020	--	
GW-1B	6/6/2008	--	--	--	--	--	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	<0.0030	
GW-1B	6/27/2008	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00100	<0.00100	<0.00200	--	
GW-1B	7/15/2008	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00100	<0.00100	<0.00200	--	
GW-1B	8/5/2008	--	--	--	--	--	--	<0.1000	--	0.0024	<0.00100	0.0022	<0.00200	--	
GW-1B	9/26/2008	--	--	--	--	--	--	<0.1000	--	0.0015	<0.00100	<0.00100	<0.00200	--	
GW-1B	10/28/2008	--	--	--	--	--	--	<0.1000	--	0.0013	<0.00100	<0.00100	<0.00200	--	
GW-1B	11/19/2008	--	--	--	--	--	--	<0.1000	--	0.0018	<0.00100	<0.00100	<0.00200	--	
GW-1B	12/22/2008	--	--	--	--	--	--	<0.1000	--	0.0016	<0.00100	<0.00100	<0.00200	--	
GW-1B	1/29/2009	--	--	--	--	--	--	<0.1000	--	0.001	<0.00100	<0.00100	<0.00200	--	
GW-1B	2/26/2009	--	--	--	--	--	--	<0.1000	--	0.0022	<0.00100	<0.00100	<0.00200	--	
GW-1B	3/26/2009	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00100	<0.00100	<0.00200	--	
GW-1B	4/21/2009	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00100	<0.00100	<0.00200	--	
GW-1B	5/8/2009	--	--	--	--	--	--	<0.1000	--	0.0024	<0.00120	<0.00150	<0.00200	--	
GW-1B	6/24/2009	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-1B	7/23/2009	--	--	--	--	--	--	<0.1000	--	0.0011	<0.00120	<0.00150	<0.00300	--	
GW-1B	8/26/2009	--	--	--	--	--	--	0.37	--	0.0033	0.0021	<0.00150	<0.00300	--	
GW-1B	9/28/2009	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-1B	10/23/2009	--	--	--	--	--	--	<0.1000	--	0.001	<0.00120	<0.00150	<0.00300	--	
GW-1B	12/14/2009	--	--	--	--	--	--	<0.1000	--	0.001	<0.00120	<0.00150	<0.00300	--	
GW-1B	1/13/2010	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-1B	2/10/2010	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-1B	3/17/2010	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-1B	4/21/2010	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	

**Table 2. Historical Groundwater Gauging and Analytical Results
First Quarter 200 to Current**
University Car Care Center / Former Texaco 211081
4103 Geist Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-d w/Si gel (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)	Comments
ADEC Groundwater Cleanup Levels^a						1.5	1.5	2.2	1.1	0.0046	1.1	0.015	0.19	0.14	
GW-1B	5/26/2010	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-1B	6/16/2010	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-1B	7/23/2010	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-1B	9/28/2010	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-1B	6/9/2011	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-1B	9/20/2011	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-1B	6/12/2012	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-1B	10/2/2012	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-1B	8/15/2013	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-2	6/27/2005	--	--	--	--	0.031	--	0.034	0.079	0.012	<0.00050	<0.00050	<0.00150	--	
GW-2	9/21/2005	--	--	--	--	<0.0210	--	0.017	<0.0210	0.0052	<0.00050	<0.00050	<0.00150	--	
GW-2	3/28/2007	--	--	--	--	--	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
GW-2	6/8/2007	--	--	--	--	--	--	<0.0100	--	0.001	<0.0010	<0.0010	<0.0020	--	
GW-2	9/14/2007	--	--	--	--	--	--	<0.0100	--	0.001	<0.0010	<0.0010	<0.0020	--	
GW-2	6/6/2008	--	--	--	--	--	--	<0.0100	--	<0.0010	<0.0010	<0.0010	<0.0020	<0.0030	
GW-2	6/27/2008	--	--	--	--	--	--	<0.1000	--	0.0079	<0.00100	<0.00100	<0.00200	--	
GW-2	7/15/2008	--	--	--	--	--	--	<0.1000	--	0.0039	<0.00150	<0.00120	<0.00300	--	
GW-2	8/5/2008	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00100	<0.00100	<0.00200	--	
GW-2	9/26/2008	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00100	<0.00100	<0.00200	--	
GW-2	10/28/2008	--	--	--	--	--	--	<0.1000	--	0.0011	<0.00100	<0.00100	<0.00200	--	
GW-2	11/19/2008	--	--	--	--	--	--	<0.1000	--	0.0017	<0.00100	<0.00100	<0.00200	--	
GW-2	12/22/2008	--	--	--	--	--	--	<0.1000	--	0.0015	<0.00100	<0.00100	<0.00200	--	
GW-2	1/29/2009	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00100	<0.00100	<0.00200	--	
GW-2	2/26/2009	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00100	<0.00100	<0.00200	--	
GW-2	3/26/2009	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00100	<0.00100	<0.00200	--	
GW-2	4/21/2009	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00100	<0.00100	<0.00200	--	
GW-2	5/8/2009	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-2	6/24/2009	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-2	7/23/2009	--	--	--	--	--	--	<0.1000	--	0.0013	<0.00120	<0.00150	<0.00300	--	
GW-2	8/26/2009	--	--	--	--	--	--	0.38	--	0.0036	<0.00120	<0.00150	<0.00300	--	
GW-2	9/28/2009	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-2	10/23/2009	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-2	12/14/2009	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-2	1/13/2010	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-2	2/10/2010	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-2	3/17/2010	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-2	4/21/2010	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-2	5/26/2010	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-2	6/16/2010	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-2	8/17/2010	--	--	--	--	--	--	<0.1000	--	0.0021	<0.00120	<0.00150	<0.00300	--	
GW-2	6/9/2011	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-2	9/19/2011	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-2	6/12/2012	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-2	10/2/2012	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
GW-2	8/15/2013	--	--	--	--	--	--	<0.1000	--	<0.00100	<0.00120	<0.00150	<0.00300	--	
QA	8/3/2016	--	--	--	--	--	--	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
QA	9/19/2017	--	--	--	--	--	--	<0.010	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
QA	8/20/2018	--	--	--	--	--	--	<0.014	--	<0.0002	<0.0002	<0.0002	<0.0005	--	

Table 2. Historical Groundwater Gauging and Analytical Results
First Quarter 200 to Current
 University Car Care Center / Former Texaco 211081
 4103 Geist Road, Anchorage, Alaska

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	LNAPL thickness (ft)	GW Elev (ft amsl)	TPH-d (mg/L)	TPH-d w/Si gel (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)	Comments
ADEC Groundwater Cleanup Levels^a						1.5	1.5	2.2	1.1	0.0046	1.1	0.015	0.19	0.14	

Notes:

MW = Groundwater monitoring well
 TOC = Top of casing
 DTW = Depth to groundwater
 ft bTOC = Feet below top of casing
 ft = feet
 BD= Duplicate Sample
 GW Elev = Groundwater elevation
 mg/L = Milligrams per liter
 LNAPL = Light non-aqueous phase liquid
 -- = Not analyzed/ Not available
BOLD = Indicates concentration above method detection limit (MDL)
BOLD AND SHADED = Indicates concentration above the ADEC Table C Groundwater Cleanup Level
 <0.0002 = Not detected at or above the method detection limit (MDL)
 J = Estimated value (between MDL and Reporting Limit (RL))
 D= The sample result reported from dilution

TPH-d = Total petroleum hydrocarbons, diesel range by LUFT GC/MS according to Alaska Series Method AK102 and AK103
 TPH-d w/Si gel = Total petroleum hydrocarbons, diesel range with silica gel by LUFT GC/MS according to Alaska Series Method AK102 and AK103
 TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to Alaska Series Method AK101
 TPH-r = Total petroleum hydrocarbons, residual range organics by LUFT GC/MS according to Alaska Series Method AK102 and AK103
 Analytes by United States Environmental Protection Agency (USEPA) Method 8260C
 Benzene, Toluene, Ethylbenzene, and Total Xylenes (collectively called BTEX) by SW-846 8021B or 8260B
 Total Xylenes = Sum of m-, o-, and p-xylenes
 MTBE = Methyl Tertiary-Butyl Ether
 ADEC = Alaska Department of Environmental Conservation
^a = Levels established in ADEC Table C Groundwater Cleanup Levels (18 AAC 75.345)
 x / y = Sample Results / Blind Duplicate Results

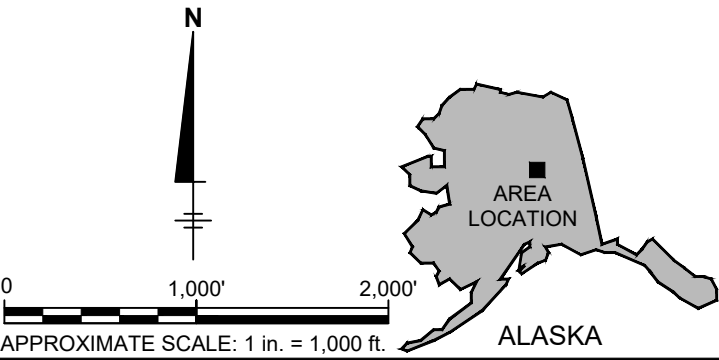
FIGURES





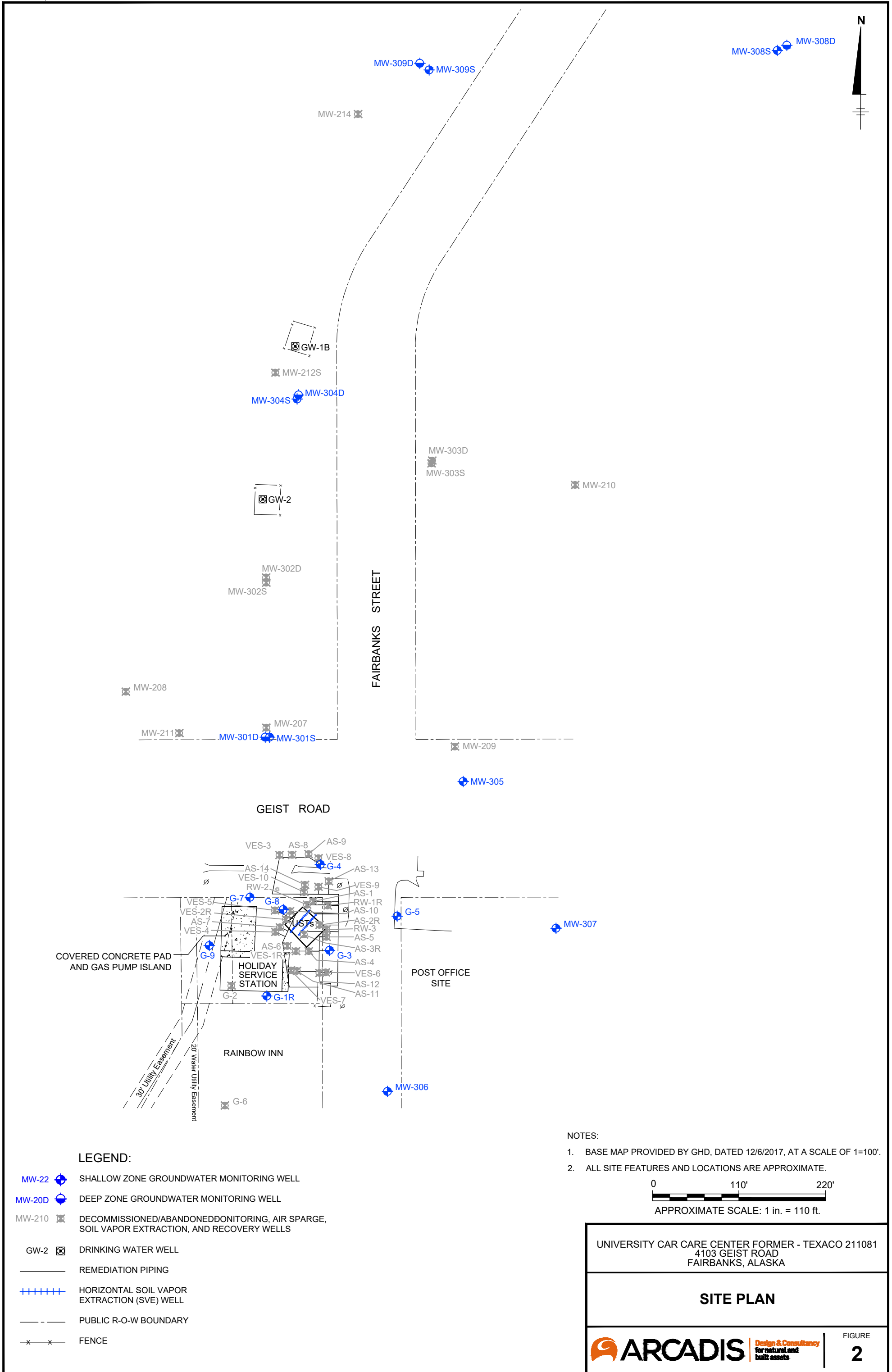
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 C:\Users\nadigerc8191\BIM 360\Arcadis\ANA - CHEVRON CORPORATION\Project Files\ASR AK 2110812019\GWR\AK000.1081101-DWG\211081 Fig-1 SLM.dwg LAYOUT: 1
 ACADVER: 23.05 (LMS TECH) PAGES: 10 PLOT: 10 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 9/24/2019 5:45 PM BY: NADIGERA, CHIDAMBARA



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. FAIRBANKS D-2 SE AND SW, ALASKA, 2017.



UNIVERSITY CAR CARE CENTER FORMER - TEXACO 211081 4103 GEIST ROAD FAIRBANKS, ALASKA	
SITE LOCATION MAP	
	
	FIGURE 1

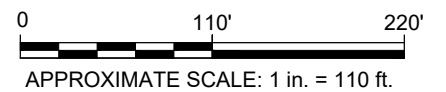


LEGEND:

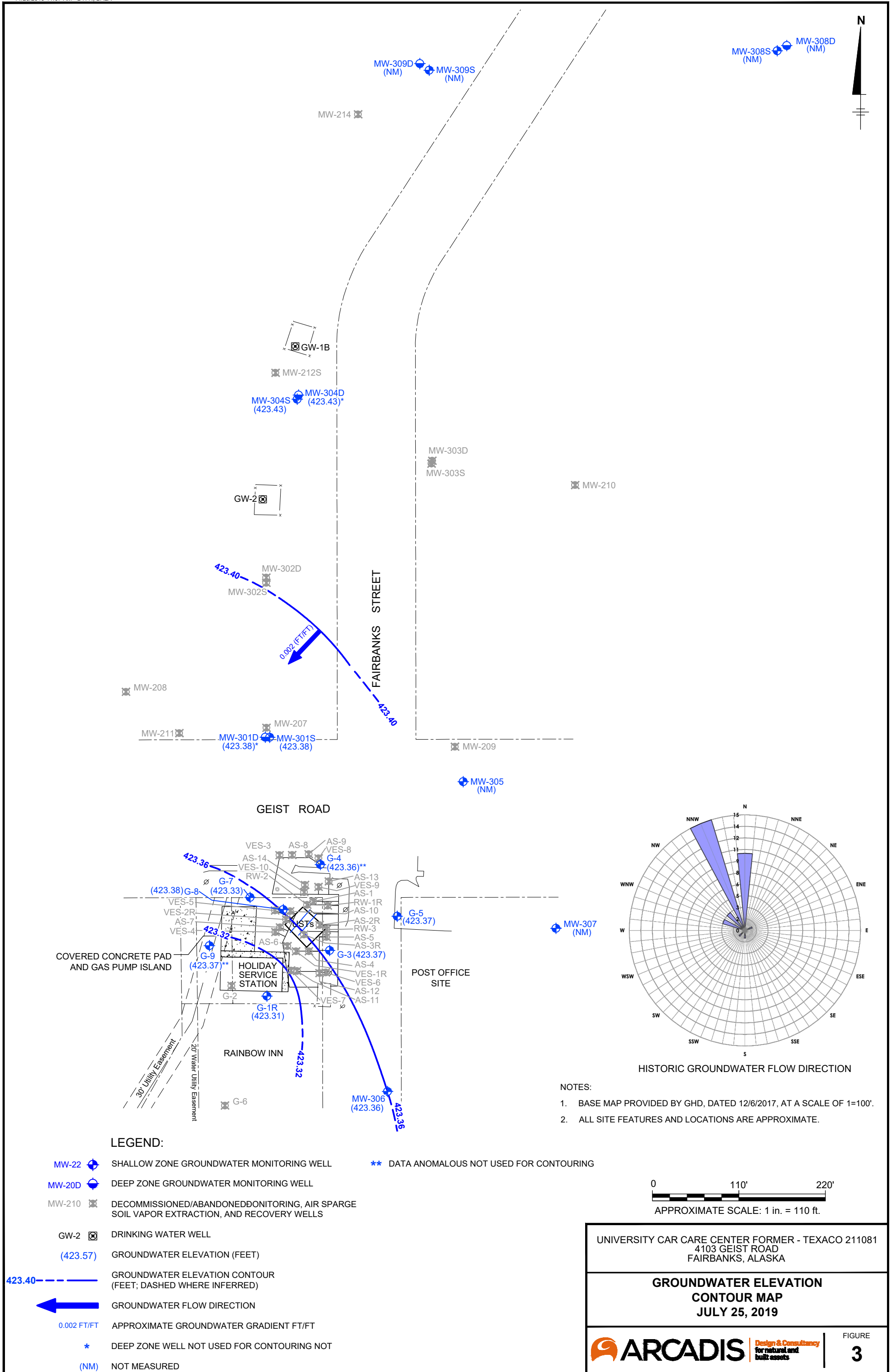
- ◆ MW-22 SHALLOW ZONE GROUNDWATER MONITORING WELL
- MW-20D DEEP ZONE GROUNDWATER MONITORING WELL
- ⊠ MW-210 DECOMMISSIONED/ABANDONED MONITORING, AIR SPARGE, SOIL VAPOR EXTRACTION, AND RECOVERY WELLS
- GW-2 DRINKING WATER WELL
- REMEDIATION PIPING
- +++++ HORIZONTAL SOIL VAPOR EXTRACTION (SVE) WELL
- - - - - PUBLIC R-O-W BOUNDARY
- x-x-x-x- FENCE

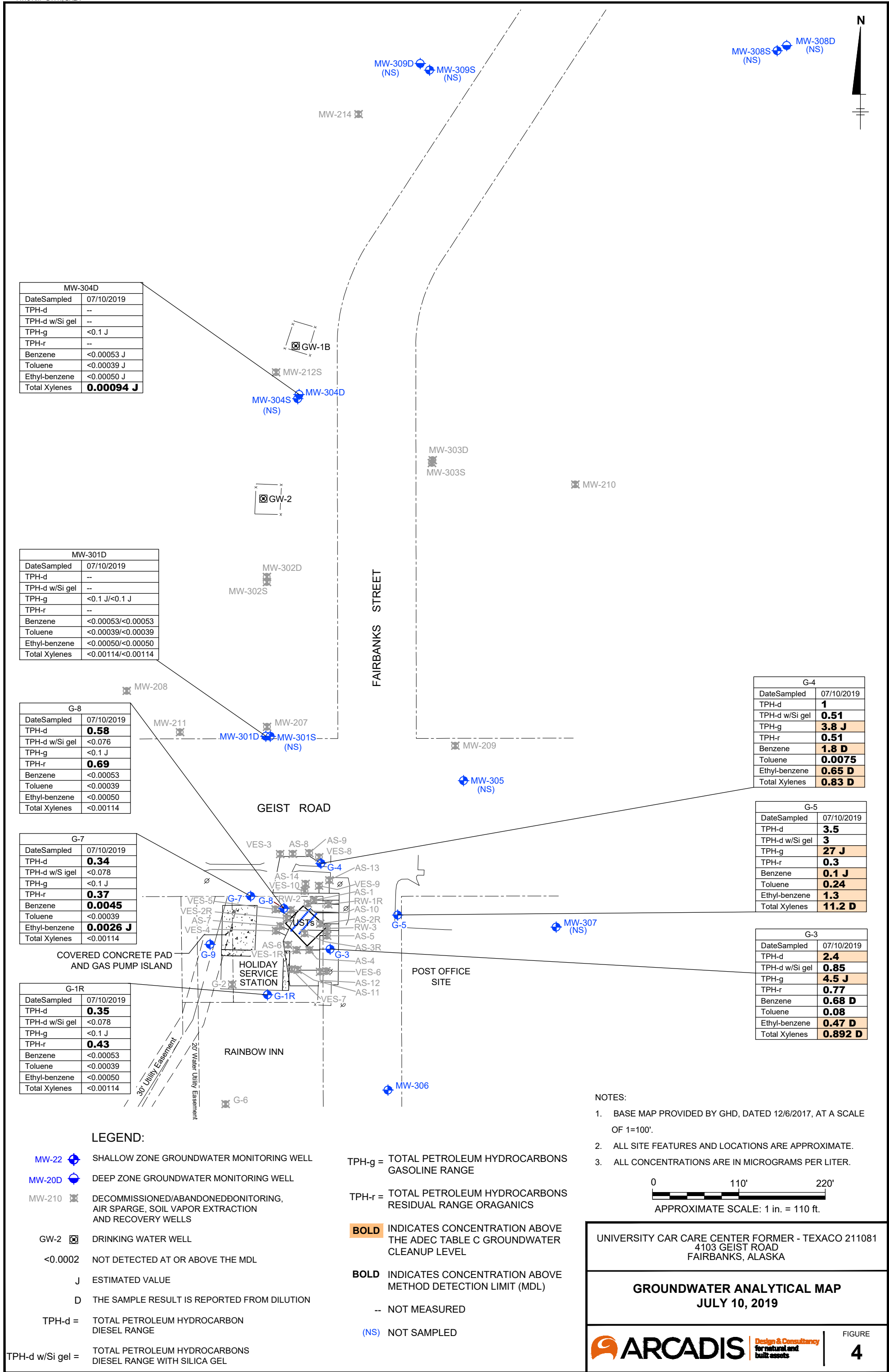
NOTES:

1. BASE MAP PROVIDED BY GHD, DATED 12/6/2017, AT A SCALE OF 1=100'.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.



UNIVERSITY CAR CARE CENTER FORMER - TEXACO 211081 4103 GEIST ROAD FAIRBANKS, ALASKA	
SITE PLAN	
Design & Consultancy For natural and built assets	FIGURE 2





MW-304D	
Date Sampled	07/10/2019
TPH-d	--
TPH-d w/Si gel	--
TPH-g	<0.1 J
TPH-r	--
Benzene	<0.00053 J
Toluene	<0.00039 J
Ethyl-benzene	<0.00050 J
Total Xylenes	0.00094 J

MW-301D	
Date Sampled	07/10/2019
TPH-d	--
TPH-d w/Si gel	--
TPH-g	<0.1 J/<0.1 J
TPH-r	--
Benzene	<0.00053/<0.00053
Toluene	<0.00039/<0.00039
Ethyl-benzene	<0.00050/<0.00050
Total Xylenes	<0.00114/<0.00114

G-8	
Date Sampled	07/10/2019
TPH-d	0.58
TPH-d w/Si gel	<0.076
TPH-g	<0.1 J
TPH-r	0.69
Benzene	<0.00053
Toluene	<0.00039
Ethyl-benzene	<0.00050
Total Xylenes	<0.00114

G-7	
Date Sampled	07/10/2019
TPH-d	0.34
TPH-d w/Si gel	<0.078
TPH-g	<0.1 J
TPH-r	0.37
Benzene	0.0045
Toluene	<0.00039
Ethyl-benzene	0.0026 J
Total Xylenes	<0.00114

G-1R	
Date Sampled	07/10/2019
TPH-d	0.35
TPH-d w/Si gel	<0.078
TPH-g	<0.1 J
TPH-r	0.43
Benzene	<0.00053
Toluene	<0.00039
Ethyl-benzene	<0.00050
Total Xylenes	<0.00114

G-4	
Date Sampled	07/10/2019
TPH-d	1
TPH-d w/Si gel	0.51
TPH-g	3.8 J
TPH-r	0.51
Benzene	1.8 D
Toluene	0.0075
Ethyl-benzene	0.65 D
Total Xylenes	0.83 D

G-5	
Date Sampled	07/10/2019
TPH-d	3.5
TPH-d w/Si gel	3
TPH-g	27 J
TPH-r	0.3
Benzene	0.1 J
Toluene	0.24
Ethyl-benzene	1.3
Total Xylenes	11.2 D

G-3	
Date Sampled	07/10/2019
TPH-d	2.4
TPH-d w/Si gel	0.85
TPH-g	4.5 J
TPH-r	0.77
Benzene	0.68 D
Toluene	0.08
Ethyl-benzene	0.47 D
Total Xylenes	0.892 D

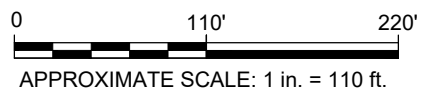
LEGEND:

- MW-22 SHALLOW ZONE GROUNDWATER MONITORING WELL
- MW-20D DEEP ZONE GROUNDWATER MONITORING WELL
- MW-210 DECOMMISSIONED/ABANDONED MONITORING, AIR SPARGE, SOIL VAPOR EXTRACTION AND RECOVERY WELLS
- GW-2 DRINKING WATER WELL
- <0.0002 NOT DETECTED AT OR ABOVE THE MDL
- J ESTIMATED VALUE
- D THE SAMPLE RESULT IS REPORTED FROM DILUTION
- TPH-d = TOTAL PETROLEUM HYDROCARBON DIESEL RANGE
- TPH-d w/Si gel = TOTAL PETROLEUM HYDROCARBONS DIESEL RANGE WITH SILICA GEL

- TPH-g = TOTAL PETROLEUM HYDROCARBONS GASOLINE RANGE
- TPH-r = TOTAL PETROLEUM HYDROCARBONS RESIDUAL RANGE ORGANICS
- BOLD** INDICATES CONCENTRATION ABOVE THE ADEC TABLE C GROUNDWATER CLEANUP LEVEL
- BOLD** INDICATES CONCENTRATION ABOVE METHOD DETECTION LIMIT (MDL)
- NOT MEASURED
- (NS) NOT SAMPLED

NOTES:

1. BASE MAP PROVIDED BY GHD, DATED 12/6/2017, AT A SCALE OF 1=100'.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
3. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER.



UNIVERSITY CAR CARE CENTER FORMER - TEXACO 211081
 4103 GEIST ROAD
 FAIRBANKS, ALASKA

GROUNDWATER ANALYTICAL MAP
 JULY 10, 2019

APPENDIX A

Site Background and History



**Chevron Environmental
Management Company**

Appendix A:

Site History and Background

Former Texaco Facility 211081

4103 Geist Road
Fairbanks, Alaska
ADEC File No: 100.26.063
HAZARD ID No: 23798

December 12, 2019

Appendix A: 211081 Site Description and Background

1 211081 SITE BACKGROUND AND HISTORY

1.1 Site Description and Vicinity

Former Texaco Facility 211081 is located at 4103 Geist Road, in Fairbanks, Alaska, in a mixed commercial and residential area south of the University of Alaska, Fairbanks. The site currently consists of a service station operated by Holiday Companies, with three underground storage tanks (USTs), four dispensers, and a station building.

1.2 Site History

The site was formerly a University Car Care Center/Texaco service station that was decommissioned in 1992. At the time of decommissioning, all station facilities were removed. The location of the former USTs is approximately the same as the existing USTs. Petroleum impacts on the site were first identified in 1988. In 1996, the site was redeveloped by MAPCO Petroleum Company, at which time the current facilities were installed.

2 SITE CHARACTERIZATION

There are currently six groundwater monitoring wells onsite, and fifteen groundwater monitoring wells offsite. Samples from well G-5 have indicated petroleum impacts on a drainage swale running beneath Fairbanks Street, west of the site.

3 CURRENT SITE MONITORING ACTIVITIES

The site currently has a network of six onsite and fifteen offsite groundwater monitoring wells, which are monitored annually. Offsite well MW-305 was reported inaccessible during sampling in September 2017. In recent historical sampling, COPCs have exceeded their respective ADEC Method 2 groundwater cleanup levels in wells near the source area and within a drainage swale west of the site.

4 GEOLOGY AND HYDROGEOLOGY

4.1 Site Hydrogeology

The site is in the Tanana River Valley in central Alaska, and is north of the Chena River and west of the Noyes Slough. From 2000 until present, static groundwater depths at the site have ranged between 7.31 to 20.95 feet below top of casing (ft btoc). Historic ground water flow is to the north. The UAF domestic water supply wells are 450-600 feet north (downgradient) of the site, and Deadman Slough is approximately 600 feet to the southeast (upgradient).

5 REFERENCES

GHD Inc. 2017. Annual 2017 Groundwater Monitoring Report: University Car Care Center/Former Texaco 211081, 4103 Geist Road, Fairbanks, AK. December 6

APPENDIX B

Field Data Sheets



211081, G1-R, 2019-07-10

Created	2019-07-10 16:43:41 UTC by Evan Wujcik
Updated	2019-07-17 18:00:51 UTC by Bo Jessup
Location	64.8488835293, -147.830312625
Site ID	211081
Site ID Link	211081
Site Location	4103 Geist Road, Fairbanks, AK 99709
Project Number	DEMAK000.1081
Regulatory Site ID	100.26.023
Date	2019-07-10
Weather	Cloudy
Well ID	G1-R
Sampler Name	Evan Wujcik

Evacuation Details

Well Head PID reading (ppm)	0.1
Well Casing Material	PVC
Static Water Level (ft-bmp)	12.66
Total Depth (ft-bmp)	17.5
Water Column	4.84
Purge Method	Low-Flow
Type of Equipment used	Bladder
Sample Method	Low-Flow
Sample Depth (ft-bmp) (e.g. pump intake)	15
Purge Start	11:02
Water Quality Meter Make/Model	Horiba
Reading Time	08:45
Rate (mL/min)	300
Depth to Water (ft)	13.5

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	10:38
Minutes Elapsed between readings	113
Rate (mL/min)	200
Depth to Water (ft)	12.6
pH	7.25
Conductivity (mS/cm)	0.692
Turbidity (NTU)	532
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	9.63
Redox (ORP mV)	-98

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	10:41
Minutes Elapsed between readings	3
Rate (mL/min)	200
Depth to Water (ft)	12.6
pH	7.24
Conductivity (mS/cm)	0.691
Turbidity (NTU)	293
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	9.13
Redox (ORP mV)	-100

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	10:44
Minutes Elapsed between readings	3
Rate (mL/min)	200
Depth to Water (ft)	12.6
pH	7.23
Conductivity (mS/cm)	0.692
Turbidity (NTU)	178
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	9.03
Redox (ORP mV)	-100

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	10:47
Minutes Elapsed between readings	3
Rate (mL/min)	200
Depth to Water (ft)	12.6
pH	7.23
Conductivity (mS/cm)	0.692
Turbidity (NTU)	161
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	9.11
Redox (ORP mV)	-109

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	10:50
Minutes Elapsed between readings	3

Rate (mL/min)	200
Depth to Water (ft)	12.6
pH	7.23
Conductivity (mS/cm)	0.692
Turbidity (NTU)	150
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	9.07
Redox (ORP mV)	-104

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Purge End	10:55
Measurement Units	Gallons

Sample Information

Sample Time	11:00
Samples Collected	GRO AK 101, DRO AK 102, DRO AK 102 w/SGC, RRO AK 103, BTEX 8260B

211081, G-3, 2019-07-10

Created	2019-07-10 16:41:56 UTC by Evan Wujcik
Updated	2019-07-17 18:02:53 UTC by Bo Jessup
Location	64.8488621973, -147.83039921
Site ID	211081
Site ID Link	211081
Site Location	4103 Geist Road, Fairbanks, AK 99709
Project Number	DEMAK000.1081
Regulatory Site ID	100.26.023
Date	2019-07-10
Weather	Cloudy
Well ID	G-3
Sampler Name	Evan Wujcik

Evacuation Details

Well Head PID reading (ppm)	0
Well Casing Material	PVC
Static Water Level (ft-bmp)	11.67
Total Depth (ft-bmp)	18.7
Water Column	7.03
Purge Method	Low-Flow
Type of Equipment used	Bladder
Sample Method	Low-Flow
Sample Depth (ft-bmp) (e.g. pump intake)	14
Purge Start	09:58
Water Quality Meter Make/Model	Horiba

Reading Time	10:00
Rate (mL/min)	300
Depth to Water (ft)	11.65
pH	6.98
Conductivity (mS/cm)	1.03
Turbidity (NTU)	0
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	9.46
Redox (ORP mV)	-100

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	10:03
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	11.65
pH	6.97
Conductivity (mS/cm)	1.03

Turbidity (NTU)	0
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	9.34
Redox (ORP mV)	-101

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	10:06
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	11.65
pH	6.97
Conductivity (mS/cm)	1.03
Turbidity (NTU)	0
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	9.28
Redox (ORP mV)	-103

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	10:09
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	11.65
pH	6.97
Conductivity (mS/cm)	1.03
Turbidity (NTU)	0
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	9.33
Redox (ORP mV)	-102

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Purge End	10:15
Measurement Units	Gallons

Sample Information

Sample Time	10:20
Samples Collected	GRO AK 101, DRO AK 102, DRO AK 102 w/SGC, RRO AK 103, BTEX 8260B

211081, G-4, 2019-07-10

Created	2019-07-10 16:40:08 UTC by Evan Wujcik
Updated	2019-07-17 18:08:51 UTC by Bo Jessup
Location	64.8488782487, -147.830368951
Site ID	211081
Site ID Link	211081
Site Location	4103 Geist Road, Fairbanks, AK 99709
Project Number	DEMAK000.1081
Regulatory Site ID	100.26.023
Date	2019-07-10
Weather	Cloudy
Well ID	G-4
Sampler Name	Evan Wujcik

Evacuation Details

Well Head PID reading (ppm)	1.1
Well Casing Material	PVC
Static Water Level (ft-bmp)	13.76
Total Depth (ft-bmp)	16
Water Column	2.24
Purge Method	Low-Flow
Type of Equipment used	Bladder
Sample Method	Low-Flow
Sample Depth (ft-bmp) (e.g. pump intake)	15
Purge Start	11:55
Water Quality Meter Make/Model	Horiba

Reading Time	12:00
Rate (mL/min)	50
Depth to Water (ft)	13.76
pH	6.98
Conductivity (mS/cm)	0.965
Turbidity (NTU)	0
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	19.64
Redox (ORP mV)	-114

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	12:03
Minutes Elapsed between readings	3
Rate (mL/min)	50
Depth to Water (ft)	13.76
pH	7
Conductivity (mS/cm)	0.961

Turbidity (NTU)	0
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	19.65
Redox (ORP mV)	-115

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	12:06
Minutes Elapsed between readings	3
Rate (mL/min)	50
Depth to Water (ft)	13.76
pH	7.02
Conductivity (mS/cm)	0.953
Turbidity (NTU)	0
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	19.49
Redox (ORP mV)	-117

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	12:09
Minutes Elapsed between readings	3
Rate (mL/min)	50
Depth to Water (ft)	13.76
pH	7.03
Conductivity (mS/cm)	0.952
Turbidity (NTU)	0
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	19.4
Redox (ORP mV)	-118

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Purge End	12:16
Measurement Units	Gallons

Sample Information

Sample Time	12:20
Samples Collected	GRO AK 101, DRO AK 102, DRO AK 102 w/SGC, RRO AK 103, BTEX 8260B
Comments	Well casing damaged near the ground surface. Depth to water may not be accurate. Groundwater elevation data should not be used in groundwater contouring. Well could not be sampled with the 1.75" diameter bladder pump as the pump could not fit down the well due to the damaged casing. Well was sampled via 0.75 diameter low flow bladder pump per ADEC (S. Tisdell) recommendation.

211081, G-5, 2019-07-10

Created	2019-07-10 21:18:44 UTC by Evan Wujcik
Updated	2019-07-17 18:01:29 UTC by Bo Jessup
Location	64.8488395662, -147.829661938
Site ID	211081
Site ID Link	211081
Site Location	4103 Geist Road, Fairbanks, AK 99709
Project Number	DEMAK000.1081
Regulatory Site ID	100.26.023
Date	2019-07-10
Weather	Cloudy
Well ID	G-5
Sampler Name	Evan Wujcik

Evacuation Details

Well Head PID reading (ppm)	0
Well Casing Material	PVC
Static Water Level (ft-bmp)	12.22
Total Depth (ft-bmp)	18.7
Water Column	6.48
Purge Method	Low-Flow
Type of Equipment used	Bladder
Sample Method	Low-Flow
Sample Depth (ft-bmp) (e.g. pump intake)	15
Purge Start	13:19
Water Quality Meter Make/Model	Horiba

Reading Time	13:19
Rate (mL/min)	300
Depth to Water (ft)	12.22
pH	7.22
Conductivity (mS/cm)	0.634
Turbidity (NTU)	0
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	8.51
Redox (ORP mV)	-100

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	13:22
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	12.22
pH	7.21
Conductivity (mS/cm)	0.631

Turbidity (NTU)	0
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	8.44
Redox (ORP mV)	-101

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	13:25
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	12.22
pH	7.21
Conductivity (mS/cm)	0.63
Turbidity (NTU)	0
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	8.42
Redox (ORP mV)	-102

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	13:28
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	12.22
pH	7.2
Conductivity (mS/cm)	0.63
Turbidity (NTU)	0
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	8.4
Redox (ORP mV)	-102

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Purge End	13:35
Measurement Units	Gallons

Sample Information

Sample Time	13:45
Samples Collected	GRO AK 101, DRO AK 102, DRO AK 102 w/SGC, RRO AK 103, BTEX 8260B

211081, G-7, 2019-07-10

Created	2019-07-10 16:06:06 UTC by Evan Wujcik
Updated	2019-07-17 18:09:39 UTC by Bo Jessup
Location	64.8488857505, -147.830515718
Site ID	211081
Site ID Link	211081
Site Location	4103 Geist Road, Fairbanks, AK 99709
Project Number	DEMAK000.1081
Regulatory Site ID	100.26.023
Date	2019-07-10
Weather	Cloudy
Well ID	G-7
Sampler Name	Evan Wujcik

Evacuation Details

Well Head PID reading (ppm)	0
Well Casing Material	PVC
Static Water Level (ft-bmp)	13.54
Total Depth (ft-bmp)	18
Water Column	4.46
Purge Method	Low-Flow
Type of Equipment used	Bladder
Sample Method	Low-Flow
Sample Depth (ft-bmp) (e.g. pump intake)	15
Purge Start	08:06
Water Quality Meter Make/Model	Horiba

Reading Time	08:08
Rate (mL/min)	300
Depth to Water (ft)	13.5
pH	6.87
Conductivity (mS/cm)	1.11
Turbidity (NTU)	0
Dissolved Oxygen (mg/L)	2.13
Temperature (Degrees Celcius)	8.28
Redox (ORP mV)	83

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	08:11
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	13.5
pH	6.87
Conductivity (mS/cm)	1.12

Turbidity (NTU)	0
Dissolved Oxygen (mg/L)	2.04
Temperature (Degrees Celcius)	8.2
Redox (ORP mV)	75

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	08:14
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	13.5
pH	6.86
Conductivity (mS/cm)	1.12
Turbidity (NTU)	0
Dissolved Oxygen (mg/L)	1.87
Temperature (Degrees Celcius)	8.16
Redox (ORP mV)	67

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	08:17
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	13.5
pH	6.86
Conductivity (mS/cm)	1.12
Turbidity (NTU)	0
Dissolved Oxygen (mg/L)	1.87
Temperature (Degrees Celcius)	8.09
Redox (ORP mV)	59

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Purge End	08:20
Measurement Units	Gallons

Sample Information

Sample Time	08:30
Samples Collected	DRO AK 102, GRO AK 101, BTEX 8260B, DRO AK 102 w/SGC, RRO AK 103

211081, G-8, 2019-07-10

Created	2019-07-10 16:38:32 UTC by Evan Wujcik
Updated	2019-07-17 18:10:02 UTC by Bo Jessup
Location	64.8487468204, -147.830454027
Site ID	211081
Site ID Link	211081
Site Location	4103 Geist Road, Fairbanks, AK 99709
Project Number	DEMAK000.1081
Regulatory Site ID	100.26.023
Date	2019-07-10
Weather	Cloudy
Well ID	G-8
Sampler Name	Evan Wujcik

Evacuation Details

Well Head PID reading (ppm)	0
Well Casing Material	PVC
Static Water Level (ft-bmp)	12.95
Total Depth (ft-bmp)	19.9
Water Column	6.95
Purge Method	Low-Flow
Type of Equipment used	Bladder
Sample Method	Low-Flow
Sample Depth (ft-bmp) (e.g. pump intake)	15
Purge Start	09:00
Water Quality Meter Make/Model	Horiba

Reading Time	09:05
Rate (mL/min)	300
Depth to Water (ft)	12.9
pH	6.92
Conductivity (mS/cm)	1.28
Turbidity (NTU)	67.3
Dissolved Oxygen (mg/L)	2.99
Temperature (Degrees Celcius)	7.8
Redox (ORP mV)	76

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	09:08
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	12.9
pH	6.93
Conductivity (mS/cm)	1.28

Turbidity (NTU)	40.7
Dissolved Oxygen (mg/L)	2.81
Temperature (Degrees Celcius)	7.72
Redox (ORP mV)	77

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	09:11
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	12.9
pH	6.92
Conductivity (mS/cm)	1.28
Turbidity (NTU)	17.7
Dissolved Oxygen (mg/L)	2.69
Temperature (Degrees Celcius)	7.69
Redox (ORP mV)	78

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	09:14
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	12.9
pH	6.92
Conductivity (mS/cm)	1.28
Turbidity (NTU)	4.3
Dissolved Oxygen (mg/L)	2.55
Temperature (Degrees Celcius)	7.65
Redox (ORP mV)	79

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Purge End	09:15
Measurement Units	Gallons

Sample Information

Sample Time	09:20
Samples Collected	GRO AK 101, DRO AK 102, DRO AK 102 w/SGC, RRO AK 103, BTEX 8260B

211081, MW-301D, 2019-07-10

Created	2019-07-10 22:08:16 UTC by Evan Wujcik
Updated	2019-07-17 18:07:32 UTC by Bo Jessup
Location	64.8495068076, -147.831062051
Site ID	211081
Site ID Link	211081
Site Location	4103 Geist Road, Fairbanks, AK 99709
Project Number	DEMAK000.1081
Regulatory Site ID	100.26.023
Date	2019-07-10
Weather	Cloudy
Well ID	MW-301D
Sampler Name	Evan Wujcik
Replicate No. (e.g. Dup)	BD-1-W-190710

Evacuation Details

Well Head PID reading (ppm)	0
Well Casing Material	PVC
Static Water Level (ft-bmp)	14.72
Total Depth (ft-bmp)	62.1
Water Column	47.38
Purge Method	Low-Flow
Type of Equipment used	Bladder
Sample Method	Low-Flow
Sample Depth (ft-bmp) (e.g. pump intake)	56
Purge Start	14:09
Water Quality Meter Make/Model	Horiba

Reading Time	14:10
Rate (mL/min)	300
Depth to Water (ft)	14.7
pH	7.25
Conductivity (mS/cm)	0.547
Turbidity (NTU)	237
Dissolved Oxygen (mg/L)	0.72
Temperature (Degrees Celcius)	17.8
Redox (ORP mV)	-97

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	14:13
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	14.7
pH	7.25

Conductivity (mS/cm)	0.527
Turbidity (NTU)	218
Dissolved Oxygen (mg/L)	0.01
Temperature (Degrees Celcius)	17.89
Redox (ORP mV)	-95

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	14:16
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	14.7
pH	7.23
Conductivity (mS/cm)	0.526
Turbidity (NTU)	187
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	17.81
Redox (ORP mV)	-97

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	14:19
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	14.7
pH	7.22
Conductivity (mS/cm)	0.536
Turbidity (NTU)	187
Dissolved Oxygen (mg/L)	0
Temperature (Degrees Celcius)	17.77
Redox (ORP mV)	-99

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Purge End	14:25
Measurement Units	Gallons

Sample Information

Sample Time	14:30
Samples Collected	GRO AK 101, BTEX 8260B

211081, MW-304D, 2019-07-10

Created	2019-07-10 22:50:20 UTC by Evan Wujcik
Updated	2019-07-17 18:02:13 UTC by Bo Jessup
Location	64.8506459082, -147.830400467
Site ID	211081
Site ID Link	211081
Site Location	4103 Geist Road, Fairbanks, AK 99709
Project Number	DEMAK000.1081
Regulatory Site ID	100.26.023
Date	2019-07-10
Weather	Clear
Well ID	MW-304D
Sampler Name	Evan Wujcik

Evacuation Details

Well Head PID reading (ppm)	0
Well Casing Material	PVC
Static Water Level (ft-bmp)	16.71
Total Depth (ft-bmp)	59.1
Water Column	42.39
Purge Method	Low-Flow
Type of Equipment used	Bladder
Sample Method	Low-Flow
Sample Depth (ft-bmp) (e.g. pump intake)	55
Purge Start	14:52
Water Quality Meter Make/Model	Horiba

Reading Time	14:53
Rate (mL/min)	300
Depth to Water (ft)	14.7
pH	7.24
Conductivity (mS/cm)	0.573
Turbidity (NTU)	19
Dissolved Oxygen (mg/L)	0.43
Temperature (Degrees Celcius)	16.56
Redox (ORP mV)	-59

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	14:56
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	14.7
pH	7.29
Conductivity (mS/cm)	0.581

Turbidity (NTU)	14.9
Temperature (Degrees Celcius)	15.63
Redox (ORP mV)	-72

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	14:59
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	14.7
pH	7.17
Conductivity (mS/cm)	0.592
Turbidity (NTU)	5.4
Temperature (Degrees Celcius)	15.46
Redox (ORP mV)	-79

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	15:02
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	14.7
pH	7.16
Conductivity (mS/cm)	0.594
Turbidity (NTU)	4.4
Temperature (Degrees Celcius)	15.37
Redox (ORP mV)	-81

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	15:05
Minutes Elapsed between readings	3
Rate (mL/min)	300
Depth to Water (ft)	14.7
pH	7.15
Conductivity (mS/cm)	0.601
Turbidity (NTU)	6.4
Temperature (Degrees Celcius)	15.15
Redox (ORP mV)	-86

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Reading Time	15:08
Minutes Elapsed between readings	3

Rate (mL/min)	300
Depth to Water (ft)	14.7
pH	7.16
Conductivity (mS/cm)	0.602
Turbidity (NTU)	6.1
Temperature (Degrees Celcius)	15.1
Redox (ORP mV)	-89

Well is considered stabilized and ready for sample collection when the following is met for three consecutive readings collected at 3 to 5 minute intervals: -turbidity remains within 10% (or within 1 NTU if turbidity is <10NTU) -specific conductance and temp remain within 3% - ORP within + or - 10 mV -DO within 10% -pH within 0.1 unit

Sample Information

Sample Time	15:15
Color	Clear
Notable odors	None
Samples Collected	GRO AK 101, BTEX 8260B
Comments	MS & MED samples collected from MW-304 D

70's C6ndy

Daily Log

Former Chevron Facility

Project Name Geist RL Project Number 211081 Page 1 of

Site Location 4103 Geist RL, Fairbanks, AK Date 7.25.19

Field Personnel David Brundage (Arcadis) James Hall & Austyn Bilyea (McLan)
2019 MW Resurvey

Time	Description of Activities
0745	Arrive on site
	Conduct H3S Tailgate Meeting
	Review HASP
	Complete PTV Tailgate Form
	Contact Arcadis PM to open PTV
	Review JSAs
	McLan Setup Base
	Arcadis Begin Opening wells w/ McLan
	collecting GPS Northing & Easting Data
	MW-207 could not be located - presumed abandoned
	MW-211 could not be located - presumed abandoned
	MW-302 S & D could not be located - presumed abandoned
	MW-212 could not be located presumed abandoned
	MW-303 S & D - found pieces of well casing and procover - presumed destroyed
	MW-305 - Rebar by construction crews during CD could not open Fairbanks St. Extension RL work
0950	Complete GPS data collection
	Begin Elevation Data Collection

Daily Log

 Project Name Geist Project Number 211021 Page 2 of 2

 Site Location 4103 Geist Rd., Fairbanks, AK Date 2.25.19

 Field Personnel D. Beaudin (Arcadis) J. Hall & A. Bilyea (McLane)
2019 MW Resurvey

Time	Description of Activities
1000	Arcadis Gauging MW depth to water & well Total Depth
	Well ID Depth to Water Total Depth
	G-1R 12.35' 17.80'
	G-3 11.36' 18.85'
	G-4 13.45' 16.22'
	G-5 11.91' 18.85'
	G-7 13.25' 18.00'
	G-8 12.65' 19.95'
	G-9 12.27' 19.14'
	MW-301S 14.13' 19.00'
	MW-301D 14.47 14.49' 62.34'
	MW-304S 16.13' 21.18'
	MW-304D 16.45' 60.18'
	*MW-306 10.81' 14.07'
	MW-307 Obstructed @ 14.40' —
	↳ could be ice.
	Note: *MW-306 - difficulty encountered while gauging well due to bentonite inside the well casing mud would accumulate on tip of probe during placement of probe down well @ ~9' below.
1230	Mobilize off site
	151

APPENDIX C

Laboratory Analytical Results



ANALYTICAL REPORT

Job Number: 580-87636-1

Job Description: Chevron Site ID 211081, Fairbanks, AK

For:

ARCADIS U.S. Inc
111 SW Columbia Street
Suite 670
Portland, OR 97201

Attention: Ms. Nicole Monroe



Approved for release.
Kristine D Allen
Manager of Project Management
7/31/2019 1:43 PM

Designee for
Elaine M Walker, Project Manager II
5755 8th Street East, Tacoma, WA, 98424
(253)248-4972
elaine.walker@testamericainc.com
07/31/2019

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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.

Eurofins TestAmerica, Seattle

5755 8th Street East, Tacoma, WA 98424

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery 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.

GC VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	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 ID 211081, Fairbanks, AK
Report Number: 580-87636-1

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

The samples were received on 07/12/2019; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.1 C.

The Chain of Custody (COC) lists that 10 containers were submitted for the following samples G-7-W-190710 (580-87636-1), G-8-W-190710 (580-87636-2), EQB-1-W-190710 (580-87636-3), G-3-W-190710 (580-87636-4), G1-R-W-190710 (580-87636-5), G-4-W-190710 (580-87636-6) and G-5-W-190710 (580-87636-7) however only 8 containers were provided. 6 vials and 2-250ml HCL amber jars.

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 G-7-W-190710 (580-87636-1), G-8-W-190710 (580-87636-2), EQB-1-W-190710 (580-87636-3), G-3-W-190710 (580-87636-4), G1-R-W-190710 (580-87636-5), G-4-W-190710 (580-87636-6), G-5-W-190710 (580-87636-7), MW-301D-W-190710 (580-87636-8), MW-304D-W-190710 (580-87636-9), BD-1-W-190710 (580-87636-10) and TRIP BLANK (580-87636-11) were analyzed for volatile organic compounds (GC-MS) in accordance with 8260C. The samples were analyzed on 07/15/2019, 07/17/2019, 07/18/2019 and 07/19/2019.

Samples G-3-W-190710 (580-87636-4)[10X], G-4-W-190710 (580-87636-6)[10X], G-4-W-190710 (580-87636-6)[50X], G-5-W-190710 (580-87636-7)[100X] and G-5-W-190710 (580-87636-7)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes failed the recovery criteria low for the MS/MSD of sample MW-304D-W-190710 (580-87636-9) in batch 580-305938. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GASOLINE RANGE ORGANICS

Samples G-7-W-190710 (580-87636-1), G-8-W-190710 (580-87636-2), EQB-1-W-190710 (580-87636-3), G-3-W-190710 (580-87636-4), G1-R-W-190710 (580-87636-5), G-4-W-190710 (580-87636-6), G-5-W-190710 (580-87636-7), MW-301D-W-190710 (580-87636-8), MW-304D-W-190710 (580-87636-9), BD-1-W-190710 (580-87636-10) and TRIP BLANK (580-87636-11) were analyzed for gasoline range organics in accordance with State of Alaska Method AK101. The samples were analyzed on 07/15/2019, 07/23/2019, 07/25/2019 and 07/26/2019.

Sample G-5-W-190710 (580-87636-7)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Gasoline Range Organics (GRO)-C6-C10 failed the recovery criteria low for the MSD of sample MW-304D-W-190710MSD (580-87636-9) in batch 580-306683. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. In addition, Gasoline Range Organics (GRO)-C6-C10 exceeded the RPD limit.

4-Bromofluorobenzene (Surr) failed the surrogate recovery criteria high for G-5-W-190710 (580-87636-7). Evidence of matrix

interference is present; therefore, re-extraction and/or re-analysis was not performed. The samples was re-analyzed outside of holding time. Both sets of data are reported.

The following samples were analyzed outside of analytical holding time due to multiple instrument malfunctions: G-7-W-190710 (580-87636-1), G-8-W-190710 (580-87636-2), EQB-1-W-190710 (580-87636-3), G-3-W-190710 (580-87636-4), G1-R-W-190710 (580-87636-5), G-4-W-190710 (580-87636-6), G-5-W-190710 (580-87636-7), MW-301D-W-190710 (580-87636-8), MW-304D-W-190710 (580-87636-9), MW-304D-W-190710 (580-87636-9[MS]), MW-304D-W-190710 (580-87636-9[MSD]) and BD-1-W-190710 (580-87636-10).

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 G-7-W-190710 (580-87636-1), G-8-W-190710 (580-87636-2), EQB-1-W-190710 (580-87636-3), G-3-W-190710 (580-87636-4), G1-R-W-190710 (580-87636-5), G-4-W-190710 (580-87636-6) and G-5-W-190710 (580-87636-7) were analyzed for diesel and residual range organics in accordance with State of Alaska Method AK102 and AK103. The samples were prepared on 07/23/2019 and analyzed on 07/24/2019 and 07/25/2019.

The following samples were re-analyzed due to failing quality control parameters in the initial analysis for RRO (nC25-nC36): G-7-W-190710 (580-87636-1), G-8-W-190710 (580-87636-2), EQB-1-W-190710 (580-87636-3), G-3-W-190710 (580-87636-4), G1-R-W-190710 (580-87636-5), G-4-W-190710 (580-87636-6), G-5-W-190710 (580-87636-7), (LCS 580-306395/2-A), (LCSD 580-306395/3-A) and (MB 580-306395/1-A)

No 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 ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Client Sample ID: G-7-W-190710

Lab Sample ID: 580-87636-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.5		3.0	0.53	ug/L	1		8260C	Total/NA
Ethylbenzene	2.6	J	3.0	0.50	ug/L	1		8260C	Total/NA
DRO (nC10-<nC25)	0.34		0.11	0.078	mg/L	1		AK102 & 103	Total/NA
RRO (nC25-nC36) - RA	0.37		0.26	0.068	mg/L	1		AK102 & 103	Total/NA

Client Sample ID: G-8-W-190710

Lab Sample ID: 580-87636-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	0.58		0.11	0.076	mg/L	1		AK102 & 103	Total/NA
RRO (nC25-nC36) - RA	0.69		0.25	0.067	mg/L	1		AK102 & 103	Total/NA

Client Sample ID: EQB-1-W-190710

Lab Sample ID: 580-87636-3

No Detections.

Client Sample ID: G-3-W-190710

Lab Sample ID: 580-87636-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	80		2.0	0.39	ug/L	1		8260C	Total/NA
o-Xylene	42		2.0	0.39	ug/L	1		8260C	Total/NA
Benzene - DL	680		30	5.3	ug/L	10		8260C	Total/NA
Ethylbenzene - DL	470		30	5.0	ug/L	10		8260C	Total/NA
m-Xylene & p-Xylene - DL	850		30	7.5	ug/L	10		8260C	Total/NA
Gasoline Range Organics (GRO) -C6-C10	4.5	H	0.25	0.10	mg/L	1		AK101	Total/NA
DRO (nC10-<nC25)	2.4		0.11	0.076	mg/L	1		AK102 & 103	Total/NA
RRO (nC25-nC36) - RA	0.77		0.25	0.067	mg/L	1		AK102 & 103	Total/NA
DRO (nC10-<nC25)	0.85		0.11	0.076	mg/L	1		AK102/103	Total/NA

Client Sample ID: G1-R-W-190710

Lab Sample ID: 580-87636-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	0.35		0.11	0.078	mg/L	1		AK102 & 103	Total/NA
RRO (nC25-nC36) - RA	0.43		0.26	0.069	mg/L	1		AK102 & 103	Total/NA

Client Sample ID: G-4-W-190710

Lab Sample ID: 580-87636-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	7.5		2.0	0.39	ug/L	1		8260C	Total/NA
o-Xylene	53		2.0	0.39	ug/L	1		8260C	Total/NA
Ethylbenzene - DL	650		30	5.0	ug/L	10		8260C	Total/NA
m-Xylene & p-Xylene - DL	780		30	7.5	ug/L	10		8260C	Total/NA
Benzene - DL2	1800		150	27	ug/L	50		8260C	Total/NA
Gasoline Range Organics (GRO) -C6-C10	3.8	H	0.25	0.10	mg/L	1		AK101	Total/NA
DRO (nC10-<nC25)	1.0		0.12	0.079	mg/L	1		AK102 & 103	Total/NA
RRO (nC25-nC36) - RA	0.51		0.26	0.069	mg/L	1		AK102 & 103	Total/NA
DRO (nC10-<nC25)	0.51		0.12	0.079	mg/L	1		AK102/103	Total/NA

Client Sample ID: G-5-W-190710

Lab Sample ID: 580-87636-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene - DL	100	J	150	27	ug/L	50		8260C	Total/NA
Toluene - DL	240		100	20	ug/L	50		8260C	Total/NA
Ethylbenzene - DL	1300		150	25	ug/L	50		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Client Sample ID: G-5-W-190710 (Continued)

Lab Sample ID: 580-87636-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene - DL	3200		100	20	ug/L	50		8260C	Total/NA
m-Xylene & p-Xylene - DL2	8000		300	75	ug/L	100		8260C	Total/NA
Gasoline Range Organics (GRO) -C6-C10	32	E	0.25	0.10	mg/L	1		AK101	Total/NA
Gasoline Range Organics (GRO) -C6-C10 - DL	27	H	5.0	2.0	mg/L	20		AK101	Total/NA
DRO (nC10-<nC25)	3.5		0.11	0.075	mg/L	1		AK102 & 103	Total/NA
RRO (nC25-nC36) - RA	0.30		0.25	0.066	mg/L	1		AK102 & 103	Total/NA
DRO (nC10-<nC25)	3.0		0.11	0.075	mg/L	1		AK102/103	Total/NA

Client Sample ID: MW-301D-W-190710

Lab Sample ID: 580-87636-8

No Detections.

Client Sample ID: MW-304D-W-190710

Lab Sample ID: 580-87636-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.94	J F1	3.0	0.75	ug/L	1		8260C	Total/NA

Client Sample ID: BD-1-W-190710

Lab Sample ID: 580-87636-10

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 580-87636-11

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Client Sample ID: G-7-W-190710

Lab Sample ID: 580-87636-1

Date Collected: 07/10/19 08:30

Matrix: Water

Date Received: 07/12/19 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.5		3.0	0.53	ug/L			07/17/19 22:23	1
Toluene	ND		2.0	0.39	ug/L			07/17/19 22:23	1
Ethylbenzene	2.6	J	3.0	0.50	ug/L			07/17/19 22:23	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			07/17/19 22:23	1
o-Xylene	ND		2.0	0.39	ug/L			07/17/19 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		07/17/19 22:23	1
Trifluorotoluene (Surr)	100		80 - 120		07/17/19 22:23	1
4-Bromofluorobenzene (Surr)	90		80 - 120		07/17/19 22:23	1
Dibromofluoromethane (Surr)	96		80 - 120		07/17/19 22:23	1
1,2-Dichloroethane-d4 (Surr)	98		80 - 126		07/17/19 22:23	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	H	0.25	0.10	mg/L			07/25/19 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	100		50 - 150		07/25/19 22:33	1
4-Bromofluorobenzene (Surr)	102		50 - 150		07/25/19 22:33	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)	0.34		0.11	0.078	mg/L		07/23/19 12:20	07/25/19 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Triacontane-d62	88		50 - 150	07/23/19 12:20	07/25/19 06:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
RRO (nC25-nC36)	0.37		0.26	0.068	mg/L		07/23/19 12:20	07/25/19 19:40	1

Method: AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.11	0.078	mg/L		07/23/19 12:20	07/24/19 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150	07/23/19 12:20	07/24/19 21:57	1

Client Sample ID: G-8-W-190710

Lab Sample ID: 580-87636-2

Date Collected: 07/10/19 09:20

Matrix: Water

Date Received: 07/12/19 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.0	0.53	ug/L			07/17/19 22:49	1
Toluene	ND		2.0	0.39	ug/L			07/17/19 22:49	1
Ethylbenzene	ND		3.0	0.50	ug/L			07/17/19 22:49	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			07/17/19 22:49	1
o-Xylene	ND		2.0	0.39	ug/L			07/17/19 22:49	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Client Sample ID: G-8-W-190710

Lab Sample ID: 580-87636-2

Date Collected: 07/10/19 09:20

Matrix: Water

Date Received: 07/12/19 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		07/17/19 22:49	1
Trifluorotoluene (Surr)	98		80 - 120		07/17/19 22:49	1
4-Bromofluorobenzene (Surr)	90		80 - 120		07/17/19 22:49	1
Dibromofluoromethane (Surr)	98		80 - 120		07/17/19 22:49	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 126		07/17/19 22:49	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	H	0.25	0.10	mg/L			07/25/19 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	94		50 - 150		07/25/19 20:31	1
4-Bromofluorobenzene (Surr)	101		50 - 150		07/25/19 20:31	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)	0.58		0.11	0.076	mg/L		07/23/19 12:20	07/25/19 06:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Triacontane-d62	95		50 - 150		07/23/19 12:20	07/25/19 06:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
RRO (nC25-nC36)	0.69		0.25	0.067	mg/L		07/23/19 12:20	07/25/19 20:02	1

Method: AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.11	0.076	mg/L		07/23/19 12:20	07/24/19 22:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	95		50 - 150		07/23/19 12:20	07/24/19 22:20

Client Sample ID: EQB-1-W-190710

Lab Sample ID: 580-87636-3

Date Collected: 07/10/19 10:00

Matrix: Water

Date Received: 07/12/19 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.0	0.53	ug/L			07/17/19 23:13	1
Toluene	ND		2.0	0.39	ug/L			07/17/19 23:13	1
Ethylbenzene	ND		3.0	0.50	ug/L			07/17/19 23:13	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			07/17/19 23:13	1
o-Xylene	ND		2.0	0.39	ug/L			07/17/19 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120		07/17/19 23:13	1
Trifluorotoluene (Surr)	99		80 - 120		07/17/19 23:13	1
4-Bromofluorobenzene (Surr)	89		80 - 120		07/17/19 23:13	1
Dibromofluoromethane (Surr)	97		80 - 120		07/17/19 23:13	1
1,2-Dichloroethane-d4 (Surr)	98		80 - 126		07/17/19 23:13	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Client Sample ID: EQB-1-W-190710

Lab Sample ID: 580-87636-3

Date Collected: 07/10/19 10:00

Matrix: Water

Date Received: 07/12/19 10:00

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	H	0.25	0.10	mg/L	-		07/25/19 22:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	101		50 - 150					07/25/19 22:57	1
4-Bromofluorobenzene (Surr)	101		50 - 150					07/25/19 22:57	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		0.11	0.077	mg/L	-	07/23/19 12:20	07/25/19 06:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Triacontane-d62	102		50 - 150				07/23/19 12:20	07/25/19 06:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
RRO (nC25-nC36)	ND		0.26	0.068	mg/L	-	07/23/19 12:20	07/25/19 20:25	1

Method: AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.11	0.077	mg/L	-	07/23/19 12:20	07/24/19 22:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150				07/23/19 12:20	07/24/19 22:42	1

Client Sample ID: G-3-W-190710

Lab Sample ID: 580-87636-4

Date Collected: 07/10/19 10:20

Matrix: Water

Date Received: 07/12/19 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	80		2.0	0.39	ug/L	-		07/17/19 23:38	1
o-Xylene	42		2.0	0.39	ug/L	-		07/17/19 23:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120					07/17/19 23:38	1
Trifluorotoluene (Surr)	97		80 - 120					07/17/19 23:38	1
4-Bromofluorobenzene (Surr)	108		80 - 120					07/17/19 23:38	1
Dibromofluoromethane (Surr)	88		80 - 120					07/17/19 23:38	1
1,2-Dichloroethane-d4 (Surr)	88		80 - 126					07/17/19 23:38	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	680		30	5.3	ug/L	-		07/19/19 16:41	10
Ethylbenzene	470		30	5.0	ug/L	-		07/19/19 16:41	10
m-Xylene & p-Xylene	850		30	7.5	ug/L	-		07/19/19 16:41	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120					07/19/19 16:41	10
Trifluorotoluene (Surr)	96		80 - 120					07/19/19 16:41	10
4-Bromofluorobenzene (Surr)	103		80 - 120					07/19/19 16:41	10
Dibromofluoromethane (Surr)	104		80 - 120					07/19/19 16:41	10

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Client Sample ID: G-3-W-190710

Lab Sample ID: 580-87636-4

Date Collected: 07/10/19 10:20

Matrix: Water

Date Received: 07/12/19 10:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		80 - 126		07/19/19 16:41	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	4.5	H	0.25	0.10	mg/L			07/25/19 23:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	93		50 - 150		07/25/19 23:22	1
4-Bromofluorobenzene (Surr)	126		50 - 150		07/25/19 23:22	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)	2.4		0.11	0.076	mg/L		07/23/19 12:20	07/25/19 07:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Triacontane-d62	90		50 - 150	07/23/19 12:20	07/25/19 07:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
RRO (nC25-nC36)	0.77		0.25	0.067	mg/L		07/23/19 12:20	07/25/19 21:10	1

Method: AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.85		0.11	0.076	mg/L		07/23/19 12:20	07/24/19 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	97		50 - 150	07/23/19 12:20	07/24/19 23:05	1

Client Sample ID: G1-R-W-190710

Lab Sample ID: 580-87636-5

Date Collected: 07/10/19 11:00

Matrix: Water

Date Received: 07/12/19 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.0	0.53	ug/L			07/18/19 00:03	1
Toluene	ND		2.0	0.39	ug/L			07/18/19 00:03	1
Ethylbenzene	ND		3.0	0.50	ug/L			07/18/19 00:03	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			07/18/19 00:03	1
o-Xylene	ND		2.0	0.39	ug/L			07/18/19 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		07/18/19 00:03	1
Trifluorotoluene (Surr)	98		80 - 120		07/18/19 00:03	1
4-Bromofluorobenzene (Surr)	92		80 - 120		07/18/19 00:03	1
Dibromofluoromethane (Surr)	100		80 - 120		07/18/19 00:03	1
1,2-Dichloroethane-d4 (Surr)	98		80 - 126		07/18/19 00:03	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	H	0.25	0.10	mg/L			07/25/19 23:47	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Client Sample ID: G1-R-W-190710

Lab Sample ID: 580-87636-5

Date Collected: 07/10/19 11:00

Matrix: Water

Date Received: 07/12/19 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	97		50 - 150		07/25/19 23:47	1
4-Bromofluorobenzene (Surr)	89		50 - 150		07/25/19 23:47	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		0.11	0.078	mg/L		07/23/19 12:20	07/25/19 07:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Triacontane-d62	94		50 - 150	07/23/19 12:20	07/25/19 07:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
RRO (nC25-nC36)	0.43		0.26	0.069	mg/L		07/23/19 12:20	07/25/19 21:32	1

Method: AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.11	0.078	mg/L		07/23/19 12:20	07/24/19 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	102		50 - 150	07/23/19 12:20	07/24/19 23:27	1

Client Sample ID: G-4-W-190710

Lab Sample ID: 580-87636-6

Date Collected: 07/10/19 12:20

Matrix: Water

Date Received: 07/12/19 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	7.5		2.0	0.39	ug/L			07/18/19 00:29	1
o-Xylene	53		2.0	0.39	ug/L			07/18/19 00:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120		07/18/19 00:29	1
Trifluorotoluene (Surr)	94		80 - 120		07/18/19 00:29	1
4-Bromofluorobenzene (Surr)	107		80 - 120		07/18/19 00:29	1
Dibromofluoromethane (Surr)	87		80 - 120		07/18/19 00:29	1
1,2-Dichloroethane-d4 (Surr)	88		80 - 126		07/18/19 00:29	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	650		30	5.0	ug/L			07/19/19 17:30	10
m-Xylene & p-Xylene	780		30	7.5	ug/L			07/19/19 17:30	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120		07/19/19 17:30	10
Trifluorotoluene (Surr)	95		80 - 120		07/19/19 17:30	10
4-Bromofluorobenzene (Surr)	100		80 - 120		07/19/19 17:30	10
Dibromofluoromethane (Surr)	101		80 - 120		07/19/19 17:30	10
1,2-Dichloroethane-d4 (Surr)	112		80 - 126		07/19/19 17:30	10

Method: 8260C - Volatile Organic Compounds by GC/MS - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1800		150	27	ug/L			07/19/19 17:05	50

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Client Sample ID: G-4-W-190710

Lab Sample ID: 580-87636-6

Date Collected: 07/10/19 12:20

Matrix: Water

Date Received: 07/12/19 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 120		07/19/19 17:05	50
Trifluorotoluene (Surr)	96		80 - 120		07/19/19 17:05	50
4-Bromofluorobenzene (Surr)	104		80 - 120		07/19/19 17:05	50
Dibromofluoromethane (Surr)	100		80 - 120		07/19/19 17:05	50
1,2-Dichloroethane-d4 (Surr)	110		80 - 126		07/19/19 17:05	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	3.8	H	0.25	0.10	mg/L			07/26/19 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	101		50 - 150		07/26/19 00:11	1
4-Bromofluorobenzene (Surr)	120		50 - 150		07/26/19 00:11	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)	1.0		0.12	0.079	mg/L		07/23/19 12:20	07/25/19 07:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Triacontane-d62	97		50 - 150		07/23/19 12:20	07/25/19 07:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
RRO (nC25-nC36)	0.51		0.26	0.069	mg/L		07/23/19 12:20	07/25/19 21:54	1

Method: AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.51		0.12	0.079	mg/L		07/23/19 12:20	07/24/19 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	104		50 - 150		07/23/19 12:20	07/24/19 23:49

Client Sample ID: G-5-W-190710

Lab Sample ID: 580-87636-7

Date Collected: 07/10/19 13:45

Matrix: Water

Date Received: 07/12/19 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	100	J	150	27	ug/L			07/19/19 18:18	50
Toluene	240		100	20	ug/L			07/19/19 18:18	50
Ethylbenzene	1300		150	25	ug/L			07/19/19 18:18	50
o-Xylene	3200		100	20	ug/L			07/19/19 18:18	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 120		07/19/19 18:18	50
Trifluorotoluene (Surr)	100		80 - 120		07/19/19 18:18	50
4-Bromofluorobenzene (Surr)	103		80 - 120		07/19/19 18:18	50
Dibromofluoromethane (Surr)	104		80 - 120		07/19/19 18:18	50
1,2-Dichloroethane-d4 (Surr)	120		80 - 126		07/19/19 18:18	50

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Client Sample ID: G-5-W-190710

Lab Sample ID: 580-87636-7

Date Collected: 07/10/19 13:45

Matrix: Water

Date Received: 07/12/19 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	8000		300	75	ug/L			07/19/19 17:54	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120					07/19/19 17:54	100
Trifluorotoluene (Surr)	97		80 - 120					07/19/19 17:54	100
4-Bromofluorobenzene (Surr)	102		80 - 120					07/19/19 17:54	100
Dibromofluoromethane (Surr)	99		80 - 120					07/19/19 17:54	100
1,2-Dichloroethane-d4 (Surr)	114		80 - 126					07/19/19 17:54	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	32	E	0.25	0.10	mg/L			07/23/19 08:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	92		50 - 150					07/23/19 08:48	1
4-Bromofluorobenzene (Surr)	734	X	50 - 150					07/23/19 08:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	27	H	5.0	2.0	mg/L			07/25/19 20:06	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	95		50 - 150					07/25/19 20:06	20
4-Bromofluorobenzene (Surr)	86		50 - 150					07/25/19 20:06	20

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)	3.5		0.11	0.075	mg/L		07/23/19 12:20	07/25/19 08:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Triacontane-d62	96		50 - 150				07/23/19 12:20	07/25/19 08:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
RRO (nC25-nC36)	0.30		0.25	0.066	mg/L		07/23/19 12:20	07/25/19 22:16	1

Method: AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	3.0		0.11	0.075	mg/L		07/23/19 12:20	07/25/19 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	97		50 - 150				07/23/19 12:20	07/25/19 00:12	1

Client Sample ID: MW-301D-W-190710

Lab Sample ID: 580-87636-8

Date Collected: 07/10/19 14:30

Matrix: Water

Date Received: 07/12/19 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.0	0.53	ug/L			07/18/19 01:19	1
Toluene	ND		2.0	0.39	ug/L			07/18/19 01:19	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Client Sample ID: MW-301D-W-190710

Lab Sample ID: 580-87636-8

Date Collected: 07/10/19 14:30

Matrix: Water

Date Received: 07/12/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		3.0	0.50	ug/L			07/19/19 13:49	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			07/19/19 13:49	1
o-Xylene	ND		2.0	0.39	ug/L			07/19/19 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		07/18/19 01:19	1
Toluene-d8 (Surr)	108		80 - 120		07/19/19 13:49	1
Trifluorotoluene (Surr)	98		80 - 120		07/18/19 01:19	1
Trifluorotoluene (Surr)	97		80 - 120		07/19/19 13:49	1
4-Bromofluorobenzene (Surr)	92		80 - 120		07/18/19 01:19	1
4-Bromofluorobenzene (Surr)	100		80 - 120		07/19/19 13:49	1
Dibromofluoromethane (Surr)	99		80 - 120		07/18/19 01:19	1
Dibromofluoromethane (Surr)	100		80 - 120		07/19/19 13:49	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 126		07/18/19 01:19	1
1,2-Dichloroethane-d4 (Surr)	118		80 - 126		07/19/19 13:49	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	H	0.25	0.10	mg/L			07/26/19 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	93		50 - 150		07/26/19 00:36	1
4-Bromofluorobenzene (Surr)	89		50 - 150		07/26/19 00:36	1

Client Sample ID: MW-304D-W-190710

Lab Sample ID: 580-87636-9

Date Collected: 07/10/19 15:15

Matrix: Water

Date Received: 07/12/19 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	F1	3.0	0.53	ug/L			07/18/19 01:44	1
Toluene	ND	F1	2.0	0.39	ug/L			07/18/19 01:44	1
Ethylbenzene	ND	F1	3.0	0.50	ug/L			07/18/19 01:44	1
m-Xylene & p-Xylene	0.94	J F1	3.0	0.75	ug/L			07/18/19 01:44	1
o-Xylene	ND	F1	2.0	0.39	ug/L			07/18/19 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		07/18/19 01:44	1
Trifluorotoluene (Surr)	99		80 - 120		07/18/19 01:44	1
4-Bromofluorobenzene (Surr)	94		80 - 120		07/18/19 01:44	1
Dibromofluoromethane (Surr)	100		80 - 120		07/18/19 01:44	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 126		07/18/19 01:44	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	H F1 F2	0.25	0.10	mg/L			07/25/19 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	92		50 - 150		07/25/19 20:55	1
4-Bromofluorobenzene (Surr)	84		50 - 150		07/25/19 20:55	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Client Sample ID: BD-1-W-190710

Lab Sample ID: 580-87636-10

Date Collected: 07/10/19 00:01

Matrix: Water

Date Received: 07/12/19 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.0	0.53	ug/L			07/18/19 02:59	1
Toluene	ND		2.0	0.39	ug/L			07/18/19 02:59	1
Ethylbenzene	ND		3.0	0.50	ug/L			07/18/19 02:59	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			07/18/19 02:59	1
o-Xylene	ND		2.0	0.39	ug/L			07/18/19 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		07/18/19 02:59	1
Trifluorotoluene (Surr)	101		80 - 120		07/18/19 02:59	1
4-Bromofluorobenzene (Surr)	94		80 - 120		07/18/19 02:59	1
Dibromofluoromethane (Surr)	98		80 - 120		07/18/19 02:59	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 126		07/18/19 02:59	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	H	0.25	0.10	mg/L			07/26/19 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	94		50 - 150		07/26/19 01:00	1
4-Bromofluorobenzene (Surr)	103		50 - 150		07/26/19 01:00	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 580-87636-11

Date Collected: 07/10/19 00:01

Matrix: Water

Date Received: 07/12/19 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.0	0.53	ug/L			07/15/19 15:52	1
Toluene	ND		2.0	0.39	ug/L			07/15/19 15:52	1
Ethylbenzene	ND		3.0	0.50	ug/L			07/15/19 15:52	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			07/15/19 15:52	1
o-Xylene	ND		2.0	0.39	ug/L			07/15/19 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		07/15/19 15:52	1
Trifluorotoluene (Surr)	102		80 - 120		07/15/19 15:52	1
4-Bromofluorobenzene (Surr)	92		80 - 120		07/15/19 15:52	1
Dibromofluoromethane (Surr)	95		80 - 120		07/15/19 15:52	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 126		07/15/19 15:52	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			07/15/19 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	111		50 - 150		07/15/19 14:26	1
4-Bromofluorobenzene (Surr)	96		50 - 150		07/15/19 14:26	1

Default Detection Limits

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	RL	MDL	Units
Benzene	3.0	0.53	ug/L
Ethylbenzene	3.0	0.50	ug/L
m-Xylene & p-Xylene	3.0	0.75	ug/L
o-Xylene	2.0	0.39	ug/L
Toluene	2.0	0.39	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: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Prep: 3510C

Analyte	RL	MDL	Units
DRO (nC10-<nC25)	0.11	0.075	mg/L
RRO (nC25-nC36)	0.25	0.066	mg/L

Method: AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Prep: 3510C

Analyte	RL	MDL	Units
DRO (nC10-<nC25)	0.11	0.075	mg/L

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)				
		TOL (80-120)	TFT (80-120)	BFB (80-120)	DBFM (80-120)	DCA (80-126)
580-87636-1	G-7-W-190710	102	100	90	96	98
580-87636-2	G-8-W-190710	104	98	90	98	99
580-87636-3	EQB-1-W-190710	106	99	89	97	98
580-87636-4	G-3-W-190710	103	97	108	88	88
580-87636-4 - DL	G-3-W-190710	107	96	103	104	110
580-87636-5	G1-R-W-190710	104	98	92	100	98
580-87636-6	G-4-W-190710	107	94	107	87	88
580-87636-6 - DL2	G-4-W-190710	108	96	104	100	110
580-87636-6 - DL	G-4-W-190710	107	95	100	101	112
580-87636-7 - DL2	G-5-W-190710	107	97	102	99	114
580-87636-7 - DL	G-5-W-190710	108	100	103	104	120
580-87636-8	MW-301D-W-190710	105	98	92	99	102
580-87636-8	MW-301D-W-190710	108	97	100	100	118
580-87636-9	MW-304D-W-190710	104	99	94	100	99
580-87636-9 MS	MW-304D-W-190710	105	100	95	100	100
580-87636-9 MSD	MW-304D-W-190710	104	100	95	99	99
580-87636-10	BD-1-W-190710	105	101	94	98	99
580-87636-11	TRIP BLANK	103	102	92	95	99
LCS 580-305636/4	Lab Control Sample	102	101	96	97	99
LCS 580-305938/4	Lab Control Sample	102	100	94	100	96
LCS 580-306136/4	Lab Control Sample	106	96	101	103	106
LCSD 580-305636/5	Lab Control Sample Dup	104	101	98	101	99
LCSD 580-305938/5	Lab Control Sample Dup	104	100	93	100	97
LCSD 580-306136/5	Lab Control Sample Dup	101	95	94	101	107
MB 580-305636/7	Method Blank	103	102	92	95	98
MB 580-305938/7	Method Blank	103	99	90	96	99
MB 580-306136/7	Method Blank	110	99	97	103	111

Surrogate Legend

- TOL = Toluene-d8 (Surr)
- TFT = Trifluorotoluene (Surr)
- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)
- DCA = 1,2-Dichloroethane-d4 (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)
580-87636-1	G-7-W-190710	100	102
580-87636-2	G-8-W-190710	94	101
580-87636-3	EQB-1-W-190710	101	101
580-87636-4	G-3-W-190710	93	126
580-87636-5	G1-R-W-190710	97	89
580-87636-6	G-4-W-190710	101	120
580-87636-7 - DL	G-5-W-190710	95	86
580-87636-8	MW-301D-W-190710	93	89
580-87636-9	MW-304D-W-190710	92	84

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

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)	
		TFT2 (50-150)	BFB2 (50-150)
580-87636-9 MS	MW-304D-W-190710	95	94
580-87636-9 MSD	MW-304D-W-190710	76	101
580-87636-10	BD-1-W-190710	94	103
580-87636-11	TRIP BLANK	111	96
LCS 580-305675/6	Lab Control Sample	112	104
LCS 580-306683/6	Lab Control Sample	101	101
LCSD 580-305675/7	Lab Control Sample Dup	111	107
LCSD 580-306683/7	Lab Control Sample Dup	105	104
MB 580-305675/5	Method Blank	123	97
MB 580-306683/5	Method Blank	52	102

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)	
		TFT1 (50-150)	BFB1 (50-150)
580-87636-7	G-5-W-190710	92	734 X
LCS 580-306362/5	Lab Control Sample	98	100
LCSD 580-306362/6	Lab Control Sample Dup	102	99
MB 580-306362/4	Method Blank	87	92

Surrogate Legend

TFT = Trifluorotoluene (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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)
		NTC (50-150)
580-87636-1	G-7-W-190710	88
580-87636-2	G-8-W-190710	95
580-87636-3	EQB-1-W-190710	102
580-87636-4	G-3-W-190710	90
580-87636-5	G1-R-W-190710	94
580-87636-6	G-4-W-190710	97
580-87636-7	G-5-W-190710	96
LCS 580-306395/2-A	Lab Control Sample	99
LCSD 580-306395/3-A	Lab Control Sample Dup	96
MB 580-306395/1-A	Method Blank	106

Surrogate Legend

NTC = n-Triacontane-d62

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Method: AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up
Matrix: Water **Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH (50-150)
580-87636-1	G-7-W-190710	85
580-87636-2	G-8-W-190710	95
580-87636-3	EQB-1-W-190710	90
580-87636-4	G-3-W-190710	97
580-87636-5	G1-R-W-190710	102
580-87636-6	G-4-W-190710	104
580-87636-7	G-5-W-190710	97
LCS 580-306395/2-B	Lab Control Sample	97
LCSD 580-306395/3-B	Lab Control Sample Dup	88
MB 580-306395/1-B	Method Blank	89

Surrogate Legend

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-305636/7

Matrix: Water

Analysis Batch: 305636

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.0	0.53	ug/L			07/15/19 14:47	1
Toluene	ND		2.0	0.39	ug/L			07/15/19 14:47	1
Ethylbenzene	ND		3.0	0.50	ug/L			07/15/19 14:47	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			07/15/19 14:47	1
o-Xylene	ND		2.0	0.39	ug/L			07/15/19 14:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		07/15/19 14:47	1
Trifluorotoluene (Surr)	102		80 - 120		07/15/19 14:47	1
4-Bromofluorobenzene (Surr)	92		80 - 120		07/15/19 14:47	1
Dibromofluoromethane (Surr)	95		80 - 120		07/15/19 14:47	1
1,2-Dichloroethane-d4 (Surr)	98		80 - 126		07/15/19 14:47	1

Lab Sample ID: LCS 580-305636/4

Matrix: Water

Analysis Batch: 305636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	9.47		ug/L		95	75 - 121
Toluene	10.0	8.92		ug/L		89	80 - 120
Ethylbenzene	10.0	9.22		ug/L		92	80 - 120
m-Xylene & p-Xylene	10.0	9.04		ug/L		90	80 - 120
o-Xylene	10.0	9.92		ug/L		99	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	102		80 - 120
Trifluorotoluene (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120
1,2-Dichloroethane-d4 (Surr)	99		80 - 126

Lab Sample ID: LCSD 580-305636/5

Matrix: Water

Analysis Batch: 305636

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
Benzene	10.0	9.65		ug/L		97	75 - 121	2	14
Toluene	10.0	9.04		ug/L		90	80 - 120	1	19
Ethylbenzene	10.0	9.39		ug/L		94	80 - 120	2	14
m-Xylene & p-Xylene	10.0	9.30		ug/L		93	80 - 120	3	14
o-Xylene	10.0	10.1		ug/L		101	80 - 120	2	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	104		80 - 120
Trifluorotoluene (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

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

Lab Sample ID: LCSD 580-305636/5
Matrix: Water
Analysis Batch: 305636

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

Surrogate	LCS D %Recovery	LCS D Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		80 - 126

Lab Sample ID: MB 580-305938/7
Matrix: Water
Analysis Batch: 305938

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.0	0.53	ug/L			07/17/19 19:52	1
Toluene	ND		2.0	0.39	ug/L			07/17/19 19:52	1
Ethylbenzene	ND		3.0	0.50	ug/L			07/17/19 19:52	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			07/17/19 19:52	1
o-Xylene	ND		2.0	0.39	ug/L			07/17/19 19:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		07/17/19 19:52	1
Trifluorotoluene (Surr)	99		80 - 120		07/17/19 19:52	1
4-Bromofluorobenzene (Surr)	90		80 - 120		07/17/19 19:52	1
Dibromofluoromethane (Surr)	96		80 - 120		07/17/19 19:52	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 126		07/17/19 19:52	1

Lab Sample ID: LCS 580-305938/4
Matrix: Water
Analysis Batch: 305938

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	9.96		ug/L		100	75 - 121
Toluene	10.0	9.21		ug/L		92	80 - 120
Ethylbenzene	10.0	9.34		ug/L		93	80 - 120
m-Xylene & p-Xylene	10.0	9.15		ug/L		91	80 - 120
o-Xylene	10.0	10.1		ug/L		101	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	102		80 - 120
Trifluorotoluene (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	96		80 - 126

Lab Sample ID: LCSD 580-305938/5
Matrix: Water
Analysis Batch: 305938

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
Benzene	10.0	9.82		ug/L		98	75 - 121	1	14
Toluene	10.0	9.20		ug/L		92	80 - 120	0	19
Ethylbenzene	10.0	9.29		ug/L		93	80 - 120	1	14
m-Xylene & p-Xylene	10.0	9.17		ug/L		92	80 - 120	0	14
o-Xylene	10.0	9.90		ug/L		99	80 - 120	2	16

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

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

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	104		80 - 120
Trifluorotoluene (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	97		80 - 126

Lab Sample ID: 580-87636-9 MS
Matrix: Water
Analysis Batch: 305938

Client Sample ID: MW-304D-W-190710
Prep Type: Total/NA

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Benzene	ND	F1	10.0	5.50	F1	ug/L		55	75 - 121
Toluene	ND	F1	10.0	4.68	F1	ug/L		47	80 - 120
Ethylbenzene	ND	F1	10.0	4.42	F1	ug/L		44	80 - 120
m-Xylene & p-Xylene	0.94	J F1	10.0	4.83	F1	ug/L		39	80 - 120
o-Xylene	ND	F1	10.0	4.70	F1	ug/L		47	80 - 120

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	105		80 - 120
Trifluorotoluene (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		80 - 126

Lab Sample ID: 580-87636-9 MSD
Matrix: Water
Analysis Batch: 305938

Client Sample ID: MW-304D-W-190710
Prep Type: Total/NA

Analyte	Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
Benzene	ND	F1	10.0	5.79	F1	ug/L		58	75 - 121	5	14
Toluene	ND	F1	10.0	4.73	F1	ug/L		47	80 - 120	1	19
Ethylbenzene	ND	F1	10.0	4.40	F1	ug/L		44	80 - 120	1	14
m-Xylene & p-Xylene	0.94	J F1	10.0	4.50	F1	ug/L		36	80 - 120	7	14
o-Xylene	ND	F1	10.0	4.79	F1	ug/L		48	80 - 120	2	16

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	104		80 - 120
Trifluorotoluene (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	99		80 - 126

Lab Sample ID: MB 580-306136/7
Matrix: Water
Analysis Batch: 306136

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		3.0	0.53	ug/L			07/19/19 13:00	1
Toluene	ND		2.0	0.39	ug/L			07/19/19 13:00	1
Ethylbenzene	ND		3.0	0.50	ug/L			07/19/19 13:00	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			07/19/19 13:00	1

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

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

Lab Sample ID: MB 580-306136/7
Matrix: Water
Analysis Batch: 306136

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.39	ug/L			07/19/19 13:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	110		80 - 120		07/19/19 13:00	1
Trifluorotoluene (Surr)	99		80 - 120		07/19/19 13:00	1
4-Bromofluorobenzene (Surr)	97		80 - 120		07/19/19 13:00	1
Dibromofluoromethane (Surr)	103		80 - 120		07/19/19 13:00	1
1,2-Dichloroethane-d4 (Surr)	111		80 - 126		07/19/19 13:00	1

Lab Sample ID: LCS 580-306136/4
Matrix: Water
Analysis Batch: 306136

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	9.29		ug/L		93	75 - 121
Toluene	10.0	11.0		ug/L		110	80 - 120
Ethylbenzene	10.0	10.8		ug/L		108	80 - 120
m-Xylene & p-Xylene	10.0	11.1		ug/L		111	80 - 120
o-Xylene	10.0	11.3		ug/L		113	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	106		80 - 120
Trifluorotoluene (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	106		80 - 126

Lab Sample ID: LCSD 580-306136/5
Matrix: Water
Analysis Batch: 306136

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
Benzene	10.0	9.27		ug/L		93	75 - 121	0	14
Toluene	10.0	9.98		ug/L		100	80 - 120	10	19
Ethylbenzene	10.0	9.98		ug/L		100	80 - 120	7	14
m-Xylene & p-Xylene	10.0	10.1		ug/L		101	80 - 120	10	14
o-Xylene	10.0	10.2		ug/L		102	80 - 120	10	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
Trifluorotoluene (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	107		80 - 126

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

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

Lab Sample ID: MB 580-305675/5

Matrix: Water

Analysis Batch: 305675

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			07/15/19 12:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	123		50 - 150		07/15/19 12:38	1
4-Bromofluorobenzene (Surr)	97		50 - 150		07/15/19 12:38	1

Lab Sample ID: LCS 580-305675/6

Matrix: Water

Analysis Batch: 305675

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	1.02		mg/L		102	77 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Trifluorotoluene (Surr)	112		50 - 150
4-Bromofluorobenzene (Surr)	104		50 - 150

Lab Sample ID: LCSD 580-305675/7

Matrix: Water

Analysis Batch: 305675

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	1.05		mg/L		105	77 - 123	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Trifluorotoluene (Surr)	111		50 - 150
4-Bromofluorobenzene (Surr)	107		50 - 150

Lab Sample ID: MB 580-306362/4

Matrix: Water

Analysis Batch: 306362

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			07/22/19 23:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	87		50 - 150		07/22/19 23:17	1
4-Bromofluorobenzene (Surr)	92		50 - 150		07/22/19 23:17	1

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

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

Lab Sample ID: LCS 580-306362/5
Matrix: Water
Analysis Batch: 306362

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	1.01		mg/L		101	77 - 123
Surrogate		LCS	LCS				Limits
		%Recovery	Qualifier				
Trifluorotoluene (Surr)		98					50 - 150
4-Bromofluorobenzene (Surr)		100					50 - 150

Lab Sample ID: LCSD 580-306362/6
Matrix: Water
Analysis Batch: 306362

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	1.02		mg/L		102	77 - 123	1	20
Surrogate		LCSD	LCSD				Limits		
		%Recovery	Qualifier						
Trifluorotoluene (Surr)		102					50 - 150		
4-Bromofluorobenzene (Surr)		99					50 - 150		

Lab Sample ID: MB 580-306683/5
Matrix: Water
Analysis Batch: 306683

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			07/25/19 18:04	1
Surrogate		MB						Analyzed	Dil Fac
		%Recovery	Qualifier				Prepared		
Trifluorotoluene (Surr)		52						07/25/19 18:04	1
4-Bromofluorobenzene (Surr)		102						07/25/19 18:04	1

Lab Sample ID: LCS 580-306683/6
Matrix: Water
Analysis Batch: 306683

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	0.991		mg/L		99	77 - 123
Surrogate		LCS	LCS				Limits
		%Recovery	Qualifier				
Trifluorotoluene (Surr)		101					50 - 150
4-Bromofluorobenzene (Surr)		101					50 - 150

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

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

Lab Sample ID: LCSD 580-306683/7
Matrix: Water
Analysis Batch: 306683

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	1.02		mg/L		102	77 - 123	3	20
Surrogate		LCSD %Recovery	LCSD Qualifier						Limits
Trifluorotoluene (Surr)		105							50 - 150
4-Bromofluorobenzene (Surr)		104							50 - 150

Lab Sample ID: 580-87636-9 MS
Matrix: Water
Analysis Batch: 306683

Client Sample ID: MW-304D-W-190710
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	ND	H F1 F2	1.00	0.849	H	mg/L		85	77 - 123		
Surrogate		MS %Recovery		MS Qualifier							Limits
Trifluorotoluene (Surr)		95									50 - 150
4-Bromofluorobenzene (Surr)		94									50 - 150

Lab Sample ID: 580-87636-9 MSD
Matrix: Water
Analysis Batch: 306683

Client Sample ID: MW-304D-W-190710
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	ND	H F1 F2	1.00	0.578	H F1 F2	mg/L		58	77 - 123	38	20
Surrogate		MSD %Recovery		MSD Qualifier							Limits
Trifluorotoluene (Surr)		76									50 - 150
4-Bromofluorobenzene (Surr)		101									50 - 150

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

Lab Sample ID: MB 580-306395/1-A
Matrix: Water
Analysis Batch: 306540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 306395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.11	0.075	mg/L		07/23/19 12:20	07/24/19 18:59	1
Surrogate		MB %Recovery		MB Qualifier			Prepared	Analyzed	Dil Fac
n-Triacontane-d62		106					07/23/19 12:20	07/24/19 18:59	1

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

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

Lab Sample ID: LCS 580-306395/2-A
Matrix: Water
Analysis Batch: 306540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 306395
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
DRO (nC10-<nC25)	2.00	1.85		mg/L		93	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Triacontane-d62	99		50 - 150

Lab Sample ID: LCSD 580-306395/3-A
Matrix: Water
Analysis Batch: 306540

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 306395
%Rec.
RPD

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
DRO (nC10-<nC25)	2.00	1.89		mg/L		95	75 - 125	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Triacontane-d62	96		50 - 150

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

Lab Sample ID: MB 580-306395/1-A
Matrix: Water
Analysis Batch: 306643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 306395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
RRO (nC25-nC36) - RA	ND		0.25	0.066	mg/L		07/23/19 12:20	07/25/19 17:04	1

Lab Sample ID: LCS 580-306395/2-A
Matrix: Water
Analysis Batch: 306643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 306395
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
RRO (nC25-nC36) - RA	2.00	2.22		mg/L		111	60 - 120

Lab Sample ID: LCSD 580-306395/3-A
Matrix: Water
Analysis Batch: 306643

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 306395
%Rec.
RPD

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
RRO (nC25-nC36) - RA	2.00	2.40		mg/L		120	60 - 120	8	20

Method: AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Lab Sample ID: MB 580-306395/1-B
Matrix: Water
Analysis Batch: 306540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 306395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.11	0.075	mg/L		07/23/19 12:20	07/24/19 17:53	1

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Method: AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up (Continued)

Lab Sample ID: MB 580-306395/1-B
Matrix: Water
Analysis Batch: 306540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 306395

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	89		50 - 150	07/23/19 12:20	07/24/19 17:53	1

Lab Sample ID: LCS 580-306395/2-B
Matrix: Water
Analysis Batch: 306540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 306395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
DRO (nC10-<nC25)	2.00	2.01		mg/L		101	75 - 125	
Surrogate	LCS LCS		Limits					
%Recovery	Qualifier							
<i>o</i> -Terphenyl	97		50 - 150					

Lab Sample ID: LCSD 580-306395/3-B
Matrix: Water
Analysis Batch: 306540

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 306395

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
DRO (nC10-<nC25)	2.00	2.04		mg/L		102	75 - 125	2	20
Surrogate	LCSD LCSD		Limits						
%Recovery	Qualifier								
<i>o</i> -Terphenyl	88		50 - 150						

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

GC/MS VOA

Analysis Batch: 305636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-87636-11	TRIP BLANK	Total/NA	Water	8260C	
MB 580-305636/7	Method Blank	Total/NA	Water	8260C	
LCS 580-305636/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 580-305636/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 305938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-87636-1	G-7-W-190710	Total/NA	Water	8260C	
580-87636-2	G-8-W-190710	Total/NA	Water	8260C	
580-87636-3	EQB-1-W-190710	Total/NA	Water	8260C	
580-87636-4	G-3-W-190710	Total/NA	Water	8260C	
580-87636-5	G1-R-W-190710	Total/NA	Water	8260C	
580-87636-6	G-4-W-190710	Total/NA	Water	8260C	
580-87636-8	MW-301D-W-190710	Total/NA	Water	8260C	
580-87636-9	MW-304D-W-190710	Total/NA	Water	8260C	
580-87636-10	BD-1-W-190710	Total/NA	Water	8260C	
MB 580-305938/7	Method Blank	Total/NA	Water	8260C	
LCS 580-305938/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 580-305938/5	Lab Control Sample Dup	Total/NA	Water	8260C	
580-87636-9 MS	MW-304D-W-190710	Total/NA	Water	8260C	
580-87636-9 MSD	MW-304D-W-190710	Total/NA	Water	8260C	

Analysis Batch: 306136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-87636-4 - DL	G-3-W-190710	Total/NA	Water	8260C	
580-87636-6 - DL2	G-4-W-190710	Total/NA	Water	8260C	
580-87636-6 - DL	G-4-W-190710	Total/NA	Water	8260C	
580-87636-7 - DL2	G-5-W-190710	Total/NA	Water	8260C	
580-87636-7 - DL	G-5-W-190710	Total/NA	Water	8260C	
580-87636-8	MW-301D-W-190710	Total/NA	Water	8260C	
MB 580-306136/7	Method Blank	Total/NA	Water	8260C	
LCS 580-306136/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 580-306136/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 305675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-87636-11	TRIP BLANK	Total/NA	Water	AK101	
MB 580-305675/5	Method Blank	Total/NA	Water	AK101	
LCS 580-305675/6	Lab Control Sample	Total/NA	Water	AK101	
LCSD 580-305675/7	Lab Control Sample Dup	Total/NA	Water	AK101	

Analysis Batch: 306362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-87636-7	G-5-W-190710	Total/NA	Water	AK101	
MB 580-306362/4	Method Blank	Total/NA	Water	AK101	
LCS 580-306362/5	Lab Control Sample	Total/NA	Water	AK101	
LCSD 580-306362/6	Lab Control Sample Dup	Total/NA	Water	AK101	

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

GC VOA

Analysis Batch: 306683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-87636-1	G-7-W-190710	Total/NA	Water	AK101	
580-87636-2	G-8-W-190710	Total/NA	Water	AK101	
580-87636-3	EQB-1-W-190710	Total/NA	Water	AK101	
580-87636-4	G-3-W-190710	Total/NA	Water	AK101	
580-87636-5	G1-R-W-190710	Total/NA	Water	AK101	
580-87636-6	G-4-W-190710	Total/NA	Water	AK101	
580-87636-7 - DL	G-5-W-190710	Total/NA	Water	AK101	
580-87636-8	MW-301D-W-190710	Total/NA	Water	AK101	
580-87636-9	MW-304D-W-190710	Total/NA	Water	AK101	
580-87636-10	BD-1-W-190710	Total/NA	Water	AK101	
MB 580-306683/5	Method Blank	Total/NA	Water	AK101	
LCS 580-306683/6	Lab Control Sample	Total/NA	Water	AK101	
LCSD 580-306683/7	Lab Control Sample Dup	Total/NA	Water	AK101	
580-87636-9 MS	MW-304D-W-190710	Total/NA	Water	AK101	
580-87636-9 MSD	MW-304D-W-190710	Total/NA	Water	AK101	

GC Semi VOA

Prep Batch: 306395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-87636-1 - RA	G-7-W-190710	Total/NA	Water	3510C	
580-87636-1	G-7-W-190710	Total/NA	Water	3510C	
580-87636-2	G-8-W-190710	Total/NA	Water	3510C	
580-87636-2 - RA	G-8-W-190710	Total/NA	Water	3510C	
580-87636-3 - RA	EQB-1-W-190710	Total/NA	Water	3510C	
580-87636-3	EQB-1-W-190710	Total/NA	Water	3510C	
580-87636-4	G-3-W-190710	Total/NA	Water	3510C	
580-87636-4 - RA	G-3-W-190710	Total/NA	Water	3510C	
580-87636-5	G1-R-W-190710	Total/NA	Water	3510C	
580-87636-5 - RA	G1-R-W-190710	Total/NA	Water	3510C	
580-87636-6 - RA	G-4-W-190710	Total/NA	Water	3510C	
580-87636-6	G-4-W-190710	Total/NA	Water	3510C	
580-87636-7 - RA	G-5-W-190710	Total/NA	Water	3510C	
580-87636-7	G-5-W-190710	Total/NA	Water	3510C	
MB 580-306395/1-A	Method Blank	Total/NA	Water	3510C	
MB 580-306395/1-A - RA	Method Blank	Total/NA	Water	3510C	
MB 580-306395/1-B	Method Blank	Total/NA	Water	3510C	
LCS 580-306395/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 580-306395/2-A - RA	Lab Control Sample	Total/NA	Water	3510C	
LCS 580-306395/2-B	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-306395/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 580-306395/3-A - RA	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 580-306395/3-B	Lab Control Sample Dup	Total/NA	Water	3510C	

Cleanup Batch: 306459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-87636-1	G-7-W-190710	Total/NA	Water	3630C	306395
580-87636-2	G-8-W-190710	Total/NA	Water	3630C	306395
580-87636-3	EQB-1-W-190710	Total/NA	Water	3630C	306395
580-87636-4	G-3-W-190710	Total/NA	Water	3630C	306395
580-87636-5	G1-R-W-190710	Total/NA	Water	3630C	306395

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

GC Semi VOA (Continued)

Cleanup Batch: 306459 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-87636-6	G-4-W-190710	Total/NA	Water	3630C	306395
580-87636-7	G-5-W-190710	Total/NA	Water	3630C	306395
MB 580-306395/1-B	Method Blank	Total/NA	Water	3630C	306395
LCS 580-306395/2-B	Lab Control Sample	Total/NA	Water	3630C	306395
LCS 580-306395/3-B	Lab Control Sample Dup	Total/NA	Water	3630C	306395

Analysis Batch: 306540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-87636-1	G-7-W-190710	Total/NA	Water	AK102 & 103	306395
580-87636-1	G-7-W-190710	Total/NA	Water	AK102/103	306459
580-87636-2	G-8-W-190710	Total/NA	Water	AK102 & 103	306395
580-87636-2	G-8-W-190710	Total/NA	Water	AK102/103	306459
580-87636-3	EQB-1-W-190710	Total/NA	Water	AK102 & 103	306395
580-87636-3	EQB-1-W-190710	Total/NA	Water	AK102/103	306459
580-87636-4	G-3-W-190710	Total/NA	Water	AK102 & 103	306395
580-87636-4	G-3-W-190710	Total/NA	Water	AK102/103	306459
580-87636-5	G1-R-W-190710	Total/NA	Water	AK102 & 103	306395
580-87636-5	G1-R-W-190710	Total/NA	Water	AK102/103	306459
580-87636-6	G-4-W-190710	Total/NA	Water	AK102 & 103	306395
580-87636-6	G-4-W-190710	Total/NA	Water	AK102/103	306459
580-87636-7	G-5-W-190710	Total/NA	Water	AK102 & 103	306395
580-87636-7	G-5-W-190710	Total/NA	Water	AK102/103	306459
MB 580-306395/1-A	Method Blank	Total/NA	Water	AK102 & 103	306395
MB 580-306395/1-B	Method Blank	Total/NA	Water	AK102/103	306459
LCS 580-306395/2-A	Lab Control Sample	Total/NA	Water	AK102 & 103	306395
LCS 580-306395/2-B	Lab Control Sample	Total/NA	Water	AK102/103	306459
LCS 580-306395/3-A	Lab Control Sample Dup	Total/NA	Water	AK102 & 103	306395
LCS 580-306395/3-B	Lab Control Sample Dup	Total/NA	Water	AK102/103	306459

Analysis Batch: 306643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-87636-1 - RA	G-7-W-190710	Total/NA	Water	AK102 & 103	306395
580-87636-2 - RA	G-8-W-190710	Total/NA	Water	AK102 & 103	306395
580-87636-3 - RA	EQB-1-W-190710	Total/NA	Water	AK102 & 103	306395
580-87636-4 - RA	G-3-W-190710	Total/NA	Water	AK102 & 103	306395
580-87636-5 - RA	G1-R-W-190710	Total/NA	Water	AK102 & 103	306395
580-87636-6 - RA	G-4-W-190710	Total/NA	Water	AK102 & 103	306395
580-87636-7 - RA	G-5-W-190710	Total/NA	Water	AK102 & 103	306395
MB 580-306395/1-A - RA	Method Blank	Total/NA	Water	AK102 & 103	306395
LCS 580-306395/2-A - RA	Lab Control Sample	Total/NA	Water	AK102 & 103	306395
LCS 580-306395/3-A - RA	Lab Control Sample Dup	Total/NA	Water	AK102 & 103	306395

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Client Sample ID: G-7-W-190710

Lab Sample ID: 580-87636-1

Date Collected: 07/10/19 08:30

Matrix: Water

Date Received: 07/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	305938	07/17/19 22:23	W1T	TAL SEA
Total/NA	Analysis	AK101		1	306683	07/25/19 22:33	DCV	TAL SEA
Total/NA	Prep	3510C			306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Analysis	AK102 & 103		1	306540	07/25/19 06:03	ERZ	TAL SEA
Total/NA	Prep	3510C	RA		306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Analysis	AK102 & 103	RA	1	306643	07/25/19 19:40	ERZ	TAL SEA
Total/NA	Prep	3510C			306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Cleanup	3630C			306459	07/23/19 17:35	PRO	TAL SEA
Total/NA	Analysis	AK102/103		1	306540	07/24/19 21:57	ERZ	TAL SEA

Client Sample ID: G-8-W-190710

Lab Sample ID: 580-87636-2

Date Collected: 07/10/19 09:20

Matrix: Water

Date Received: 07/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	305938	07/17/19 22:49	W1T	TAL SEA
Total/NA	Analysis	AK101		1	306683	07/25/19 20:31	DCV	TAL SEA
Total/NA	Prep	3510C			306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Analysis	AK102 & 103		1	306540	07/25/19 06:25	ERZ	TAL SEA
Total/NA	Prep	3510C	RA		306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Analysis	AK102 & 103	RA	1	306643	07/25/19 20:02	ERZ	TAL SEA
Total/NA	Prep	3510C			306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Cleanup	3630C			306459	07/23/19 17:35	PRO	TAL SEA
Total/NA	Analysis	AK102/103		1	306540	07/24/19 22:20	ERZ	TAL SEA

Client Sample ID: EQB-1-W-190710

Lab Sample ID: 580-87636-3

Date Collected: 07/10/19 10:00

Matrix: Water

Date Received: 07/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	305938	07/17/19 23:13	W1T	TAL SEA
Total/NA	Analysis	AK101		1	306683	07/25/19 22:57	DCV	TAL SEA
Total/NA	Prep	3510C			306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Analysis	AK102 & 103		1	306540	07/25/19 06:47	ERZ	TAL SEA
Total/NA	Prep	3510C	RA		306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Analysis	AK102 & 103	RA	1	306643	07/25/19 20:25	ERZ	TAL SEA
Total/NA	Prep	3510C			306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Cleanup	3630C			306459	07/23/19 17:35	PRO	TAL SEA
Total/NA	Analysis	AK102/103		1	306540	07/24/19 22:42	ERZ	TAL SEA

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Client Sample ID: G-3-W-190710

Lab Sample ID: 580-87636-4

Date Collected: 07/10/19 10:20

Matrix: Water

Date Received: 07/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	305938	07/17/19 23:38	W1T	TAL SEA
Total/NA	Analysis	8260C	DL	10	306136	07/19/19 16:41	CJ	TAL SEA
Total/NA	Analysis	AK101		1	306683	07/25/19 23:22	DCV	TAL SEA
Total/NA	Prep	3510C			306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Analysis	AK102 & 103		1	306540	07/25/19 07:09	ERZ	TAL SEA
Total/NA	Prep	3510C	RA		306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Analysis	AK102 & 103	RA	1	306643	07/25/19 21:10	ERZ	TAL SEA
Total/NA	Prep	3510C			306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Cleanup	3630C			306459	07/23/19 17:35	PRO	TAL SEA
Total/NA	Analysis	AK102/103		1	306540	07/24/19 23:05	ERZ	TAL SEA

Client Sample ID: G1-R-W-190710

Lab Sample ID: 580-87636-5

Date Collected: 07/10/19 11:00

Matrix: Water

Date Received: 07/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	305938	07/18/19 00:03	W1T	TAL SEA
Total/NA	Analysis	AK101		1	306683	07/25/19 23:47	DCV	TAL SEA
Total/NA	Prep	3510C			306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Analysis	AK102 & 103		1	306540	07/25/19 07:31	ERZ	TAL SEA
Total/NA	Prep	3510C	RA		306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Analysis	AK102 & 103	RA	1	306643	07/25/19 21:32	ERZ	TAL SEA
Total/NA	Prep	3510C			306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Cleanup	3630C			306459	07/23/19 17:35	PRO	TAL SEA
Total/NA	Analysis	AK102/103		1	306540	07/24/19 23:27	ERZ	TAL SEA

Client Sample ID: G-4-W-190710

Lab Sample ID: 580-87636-6

Date Collected: 07/10/19 12:20

Matrix: Water

Date Received: 07/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	305938	07/18/19 00:29	W1T	TAL SEA
Total/NA	Analysis	8260C	DL2	50	306136	07/19/19 17:05	CJ	TAL SEA
Total/NA	Analysis	8260C	DL	10	306136	07/19/19 17:30	CJ	TAL SEA
Total/NA	Analysis	AK101		1	306683	07/26/19 00:11	DCV	TAL SEA
Total/NA	Prep	3510C			306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Analysis	AK102 & 103		1	306540	07/25/19 07:53	ERZ	TAL SEA
Total/NA	Prep	3510C	RA		306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Analysis	AK102 & 103	RA	1	306643	07/25/19 21:54	ERZ	TAL SEA
Total/NA	Prep	3510C			306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Cleanup	3630C			306459	07/23/19 17:35	PRO	TAL SEA
Total/NA	Analysis	AK102/103		1	306540	07/24/19 23:49	ERZ	TAL SEA

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Client Sample ID: G-5-W-190710

Lab Sample ID: 580-87636-7

Date Collected: 07/10/19 13:45

Matrix: Water

Date Received: 07/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL2	100	306136	07/19/19 17:54	CJ	TAL SEA
Total/NA	Analysis	8260C	DL	50	306136	07/19/19 18:18	CJ	TAL SEA
Total/NA	Analysis	AK101	DL	20	306683	07/25/19 20:06	DCV	TAL SEA
Total/NA	Analysis	AK101		1	306362	07/23/19 08:48	DCV	TAL SEA
Total/NA	Prep	3510C			306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Analysis	AK102 & 103		1	306540	07/25/19 08:15	ERZ	TAL SEA
Total/NA	Prep	3510C	RA		306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Analysis	AK102 & 103	RA	1	306643	07/25/19 22:16	ERZ	TAL SEA
Total/NA	Prep	3510C			306395	07/23/19 12:20	N1C	TAL SEA
Total/NA	Cleanup	3630C			306459	07/23/19 17:35	PRO	TAL SEA
Total/NA	Analysis	AK102/103		1	306540	07/25/19 00:12	ERZ	TAL SEA

Client Sample ID: MW-301D-W-190710

Lab Sample ID: 580-87636-8

Date Collected: 07/10/19 14:30

Matrix: Water

Date Received: 07/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	305938	07/18/19 01:19	W1T	TAL SEA
Total/NA	Analysis	8260C		1	306136	07/19/19 13:49	CJ	TAL SEA
Total/NA	Analysis	AK101		1	306683	07/26/19 00:36	DCV	TAL SEA

Client Sample ID: MW-304D-W-190710

Lab Sample ID: 580-87636-9

Date Collected: 07/10/19 15:15

Matrix: Water

Date Received: 07/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	305938	07/18/19 01:44	W1T	TAL SEA
Total/NA	Analysis	AK101		1	306683	07/25/19 20:55	DCV	TAL SEA

Client Sample ID: BD-1-W-190710

Lab Sample ID: 580-87636-10

Date Collected: 07/10/19 00:01

Matrix: Water

Date Received: 07/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	305938	07/18/19 02:59	W1T	TAL SEA
Total/NA	Analysis	AK101		1	306683	07/26/19 01:00	DCV	TAL SEA

Client Sample ID: TRIP BLANK

Lab Sample ID: 580-87636-11

Date Collected: 07/10/19 00:01

Matrix: Water

Date Received: 07/12/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	305636	07/15/19 15:52	T1W	TAL SEA
Total/NA	Analysis	AK101		1	305675	07/15/19 14:26	DCV	TAL SEA

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
 Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-024	01-19-20
ANAB	Dept. of Defense ELAP		L2236	01-19-22
ANAB	DoD		L2236	01-19-22
ANAB	ISO/IEC 17025		L2236	01-19-22
ANAB	ISO/IEC 17025		L2236	01-19-22
California	State		2901	11-05-19
California	State Program	9	2901	11-05-19
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-05-19
Oregon	NELAP		WA100007	11-05-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-14-00126	02-10-20
USDA	US Federal Programs		P330-17-00039	02-10-20
Washington	State		C553	02-17-20
Washington	State Program	10	C553	02-17-20

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SEA
AK101	Alaska - Gasoline Range Organics (GC)	ADEC	TAL SEA
AK102 & 103	Alaska - Diesel Range Organics & Residual Range Organics (GC)	ADEC	TAL SEA
AK102/103	Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up	ADEC	TAL SEA
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL SEA
3630C	Silica Gel Cleanup	SW846	TAL SEA
5030B	Purge and Trap	SW846	TAL SEA

Protocol References:

ADEC = Alaska Department of Environmental Conservation

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

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron Site ID 211081, Fairbanks, AK

Job ID: 580-87636-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-87636-1	G-7-W-190710	Water	07/10/19 08:30	07/12/19 10:00	
580-87636-2	G-8-W-190710	Water	07/10/19 09:20	07/12/19 10:00	
580-87636-3	EQB-1-W-190710	Water	07/10/19 10:00	07/12/19 10:00	
580-87636-4	G-3-W-190710	Water	07/10/19 10:20	07/12/19 10:00	
580-87636-5	G1-R-W-190710	Water	07/10/19 11:00	07/12/19 10:00	
580-87636-6	G-4-W-190710	Water	07/10/19 12:20	07/12/19 10:00	
580-87636-7	G-5-W-190710	Water	07/10/19 13:45	07/12/19 10:00	
580-87636-8	MW-301D-W-190710	Water	07/10/19 14:30	07/12/19 10:00	
580-87636-9	MW-304D-W-190710	Water	07/10/19 15:15	07/12/19 10:00	
580-87636-10	BD-1-W-190710	Water	07/10/19 00:01	07/12/19 10:00	
580-87636-11	TRIP BLANK	Water	07/10/19 00:01	07/12/19 10:00	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 304544Lab Sample ID: IC 580-304544/2 Client Sample ID: _____Date Analyzed: 07/01/19 15:27 Lab File ID: 070119_0007.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	6.09	Assign Peak	wongsakul t	07/02/19 13:28
Acetone	6.20	Incomplete Integration	wongsakul t	07/02/19 13:33
Acrylonitrile	6.69	Incomplete Integration	wongsakul t	07/02/19 14:16
Ethyl acetate	8.30	Incomplete Integration	wongsakul t	07/02/19 14:24
Methyl methacrylate	9.97	Peak assignment corrected	mckelljs	07/02/19 13:24
2-Butanone		Invalid Compound ID	wongsakul t	07/02/19 14:53
Styrene		Invalid Compound ID	wongsakul t	07/02/19 14:04
1,1,2,2-Tetrachloroethane	13.21	Peak assignment corrected	mckelljs	07/02/19 13:24
trans-1,4-Dichloro-2-butene	13.33	Assign Peak	ruslander a	07/01/19 15:57
1,2,3-Trichloropropane	13.34	Peak assignment corrected	mckelljs	07/02/19 13:24
1,4-Dichlorobenzene	14.79	Split Peak	wongsakul t	07/02/19 14:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 304544Lab Sample ID: IC 580-304544/3 Client Sample ID: _____Date Analyzed: 07/01/19 15:52 Lab File ID: 070119_0008.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	6.12	Incomplete Integration	wongsakul t	07/02/19 13:30
Acrylonitrile	6.69	Incomplete Integration	wongsakul t	07/02/19 14:16
Methyl methacrylate	9.97	Peak assignment corrected	mckelljs	07/02/19 13:24
Styrene		Invalid Compound ID	wongsakul t	07/02/19 14:05
Ethyl methacrylate	11.16	Split Peak	wongsakul t	07/02/19 14:56
Dibromochloromethane	11.49	Split Peak	wongsakul t	07/02/19 13:59
1,2,3-Trichloropropane	13.34	Peak assignment corrected	wongsakul t	07/02/19 12:12
1,3-Dichlorobenzene	14.72	Incomplete Integration	wongsakul t	07/02/19 14:42

Lab Sample ID: IC 580-304544/4 Client Sample ID: _____Date Analyzed: 07/01/19 16:17 Lab File ID: 070119_0009.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	6.08	Incomplete Integration	wongsakul t	07/02/19 13:27
n-Butyl alcohol	9.02	Incomplete Integration	wongsakul t	07/02/19 14:30
Methyl methacrylate	9.97	Peak assignment corrected	mckelljs	07/02/19 13:25
Dibromochloromethane	11.49	Split Peak	wongsakul t	07/02/19 13:59
1,2,3-Trichloropropane	13.34	Peak assignment corrected	wongsakul t	07/02/19 12:09
1,3-Dichlorobenzene	14.72	Split Peak	wongsakul t	07/02/19 14:41

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 304544Lab Sample ID: IC 580-304544/5 Client Sample ID: _____Date Analyzed: 07/01/19 16:41 Lab File ID: 070119_0010.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrylonitrile	6.69	Incomplete Integration	wongsakul t	07/02/19 14:13
Ethyl acetate	8.29	Incomplete Integration	wongsakul t	07/02/19 14:22
Dibromochloromethane	11.49	Split Peak	wongsakul t	07/02/19 13:58
1,3-Dichlorobenzene	14.73	Incomplete Integration	wongsakul t	07/02/19 14:41

Lab Sample ID: IC 580-304544/6 Client Sample ID: _____Date Analyzed: 07/01/19 17:06 Lab File ID: 070119_0011.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethyl acetate	8.30	Incomplete Integration	wongsakul t	07/02/19 14:22
Dibromochloromethane	11.49	Split Peak	wongsakul t	07/02/19 13:58
1,3-Dichlorobenzene	14.72	Incomplete Integration	wongsakul t	07/02/19 14:40

Lab Sample ID: ICIS 580-304544/7 Client Sample ID: _____Date Analyzed: 07/01/19 17:31 Lab File ID: 070119_0012.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethyl acetate	8.29	Incomplete Integration	wongsakul t	07/02/19 14:21
Dibromochloromethane	11.49	Split Peak	wongsakul t	07/02/19 13:57
1,3-Dichlorobenzene	14.72	Incomplete Integration	wongsakul t	07/02/19 14:40

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 304544Lab Sample ID: IC 580-304544/8 Client Sample ID: _____Date Analyzed: 07/01/19 17:55 Lab File ID: 070119_0013.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromochloromethane	11.49	Split Peak	wongsakul t	07/02/19 13:57

Lab Sample ID: IC 580-304544/10 Client Sample ID: _____Date Analyzed: 07/01/19 18:45 Lab File ID: 070119_0015.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butyl alcohol	9.01	Incomplete Integration	wongsakul t	07/02/19 14:32
Chlorobenzene-d5	12.47	Split Peak	wongsakul t	07/02/19 12:06

Lab Sample ID: IC 580-304544/11 Client Sample ID: _____Date Analyzed: 07/01/19 19:10 Lab File ID: 070119_0016.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	6.20	Split Peak	wongsakul t	07/02/19 13:35
n-Butyl alcohol	9.02	Incomplete Integration	wongsakul t	07/02/19 14:31
Chlorobenzene-d5	12.47	Peak assignment corrected	wongsakul t	07/02/19 12:07
1,3-Dichlorobenzene	14.73	Split Peak	wongsakul t	07/02/19 14:38
1,4-Dichlorobenzene-d4	14.76	Peak assignment corrected	wongsakul t	07/02/19 12:07
1,4-Dichlorobenzene	14.79	Split Peak	wongsakul t	07/02/19 14:47

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 305636Lab Sample ID: CCVIS 580-305636/3 Client Sample ID: _____Date Analyzed: 07/15/19 13:05 Lab File ID: 071519_0003.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	4.21	Baseline	ruslander a	07/15/19 13:41
Acetone	6.20	Baseline	ruslander a	07/15/19 13:41

Lab Sample ID: CCVL 580-305636/6 Client Sample ID: _____Date Analyzed: 07/15/19 14:21 Lab File ID: 071519_0006.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	6.09	Peak assignment corrected	ruslander a	07/15/19 16:22
Methyl methacrylate	9.97	Peak assignment corrected	ruslander a	07/15/19 16:23
Styrene	12.83	Assign Peak	ruslander a	07/15/19 16:23
1,1,2,2-Tetrachloroethane	13.21	Assign Peak	ruslander a	07/15/19 16:23
1,2,3-Trichloropropane	13.34	Assign Peak	ruslander a	07/15/19 16:23

Lab Sample ID: MB 580-305636/7 Client Sample ID: _____Date Analyzed: 07/15/19 14:47 Lab File ID: 071519_0007.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzene		Invalid Compound ID	ruslander a	07/15/19 16:23
m-Xylene & p-Xylene		Invalid Compound ID	wongsakul t	07/16/19 12:29
Toluene	11.17	Incomplete Integration	wongsakul t	07/16/19 12:28

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 305636

Lab Sample ID: 580-87636-11 Client Sample ID: TRIP BLANK

Date Analyzed: 07/15/19 15:52 Lab File ID: 071519_0009.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
m-Xylene & p-Xylene		Invalid Compound ID	wongsakul t	07/16/19 12:32

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 305938Lab Sample ID: CCVL 580-305938/6 Client Sample ID: _____Date Analyzed: 07/17/19 19:27 Lab File ID: 071719_0019.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	4.16	Incomplete Integration	thaneerat w	07/18/19 12:27
Chloromethane	4.45	Incomplete Integration	thaneerat w	07/18/19 12:27
Styrene	12.73	Incomplete Integration	thaneerat w	07/18/19 12:27
1,1,2,2-Tetrachloroethane	13.12	Incomplete Integration	thaneerat w	07/18/19 12:28
trans-1,4-Dichloro-2-butene	13.24	Incomplete Integration	thaneerat w	07/18/19 12:28
1,2,3-Trichloropropane	13.26	Incomplete Integration	thaneerat w	07/18/19 12:28

Lab Sample ID: 580-87636-3 Client Sample ID: EQB-1-W-190710Date Analyzed: 07/17/19 23:13 Lab File ID: 071719_0028.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylbenzene		Invalid Compound ID	thaneerat w	07/18/19 13:46
o-Xylene		Invalid Compound ID	thaneerat w	07/18/19 13:46

Lab Sample ID: 580-87636-4 Client Sample ID: _____Date Analyzed: 07/17/19 23:38 Lab File ID: 071719_0029.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluorobenzene (IS)	9.42	Peak assignment corrected	thaneerat w	07/18/19 14:12

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA102 Analysis Batch Number: 305938

Lab Sample ID: 580-87636-6 Client Sample ID: _____

Date Analyzed: 07/18/19 00:29 Lab File ID: 071719_0031.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluorobenzene (IS)	9.42	Peak assignment corrected	thaneerat w	07/18/19 15:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: TAC001 Analysis Batch Number: 304491Lab Sample ID: IC 580-304491/3 Client Sample ID: _____Date Analyzed: 07/01/19 14:16 Lab File ID: 070119003.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.02	Assign Peak	ruslander a	07/01/19 15:20
Bromomethane	4.75	Assign Peak	ruslander a	07/01/19 15:20
Acetonitrile	5.62	Assign Peak	ruslander a	07/01/19 15:21
Isopropyl alcohol	5.62	Assign Peak	ruslander a	07/01/19 15:21
Methyl acetate	6.31	Assign Peak	ruslander a	07/01/19 15:22
1,1,2-Trichloro-1,2,2-trifluoroethane	6.33	Assign Peak	ruslander a	07/01/19 15:22
Hexane	7.48	Assign Peak	ruslander a	07/01/19 15:23
Isobutanol	7.89	Assign Peak	ruslander a	07/01/19 15:24
1,2-Dichloropropane	9.29	Assign Peak	ruslander a	07/01/19 15:25
2-Nitropropane	9.32	Assign Peak	ruslander a	07/01/19 15:25
Methyl methacrylate	9.47	Assign Peak	ruslander a	07/01/19 15:25
Ethyl methacrylate	10.59	Assign Peak	ruslander a	07/01/19 15:41
1,1,1,2-Tetrachloroethane	11.83	Assign Peak	ruslander a	07/01/19 15:27
Chlorobenzene	11.91	Assign Peak	ruslander a	07/01/19 15:27
1,3-Dichlorobenzene	14.18	Assign Peak	ruslander a	07/01/19 15:28
1,4-Dichlorobenzene	14.24	Assign Peak	ruslander a	07/01/19 15:28

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: TAC001 Analysis Batch Number: 304491Lab Sample ID: IC 580-304491/4 Client Sample ID: _____Date Analyzed: 07/01/19 14:41 Lab File ID: 070119004.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	5.60	Assign Peak	ruslander a	07/01/19 15:30
Isopropyl alcohol	5.62	Assign Peak	ruslander a	07/01/19 15:30
Hexane	7.48	Assign Peak	ruslander a	07/01/19 15:30
Isobutanol	7.89	Assign Peak	ruslander a	07/01/19 15:30
1,2-Dichloropropane	9.29	Assign Peak	ruslander a	07/01/19 15:30
2-Nitropropane	9.32	Assign Peak	ruslander a	07/01/19 15:31
Methyl methacrylate	9.47	Assign Peak	ruslander a	07/01/19 15:31
Ethyl methacrylate	10.59	Assign Peak	ruslander a	07/01/19 15:40
1,1,1,2-Tetrachloroethane	11.83	Assign Peak	ruslander a	07/01/19 15:31
Chlorobenzene	11.91	Assign Peak	ruslander a	07/01/19 15:31
1,3-Dichlorobenzene	14.18	Assign Peak	ruslander a	07/01/19 15:31
1,4-Dichlorobenzene	14.24	Assign Peak	ruslander a	07/01/19 15:32

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: TAC001 Analysis Batch Number: 304491Lab Sample ID: IC 580-304491/5 Client Sample ID: _____Date Analyzed: 07/01/19 15:06 Lab File ID: 070119005.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	5.58	Incomplete Integration	ruslander a	07/01/19 15:36
Isopropyl alcohol	5.62	Incomplete Integration	ruslander a	07/01/19 15:36
Hexane	7.48	Incomplete Integration	ruslander a	07/01/19 15:36
Isobutanol	7.88	Incomplete Integration	ruslander a	07/01/19 15:37
2-Nitropropane	9.32	Incomplete Integration	ruslander a	07/01/19 15:37
Methyl methacrylate	9.47	Incomplete Integration	ruslander a	07/01/19 15:39
1,1,1,2-Tetrachloroethane	11.83	Assign Peak	ruslander a	07/01/19 15:42
Chlorobenzene	11.91	Assign Peak	ruslander a	07/01/19 15:42
1,3-Dichlorobenzene	14.18	Assign Peak	ruslander a	07/01/19 15:43
1,4-Dichlorobenzene	14.24	Assign Peak	ruslander a	07/01/19 15:43

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: TAC001 Analysis Batch Number: 304491Lab Sample ID: IC 580-304491/6 Client Sample ID: _____Date Analyzed: 07/01/19 15:31 Lab File ID: 070119006.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Hexane	7.48	Peak assignment corrected	ruslander a	07/01/19 15:58
2-Nitropropane	9.32	Peak assignment corrected	ruslander a	07/01/19 15:57
1,1,1,2-Tetrachloroethane	11.83	Peak assignment corrected	ruslander a	07/01/19 15:57
Chlorobenzene-d5	11.87	Split Peak	ruslander a	07/01/19 15:58

Lab Sample ID: IC 580-304491/7 Client Sample ID: _____Date Analyzed: 07/01/19 15:55 Lab File ID: 070119007.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Hexane	7.48	Peak assignment corrected	limwirojt	07/02/19 14:17
2-Nitropropane	9.32	Peak assignment corrected	limwirojt	07/02/19 14:17

Lab Sample ID: ICIS 580-304491/8 Client Sample ID: _____Date Analyzed: 07/01/19 16:19 Lab File ID: 070119008.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Hexane	7.48	Peak assignment corrected	limwirojt	07/02/19 13:41
2-Nitropropane	9.32	Peak assignment corrected	limwirojt	07/02/19 13:42

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: TAC001 Analysis Batch Number: 304491Lab Sample ID: IC 580-304491/9 Client Sample ID: _____Date Analyzed: 07/01/19 16:43 Lab File ID: 070119009.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Hexane	7.48	Peak assignment corrected	limwirojt	07/02/19 14:22
2-Nitropropane	9.32	Peak assignment corrected	limwirojt	07/02/19 14:22

Lab Sample ID: IC 580-304491/10 Client Sample ID: _____Date Analyzed: 07/01/19 17:08 Lab File ID: 070119010.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Hexane	7.48	Peak assignment corrected	limwirojt	07/02/19 14:23
2-Nitropropane	9.32	Peak assignment corrected	limwirojt	07/02/19 14:23
1,4-Dichlorobenzene-d4	14.21	Peak assignment corrected	limwirojt	07/02/19 14:23

Lab Sample ID: IC 580-304491/11 Client Sample ID: _____Date Analyzed: 07/01/19 17:32 Lab File ID: 070119011.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Hexane	7.48	Peak assignment corrected	limwirojt	07/02/19 14:26
2-Nitropropane	9.32	Peak assignment corrected	limwirojt	07/02/19 14:26
1,4-Dichlorobenzene-d4	14.22	Peak assignment corrected	limwirojt	07/02/19 14:25

Lab Sample ID: IC 580-304491/12 Client Sample ID: _____Date Analyzed: 07/01/19 17:56 Lab File ID: 070119012.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Hexane	7.48	Peak assignment corrected	limwirojt	07/02/19 14:27
2-Nitropropane	9.32	Peak assignment corrected	limwirojt	07/02/19 14:27
1,4-Dichlorobenzene-d4	14.22	Peak assignment corrected	limwirojt	07/02/19 14:26

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: TAC001 Analysis Batch Number: 304491

Lab Sample ID: ICV 580-304491/14 Client Sample ID: _____

Date Analyzed: 07/01/19 18:45 Lab File ID: 070119014.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Hexane	7.48	Peak assignment corrected	limwirojt	07/02/19 14:28
2-Nitropropane	9.32	Peak assignment corrected	limwirojt	07/02/19 14:28

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: TAC001 Analysis Batch Number: 306136

Lab Sample ID: CCVIS 580-306136/3 Client Sample ID: _____

Date Analyzed: 07/19/19 11:23 Lab File ID: 071919003.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	3.75	Incomplete Integration	ruslander a	07/19/19 12:54
Chloromethane	4.03	Incomplete Integration	ruslander a	07/19/19 12:54
Hexane	7.48	Incomplete Integration	ruslander a	07/19/19 12:55
2-Nitropropane	9.32	Incomplete Integration	ruslander a	07/19/19 12:55

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: TAC001 Analysis Batch Number: 306136Lab Sample ID: CCVL 580-306136/6 Client Sample ID: _____Date Analyzed: 07/19/19 12:36 Lab File ID: 071919006.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	3.77	Incomplete Integration	ruslander a	07/19/19 13:00
3-Chloro-1-propene	5.47	Incomplete Integration	ruslander a	07/19/19 13:00
Acetonitrile	5.57	Incomplete Integration	ruslander a	07/19/19 13:00
Isopropyl alcohol	5.63	Incomplete Integration	ruslander a	07/19/19 13:01
Hexane	7.48	Incomplete Integration	ruslander a	07/19/19 13:01
Isobutanol	7.89	Baseline	jantanuc	07/22/19 10:52
n-Butyl alcohol	8.53	Incomplete Integration	ruslander a	07/19/19 13:01
2-Nitropropane	9.33	Incomplete Integration	ruslander a	07/19/19 13:01
Methyl methacrylate	9.47	Incomplete Integration	ruslander a	07/19/19 13:01
1,1,1,2-Tetrachloroethane	11.83	Incomplete Integration	ruslander a	07/19/19 13:01
Chlorobenzene	11.91	Incomplete Integration	ruslander a	07/19/19 13:01
1,3-Dichlorobenzene	14.18	Incomplete Integration	ruslander a	07/19/19 13:01
1,4-Dichlorobenzene	14.24	Incomplete Integration	ruslander a	07/19/19 13:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: TAC001 Analysis Batch Number: 306136

Lab Sample ID: MB 580-306136/7 Client Sample ID: _____

Date Analyzed: 07/19/19 13:00 Lab File ID: 071919007.D GC Column: DB-VRX ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzene		Invalid Compound ID	ruslander a	07/19/19 15:28
o-Xylene	12.64	Peak assignment corrected	ruslander a	07/19/19 15:29

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA012 Analysis Batch Number: 296035

Lab Sample ID: IC 580-296035/3 Client Sample ID: _____

Date Analyzed: 03/11/19 18:59 Lab File ID: 003F0301.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.60	Incomplete Integration	johala	03/12/19 10:00

Lab Sample ID: IC 580-296035/4 Client Sample ID: _____

Date Analyzed: 03/11/19 19:21 Lab File ID: 004F0401.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.12	Peak assignment corrected	mohammedj c	03/12/19 09:44
n-Triacontane-d62	7.57	Incomplete Integration	johala	03/12/19 10:04

Lab Sample ID: IC 580-296035/5 Client Sample ID: _____

Date Analyzed: 03/11/19 19:43 Lab File ID: 005F0501.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.10	Peak assignment corrected	mohammedj c	03/12/19 09:44
n-Triacontane-d62	7.51	Incomplete Integration	johala	03/12/19 10:05

Lab Sample ID: IC 580-296035/6 Client Sample ID: _____

Date Analyzed: 03/11/19 20:05 Lab File ID: 006F0601.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.09	Peak assignment corrected	mohammedj c	03/12/19 09:43
n-Triacontane-d62	7.51	Incomplete Integration	johala	03/12/19 10:06

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA012 Analysis Batch Number: 296035

Lab Sample ID: ICRT 580-296035/7 Client Sample ID: _____

Date Analyzed: 03/11/19 20:27 Lab File ID: 007F0701.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.09	Peak assignment corrected	mohammedj c	03/12/19 09:43
n-Triacontane-d62	7.49	Incomplete Integration	johala	03/12/19 10:06

Lab Sample ID: IC 580-296035/8 Client Sample ID: _____

Date Analyzed: 03/11/19 20:49 Lab File ID: 008F0801.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.08	Peak assignment corrected	mohammedj c	03/12/19 09:43
n-Triacontane-d62	7.50	Peak assignment corrected	johala	03/12/19 10:07

Lab Sample ID: IC 580-296035/9 Client Sample ID: _____

Date Analyzed: 03/11/19 21:10 Lab File ID: 009F0901.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.08	Peak assignment corrected	mohammedj c	03/12/19 09:43
n-Triacontane-d62	7.50	Incomplete Integration	johala	03/12/19 10:07

Lab Sample ID: IC 580-296035/10 Client Sample ID: _____

Date Analyzed: 03/11/19 21:32 Lab File ID: 010F1001.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.08	Peak assignment corrected	mohammedj c	03/12/19 09:43
n-Triacontane-d62	7.48	Incomplete Integration	johala	03/12/19 10:08

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA012 Analysis Batch Number: 296035

Lab Sample ID: IC 580-296035/11 Client Sample ID: _____

Date Analyzed: 03/11/19 21:54 Lab File ID: 011F1101.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.08	Peak assignment corrected	mohammedj c	03/12/19 09:43
n-Triacontane-d62	7.47	Peak assignment corrected	johala	03/12/19 10:08

Lab Sample ID: IC 580-296035/12 Client Sample ID: _____

Date Analyzed: 03/11/19 22:15 Lab File ID: 012F1201.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.08	Peak assignment corrected	mohammedj c	03/12/19 09:43
n-Triacontane-d62	7.48	Incomplete Integration	johala	03/12/19 10:09

Lab Sample ID: ICV 580-296035/13 Client Sample ID: _____

Date Analyzed: 03/11/19 22:37 Lab File ID: 013F1301.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.08	Peak assignment corrected	johala	03/12/19 10:09
n-Triacontane-d62	7.50	Incomplete Integration	johala	03/12/19 10:09

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA012 Analysis Batch Number: 304917

Lab Sample ID: IC 580-304917/3 Client Sample ID: _____

Date Analyzed: 07/07/19 14:31 Lab File ID: 103B0301.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	4.81	Incomplete Integration	mohammedj c	07/09/19 14:20
n-Triacontane-d62	7.36	Incomplete Integration	mohammedj c	07/09/19 14:20

Lab Sample ID: IC 580-304917/4 Client Sample ID: _____

Date Analyzed: 07/07/19 14:54 Lab File ID: 104B0401.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	4.79	Incomplete Integration	mohammedj c	07/09/19 14:21
n-Triacontane-d62	7.31	Incomplete Integration	mohammedj c	07/09/19 14:21

Lab Sample ID: IC 580-304917/5 Client Sample ID: _____

Date Analyzed: 07/07/19 15:16 Lab File ID: 105B0501.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.26	Peak assignment corrected	mohammedj c	07/09/19 14:21

Lab Sample ID: IC 580-304917/6 Client Sample ID: _____

Date Analyzed: 07/07/19 15:38 Lab File ID: 106B0601.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.24	Peak assignment corrected	mohammedj c	07/09/19 14:21

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA012 Analysis Batch Number: 304917

Lab Sample ID: ICRT 580-304917/7 Client Sample ID: _____

Date Analyzed: 07/07/19 16:00 Lab File ID: 107B0701.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.24	Incomplete Integration	mohammedj c	07/09/19 14:20

Lab Sample ID: IC 580-304917/8 Client Sample ID: _____

Date Analyzed: 07/07/19 16:23 Lab File ID: 108B0801.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.25	Peak assignment corrected	mohammedj c	07/08/19 14:11

Lab Sample ID: IC 580-304917/9 Client Sample ID: _____

Date Analyzed: 07/07/19 16:45 Lab File ID: 109B0901.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.24	Peak assignment corrected	mohammedj c	07/08/19 14:02

Lab Sample ID: IC 580-304917/10 Client Sample ID: _____

Date Analyzed: 07/07/19 17:08 Lab File ID: 110B1001.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.24	Peak assignment corrected	mohammedj c	07/08/19 14:01

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA012 Analysis Batch Number: 304917

Lab Sample ID: IC 580-304917/11 Client Sample ID: _____

Date Analyzed: 07/07/19 17:30 Lab File ID: 111B1101.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.25	Peak assignment corrected	mohammedj c	07/08/19 14:01

Lab Sample ID: IC 580-304917/12 Client Sample ID: _____

Date Analyzed: 07/07/19 17:53 Lab File ID: 112B1201.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.26	Peak assignment corrected	mohammedj c	07/08/19 14:01

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA012 Analysis Batch Number: 306540

Lab Sample ID: RTC 580-306540/2 Client Sample ID: _____

Date Analyzed: 07/24/19 17:09 Lab File ID: 052B0201.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.30	Peak assignment corrected	mohammedj c	07/25/19 12:56

Lab Sample ID: CCVRT 580-306540/3 Client Sample ID: _____

Date Analyzed: 07/24/19 17:31 Lab File ID: 053B0301.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.26	Peak assignment corrected	mohammedj c	07/25/19 12:56

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA012 Analysis Batch Number: 306643

Lab Sample ID: CCVRT 580-306643/3 Client Sample ID: _____

Date Analyzed: 07/25/19 16:42 Lab File ID: 003F0301.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.44	Peak assignment corrected	zboralski e	07/26/19 08:53

Lab Sample ID: CCV 580-306643/14 Client Sample ID: _____

Date Analyzed: 07/25/19 20:48 Lab File ID: 014F1401.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.44	Peak assignment corrected	zboralski e	07/26/19 09:04

Lab Sample ID: CCV 580-306643/19 Client Sample ID: _____

Date Analyzed: 07/25/19 22:39 Lab File ID: 019F1901.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.43	Peak assignment corrected	zboralski e	07/26/19 09:06

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA012 Analysis Batch Number: 304917

Lab Sample ID: ICV 580-304917/13 Client Sample ID: _____

Date Analyzed: 07/07/19 18:15 Lab File ID: 113B1301.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.27	Peak assignment corrected	mohammedj c	07/09/19 14:26

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA012 Analysis Batch Number: 306540

Lab Sample ID: CCV 580-306540/14 Client Sample ID: _____

Date Analyzed: 07/24/19 21:34 Lab File ID: 064B1401.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.26	Peak assignment corrected	mohammedj c	07/25/19 13:37

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
5X SUR/IS/TFT_00010							1,3-Dichloropropene, Total			
							TAH			
							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
.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		
							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		
BFBGRO ARCHON 00024	06/21/19	06/23/18	fisher MeOH, Lot 177891	50 mL	BFBsurr_00029	2.5 mL	4-Bromofluorobenzene (Surr)	500 ug/mL		
.BFBsurr_00029	10/31/22		Restek, Lot A0128924		(Purchased Reagent)		4-Bromofluorobenzene (Surr)	10000 ug/mL		
BFBGRO ARCHON 00031	02/05/23	04/29/19	fisher MeOH, Lot 196628	50 mL	BFBsurr_00032	2.5 mL	4-Bromofluorobenzene (Surr)	500 ug/mL		
.BFBsurr_00032	09/30/23		Restek, Lot A0139108		(Purchased Reagent)		4-Bromofluorobenzene (Surr)	10000 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		
GRO BTEXBlend_00010	04/01/20	04/02/19	methanol, Lot 196628	5 mL	BTEX in Gas_00006	2 mL	Gasoline Range Organics (GRO) -C6-C10	2000 ug/mL		

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.BTEX in Gas_00006	03/02/26	AccuStandard, Lot 216021275			(Purchased Reagent)		Gasoline Range Organics (GRO) -C6-C10	5000 ug/mL
GRO_LCS_00052	02/05/23	04/24/19	MeOH, Lot 193866	50 mL	GROLCSstk_00024	2 mL	Gasoline Range Organics (GRO) -C6-C10	2000 ug/mL
.GROLCSstk_00024	07/18/27	AccuStandard, Lot 217071177			(Purchased Reagent)		Gasoline Range Organics (GRO) -C6-C10	50000 ug/mL
GRO_LCS_00053	02/05/23	07/08/19	MeOH, Lot 193866	25 mL	GROLCSstk_00024	1 mL	Gasoline Range Organics (GRO) -C6-C10	2000 ug/mL
.GROLCSstk_00024	07/18/27	AccuStandard, Lot 217071177			(Purchased Reagent)		Gasoline Range Organics (GRO) -C6-C10	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
TPH-IC*_100_00001	03/31/19	03/11/19	DCM, Lot CT#160	10 mL	TPH-IC*_500_00001	2 mL	DRO (nC10-<nC25) RRO (nC25-nC36) n-Triacontane-d62 o-Terphenyl	100 mg/L 100 mg/L 4.016 mg/L 3.984 mg/L
.TPH-IC*_500_00001	03/31/19	03/11/19	DCM, Lot CT#160	10 mL	TPH-IC*_10000_00001	500 uL	DRO (nC10-<nC25) RRO (nC25-nC36) n-Triacontane-d62 o-Terphenyl	500 mg/L 500 mg/L 20.08 mg/L 19.92 mg/L
..TPH-IC*_10000_00001	03/31/19	03/11/19	DCM, Lot CT#160	10 mL	TPH Spike_RZ_00102	2 mL	DRO (nC10-<nC25) RRO (nC25-nC36)	10000 mg/L 10000 mg/L
...TPH Spike_RZ_00102	11/30/23	Restek, Lot A0122303			TPH_SURR_00042	4 mL	n-Triacontane-d62 o-Terphenyl	401.6 mg/L 398.4 mg/L
...TPH_SURR_00042	03/31/19	10/10/18	Acetone/DCM, Lot 179319/CT#141	500 mL	nc30d62_00016	0.502 g	DRO (nC10-<nC25) RRO (nC25-nC36)	50000 ug/mL 50000 ug/mL
....nC30d62_00016	06/04/23	Aldrich, Lot MBBC4347			oterphenyl_00011	0.498 g	n-Triacontane-d62	1004 mg/L
....oterphenyl_00011	03/02/23	Aldrich, Lot MKBV3687V			(Purchased Reagent)		o-Terphenyl	996 mg/L
TPH-IC*_10000_00001	03/31/19	03/11/19	DCM, Lot CT#160	10 mL	TPH Spike_RZ_00102	2 mL	n-Triacontane-d62	100 %
.TPH Spike_RZ_00102	11/30/23	Restek, Lot A0122303			TPH_SURR_00042	4 mL	n-Triacontane-d62 o-Terphenyl	10000 mg/L 10000 mg/L 401.6 mg/L 398.4 mg/L
.TPH_SURR_00042	03/31/19	10/10/18	Acetone/DCM, Lot 179319/CT#141	500 mL	nc30d62_00016	0.502 g	DRO (nC10-<nC25) RRO (nC25-nC36)	50000 ug/mL 50000 ug/mL
..nC30d62_00016	06/04/23	Aldrich, Lot MBBC4347			oterphenyl_00011	0.498 g	n-Triacontane-d62	1004 mg/L
..oterphenyl_00011	03/02/23	Aldrich, Lot MKBV3687V			(Purchased Reagent)		o-Terphenyl	996 mg/L
TPH-IC*_10000_00004	10/01/19	07/07/19	DCM, Lot CT#161	10 mL	TPH Spike_RZ_00102	2 mL	n-Triacontane-d62	100 %
					TPH_SURR_00044	2 mL	n-Triacontane-d62 o-Terphenyl	10000 mg/L 10000 mg/L 200.8 mg/L 199.2 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-87636-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.TPH Spike_RZ_00102	11/30/23		Restek, Lot A0122303		(Purchased Reagent)		DRO (nC10-<nC25) RRO (nC25-nC36)	50000 ug/mL 50000 ug/mL
.TPH_SURR_00044	10/01/19	04/01/19	Acetone/DCM, Lot 179319/CT#141	500 mL	nC30d62_00016	0.502 g	n-Triacontane-d62	1004 mg/L
..nC30d62_00016	06/04/23		Aldrich, Lot MBBC4347		(Purchased Reagent)		n-Triacontane-d62	100 %
..oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
TPH-IC*_500_00001	03/31/19	03/11/19	DCM, Lot CT#160	10 mL	TPH-IC*_10000_00001	500 uL	DRO (nC10-<nC25) RRO (nC25-nC36) n-Triacontane-d62 o-Terphenyl	500 mg/L 500 mg/L 20.08 mg/L 19.92 mg/L
.TPH-IC*_10000_00001	03/31/19	03/11/19	DCM, Lot CT#160	10 mL	TPH Spike_RZ_00102	2 mL	DRO (nC10-<nC25) RRO (nC25-nC36)	10000 mg/L 10000 mg/L
					TPH_SURR_00042	4 mL	n-Triacontane-d62 o-Terphenyl	401.6 mg/L 398.4 mg/L
..TPH Spike_RZ_00102	11/30/23		Restek, Lot A0122303		(Purchased Reagent)		DRO (nC10-<nC25) RRO (nC25-nC36)	50000 ug/mL 50000 ug/mL
..TPH_SURR_00042	03/31/19	10/10/18	Acetone/DCM, Lot 179319/CT#141	500 mL	nC30d62_00016	0.502 g	n-Triacontane-d62	1004 mg/L
...nC30d62_00016	06/04/23		Aldrich, Lot MBBC4347		(Purchased Reagent)		n-Triacontane-d62	100 %
...oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
TPH-IC*_500_00006	10/01/19	07/07/19	DCM, Lot CT#161	100 mL	TPH-IC*_10000_00004	5000 uL	DRO (nC10-<nC25) RRO (nC25-nC36) n-Triacontane-d62 o-Terphenyl	500 mg/L 500 mg/L 10.04 mg/L 9.96 mg/L
.TPH-IC*_10000_00004	10/01/19	07/07/19	DCM, Lot CT#161	10 mL	TPH Spike_RZ_00102	2 mL	DRO (nC10-<nC25) RRO (nC25-nC36)	10000 mg/L 10000 mg/L
					TPH_SURR_00044	2 mL	n-Triacontane-d62 o-Terphenyl	200.8 mg/L 199.2 mg/L
..TPH Spike_RZ_00102	11/30/23		Restek, Lot A0122303		(Purchased Reagent)		DRO (nC10-<nC25) RRO (nC25-nC36)	50000 ug/mL 50000 ug/mL
..TPH_SURR_00044	10/01/19	04/01/19	Acetone/DCM, Lot 179319/CT#141	500 mL	nC30d62_00016	0.502 g	n-Triacontane-d62	1004 mg/L
...nC30d62_00016	06/04/23		Aldrich, Lot MBBC4347		(Purchased Reagent)		n-Triacontane-d62	100 %
...oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
TPH-IC_10000_00075	10/01/19	04/02/19	DCM, Lot CT#153	10 mL	TPH_SURR_00044	4 mL	n-Triacontane-d62 o-Terphenyl	401.6 mg/L 398.4 mg/L
.TPH_SURR_00044	10/01/19	04/01/19	Acetone/DCM, Lot 179319/CT#141	500 mL	nC30d62_00016	0.502 g	n-Triacontane-d62	1004 mg/L
..nC30d62_00016	06/04/23		Aldrich, Lot MBBC4347		(Purchased Reagent)		n-Triacontane-d62	100 %
..oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
TPH-IC_10000_00075	10/01/19	04/02/19	DCM, Lot CT#153	10 mL	#2Diesel Accu_00014	2 mL	DRO (nC10-<nC25)	10000 mg/L
..#2Diesel Accu_00014	10/12/28		Accustandard, Lot 218101242		MotorOil Accu_00016	2 mL	RRO (nC25-nC36)	10000 mg/L
					(Purchased Reagent)		DRO (nC10-<nC25)	50 mg/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MotorOil Accu 00016	07/19/28		Accustandard, Lot 216011208			(Purchased Reagent)	RRO (nC25-nC36)	50 mg/mL
TPH-ICV_500_00050	03/31/19	05/23/18	DCM, Lot CT#124	10 mL	C30-d62 ultra 00001	100 uL	n-Triacontane-d62	20 mg/L
.C30-d62 ultra 00001	05/31/22		Ultra, Lot CS-1828		TPH_SURR_00039	200 uL	o-Terphenyl	20.4 mg/L
.TPH_SURR_00039	03/31/19	05/05/18	Acetone/DCM, Lot 133024/CT#123	100 mL	oterphenyl_00011	0.102 g	n-Triacontane-d62	2000 ug/mL
..oterphenyl 00011	03/02/23		Aldrich, Lot MKBV3687V				o-Terphenyl	1020 mg/L
TPH-ICV_500_00050	03/31/19	05/23/18	DCM, Lot CT#124	10 mL	TPH Spike_RZ_00102	100 uL	(Purchased Reagent)	100 %
.TPH Spike_RZ_00102	11/30/23		Restek, Lot A0122303				DRO (nC10-<nC25)	500 mg/L
							RRO (nC25-nC36)	500 mg/L
							DRO (nC10-<nC25)	50000 ug/mL
							RRO (nC25-nC36)	50000 ug/mL
TPH-RTC_00050	10/01/19	04/02/19	DCM, Lot CT#146	25 mL	TPH_SURR_00044	1 mL	n-Triacontane-d62	40.16 ug/mL
.TPH_SURR_00044	10/01/19	04/01/19	Acetone/DCM, Lot 179319/CT#141	500 mL	nc30d62_00016	0.502 g	o-Terphenyl	39.84 ug/mL
..nc30d62_00016	06/04/23		Aldrich, Lot MBBC4347		oterphenyl_00011	0.498 g	n-Triacontane-d62	1004 mg/L
..oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V				o-Terphenyl	996 mg/L
TPH_Water_Spk_00022	11/30/23	03/07/19	Acetone/DCM, Lot 179319/CT#160	100 mL	TPH Spike_RZ_00102	10 mL	(Purchased Reagent)	100 %
							#2 Diesel Fuel	5000 mg/L
							C10-C15	5000 mg/L
							C10-C24	5000 mg/L
							C10-C28	5000 mg/L
							C10-C36	5000 mg/L
							C12-C24	5000 mg/L
							C15-C24	5000 mg/L
							C16-C36	5000 mg/L
							C18-C36	5000 mg/L
							C24-C32	5000 mg/L
							C24-C36	5000 mg/L
							C24-C40	5000 mg/L
							C28-C40	5000 mg/L
							DRO (nC10-<nC25)	5000 mg/L
							Motor Oil	5000 mg/L
							RRO (nC25-nC36)	5000 mg/L
.TPH Spike_RZ_00102	11/30/23		Restek, Lot A0122303				(Purchased Reagent)	50000 ug/mL
							#2 Diesel Fuel	50000 ug/mL
							C10-C15	50000 ug/mL
							C10-C24	50000 ug/mL
							C10-C28	50000 ug/mL
							C10-C36	50000 ug/mL
							C12-C24	50000 ug/mL
							C15-C24	50000 ug/mL
							C16-C36	50000 ug/mL
							C18-C36	50000 ug/mL
							C24-C32	50000 ug/mL
							C24-C36	50000 ug/mL
							C24-C40	50000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-87636-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							C28-C40	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
							Motor Oil	50000 ug/mL
							RRO (nC25-nC36)	50000 ug/mL
TPH_WaterSurr_00048	10/01/19	06/17/19	DCM, Lot CT#160	100 mL	TPH_SURR_00044	10 mL	4-Bromofluorobenzene (Surr)	103.6 mg/L
							n-Triacontane-d62	100.4 mg/L
							o-Terphenyl	99.6 mg/L
.TPH_SURR_00044	10/01/19	04/01/19	Acetone/DCM, Lot 179319/CT#141	500 mL	BFBNeat_00009	0.518 g	4-Bromofluorobenzene (Surr)	1036 mg/L
					nC30d62_00016	0.502 g	n-Triacontane-d62	1004 mg/L
					oterphenyl_00011	0.498 g	o-Terphenyl	996 mg/L
..BFBNeat_00009	10/01/19		Aldrich, Lot 20401KOV		(Purchased Reagent)		4-Bromofluorobenzene (Surr)	1000000 ug/mL
..nC30d62_00016	06/04/23		Aldrich, Lot MBBC4347		(Purchased Reagent)		n-Triacontane-d62	100 %
..oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
V2.4TFT-EX_00035	03/12/20	05/30/19	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_00036	03/12/20	06/19/19	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_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
VOAMasterMix_00040	08/31/19	06/27/19	MeOH, Lot 198123	50 mL	8260 L2/S7_00015	1000 uL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VOAR2CEVE_00018	1 mL	2-Chloroethyl vinyl ether	50 ug/mL
					VOARAcrolein_00052	750 uL	Acrolein	300 ug/mL
					VOARADDCOM_00023	1000 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VOARGAS_00020	1 mL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
					VOARKETON_00020	1 mL	2-Butanone (MEK)	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-87636-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	250 ug/mL
							4-Methyl-2-pentanone (MIBK)	250 ug/mL
							Acetone	250 ug/mL
					VOARMegMix__00031	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-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
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	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
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 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_00016	1250 uL	Acetonitrile	625 ug/mL
							Isopropyl ether	62.5 ug/mL
							Propionitrile	625 ug/mL
							Tert-amyl methyl ether	62.5 ug/mL
							Tert-butyl ethyl ether	62.5 ug/mL
					VOARVA_00041	1250 uL	Vinyl acetate	125 ug/mL
.8260 L2/S7_00015	05/31/20		Restek, Lot A0143198			(Purchased Reagent)	Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.VOAR2CEVE_00018	12/31/20		Restek, Lot A0133302			(Purchased Reagent)	2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcrolein_00052	09/30/19		Restek, Lot A0146613			(Purchased Reagent)	Acrolein	20000 ug/mL
.VOARADDCOM_00023	07/31/20		Restek, Lot A0145375			(Purchased Reagent)	1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.VOARGAS_00020	09/30/21		Restek, Lot A0141380			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOARKETON__00020	04/30/21		Restek, Lot A0137509			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VOARMegMix__00031	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-Dichlorobenzene	2500 ug/mL
							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
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	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
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 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__00016	01/31/21		Restek, Lot A0144915			(Purchased Reagent)	Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VOARVA 00041	08/31/19		Restek, Lot A0145775			(Purchased Reagent)	Vinyl acetate	5000 ug/mL
VOAMasterSEC_00033	08/31/19	06/27/19	MeOH, Lot 198123	25 mL	VOASMegMix2__00021	500 uL	Benzene	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							o-Xylene	50 ug/mL
							Toluene	50 ug/mL
.VOASMegMix2__00021	06/30/21		Restek, Lot A0144202			(Purchased Reagent)	Benzene	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	2500 ug/mL
							Toluene	2500 ug/mL

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-87636-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): DB-VRX ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TFT #	TOL #	BFB #
G-7-W-190710	580-87636-1	96	98	100	102	90
G-8-W-190710	580-87636-2	98	99	98	104	90
EQB-1-W-190710	580-87636-3	97	98	99	106	89
G-3-W-190710	580-87636-4	88	88	97	103	108
G-3-W-190710 DL	580-87636-4 DL	104	110	96	107	103
G1-R-W-190710	580-87636-5	100	98	98	104	92
G-4-W-190710	580-87636-6	87	88	94	107	107
G-4-W-190710 DL	580-87636-6 DL	101	112	95	107	100
G-4-W-190710 DL2	580-87636-6 DL2	100	110	96	108	104
G-5-W-190710 DL	580-87636-7 DL	104	120	100	108	103
G-5-W-190710 DL2	580-87636-7 DL2	99	114	97	107	102
MW-301D-W-190710	580-87636-8	99	102	98	105	92
MW-301D-W-190710	580-87636-8	100	118	97	108	100
MW-304D-W-190710	580-87636-9	100	99	99	104	94
BD-1-W-190710	580-87636-10	98	99	101	105	94
TRIP BLANK	580-87636-11	95	99	102	103	92
	MB 580-305636/7	95	98	102	103	92
	MB 580-305938/7	96	99	99	103	90
	MB 580-306136/7	103	111	99	110	97
	LCS 580-305636/4	97	99	101	102	96
	LCS 580-305938/4	100	96	100	102	94
	LCS 580-306136/4	103	106	96	106	101
	LCSD 580-305636/5	101	99	101	104	98
	LCSD 580-305938/5	100	97	100	104	93
	LCSD 580-306136/5	101	107	95	101	94
MW-304D-W-190710 MS	580-87636-9 MS	100	100	100	105	95
MW-304D-W-190710 MSD	580-87636-9 MSD	99	99	100	104	95

QC LIMITS

DBFM = Dibromofluoromethane (Surr)	80-120
DCA = 1,2-Dichloroethane-d4 (Surr)	80-126
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.: 580-87636-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 071519_0004.D

Lab ID: LCS 580-305636/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	10.0	9.47	95	75-121	
Toluene	10.0	8.92	89	80-120	
Ethylbenzene	10.0	9.22	92	80-120	
m-Xylene & p-Xylene	10.0	9.04	90	80-120	
o-Xylene	10.0	9.92	99	80-120	

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.: 580-87636-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 071719_0017.D

Lab ID: LCS 580-305938/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	10.0	9.96	100	75-121	
Toluene	10.0	9.21	92	80-120	
Ethylbenzene	10.0	9.34	93	80-120	
m-Xylene & p-Xylene	10.0	9.15	91	80-120	
o-Xylene	10.0	10.1	101	80-120	

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.: 580-87636-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 071919004.D

Lab ID: LCS 580-306136/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	10.0	9.29	93	75-121	
Toluene	10.0	11.0	110	80-120	
Ethylbenzene	10.0	10.8	108	80-120	
m-Xylene & p-Xylene	10.0	11.1	111	80-120	
o-Xylene	10.0	11.3	113	80-120	

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.: 580-87636-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 071519_0005.D
 Lab ID: LCSD 580-305636/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Benzene	10.0	9.65	97	2	14	75-121	
Toluene	10.0	9.04	90	1	19	80-120	
Ethylbenzene	10.0	9.39	94	2	14	80-120	
m-Xylene & p-Xylene	10.0	9.30	93	3	14	80-120	
o-Xylene	10.0	10.1	101	2	16	80-120	

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.: 580-87636-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 071719_0018.D
 Lab ID: LCSD 580-305938/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Benzene	10.0	9.82	98	1	14	75-121	
Toluene	10.0	9.20	92	0	19	80-120	
Ethylbenzene	10.0	9.29	93	1	14	80-120	
m-Xylene & p-Xylene	10.0	9.17	92	0	14	80-120	
o-Xylene	10.0	9.90	99	2	16	80-120	

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.: 580-87636-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 071919005.D
 Lab ID: LCSD 580-306136/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Benzene	10.0	9.27	93	0	14	75-121	
Toluene	10.0	9.98	100	10	19	80-120	
Ethylbenzene	10.0	9.98	100	7	14	80-120	
m-Xylene & p-Xylene	10.0	10.1	101	10	14	80-120	
o-Xylene	10.0	10.2	102	10	16	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 071719_0035.D

Lab ID: 580-87636-9 MS Client ID: MW-304D-W-190710 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	10.0	ND	5.50	55	75-121	F1
Toluene	10.0	ND	4.68	47	80-120	F1
Ethylbenzene	10.0	ND	4.42	44	80-120	F1
m-Xylene & p-Xylene	10.0	0.94 J	4.83	39	80-120	F1
o-Xylene	10.0	ND	4.70	47	80-120	F1

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 071719_0036.D
 Lab ID: 580-87636-9 MSD Client ID: MW-304D-W-190710 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Benzene	10.0	5.79	58	5	14	75-121	F1
Toluene	10.0	4.73	47	1	19	80-120	F1
Ethylbenzene	10.0	4.40	44	1	14	80-120	F1
m-Xylene & p-Xylene	10.0	4.50	36	7	14	80-120	F1
o-Xylene	10.0	4.79	48	2	16	80-120	F1

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.: 580-87636-1
 SDG No.: _____
 Lab File ID: 071519_0007.D Lab Sample ID: MB 580-305636/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: SEA102 Date Analyzed: 07/15/2019 14:47
 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 580-305636/4	071519_0004 .D	07/15/2019 13:31
	LCSD 580-305636/5	071519_0005 .D	07/15/2019 13:56
TRIP BLANK	580-87636-11	071519_0009 .D	07/15/2019 15:52

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab File ID: 071719_0020.D Lab Sample ID: MB 580-305938/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: SEA102 Date Analyzed: 07/17/2019 19:52
 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 580-305938/4	071719_0017 .D	07/17/2019 18:37
	LCSD 580-305938/5	071719_0018 .D	07/17/2019 19:02
G-7-W-190710	580-87636-1	071719_0026 .D	07/17/2019 22:23
G-8-W-190710	580-87636-2	071719_0027 .D	07/17/2019 22:49
EQB-1-W-190710	580-87636-3	071719_0028 .D	07/17/2019 23:13
G-3-W-190710	580-87636-4	071719_0029 .D	07/17/2019 23:38
G1-R-W-190710	580-87636-5	071719_0030 .D	07/18/2019 00:03
G-4-W-190710	580-87636-6	071719_0031 .D	07/18/2019 00:29
MW-301D-W-190710	580-87636-8	071719_0033 .D	07/18/2019 01:19
MW-304D-W-190710	580-87636-9	071719_0034 .D	07/18/2019 01:44
MW-304D-W-190710 MS	580-87636-9 MS	071719_0035 .D	07/18/2019 02:09
MW-304D-W-190710 MSD	580-87636-9 MSD	071719_0036 .D	07/18/2019 02:34
BD-1-W-190710	580-87636-10	071719_0037 .D	07/18/2019 02:59

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab File ID: 071919007.D Lab Sample ID: MB 580-306136/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: TAC001 Date Analyzed: 07/19/2019 13:00
 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 580-306136/4	071919004.D	07/19/2019 11:47
	LCSD 580-306136/5	071919005.D	07/19/2019 12:11
MW-301D-W-190710	580-87636-8	071919009.D	07/19/2019 13:49
G-3-W-190710 DL	580-87636-4 DL	071919016.D	07/19/2019 16:41
G-4-W-190710 DL2	580-87636-6 DL2	071919017.D	07/19/2019 17:05
G-4-W-190710 DL	580-87636-6 DL	071919018.D	07/19/2019 17:30
G-5-W-190710 DL2	580-87636-7 DL2	071919019.D	07/19/2019 17:54
G-5-W-190710 DL	580-87636-7 DL	071919020.D	07/19/2019 18:18

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab File ID: 070119_0006.D BFB Injection Date: 07/01/2019
 Instrument ID: SEA102 BFB Injection Time: 15:02
 Analysis Batch No.: 304544

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.6	
75	30.0 - 60.0 % of mass 95	53.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	50.0 - 120.00 % of mass 95	89.5	
175	5.0 - 9.0 % of mass 174	6.4	(7.2) 1
176	95.0 - 101.0 % of mass 174	85.7	(95.8) 1
177	5.0 - 9.0 % of mass 176	6.0	(7.0) 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
	IC 580-304544/2	070119_0007. D	07/01/2019	15:27
	IC 580-304544/3	070119_0008. D	07/01/2019	15:52
	IC 580-304544/4	070119_0009. D	07/01/2019	16:17
	IC 580-304544/5	070119_0010. D	07/01/2019	16:41
	IC 580-304544/6	070119_0011. D	07/01/2019	17:06
	ICIS 580-304544/7	070119_0012. D	07/01/2019	17:31
	IC 580-304544/8	070119_0013. D	07/01/2019	17:55
	IC 580-304544/9	070119_0014. D	07/01/2019	18:20
	IC 580-304544/10	070119_0015. D	07/01/2019	18:45
	IC 580-304544/11	070119_0016. D	07/01/2019	19:10
	ICV 580-304544/13	070119_0018. D	07/01/2019	20:00

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab File ID: 071519_0002.D BFB Injection Date: 07/15/2019
 Instrument ID: SEA102 BFB Injection Time: 12:40
 Analysis Batch No.: 305636

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.2
75	30.0 - 60.0 % of mass 95	53.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	1.0 (1.0) 1
174	50.0 - 120.00 % of mass 95	96.3
175	5.0 - 9.0 % of mass 174	7.1 (7.4) 1
176	95.0 - 101.0 % of mass 174	93.1 (96.7) 1
177	5.0 - 9.0 % of mass 176	5.9 (6.3) 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 580-305636/3	071519_0003. D	07/15/2019	13:05
	LCS 580-305636/4	071519_0004. D	07/15/2019	13:31
	LCSD 580-305636/5	071519_0005. D	07/15/2019	13:56
	CCVL 580-305636/6	071519_0006. D	07/15/2019	14:21
	MB 580-305636/7	071519_0007. D	07/15/2019	14:47
TRIP BLANK	580-87636-11	071519_0009. D	07/15/2019	15:52

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab File ID: 071719_0015.D BFB Injection Date: 07/17/2019
 Instrument ID: SEA102 BFB Injection Time: 17:47
 Analysis Batch No.: 305938

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.3
75	30.0 - 60.0 % of mass 95	53.2
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 (0.5) 1
174	50.0 - 120.00 % of mass 95	95.8
175	5.0 - 9.0 % of mass 174	6.5 (6.8) 1
176	95.0 - 101.0 % of mass 174	92.8 (96.9) 1
177	5.0 - 9.0 % of mass 176	5.8 (6.3) 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 580-305938/3	071719_0016. D	07/17/2019	18:12
	LCS 580-305938/4	071719_0017. D	07/17/2019	18:37
	LCSD 580-305938/5	071719_0018. D	07/17/2019	19:02
	CCVL 580-305938/6	071719_0019. D	07/17/2019	19:27
	MB 580-305938/7	071719_0020. D	07/17/2019	19:52
G-7-W-190710	580-87636-1	071719_0026. D	07/17/2019	22:23
G-8-W-190710	580-87636-2	071719_0027. D	07/17/2019	22:49
EQB-1-W-190710	580-87636-3	071719_0028. D	07/17/2019	23:13
G-3-W-190710	580-87636-4	071719_0029. D	07/17/2019	23:38
G1-R-W-190710	580-87636-5	071719_0030. D	07/18/2019	00:03
G-4-W-190710	580-87636-6	071719_0031. D	07/18/2019	00:29
MW-301D-W-190710	580-87636-8	071719_0033. D	07/18/2019	01:19
MW-304D-W-190710	580-87636-9	071719_0034. D	07/18/2019	01:44
MW-304D-W-190710 MS	580-87636-9 MS	071719_0035. D	07/18/2019	02:09
MW-304D-W-190710 MSD	580-87636-9 MSD	071719_0036. D	07/18/2019	02:34
BD-1-W-190710	580-87636-10	071719_0037. D	07/18/2019	02:59

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab File ID: 070119002.D BFB Injection Date: 07/01/2019
 Instrument ID: TAC001 BFB Injection Time: 13:51
 Analysis Batch No.: 304491

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.8	
75	30.0 - 60.0 % of mass 95	52.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	87.4	
175	5.0 - 9.0 % of mass 174	7.2	(8.3) 1
176	95.0 - 101.0 % of mass 174	83.9	(96.0) 1
177	5.0 - 9.0 % of mass 176	5.6	(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
	IC 580-304491/3	070119003.D	07/01/2019	14:16
	IC 580-304491/4	070119004.D	07/01/2019	14:41
	IC 580-304491/5	070119005.D	07/01/2019	15:06
	IC 580-304491/6	070119006.D	07/01/2019	15:31
	IC 580-304491/7	070119007.D	07/01/2019	15:55
	ICIS 580-304491/8	070119008.D	07/01/2019	16:19
	IC 580-304491/9	070119009.D	07/01/2019	16:43
	IC 580-304491/10	070119010.D	07/01/2019	17:08
	IC 580-304491/11	070119011.D	07/01/2019	17:32
	IC 580-304491/12	070119012.D	07/01/2019	17:56
	ICV 580-304491/14	070119014.D	07/01/2019	18:45

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab File ID: 071919002.D BFB Injection Date: 07/19/2019
 Instrument ID: TAC001 BFB Injection Time: 10:58
 Analysis Batch No.: 306136

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	26.7
75	30.0 - 60.0 % of mass 95	53.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	5.8
173	Less than 2.0 % of mass 174	0.7 (0.8) 1
174	50.0 - 120.00 % of mass 95	90.7
175	5.0 - 9.0 % of mass 174	7.2 (7.9) 1
176	95.0 - 101.0 % of mass 174	89.0 (98.1) 1
177	5.0 - 9.0 % of mass 176	6.2 (7.0) 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 580-306136/3	071919003.D	07/19/2019	11:23
	LCS 580-306136/4	071919004.D	07/19/2019	11:47
	LCSD 580-306136/5	071919005.D	07/19/2019	12:11
	CCVL 580-306136/6	071919006.D	07/19/2019	12:36
	MB 580-306136/7	071919007.D	07/19/2019	13:00
MW-301D-W-190710	580-87636-8	071919009.D	07/19/2019	13:49
G-3-W-190710 DL	580-87636-4 DL	071919016.D	07/19/2019	16:41
G-4-W-190710 DL2	580-87636-6 DL2	071919017.D	07/19/2019	17:05
G-4-W-190710 DL	580-87636-6 DL	071919018.D	07/19/2019	17:30
G-5-W-190710 DL2	580-87636-7 DL2	071919019.D	07/19/2019	17:54
G-5-W-190710 DL	580-87636-7 DL	071919020.D	07/19/2019	18:18

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Sample No.: ICIS 580-304544/7 Date Analyzed: 07/01/2019 17:31
 Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm)
 Lab File ID (Standard): 070119_0012.D Heated Purge: (Y/N) N
 Calibration ID: 27984

	TBA _d 9		FB		CBN _{Zd} 5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	135132	6.57	233582	9.50	101189	12.47
UPPER LIMIT		6.74		9.66		12.63
LOWER LIMIT		6.41		9.33		12.30
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 580-304544/13		136492	6.58	230034	9.50	100627 12.47

TBA_d9 = TBA-d9 (IS)

FB = Fluorobenzene (IS)

CBN_{Zd}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.: 580-87636-1
 SDG No.: _____
 Sample No.: ICIS 580-304544/7 Date Analyzed: 07/01/2019 17:31
 Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm)
 Lab File ID (Standard): 070119_0012.D Heated Purge: (Y/N) N
 Calibration ID: 27984

	DCBd4		AREA #	RT #	AREA #	RT #
	AREA #	RT #				
INITIAL CALIBRATION MID-POINT	109066	14.76				
UPPER LIMIT		14.93				
LOWER LIMIT		14.59				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 580-304544/13		110733	14.76			

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.: 580-87636-1
 SDG No.: _____
 Sample No.: CCVIS 580-305636/3 Date Analyzed: 07/15/2019 13:05
 Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm)
 Lab File ID (Standard): 071519_0003.D Heated Purge: (Y/N) N
 Calibration ID: 27984

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	178163	9.50	75643	12.47	88121	14.76	
UPPER LIMIT		9.67		12.63		14.93	
LOWER LIMIT		9.33		12.30		14.59	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 580-305636/4	169371	9.51	73299	12.47	81531	14.76	
LCSD 580-305636/5	174208	9.50	73190	12.47	84214	14.76	
CCVL 580-305636/6	168204	9.51	70421	12.47	77358	14.76	
MB 580-305636/7	163832	9.50	68840	12.47	71429	14.76	
580-87636-11	TRIP BLANK	162025	9.50	69563	12.47	73153	14.76

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.: 580-87636-1
 SDG No.: _____
 Sample No.: CCVIS 580-305938/3 Date Analyzed: 07/17/2019 18:12
 Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm)
 Lab File ID (Standard): 071719_0016.D Heated Purge: (Y/N) N
 Calibration ID: 27984

	TBA _d 9		FB		CBN _Z d ₅	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD			169200	9.41	71368	12.38
UPPER LIMIT				9.58		12.54
LOWER LIMIT				9.25		12.21
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 580-305938/4			173441	9.42	71520	12.37
LCSD 580-305938/5			170815	9.42	69760	12.37
CCVL 580-305938/6			159557	9.42	65216	12.37
MB 580-305938/7	79952	6.50	155743	9.42	64404	12.37
580-87636-1	G-7-W-190710		156436	9.42	64785	12.37
580-87636-2	G-8-W-190710		158637	9.42	64189	12.37
580-87636-3	EQB-1-W-190710		156557	9.42	64886	12.37
580-87636-4	G-3-W-190710		180136	9.42	73192	12.38
580-87636-5	G1-R-W-190710		156501	9.42	63341	12.37
580-87636-6	G-4-W-190710		188021	9.42	70040	12.37
580-87636-8	MW-301D-W-190710		192206	9.42	76233	12.37
580-87636-9	MW-304D-W-190710		165908	9.42	68632	12.37
580-87636-9 MS	MW-304D-W-190710 MS		164055	9.41	65718	12.38
580-87636-9 MSD	MW-304D-W-190710 MSD		162948	9.42	66788	12.37
580-87636-10	BD-1-W-190710		162862	9.42	66456	12.37

FB = Fluorobenzene (IS)

CBN_Zd₅ = Chlorobenzene-d₅

Area Limit = 50%-200% of internal standard area

TBA_d9 RT Limit = ± 0 minutes of surrogate RT

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.: 580-87636-1
 SDG No.: _____
 Sample No.: CCVIS 580-305938/3 Date Analyzed: 07/17/2019 18:12
 Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm)
 Lab File ID (Standard): 071719_0016.D Heated Purge: (Y/N) N
 Calibration ID: 27984

		DCBd4					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		78098	14.67				
UPPER LIMIT			14.84				
LOWER LIMIT			14.50				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 580-305938/4		79410	14.67				
LCSD 580-305938/5		77619	14.67				
CCVL 580-305938/6		70482	14.67				
MB 580-305938/7		65947	14.67				
580-87636-1	G-7-W-190710	68011	14.67				
580-87636-2	G-8-W-190710	67311	14.67				
580-87636-3	EQB-1-W-190710	67136	14.67				
580-87636-4	G-3-W-190710	96800	14.67				
580-87636-5	G1-R-W-190710	65836	14.67				
580-87636-6	G-4-W-190710	89853	14.67				
580-87636-8	MW-301D-W-190710	78750	14.67				
580-87636-9	MW-304D-W-190710	74413	14.67				
580-87636-9 MS	MW-304D-W-190710 MS	72912	14.67				
580-87636-9 MSD	MW-304D-W-190710 MSD	72739	14.67				
580-87636-10	BD-1-W-190710	72550	14.67				

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.: 580-87636-1
 SDG No.: _____
 Sample No.: ICIS 580-304491/8 Date Analyzed: 07/01/2019 16:19
 Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm)
 Lab File ID (Standard): 070119008.D Heated Purge: (Y/N) N
 Calibration ID: 27978

	TBA _d 9		FB		CBN _{Zd} 5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	328391	6.05	618452	8.97	588632	11.87
UPPER LIMIT		6.21		9.14		12.04
LOWER LIMIT		5.88		8.80		11.71
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 580-304491/14		378193	6.05	681186	8.97	649219
						11.87

TBA_d9 = TBA-d9 (IS)

FB = Fluorobenzene (IS)

CBN_{Zd}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.: 580-87636-1
 SDG No.: _____
 Sample No.: ICIS 580-304491/8 Date Analyzed: 07/01/2019 16:19
 Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm)
 Lab File ID (Standard): 070119008.D Heated Purge: (Y/N) N
 Calibration ID: 27978

	DCBd4		AREA #	RT #	AREA #	RT #
	AREA #	RT #				
INITIAL CALIBRATION MID-POINT	323502	14.21				
UPPER LIMIT		14.38				
LOWER LIMIT		14.05				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 580-304491/14		342124	14.21			

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.: 580-87636-1
 SDG No.: _____
 Sample No.: CCVIS 580-306136/3 Date Analyzed: 07/19/2019 11:23
 Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm)
 Lab File ID (Standard): 071919003.D Heated Purge: (Y/N) N
 Calibration ID: 27978

	FB		CBNZd5		DCBd4			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	565145	8.97	512463	11.88	277977	14.22		
UPPER LIMIT	1130290	9.14		12.04	555954	14.39		
LOWER LIMIT	282573	8.81		11.71	138989	14.05		
LAB SAMPLE ID	CLIENT SAMPLE ID							
LCS 580-306136/4			562690	8.97	483384	11.88	267206	14.21
LCSD 580-306136/5			532353	8.97	489635	11.87	259993	14.21
CCVL 580-306136/6			515532	8.97	439057	11.87	239781	14.21
MB 580-306136/7			508776	8.97	429369	11.87	226945	14.21
580-87636-8		MW-301D-W-190710	492043	8.97	424804	11.88	225354	14.21
580-87636-4 DL		G-3-W-190710 DL	525624	8.97	449794	11.87	258402	14.21
580-87636-6 DL2		G-4-W-190710 DL2	510878	8.97	429689	11.87	235499	14.21
580-87636-6 DL		G-4-W-190710 DL	487309	8.97	419503	11.87	234305	14.21
580-87636-7 DL2		G-5-W-190710 DL2	515986	8.97	445593	11.88	244852	14.21
580-87636-7 DL		G-5-W-190710 DL	493655	8.97	429379	11.87	244059	14.21

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.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-7-W-190710 Lab Sample ID: 580-87636-1
 Matrix: Water Lab File ID: 071719_0026.D
 Analysis Method: 8260C Date Collected: 07/10/2019 08:30
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 22:23
 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.: 305938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	4.5		3.0	0.53
108-88-3	Toluene	ND		2.0	0.39
100-41-4	Ethylbenzene	2.6	J	3.0	0.50
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
95-47-6	o-Xylene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
98-08-8	Trifluorotoluene (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-8-W-190710 Lab Sample ID: 580-87636-2
 Matrix: Water Lab File ID: 071719_0027.D
 Analysis Method: 8260C Date Collected: 07/10/2019 09:20
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 22:49
 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.: 305938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		3.0	0.53
108-88-3	Toluene	ND		2.0	0.39
100-41-4	Ethylbenzene	ND		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
95-47-6	o-Xylene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
98-08-8	Trifluorotoluene (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: EQB-1-W-190710 Lab Sample ID: 580-87636-3
 Matrix: Water Lab File ID: 071719_0028.D
 Analysis Method: 8260C Date Collected: 07/10/2019 10:00
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 23:13
 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.: 305938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		3.0	0.53
108-88-3	Toluene	ND		2.0	0.39
100-41-4	Ethylbenzene	ND		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
95-47-6	o-Xylene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	106		80-120
98-08-8	Trifluorotoluene (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-3-W-190710 Lab Sample ID: 580-87636-4
 Matrix: Water Lab File ID: 071719_0029.D
 Analysis Method: 8260C Date Collected: 07/10/2019 10:20
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 23:38
 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.: 305938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	80		2.0	0.39
95-47-6	o-Xylene	42		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
98-08-8	Trifluorotoluene (Surr)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	108		80-120
1868-53-7	Dibromofluoromethane (Surr)	88		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-3-W-190710 DL Lab Sample ID: 580-87636-4 DL
 Matrix: Water Lab File ID: 071919016.D
 Analysis Method: 8260C Date Collected: 07/10/2019 10:20
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2019 16:41
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 306136 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	680		30	5.3
100-41-4	Ethylbenzene	470		30	5.0
179601-23-1	m-Xylene & p-Xylene	850		30	7.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	107		80-120
98-08-8	Trifluorotoluene (Surr)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G1-R-W-190710 Lab Sample ID: 580-87636-5
 Matrix: Water Lab File ID: 071719_0030.D
 Analysis Method: 8260C Date Collected: 07/10/2019 11:00
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 00:03
 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.: 305938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		3.0	0.53
108-88-3	Toluene	ND		2.0	0.39
100-41-4	Ethylbenzene	ND		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
95-47-6	o-Xylene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
98-08-8	Trifluorotoluene (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-4-W-190710 Lab Sample ID: 580-87636-6
 Matrix: Water Lab File ID: 071719_0031.D
 Analysis Method: 8260C Date Collected: 07/10/2019 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 00:29
 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.: 305938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	7.5		2.0	0.39
95-47-6	o-Xylene	53		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	107		80-120
98-08-8	Trifluorotoluene (Surr)	94		80-120
460-00-4	4-Bromofluorobenzene (Surr)	107		80-120
1868-53-7	Dibromofluoromethane (Surr)	87		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-4-W-190710 DL Lab Sample ID: 580-87636-6 DL
 Matrix: Water Lab File ID: 071919018.D
 Analysis Method: 8260C Date Collected: 07/10/2019 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2019 17:30
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 306136 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	650		30	5.0
179601-23-1	m-Xylene & p-Xylene	780		30	7.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	107		80-120
98-08-8	Trifluorotoluene (Surr)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-4-W-190710 DL2 Lab Sample ID: 580-87636-6 DL2
 Matrix: Water Lab File ID: 071919017.D
 Analysis Method: 8260C Date Collected: 07/10/2019 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2019 17:05
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 306136 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1800		150	27

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	108		80-120
98-08-8	Trifluorotoluene (Surr)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-5-W-190710 DL Lab Sample ID: 580-87636-7 DL
 Matrix: Water Lab File ID: 071919020.D
 Analysis Method: 8260C Date Collected: 07/10/2019 13:45
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2019 18:18
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 306136 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	100	J	150	27
108-88-3	Toluene	240		100	20
100-41-4	Ethylbenzene	1300		150	25
95-47-6	o-Xylene	3200		100	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	108		80-120
98-08-8	Trifluorotoluene (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-5-W-190710 DL2 Lab Sample ID: 580-87636-7 DL2
 Matrix: Water Lab File ID: 071919019.D
 Analysis Method: 8260C Date Collected: 07/10/2019 13:45
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2019 17:54
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: DB-VRX ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 306136 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
179601-23-1	m-Xylene & p-Xylene	8000		300	75

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	107		80-120
98-08-8	Trifluorotoluene (Surr)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: MW-301D-W-190710 Lab Sample ID: 580-87636-8
 Matrix: Water Lab File ID: 071719_0033.D
 Analysis Method: 8260C Date Collected: 07/10/2019 14:30
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 01:19
 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.: 305938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		3.0	0.53
108-88-3	Toluene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	105		80-120
98-08-8	Trifluorotoluene (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: MW-301D-W-190710 Lab Sample ID: 580-87636-8
 Matrix: Water Lab File ID: 071919009.D
 Analysis Method: 8260C Date Collected: 07/10/2019 14:30
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2019 13:49
 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.: 306136 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	ND		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
95-47-6	o-Xylene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	108		80-120
98-08-8	Trifluorotoluene (Surr)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: MW-304D-W-190710 Lab Sample ID: 580-87636-9
 Matrix: Water Lab File ID: 071719_0034.D
 Analysis Method: 8260C Date Collected: 07/10/2019 15:15
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 01:44
 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.: 305938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND	F1	3.0	0.53
108-88-3	Toluene	ND	F1	2.0	0.39
100-41-4	Ethylbenzene	ND	F1	3.0	0.50
179601-23-1	m-Xylene & p-Xylene	0.94	J F1	3.0	0.75
95-47-6	o-Xylene	ND	F1	2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
98-08-8	Trifluorotoluene (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: BD-1-W-190710 Lab Sample ID: 580-87636-10
 Matrix: Water Lab File ID: 071719_0037.D
 Analysis Method: 8260C Date Collected: 07/10/2019 00:01
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 02:59
 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.: 305938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		3.0	0.53
108-88-3	Toluene	ND		2.0	0.39
100-41-4	Ethylbenzene	ND		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
95-47-6	o-Xylene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	105		80-120
98-08-8	Trifluorotoluene (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 580-87636-11
 Matrix: Water Lab File ID: 071519_0009.D
 Analysis Method: 8260C Date Collected: 07/10/2019 00:01
 Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2019 15:52
 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.: 305636 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		3.0	0.53
108-88-3	Toluene	ND		2.0	0.39
100-41-4	Ethylbenzene	ND		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
95-47-6	o-Xylene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
98-08-8	Trifluorotoluene (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-126

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27 Calibration End Date: 07/01/2019 19:10 Calibration ID: 27984

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-304544/2	070119_0007.D
Level 2	IC 580-304544/3	070119_0008.D
Level 3	IC 580-304544/4	070119_0009.D
Level 4	IC 580-304544/5	070119_0010.D
Level 5	IC 580-304544/6	070119_0011.D
Level 6	ICIS 580-304544/7	070119_0012.D
Level 7	IC 580-304544/8	070119_0013.D
Level 8	IC 580-304544/9	070119_0014.D
Level 9	IC 580-304544/10	070119_0015.D
Level 10	IC 580-304544/11	070119_0016.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	1.2366 1.0807	1.1699 1.0205	1.2489 1.0165	1.1119 1.0324	1.1417 0.9135	Ave		1.0973			0.1000	9.6		20.0			
Chloromethane	0.4768 0.4034	0.4369 0.3900	0.4466 0.3970	0.4164 0.3928	0.4242 0.3736	Ave		0.4158			0.1000	7.5		20.0			
Vinyl chloride	1.3181 1.0349	1.2100 1.0581	1.0668 1.0469	1.0954 1.0616	1.0906 0.9821	Ave		1.0965			0.1000	8.9		20.0			
Butadiene	++++ 0.4173	0.4427 0.4271	0.4572 0.4347	0.4480 0.4216	0.4431 0.4029	Ave		0.4327				3.9		20.0			
Bromomethane	1.0655 0.7556	1.0213 0.7359	0.8822 0.7368	0.7754 0.7509	0.7792 0.7217	Lin2	0.1834	0.7509			0.1000	5.5		0.9970		0.9900	
Chloroethane	0.3932 0.2386	0.3119 0.2375	0.2773 0.2447	0.2412 0.2420	0.2513 0.2410	Lin2	0.0766	0.2380			0.0600	2.4		0.9990		0.9900	
Dichlorofluoromethane	0.7909 0.6113	0.7681 0.6161	0.6681 0.6257	0.6345 0.6339	0.6526 0.6282	Ave		0.6629				9.6		20.0			
Acrolein	0.2088 0.1071	0.1418 0.1007	0.1095 0.1019	0.1049 0.1079	0.1087 0.1077	Qua2	0.3239	0.0946	0.0000169			7.5		0.9950		0.9900	
Acetonitrile	0.1017 0.0423	0.0701 0.0375	0.0471 0.0388	0.0415 0.0404	0.0443 0.0386	Lin2	0.3900	0.0381				8.1		0.9930		0.9900	
Trichlorofluoromethane	1.7050 1.4546	1.6586 1.4457	1.5796 1.5048	1.5282 1.5195	1.5243 1.4524	Ave		1.5373			0.1000	5.7		20.0			
Isopropyl alcohol	++++ 0.0219	0.0392 0.0181	0.0254 0.0184	0.0203 0.0205	0.0197	Lin1	0.1654	0.0193				10.8		0.9970		0.9900	
Acetone	0.2353 0.0907	0.1536 0.0803	0.1016 0.0834	0.0916 0.0892	0.0951 0.0829	Lin2	0.3716	0.0814			0.0200	9.4		0.9900		0.9900	
Ethyl ether	0.3156 0.2284	0.2109 0.1739	0.2526 0.1984	0.1784 0.1967	0.1806 0.1908	Lin1	0.0524	0.1922				13.1		0.9960		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.: 580-87636-1 Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27 Calibration End Date: 07/01/2019 19:10 Calibration ID: 27984

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	0.7322	0.5150	0.5734	0.5137	0.5102	Lin2	0.0991	0.4985		0.1000	7.1			0.9940		0.9900	
	0.4896	0.4927	0.5043	0.5299	0.5102												
t-Butyl alcohol	++++	0.0433	0.0313	0.0259	0.0260	Lin2	0.1626	0.0253			8.8			0.9910		0.9900	
	0.0274	0.0249	0.0239	0.0282	0.0281												
Acrylonitrile	0.1060	0.0813	0.0748	0.0690	0.0678	Lin2	0.1632	0.0697			6.3			0.9960		0.9900	
	0.0719	0.0684	0.0698	0.0767	0.0751												
Iodomethane	0.5151	0.4869	0.4832	0.4533	0.4572	Ave		0.4987			7.8	20.0					
	0.4596	0.4943	0.5240	0.5474	0.5659												
Methylene Chloride	0.5954	0.4246	0.3240	0.2931	0.2752	Lin2	0.1561	0.2727		0.1000	6.1			0.9960		0.9900	
	0.2683	0.2817	0.2882	0.2890	0.2962												
Methyl acetate	0.2218	0.2018	0.1791	0.1651	0.1622	Ave		0.1796		0.1000	10.6	20.0					
	0.1700	0.1717	0.1639	0.1870	0.1737												
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5808	0.5430	0.5544	0.4981	0.4786	Ave		0.4882		0.1000	11.1	20.0					
	0.4686	0.4465	0.4479	0.4416	0.4223												
3-Chloro-1-propene	0.4109	0.3600	0.3519	0.3188	0.3212	Ave		0.3369			8.9	20.0					
	0.3150	0.3193	0.3219	0.3287	0.3216												
Carbon disulfide	1.4502	1.0649	0.8969	0.8452	0.8133	Lin2	0.3044	0.8029		0.1000	5.1			0.9970		0.9900	
	0.7886	0.8164	0.8508	0.8526	0.8371												
trans-1,2-Dichloroethene	0.3430	0.2779	0.2799	0.2519	0.2447	Ave		0.2650		0.1000	11.5	20.0					
	0.2359	0.2517	0.2545	0.2520	0.2587												
Methyl tert-butyl ether	0.8985	0.7935	0.7334	0.7066	0.6736	Ave		0.7438		0.1000	8.4	20.0					
	0.7291	0.7067	0.7266	0.7497	0.7205												
Propionitrile	0.0711	0.0495	0.0359	0.0318	0.0318	Lin2	0.2363	0.0314			9.3			0.9900		0.9900	
	0.0341	0.0317	0.0318	0.0351	0.0345												
1,1-Dichloroethane	1.2424	1.1338	1.0739	1.0237	0.9795	Ave		1.0433		0.2000	8.2	20.0					
	0.9780	0.9839	0.9972	1.0191	1.0018												
Vinyl acetate	0.0448	0.0401	0.0323	0.0326	0.0318	Ave		0.0350			12.9	20.0					
	0.0330	0.0310	0.0315	0.0359	0.0372												
2-Chloro-1,3-butadiene	1.0619	1.0122	0.9167	0.8823	0.8509	Ave		0.8461			14.4	20.0					
	0.7993	0.7607	0.7427	0.7287	0.7057												
Hexane	0.5061	0.4256	0.4154	0.3849	0.3900	Ave		0.4176			8.6	20.0					
	0.3826	0.3982	0.4240	0.4249	0.4245												
2-Butanone	++++	0.0911	0.0742	0.0662	0.0670	Ave		0.0718		0.0200	11.7	20.0					
	0.0671	0.0637	0.0674	0.0770	0.0726												
Diisopropyl ether	1.0660	0.8848	0.8061	0.8204	0.7717	Ave		0.8477			10.0	20.0					
	0.7860	0.7962	0.8358	0.8420	0.8677												
Methacrylonitrile	0.0562	0.0439	0.0354	0.0344	0.0345	Qua2	0.1142	0.0325	0.0000082		4.8			0.9980		0.9900	
	0.0367	0.0377	0.0387	0.0431	0.0429												
cis-1,2-Dichloroethene	0.7708	0.8076	0.6928	0.6341	0.6477	Ave		0.6959		0.1000	7.9	20.0					
	0.6492	0.6814	0.6848	0.7033	0.6877												

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.: 580-87636-1 Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27 Calibration End Date: 07/01/2019 19:10 Calibration ID: 27984

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												
Ethyl acetate	0.3361 0.2372	0.2794 0.2174	0.2207 0.2302	0.2248 0.2488	0.2233 0.2407	Lin2	0.1024	0.2259			7.2			0.9940		0.9900	
Bromochloromethane	0.1984 0.1517	0.1684 0.1583	0.1631 0.1610	0.1458 0.1627	0.1448 0.1682	Ave		0.1622			9.4	20.0					
Chloroform	1.4837 1.0687	1.2869 1.0940	1.1238 1.0966	1.0807 1.1199	1.0516 1.1228	Ave		1.1529		0.2000	11.5	20.0					
Ethyl t-butyl ether	1.0629 0.7930	0.9154 0.7988	0.7781 0.8271	0.7709 0.8381	0.7705 0.8564	Ave		0.8411			10.7	20.0					
Isobutanol	0.0421 0.0187	0.0251 0.0181	0.0198 0.0176	0.0180 0.0196	0.0172 0.0197	Qua2	0.3139	0.0153	0.0000014		10.7			0.9910		0.9900	
2,2-Dichloropropane	0.3879 0.3124	0.3513 0.3359	0.3297 0.3274	0.3184 0.3083	0.3197 0.3166	Ave		0.3307			7.2	20.0					
Tetrahydrofuran	0.1237 0.0732	0.0971 0.0667	0.0731 0.0670	0.0648 0.0734	0.0671 0.0718	Lin2	0.0552	0.0670			7.8			0.9930		0.9900	
1,2-Dichloroethane	0.5350 0.3503	0.4408 0.3507	0.3737 0.3580	0.3552 0.3588	0.3410 0.3649	Lin2	0.0912	0.3473		0.1000	3.6			0.9990		0.9900	
1,1,1-Trichloroethane	0.5253 0.4273	0.4489 0.4565	0.4532 0.4718	0.4331 0.4739	0.4270 0.4797	Ave		0.4597		0.1000	6.5	20.0					
n-Butyl alcohol	++++ 0.0084	0.0132 0.0076	0.0094 0.0074	0.0074 0.0084	0.0074 0.0082	Lin2	0.1245	0.0076		0.0080	9.4			0.9900		0.9900	
1,1-Dichloropropene	0.4716 0.3482	0.3974 0.3657	0.3807 0.3764	0.3494 0.3751	0.3546 0.3771	Ave		0.3796			9.4	20.0					
Cyclohexane	1.1145 0.9233	1.0321 0.9488	1.0023 0.9620	0.9843 0.9676	0.9233 0.9318	Ave		0.9790		0.1000	6.0	20.0					
Carbon tetrachloride	0.4703 0.3644	0.4009 0.3843	0.3872 0.4010	0.3657 0.4088	0.3667 0.4178	Ave		0.3967		0.1000	8.1	20.0					
Benzene	2.6454 2.2749	2.5895 2.2816	2.3671 2.3087	2.3379 2.3251	2.2516 2.2770	Ave		2.3659		0.5000	5.8	20.0					
Tert-amyl methyl ether	1.1872 0.7925	0.9215 0.7638	0.7643 0.7713	0.7403 0.8188	0.7349 0.8302	Lin2	0.2419	0.7570			7.4			0.9940		0.9900	
Ethyl acrylate	0.6111 0.3776	0.4409 0.3663	0.3275 0.3933	0.3515 0.4260	0.3532 0.4067	Qua2	0.1333	0.3222	0.0007557		9.4			0.9920		0.9900	
n-Heptane	0.4521 0.3868	0.4161 0.4001	0.3849 0.4300	0.3871 0.4169	0.3873 0.4097	Ave		0.4071			5.5	20.0					
Dibromomethane	0.2728 0.1810	0.2176 0.1838	0.1863 0.1888	0.1778 0.1949	0.1801 0.2017	Lin2	0.0408	0.1826			6.5			0.9950		0.9900	
1,2-Dichloropropane	0.7932 0.5873	0.6651 0.5920	0.5795 0.6074	0.5938 0.6092	0.5776 0.6183	Ave		0.6223		0.1000	10.5	20.0					
2-Nitropropane	0.1708 0.0952	0.1136 0.0901	0.0982 0.0883	0.0835 0.1022	0.0865 0.1043	Qua2	0.0868	0.0787	0.0000924		7.6			0.9950		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.: 580-87636-1

Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102

GC Column: DB-VRX

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27

Calibration End Date: 07/01/2019 19:10

Calibration ID: 27984

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	0.8307	0.7304	0.6831	0.6546	0.6561	Ave		0.7017			0.2000	7.7	20.0				
	0.6523	0.6749	0.6966	0.7144	0.7239												
Bromodichloromethane	1.3714	1.1175	0.8589	0.8320	0.8178	Lin2	0.2660	0.8237			0.2000	5.7		0.9960		0.9900	
	0.8537	0.8564	0.8419	0.8635	0.8614												
Methyl methacrylate	0.4027	0.2647	0.2205	0.2140	0.2177	Qua2	0.1906	0.1944	0.0001884			8.6		0.9930		0.9900	
	0.2249	0.2163	0.2267	0.2455	0.2390												
2-Chloroethyl vinyl ether	0.4287	0.3141	0.2775	0.2645	0.2585	Lin2	0.0812	0.2524				5.2		0.9970		0.9900	
	0.2691	0.2455	0.2557	0.2704	0.2566												
Methylcyclohexane	1.3451	1.2148	1.1933	1.1219	1.1149	Ave		1.1646			0.1000	6.4	20.0				
	1.0847	1.1192	1.1513	1.1723	1.1288												
cis-1,3-Dichloropropene	1.5881	1.2169	1.0214	0.9976	0.9636	Lin2	0.3556	0.8728			0.2000	4.9		0.9970		0.9900	
	0.9444	0.8659	0.8539	0.8398	0.8228												
4-Methyl-2-pentanone	1.2056	0.7999	0.5862	0.5584	0.5556	Qua2	1.6747	0.4991	0.0001376		0.0600	9.3		0.9920		0.9900	
	0.5978	0.5573	0.5405	0.6055	0.5746												
trans-1,3-Dichloropropene	1.6930	1.3203	1.0074	0.9835	0.9543	Lin2	0.3504	0.9597			0.1000	6.4		0.9950		0.9900	
	0.9830	0.9751	1.0028	1.0320	1.0123												
1,1,2-Trichloroethane	1.1099	0.7435	0.5916	0.5666	0.5394	Lin2	0.2690	0.5269			0.1000	7.6		0.9940		0.9900	
	0.5556	0.5439	0.5433	0.5679	0.5568												
Ethyl methacrylate	++++	1.0785	0.7692	0.7725	0.7666	Ave		0.8397				11.9	20.0				
	0.8179	0.7772	0.8135	0.8874	0.8748												
Toluene	2.2082	1.8022	1.5842	1.5811	1.5079	Ave		1.7049			0.4000	11.9	20.0				
	1.5503	1.6069	1.6878	1.7567	1.7637												
1,3-Dichloropropane	1.5617	1.2780	0.9553	0.9827	0.9454	Lin2	0.2851	0.9637				7.1		0.9940		0.9900	
	0.9993	0.9757	0.9954	1.0384	1.0166												
2-Hexanone	0.4609	0.2846	0.2098	0.2017	0.1972	Qua1	0.5433	0.1895	0.0000405		0.0600	13.9		0.9980		0.9900	
	0.2141	0.1962	0.1956	0.2251	0.2174												
Dibromochloromethane	1.3239	0.9518	0.7346	0.7072	0.6901	Lin2	0.2824	0.7060			0.1000	9.0		0.9910		0.9900	
	0.7275	0.7343	0.7445	0.7767	0.7711												
n-Butyl acetate	1.9711	1.3637	1.0658	0.9460	0.9288	Lin2	0.5092	0.9015				6.7		0.9950		0.9900	
	0.9921	0.9043	0.9039	0.9885	0.9375												
1,2-Dibromoethane	1.0342	0.7462	0.6329	0.6049	0.5915	Lin2	0.2014	0.5910			0.1000	6.5		0.9950		0.9900	
	0.6154	0.6094	0.6023	0.6386	0.6196												
Tetrachloroethene	0.2817	0.2600	0.2481	0.2340	0.2326	Ave		0.2532			0.2000	6.7	20.0				
	0.2332	0.2481	0.2612	0.2615	0.2715												
1,1,1,2-Tetrachloroethane	1.2316	0.8994	0.7070	0.6753	0.6552	Lin2	0.2604	0.6679				7.9		0.9930		0.9900	
	0.6822	0.6889	0.7002	0.7205	0.7345												
Chlorobenzene	3.0826	2.2897	1.8743	1.8065	1.7568	Lin2	0.5940	1.7852			0.5000	7.1		0.9940		0.9900	
	1.7869	1.8372	1.8763	1.9225	1.9357												
Ethylbenzene	1.5027	1.1081	1.0056	0.9605	0.9463	Lin2	0.2175	0.9871			0.1000	8.7		0.9920		0.9900	
	0.9571	1.0080	1.0539	1.0844	1.0931												

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.: 580-87636-1

Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102

GC Column: DB-VRX

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27

Calibration End Date: 07/01/2019 19:10

Calibration ID: 27984

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												
m-Xylene & p-Xylene	3.6858 2.4114	2.9088 2.5084	2.4836 2.6116	2.3733 2.6996	2.3378 2.7154	Lin2	0.5432	2.4617			0.1000	7.9		0.9930		0.9900	
Styrene	++++ 0.0558	++++ 0.0597	0.0723 0.0606	0.0723 0.0627	0.0600 0.0630	Lin2	0.0311	0.0584		*	0.3000	6.2		0.9960		0.9900	
Bromoform	++++ 0.5071	0.6707 0.5160	0.4974 0.5160	0.4720 0.5553	0.4603 0.5533	Ave		0.5276			0.1000	11.8	20.0				
o-Xylene	1.8545 1.1855	1.3892 1.2790	1.2054 1.3456	1.1527 1.4077	1.1517 1.4378	Qua2	0.3612	1.0845	0.0027934		0.3000	4.3		0.9980		0.9900	
1,1,2,2-Tetrachloroethane	++++ 0.7648	1.0979 0.7157	0.8653 0.6936	0.7733 0.7428	0.7542 0.7326	Lin2	0.3629	0.7167			0.3000	3.4		0.9990		0.9900	
trans-1,4-Dichloro-2-butene	0.5942 0.2238	0.3670 0.2024	0.2503 0.1910	0.2144 0.2028	0.1918	Lin1	0.1818	0.1949				10.7		0.9980		0.9900	
1,2,3-Trichloropropane	0.4918 0.2269	0.3410 0.2071	0.2697 0.1956	0.2274 0.2073	0.2240 0.2005	Lin2	0.1423	0.2036				3.9		0.9980		0.9900	
Isopropylbenzene	++++ 3.0745	3.5985 3.3073	3.1521 3.4415	3.0313 3.5326	2.9958 3.5323	Ave		3.2962			0.1000	7.2	20.0				
Bromobenzene	1.5347 0.7751	1.0585 0.7565	0.8583 0.7514	0.7975 0.7548	0.7621 0.7594	Lin2	0.3791	0.7330				5.0		0.9970		0.9900	
N-Propylbenzene	1.3224 0.8126	1.0003 0.8231	0.8830 0.8292	0.8361 0.8298	0.8291	Lin2	0.2426	0.8026				3.8		0.9980		0.9900	
2-Chlorotoluene	1.3434 0.7251	0.9362 0.7213	0.8084 0.7198	0.7809 0.7303	0.7074 0.7383	Lin2	0.2972	0.7052				5.3		0.9970		0.9900	
4-Chlorotoluene	3.9572 2.0970	2.7010 2.0959	2.3002 2.1194	2.2105 2.0930	2.0757	Lin2	0.8905	2.0266				5.9		0.9960		0.9900	
1,3,5-Trimethylbenzene	4.1237 2.4798	2.9404 2.5232	2.5825 2.5456	2.5007 2.5204	2.4126 2.5219	Lin2	0.7620	2.4179				6.4		0.9950		0.9900	
t-Butylbenzene	3.5799 2.0855	2.5297 2.1235	2.2143 2.1483	2.1838 2.1605	2.1452	Lin2	0.6825	2.0601				6.2		0.9960		0.9900	
1,2,4-Trimethylbenzene	4.4295 2.5127	3.1407 2.5717	2.6586 2.6100	2.5642 2.6043	2.4860 2.5746	Lin2	0.8900	2.4681				6.5		0.9950		0.9900	
sec-Butylbenzene	4.9954 3.2060	3.8036 3.3028	3.4458 3.3347	3.2455 3.2912	3.2117	Lin2	0.8354	3.1735				4.4		0.9980		0.9900	
Benzyl chloride	3.3832 1.6081	2.1802 1.5693	1.7469 1.5404	1.5627 1.6288	1.5578 1.6239	Lin2	0.8649	1.5028				8.8		0.9910		0.9900	
1,3-Dichlorobenzene	++++ 0.7170	0.8476 0.8071	0.7119 0.8716	0.6781 0.9027	0.6695 0.9741	Ave		0.7977			0.6000	13.6	20.0				
4-Isopropyltoluene	4.4498 2.8799	3.4423 3.0332	2.9093 3.1393	2.8111 3.1932	2.7834 3.2599	Lin2	0.6598	2.9328				8.7		0.9920		0.9900	
1,4-Dichlorobenzene	++++ 1.6173	2.0049 1.6843	1.6891 1.7505	1.5722 1.8045	1.5152 1.8632	Ave		1.7224			0.5000	8.9	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.: 580-87636-1 Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27 Calibration End Date: 07/01/2019 19:10 Calibration ID: 27984

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												
1,2,3-Trimethylbenzene	4.7407 2.6141	3.1848 2.6499	2.8284 2.6510	2.6001 2.6458	2.5117 2.6096	Lin2	1.0022	2.5128			7.3			0.9940		0.9900	
1,2-Dichlorobenzene	2.9750 1.4958	1.9037 1.4656	1.5977 1.4605	1.5291 1.4688	1.4429 1.4637	Lin2	0.7132	1.4021		0.4000	8.3			0.9920		0.9900	
n-Butylbenzene	4.1061 2.6426	3.1336 2.6810	2.7965 2.6834	2.6642 2.6226	2.5944 2.5507	Lin2	0.7127	2.5695			3.9			0.9980		0.9900	
1,2-Dibromo-3-Chloropropane	0.4025 0.1713	0.2695 0.1531	0.1960 0.1438	0.1650 0.1572	0.1614 0.1487	Lin2	0.1243	0.1484		0.0500	6.3			0.9960		0.9900	
1,3,5-Trichlorobenzene	1.9230 1.0617	1.3955 1.0365	1.1809 1.0445	1.1161 1.0549	1.0668 1.0645	Lin2	0.4254	1.0285			3.6			0.9990		0.9900	
1,2,4-Trichlorobenzene	++++ 1.0307	1.2974 1.0580	1.0806 1.0895	1.0098 1.1608	0.9920 1.1754	Ave		1.0994		0.2000	8.8	20.0					
Naphthalene	5.4579 2.4621	3.4016 2.2593	2.6281 2.2063	2.4164 2.4014	2.3743 2.3566	Lin2	1.5027	2.2103			9.6			0.9900		0.9900	
Hexachlorobutadiene	0.3765 0.1976	0.2650 0.2051	0.2269 0.2126	0.2110 0.2148	0.2063 0.2162	Lin2	0.0807	0.2017			6.3			0.9960		0.9900	
1,2,3-Trichlorobenzene	1.7015 0.8633	1.1954 0.8117	0.9528 0.8029	0.8860 0.8394	0.8527 0.8238	Lin2	0.4301	0.8052			4.4			0.9980		0.9900	
Dibromofluoromethane (Surr)	0.2803 0.2776	0.2762 0.2904	0.2780 0.2850	0.2726 0.2886	0.2742 0.2907	Ave		0.2814			2.4	20.0					
1,2-Dichloroethane-d4 (Surr)	0.3162 0.3093	0.3155 0.3063	0.3130 0.3040	0.3087 0.3065	0.3105 0.3062	Ave		0.3096			1.3	20.0					
Trifluorotoluene (Surr)	0.4865 0.5027	0.4916 0.5083	0.4903 0.5196	0.4970 0.5262	0.4927 0.5259	Ave		0.5041			3.0	20.0					
Toluene-d8 (Surr)	2.2244 2.2936	2.2788 2.2229	2.2347 2.1948	2.2963 2.2498	2.2765 2.1576	Ave		2.2429			2.0	20.0					
4-Bromofluorobenzene (Surr)	0.9083 0.9008	0.9066 0.9322	0.9102 0.9438	0.8916 0.9661	0.8826 0.9408	Ave		0.9183			2.9	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.: 580-87636-1 Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27 Calibration End Date: 07/01/2019 19:10 Calibration ID: 27984

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-304544/2	070119_0007.D
Level 2	IC 580-304544/3	070119_0008.D
Level 3	IC 580-304544/4	070119_0009.D
Level 4	IC 580-304544/5	070119_0010.D
Level 5	IC 580-304544/6	070119_0011.D
Level 6	ICIS 580-304544/7	070119_0012.D
Level 7	IC 580-304544/8	070119_0013.D
Level 8	IC 580-304544/9	070119_0014.D
Level 9	IC 580-304544/10	070119_0015.D
Level 10	IC 580-304544/11	070119_0016.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	CBNZ d5	Ave	3202	6093	12792	28048	58474	0.500	1.00	2.00	5.00	10.0
			112164	278884	446219	598277	826027	20.0	50.0	75.0	100	150
Chloromethane	FB	Ave	2851	5296	10543	24338	49980	0.500	1.00	2.00	5.00	10.0
			96638	238807	384485	510111	728102	20.0	50.0	75.0	100	150
Vinyl chloride	CBNZ d5	Ave	3413	6302	10927	27632	55855	0.500	1.00	2.00	5.00	10.0
			107408	289176	459583	615192	888050	20.0	50.0	75.0	100	150
Butadiene	FB	Ave	++++	5366	10793	26181	52206	++++	1.00	2.00	5.00	10.0
			99976	261533	421036	547444	785215	20.0	50.0	75.0	100	150
Bromomethane	CBNZ d5	Lin2	2759	5319	9036	19561	39906	0.500	1.00	2.00	5.00	10.0
			78414	201105	323445	435139	652597	20.0	50.0	75.0	100	150
Chloroethane	FB	Lin2	2351	3781	6545	14095	29611	0.500	1.00	2.00	5.00	10.0
			57154	145444	237013	314250	469697	20.0	50.0	75.0	100	150
Dichlorofluoromethane	FB	Ave	4729	9310	15772	37079	76891	0.500	1.00	2.00	5.00	10.0
			146438	377255	606011	823116	1224161	20.0	50.0	75.0	100	150
Acrolein	FB	Qua2	7489	10312	15506	36776	76827	3.00	6.00	12.0	30.0	60.0
			153948	369853	592178	840505	1259830	120	300	450	600	900
Acetonitrile	FB	Lin2	7604	10623	13896	30283	65316	6.25	12.5	25.0	62.5	125
			126813	287072	469325	655972	939605	250	625	938	1250	1875
Trichlorofluoromethane	CBNZ d5	Ave	4415	8638	16179	38550	78070	0.500	1.00	2.00	5.00	10.0
			150963	395094	660562	880548	1313313	20.0	50.0	75.0	100	150
Isopropyl alcohol	FB	Lin1	++++	4752	6001	11872	25874	++++	10.0	20.0	50.0	100
			52583	110710	177824	265955	384172	200	500	750	1000	1500
Acetone	FB	Lin2	7035	9306	11991	26759	56018	2.50	5.00	10.0	25.0	50.0
			108623	245889	403694	579218	807595	100	250	375	500	750
Ethyl ether	FB	Lin1	1887	2556	5964	10428	21281	0.500	1.00	2.00	5.00	10.0
			54721	106511	192140	255386	371862	20.0	50.0	75.0	100	150
1,1-Dichloroethene	CBNZ d5	Lin2	1896	2682	5873	12958	26132	0.500	1.00	2.00	5.00	10.0
			50809	134639	221387	307079	461305	20.0	50.0	75.0	100	150

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-87636-1

Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102

GC Column: DB-VRX

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27

Calibration End Date: 07/01/2019 19:10

Calibration ID: 27984

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
t-Butyl alcohol	FB	Lin2	++++ 65702	5243 152353	7391 231917	15129 365879	30595 548185	++++ 200	10.0 500	20.0 750	50.0 1000	100 1500
Acrylonitrile	FB	Lin2	6339 172267	9849 418991	17659 676504	40326 995709	79894 1463392	5.00 200	10.0 500	20.0 750	50.0 1000	100 1500
Iodomethane	FB	Ave	3080 110111	5902 302720	11407 507509	26493 710868	53868 1102753	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Methylene Chloride	FB	Lin2	3560 64287	5146 172485	7648 279123	17129 375236	32426 577163	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Methyl acetate	FB	Ave	2652 81460	4892 210253	8455 317438	19296 485566	38231 676945	1.00 40.0	2.00 100	4.00 150	10.0 200	20.0 300
1,1,2-Trichloro-1,2,2-trifluoroethane	DCBd 4	Ave	1521 52419	2881 142326	5820 237416	12919 321141	25661 483865	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
3-Chloro-1-propene	CBNZ d5	Ave	1064 32691	1875 87254	3604 141317	8042 190469	16450 290832	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Carbon disulfide	FB	Lin2	8671 188925	12908 499969	21173 824020	49396 1107123	95825 1631311	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
trans-1,2-Dichloroethene	FB	Ave	2051 56524	3368 154125	6608 246502	14723 327256	28827 504181	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Methyl tert-butyl ether	FB	Ave	5372 174672	9618 432742	17312 703725	41294 973482	79370 1404041	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Propionitrile	FB	Lin2	5317 102129	7495 242947	10583 384470	23250 570333	46841 841247	6.25 250	12.5 625	25.0 938	62.5 1250	125 1875
1,1-Dichloroethane	CBNZ d5	Ave	3217 101496	5905 268893	10999 437759	25824 590529	50167 905827	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Vinyl acetate	FB	Ave	670 19756	1214 47532	1906 76164	4756 116575	9370 181310	1.25 50.0	2.50 125	5.00 188	12.5 250	25.0 375
2-Chloro-1,3-butadiene	DCBd 4	Ave	2781 89408	5370 242484	9623 393670	22884 529928	45621 808512	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Hexane	FB	Ave	3026 91655	5158 243841	9806 410710	22497 551711	45951 827220	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
2-Butanone	CBNZ d5	Ave	++++ 34803	2372 87099	3801 147829	8344 223096	17157 328200	++++ 100	5.00 250	10.0 375	25.0 500	50.0 750
Diisopropyl ether	FB	Ave	7967 235380	13405 609434	23786 1011973	59933 1366673	113657 2113766	0.625 25.0	1.25 62.5	2.50 93.8	6.25 125	12.5 188
Methacrylonitrile	FB	Qua2	3360 87807	5322 230978	8358 374373	20097 560201	40634 836030	5.00 200	10.0 500	20.0 750	50.0 1000	100 1500
cis-1,2-Dichloroethene	CBNZ d5	Ave	1996 67381	4206 186216	7096 300623	15995 407525	33173 621855	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Ethyl acetate	FB	Lin2	4019 113654	6774 266290	10419 446008	26279 646161	52629 938064	1.00 40.0	2.00 100	4.00 150	10.0 200	20.0 300
Bromochloromethane	FB	Ave	1186 36354	2041 96930	3850 155894	8522 211239	17056 327805	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-87636-1

Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102

GC Column: DB-VRX

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27

Calibration End Date: 07/01/2019 19:10

Calibration ID: 27984

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Chloroform	CBNZ d5	Ave	3842	6702	11510	27262	53860	0.500	1.00	2.00	5.00	10.0
			110913	298979	481397	648961	1015285	20.0	50.0	75.0	100	150
Ethyl t-butyl ether	FB	Ave	7944	13869	22960	56318	113476	0.625	1.25	2.50	6.25	12.5
			237465	611449	1001327	1360377	2086053	25.0	62.5	93.8	125	188
Isobutanol	FB	Qua2	6298	7606	11711	26260	50698	12.5	25.0	50.0	125	250
			112016	277067	425030	634677	961591	500	1250	1875	2500	3750
2,2-Dichloropropane	FB	Ave	2319	4258	7783	18608	37672	0.500	1.00	2.00	5.00	10.0
			74833	205694	317096	400281	617008	20.0	50.0	75.0	100	150
Tetrahydrofuran	FB	Lin2	1479	2353	3453	7576	15816	1.00	2.00	4.00	10.0	20.0
			35078	81732	129788	190581	280021	40.0	100	150	200	300
1,2-Dichloroethane	FB	Lin2	3199	5343	8822	20759	40185	0.500	1.00	2.00	5.00	10.0
			83929	214741	346739	465902	711117	20.0	50.0	75.0	100	150
1,1,1-Trichloroethane	FB	Ave	3141	5441	10699	25311	50309	0.500	1.00	2.00	5.00	10.0
			102362	279556	456958	615430	934810	20.0	50.0	75.0	100	150
n-Butyl alcohol	FB	Lin2	++++	3995	5525	10791	23699	++++	25.0	50.0	125	250
			50164	117060	178573	271374	401554	500	1250	1875	2500	3750
1,1-Dichloropropene	FB	Ave	2820	4817	8988	20421	41777	0.500	1.00	2.00	5.00	10.0
			83418	223948	364551	487079	734775	20.0	50.0	75.0	100	150
Cyclohexane	CBNZ d5	Ave	2886	5375	10266	24831	47285	0.500	1.00	2.00	5.00	10.0
			95823	259301	422282	560687	842523	20.0	50.0	75.0	100	150
Carbon tetrachloride	FB	Ave	2812	4859	9141	21375	43208	0.500	1.00	2.00	5.00	10.0
			87296	235328	388428	530866	814252	20.0	50.0	75.0	100	150
Benzene	CBNZ d5	Ave	6850	13486	24245	58977	115315	0.500	1.00	2.00	5.00	10.0
			236102	623538	1013469	1347377	2058889	20.0	50.0	75.0	100	150
Tert-amyl methyl ether	FB	Lin2	8873	13961	22554	54079	108238	0.625	1.25	2.50	6.25	12.5
			237334	584649	933793	1329103	2022268	25.0	62.5	93.8	125	188
Ethyl acrylate	FB	Qua2	3654	5344	7731	20543	41619	0.500	1.00	2.00	5.00	10.0
			90467	224292	380896	553206	792479	20.0	50.0	75.0	100	150
n-Heptane	FB	Ave	2703	5044	9087	22621	45630	0.500	1.00	2.00	5.00	10.0
			92672	245015	416443	541347	798453	20.0	50.0	75.0	100	150
Dibromomethane	FB	Lin2	1631	2637	4398	10392	21223	0.500	1.00	2.00	5.00	10.0
			43363	112556	182862	253096	393038	20.0	50.0	75.0	100	150
1,2-Dichloropropane	CBNZ d5	Ave	2054	3464	5935	14979	29582	0.500	1.00	2.00	5.00	10.0
			60951	161791	266647	353021	559124	20.0	50.0	75.0	100	150
2-Nitropropane	FB	Qua2	2042	2754	4636	9756	20387	1.00	2.00	4.00	10.0	20.0
			45611	110393	171127	265435	406610	40.0	100	150	200	300
Trichloroethene	CBNZ d5	Ave	2151	3804	6997	16513	33601	0.500	1.00	2.00	5.00	10.0
			67694	184451	305797	413976	654536	20.0	50.0	75.0	100	150
Bromodichloromethane	CBNZ d5	Lin2	3551	5820	8797	20987	41883	0.500	1.00	2.00	5.00	10.0
			88598	234053	369572	500407	778941	20.0	50.0	75.0	100	150
Methyl methacrylate	FB	Qua2	4815	6416	10409	25014	51304	1.00	2.00	4.00	10.0	20.0
			107772	264947	439169	637473	931495	40.0	100	150	200	300

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-87636-1

Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102

GC Column: DB-VRX

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27

Calibration End Date: 07/01/2019 19:10

Calibration ID: 27984

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
2-Chloroethyl vinyl ether	CBNZ d5	Lin2	1110 27931	1636 67097	2842 112250	6672 156706	13238 232054	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Methylcyclohexane	CBNZ d5	Ave	3483 112577	6327 305877	12222 505395	28302 679338	57098 1020670	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
cis-1,3-Dichloropropene	DCBD 4	Lin2	4159 105642	6456 276015	10723 452567	25876 610717	51664 942595	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
4-Methyl-2-pentanone	CBNZ d5	Qua2	15609 310228	20829 761587	30021 1186374	70427 1754444	142274 2597909	2.50 100	5.00 250	10.0 375	25.0 500	50.0 750
trans-1,3-Dichloropropene	CBNZ d5	Lin2	4384 102017	6876 266491	10318 440213	24811 598034	48874 915377	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,1,2-Trichloroethane	CBNZ d5	Lin2	2874 57664	3872 148643	6059 238508	14294 329091	27625 503469	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Ethyl methacrylate	CBNZ d5	Ave	++++ 84880	5617 212408	7878 357099	19486 514208	39261 790998	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Toluene	CBNZ d5	Ave	5718 160900	9386 439164	16226 740914	39886 1017977	77227 1594774	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,3-Dichloropropane	CBNZ d5	Lin2	4044 103706	6656 266646	9785 436941	24791 601752	48419 919212	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
2-Hexanone	CBNZ d5	Qua1	5967 111110	7411 268168	10745 429244	25445 652201	50508 982690	2.50 100	5.00 250	10.0 375	25.0 500	50.0 750
Dibromochloromethane	CBNZ d5	Lin2	3428 75499	4957 200689	7524 326829	17839 450070	35345 697244	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
n-Butyl acetate	CBNZ d5	Lin2	5104 102964	7102 247140	10916 396777	23864 572807	47570 847686	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2-Dibromoethane	CBNZ d5	Lin2	2678 63871	3886 166543	6482 264395	15259 370071	30294 560214	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Tetrachloroethene	FB	Ave	1684 55871	3151 151922	5857 252977	13673 339618	27411 529126	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,1,1,2-Tetrachloroethane	CBNZ d5	Lin2	3189 70796	4684 188275	7241 307393	17035 417527	33558 664144	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Chlorobenzene	CBNZ d5	Lin2	7982 185455	11925 502090	19197 823641	45572 1114082	89975 1750265	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Ethylbenzene	CBNZ d5	Lin2	3891 99329	5771 275480	10300 462636	24229 628372	48465 988375	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
m-Xylene & p-Xylene	CBNZ d5	Lin2	9544 250262	15149 685539	25438 1146415	59868 1564390	119729 2455352	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Styrene	CBNZ d5	Lin2	++++ 5789	++++ 16324	741 26582	1514 36330	3007 56991	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
Bromoform	CBNZ d5	Ave	++++ 52624	3493 141009	5095 226505	11906 321805	23575 500282	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
o-Xylene	CBNZ d5	Qua2	4802 123035	7235 349547	12346 590707	29077 815735	58984 1300114	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-87636-1

Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102

GC Column: DB-VRX

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27

Calibration End Date: 07/01/2019 19:10

Calibration ID: 27984

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,1,2,2-Tetrachloroethane	DCBd 4	Lin2	++++ 85558	5825 228111	9084 367616	20059 540185	40437 839324	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
trans-1,4-Dichloro-2-butene	DCBd 4	Lin1	1556 25031	1947 64518	2628 101256	5560 147452	11816 219777	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2,3-Trichloropropane	DCBd 4	Lin2	1288 25378	1809 66008	2831 103692	5899 150750	12009 229686	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Isopropylbenzene	CBNZ d5	Ave	++++ 319083	18741 903853	32285 1510721	76467 2047102	153432 3193954	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Bromobenzene	DCBd 4	Lin2	4019 86706	5616 241140	9010 398261	20687 548884	40859 870028	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
N-Propylbenzene	DCBd 4	Lin2	3463 90898	5307 262367	9270 439498	21687 603426	43213 949900	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
2-Chlorotoluene	DCBd 4	Lin2	3518 81110	4967 229906	8486 381498	20256 531098	37929 845870	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
4-Chlorotoluene	DCBd 4	Lin2	10363 234581	14330 668057	24147 1123334	57336 1522076	112029 2378019	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,3,5-Trimethylbenzene	DCBd 4	Lin2	10799 277396	15600 804255	27111 1349223	64864 1832866	129354 2889269	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
t-Butylbenzene	DCBd 4	Lin2	9375 233290	13421 676849	23245 1138657	56643 1571142	112161 2457633	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2,4-Trimethylbenzene	DCBd 4	Lin2	11600 281073	16663 819725	27910 1383374	66510 1893928	133293 2949666	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
sec-Butylbenzene	DCBd 4	Lin2	13082 358635	20180 1052750	36174 1767500	84182 2393448	169259 3679469	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Benzyl chloride	DCBd 4	Lin2	8860 179888	11567 500207	18339 816429	40534 1184516	83525 1860420	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,3-Dichlorobenzene	FB	Ave	++++ 171768	10274 494225	16806 844194	39631 1172134	78883 1898334	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
4-Isopropyltoluene	DCBd 4	Lin2	11653 322154	18263 966820	30541 1663933	72914 2322189	149234 3734714	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,4-Dichlorobenzene	DCBd 4	Ave	++++ 180911	10637 536857	17732 927812	40781 1312312	81242 2134551	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2,3-Trimethylbenzene	DCBd 4	Lin2	12415 292422	16897 844660	29692 1405100	67441 1924120	134667 2989671	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2-Dichlorobenzene	DCBd 4	Lin2	7791 167329	10100 467160	16772 774118	39661 1068135	77362 1676929	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
n-Butylbenzene	DCBd 4	Lin2	10753 295610	16625 854556	29357 1422268	69104 1907224	139104 2922209	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin2	1054 19157	1430 48814	2058 76202	4281 114313	8656 170411	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,3,5-Trichlorobenzene	DCBd 4	Lin2	5036 118769	7404 330377	12397 553590	28949 767146	57198 1219517	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27 Calibration End Date: 07/01/2019 19:10 Calibration ID: 27984

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	CBNZ d5	Ave	+++++	6757	11068	25474	50805	+++++	1.00	2.00	5.00	10.0
			106972	289130	478263	672676	1062814	20.0	50.0	75.0	100	150
Naphthalene	DCBd 4	Lin2	14293	18047	27589	62676	127300	0.500	1.00	2.00	5.00	10.0
			275417	720153	1169400	1746383	2699915	20.0	50.0	75.0	100	150
Hexachlorobutadiene	DCBd 4	Lin2	986	1406	2382	5474	11060	0.500	1.00	2.00	5.00	10.0
			22109	65388	112703	156184	247684	20.0	50.0	75.0	100	150
1,2,3-Trichlorobenzene	DCBd 4	Lin2	4456	6342	10002	22981	45717	0.500	1.00	2.00	5.00	10.0
			96568	258727	425545	610457	943817	20.0	50.0	75.0	100	150
Dibromofluoromethane (Surr)	FB	Ave	65372	65289	63989	62124	63005	19.5	19.5	19.5	19.5	19.5
			64838	69360	71765	73070	73657	19.5	19.5	19.5	19.5	19.5
1,2-Dichloroethane-d4 (Surr)	FB	Ave	73725	74576	72045	70359	71345	19.5	19.5	19.5	19.5	19.5
			72254	73161	76561	77621	77579	19.5	19.5	19.5	19.5	19.5
Trifluorotoluene (Surr)	FB	Ave	116301	119117	115694	116135	116054	20.0	20.0	20.0	20.0	20.0
			120377	124462	134150	136596	136600	20.0	20.0	20.0	20.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	224632	231433	223165	225917	227354	19.5	19.5	19.5	19.5	19.5
			232091	236928	250497	254230	253619	19.5	19.5	19.5	19.5	19.5
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	91723	92071	90896	87722	88150	19.5	19.5	19.5	19.5	19.5
			91152	99357	107718	109172	110591	19.5	19.5	19.5	19.5	19.5

Curve Type Legend:

<p>Ave = Average ISTD Lin1 = Linear 1/conc ISTD Lin2 = Linear 1/conc^2 ISTD Qua1 = Quadratic 1/conc ISTD Qua2 = Quadratic 1/conc^2 ISTD</p>

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27 Calibration End Date: 07/01/2019 19:10 Calibration ID: 27984

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-304544/2	070119_0007.D
Level 2	IC 580-304544/3	070119_0008.D
Level 3	IC 580-304544/4	070119_0009.D
Level 4	IC 580-304544/5	070119_0010.D
Level 5	IC 580-304544/6	070119_0011.D
Level 6	ICIS 580-304544/7	070119_0012.D
Level 7	IC 580-304544/8	070119_0013.D
Level 8	IC 580-304544/9	070119_0014.D
Level 9	IC 580-304544/10	070119_0015.D
Level 10	IC 580-304544/11	070119_0016.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Dichlorodifluoromethane	12.7						50					
Chloromethane	14.7						50					
Vinyl chloride	20.2						50					
Butadiene	+++++	2.3						50				
Bromomethane	-6.9						30					
Chloroethane	0.9						30					
Dichlorofluoromethane	19.3						50					
Acrolein	6.4						30					
Acetonitrile	3.4						30					
Trichlorofluoromethane	10.9						50					
Isopropyl alcohol	+++++	17.2						30				
Acetone	6.5						30					
Ethyl ether	9.7						30					
1,1-Dichloroethene	7.1						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27 Calibration End Date: 07/01/2019 19:10 Calibration ID: 27984

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 7	LVL 8	LVL 9	LVL 10		
t-Butyl alcohol	+++++	6.5						30				
Acrylonitrile	5.3						30					
Iodomethane	3.3						50					
Methylene Chloride	3.9						30					
Methyl acetate	23.5						50					
1,1,2-Trichloro-1,2,2-trifluoroethane	19.0						50					
3-Chloro-1-propene	22.0						50					
Carbon disulfide	4.8						30					
trans-1,2-Dichloroethene	29.4						50					
Methyl tert-butyl ether	20.8						50					
Propionitrile	6.3						30					
1,1-Dichloroethane	19.1						50					
Vinyl acetate	28.0						50					
2-Chloro-1,3-butadiene	25.5						50					
Hexane	21.2						50					
2-Butanone	+++++	26.9						50				
Diisopropyl ether	25.8						50					
Methacrylonitrile	2.5						30					
cis-1,2-Dichloroethene	10.8						50					
Ethyl acetate	3.4						30					
Bromochloromethane	22.3						50					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27 Calibration End Date: 07/01/2019 19:10 Calibration ID: 27984

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 7	LVL 8	LVL 9	LVL 10		
Chloroform	28.7						50					
Ethyl t-butyl ether	26.4						50					
Isobutanol	11.4						30					
2,2-Dichloropropane	17.3						50					
Tetrahydrofuran	2.2						30					
1,2-Dichloroethane	1.5						30					
1,1,1-Trichloroethane	14.3						50					
n-Butyl alcohol	+++++	7.8						30				
1,1-Dichloropropene	24.2						50					
Cyclohexane	13.8						50					
Carbon tetrachloride	18.5						50					
Benzene	11.8						50					
Tert-amyl methyl ether	5.7						30					
Ethyl acrylate	6.8						30					
n-Heptane	11.0						50					
Dibromomethane	4.7						30					
1,2-Dichloropropane	27.5						50					
2-Nitropropane	6.5						30					
Trichloroethene	18.4						50					
Bromodichloromethane	1.9						30					
Methyl methacrylate	9.0						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27 Calibration End Date: 07/01/2019 19:10 Calibration ID: 27984

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 7	LVL 8	LVL 9	LVL 10		
2-Chloroethyl vinyl ether	5.5						30					
Methylcyclohexane	15.5						50					
cis-1,3-Dichloropropene	0.5						30					
4-Methyl-2-pentanone	7.3						30					
trans-1,3-Dichloropropene	3.4						30					
1,1,2-Trichloroethane	8.5						30					
Ethyl methacrylate	+++++	28.4						50				
Toluene	29.5						50					
1,3-Dichloropropane	2.9						30					
2-Hexanone	28.4						30					
Dibromochloromethane	7.5						30					
n-Butyl acetate	5.7						30					
1,2-Dibromoethane	6.9						30					
Tetrachloroethene	11.2						50					
1,1,1,2-Tetrachloroethane	6.4						30					
Chlorobenzene	6.1						30					
Ethylbenzene	8.2						30					
m-Xylene & p-Xylene	5.6						30					
Styrene	+++++	+++++	-2.7						30			
Bromoform	+++++	27.1						50				
o-Xylene	4.2						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27 Calibration End Date: 07/01/2019 19:10 Calibration ID: 27984

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 7	LVL 8	LVL 9	LVL 10		
1,1,2,2-Tetrachloroethane	+++++	2.5						30				
trans-1,4-Dichloro-2-butene	18.3						30					
1,2,3-Trichloropropane	1.8						30					
Isopropylbenzene	+++++	9.2						50				
Bromobenzene	5.9						30					
N-Propylbenzene	4.3						30					
2-Chlorotoluene	6.2						30					
4-Chlorotoluene	7.4						30					
1,3,5-Trimethylbenzene	7.5						30					
t-Butylbenzene	7.5						30					
1,2,4-Trimethylbenzene	7.3						30					
sec-Butylbenzene	4.8						30					
Benzyl chloride	10.0						30					
1,3-Dichlorobenzene	+++++	6.3						50				
4-Isopropyltoluene	6.7						30					
1,4-Dichlorobenzene	+++++	16.4						50				
1,2,3-Trimethylbenzene	8.9						30					
1,2-Dichlorobenzene	10.4						30					
n-Butylbenzene	4.3						30					
1,2-Dibromo-3-Chloropropane	3.7						30					
1,3,5-Trichlorobenzene	4.2						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304544

SDG No.: _____

Instrument ID: SEA102 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 15:27 Calibration End Date: 07/01/2019 19:10 Calibration ID: 27984

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 7	LVL 8	LVL 9	LVL 10		
1,2,4-Trichlorobenzene	+++++	18.0						50				
Naphthalene	11.0						30					
Hexachlorobutadiene	6.6						30					
1,2,3-Trichlorobenzene	4.5						30					
Dibromofluoromethane (Surr)	-0.4						50					
1,2-Dichloroethane-d4 (Surr)	2.1						50					
Trifluorotoluene (Surr)	-3.5						50					
Toluene-d8 (Surr)	-0.8						50					
4-Bromofluorobenzene (Surr)	-1.1						50					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16 Calibration End Date: 07/01/2019 17:56 Calibration ID: 27978

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-304491/3	070119003.D
Level 2	IC 580-304491/4	070119004.D
Level 3	IC 580-304491/5	070119005.D
Level 4	IC 580-304491/6	070119006.D
Level 5	IC 580-304491/7	070119007.D
Level 6	ICIS 580-304491/8	070119008.D
Level 7	IC 580-304491/9	070119009.D
Level 8	IC 580-304491/10	070119010.D
Level 9	IC 580-304491/11	070119011.D
Level 10	IC 580-304491/12	070119012.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	0.3666 0.3627	0.2761 0.3755	0.3939 0.3857	0.3945 0.3584	0.3704 0.3462	Ave	0.3630			0.1000	9.4		20.0				
Chloromethane	0.5975 0.4590	0.4399 0.4560	0.5478 0.4626	0.4739 0.4524	0.4769 0.4322	Ave	0.4798			0.1000	10.9		20.0				
Vinyl chloride	0.3990 0.3662	0.2689 0.3627	0.3605 0.3718	0.3723 0.3531	0.3732 0.3345	Ave	0.3562			0.1000	9.8		20.0				
Butadiene	0.4774 0.4248	0.4269 0.4154	0.4485 0.4286	0.4373 0.4084	0.4379 0.3848	Ave	0.4290				5.7		20.0				
Bromomethane	0.2566 0.2410	0.2150 0.2315	0.2535 0.2388	0.2419 0.2333	0.2442 0.2247	Ave	0.2381			0.1000	5.3		20.0				
Chloroethane	++++ 0.0568	0.0499 0.0549	0.0568 0.0573	0.0468 0.0569	0.0603 0.0550	Ave	0.0550		*	0.0600	7.5		20.0				
Dichlorofluoromethane	0.5898 0.5342	0.4956 0.5254	0.5837 0.5479	0.5726 0.5305	0.5433 0.5052	Ave	0.5428				5.8		20.0				
3-Chloro-1-propene	++++ 0.0316	0.0284 0.0296	0.0354 0.0360	0.0338 0.0345	0.0267 0.0375	Ave	0.0326				11.3		20.0				
Acrolein	0.0950 0.0778	0.0833 0.0848	0.0749 0.0995	0.0807 0.0980	0.0834 0.0953	Qua2	0.0443	0.0777	0.0000270		6.1			0.9960		0.9900	
Trichlorofluoromethane	0.6593 0.5785	0.4441 0.5500	0.6307 0.5758	0.6091 0.5441	0.5928 0.5083	Ave	0.5693			0.1000	10.9		20.0				
Acetonitrile	0.0167 0.0178	0.0211 0.0169	0.0141 0.0208	0.0163 0.0156	0.0139 0.0165	Ave	0.0170				14.3		20.0				
Isopropyl alcohol	1.4393 0.7036	1.0432 0.6868	0.7884 0.7476	0.7609 0.7015	0.7212 0.6861	Lin2	3.6541	0.6854			5.3			0.9970		0.9900	
Acetone	0.1915 0.0936	0.1497 0.0902	0.0958 0.1089	0.1041 0.0976	0.1026 0.0868	Lin1	0.2326	0.0939		0.0200	11.2			0.9920		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.: 580-87636-1 Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16 Calibration End Date: 07/01/2019 17:56 Calibration ID: 27978

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												
Ethyl ether	0.2748	0.2375	0.2542	0.2552	0.2418	Ave		0.2444			5.5		20.0				
	0.2355	0.2306	0.2391	0.2424	0.2331												
1,1-Dichloroethene	0.2767	0.2285	0.2796	0.2271	0.2327	Ave		0.2359		0.1000	9.9		20.0				
	0.2177	0.2160	0.2368	0.2249	0.2188												
t-Butyl alcohol	0.0573	0.0427	0.0365	0.0297	0.0283	Lin2	0.1535	0.0271			6.0			0.9960		0.9900	
	0.0280	0.0254	0.0300	0.0282	0.0249												
Iodomethane	0.4817	0.4626	0.5495	0.4980	0.5217	Ave		0.5034			5.1		20.0				
	0.4926	0.4958	0.5327	0.5092	0.4899												
Acrylonitrile	0.1263	0.1153	0.1210	0.1049	0.1098	Ave		0.1137			6.5		20.0				
	0.1102	0.1096	0.1182	0.1182	0.1034												
Methylene Chloride	++++	0.3397	0.3028	0.2753	0.2763	Ave		0.2763		0.1000	10.2		20.0				
	0.2555	0.2556	0.2666	0.2601	0.2546												
Methyl acetate	0.2326	0.2529	0.2529	0.2430	0.2429	Ave		0.2441		0.1000	4.4		20.0				
	0.2379	0.2284	0.2588	0.2569	0.2347												
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3187	0.2224	0.2625	0.2617	0.2571	Ave		0.2588		0.1000	9.4		20.0				
	0.2511	0.2523	0.2644	0.2551	0.2426												
Carbon disulfide	++++	++++	2.6102	1.4763	1.1512	Lin2	3.6387	0.7780		0.1000	4.1			0.9980		0.9900	
	0.9168	0.8426	0.8784	0.8329	0.7902												
trans-1,2-Dichloroethene	0.3140	0.2505	0.2726	0.2655	0.2498	Ave		0.2582		0.1000	8.5		20.0				
	0.2430	0.2447	0.2522	0.2466	0.2427												
Methyl tert-butyl ether	++++	0.8115	0.7840	0.7695	0.7330	Ave		0.7362		0.1000	6.0		20.0				
	0.7203	0.6957	0.7137	0.7237	0.6740												
1,1-Dichloroethane	0.5450	0.5312	0.5964	0.5702	0.5522	Ave		0.5464		0.2000	4.1		20.0				
	0.5367	0.5362	0.5414	0.5383	0.5166												
Propionitrile	++++	0.0406	0.0394	0.0371	0.0375	Ave		0.0394			5.4		20.0				
	0.0388	0.0383	0.0439	0.0409	0.0382												
Vinyl acetate	++++	++++	0.0264	0.0207	0.0241	Ave		0.0248			8.0		20.0				
	0.0249	0.0237	0.0259	0.0270	0.0258												
2-Chloro-1,3-butadiene	0.7287	0.5266	0.6987	0.6950	0.6764	Ave		0.6589			8.5		20.0				
	0.6602	0.6550	0.6782	0.6553	0.6148												
Hexane	0.5630	0.4570	0.5457	0.5436	0.5123	Ave		0.5152			6.6		20.0				
	0.4979	0.5051	0.5400	0.5149	0.4720												
Diisopropyl ether	1.4639	1.3492	1.4170	1.3799	1.3313	Ave		1.3235			6.9		20.0				
	1.3293	1.2993	1.2930	1.2335	1.1387												
2-Butanone	0.0314	0.0316	0.0246	0.0220	0.0241	Ave		0.0254		0.0200	13.8		20.0				
	0.0222	0.0231	0.0264	0.0252	0.0233												
Methacrylonitrile	0.1308	0.1068	0.0939	0.0945	0.0933	Ave		0.0991			12.3		20.0				
	0.0938	0.0904	0.1003	0.0969	0.0902												
cis-1,2-Dichloroethene	0.3959	0.3117	0.3105	0.2717	0.2810	Lin2	0.0588	0.2710		0.1000	3.5			0.9990		0.9900	
	0.2701	0.2732	0.2780	0.2773	0.2697												

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.: 580-87636-1 Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16 Calibration End Date: 07/01/2019 17:56 Calibration ID: 27978

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												
Ethyl acetate	0.4095	0.3701	0.3297	0.3236	0.3274	Ave		0.3387			9.2		20.0				
	0.3255	0.3042	0.3488	0.3396	0.3088												
Bromochloromethane	0.2315	0.1791	0.2281	0.2127	0.2096	Ave		0.2078			7.2		20.0				
	0.2015	0.1967	0.2107	0.2062	0.2014												
Chloroform	0.5580	0.5449	0.5492	0.5294	0.5431	Ave		0.5332		0.2000	3.2		20.0				
	0.5331	0.5321	0.5288	0.5156	0.4981												
Ethyl t-butyl ether	0.4559	0.3696	0.3898	0.3908	0.3766	Ave		0.3838			7.2		20.0				
	0.3831	0.3746	0.3780	0.3657	0.3544												
Isobutanol	++++	0.9554	0.9813	0.9062	0.8598	Ave		0.8662			8.3		20.0				
	0.7516	0.8688	0.8194	0.8159	0.8376												
2,2-Dichloropropane	0.4809	0.3978	0.4175	0.4047	0.4014	Ave		0.3890			11.0		20.0				
	0.3822	0.3715	0.3608	0.3434	0.3299												
Tetrahydrofuran	0.1813	0.1381	0.1160	0.0985	0.1028	Lin2	0.0847	0.0959			5.1			0.9970		0.9900	
	0.0991	0.0888	0.1038	0.1012	0.0943												
1,2-Dichloroethane	0.5842	0.5707	0.5631	0.5257	0.5049	Ave		0.5142		0.1000	8.6		20.0				
	0.4897	0.4752	0.4918	0.4780	0.4588												
1,1,1-Trichloroethane	0.5314	0.4637	0.5299	0.5303	0.5463	Ave		0.5128		0.1000	4.9		20.0				
	0.5134	0.5120	0.5187	0.5037	0.4785												
n-Butyl alcohol	++++	0.0091	0.0074	0.0076	0.0074	Ave		0.0077			9.6		20.0				
	0.0070	0.0069	0.0084	0.0080	0.0071												
1,1-Dichloropropene	0.4050	0.3568	0.4435	0.3952	0.3952	Ave		0.3941			5.8		20.0				
	0.3844	0.3952	0.4043	0.3886	0.3724												
Cyclohexane	0.3891	0.3114	0.3762	0.3809	0.3816	Ave		0.3692		0.1000	6.1		20.0				
	0.3669	0.3733	0.3831	0.3738	0.3552												
Carbon tetrachloride	0.5813	0.4481	0.5401	0.5167	0.5127	Ave		0.5078		0.1000	7.1		20.0				
	0.4994	0.4995	0.5120	0.4977	0.4700												
Benzene	1.2321	1.1872	1.0294	1.0490	1.0266	Ave		1.0422		0.5000	9.1		20.0				
	1.0057	0.9872	1.0010	0.9797	0.9239												
Tert-amyl methyl ether	0.9765	0.8910	0.8441	0.7831	0.7793	Ave		0.7984			10.4		20.0				
	0.7592	0.7555	0.7606	0.7370	0.6974												
Ethyl acrylate	0.5773	0.5288	0.5395	0.4869	0.4855	Ave		0.5072			7.0		20.0				
	0.4830	0.4627	0.5277	0.5065	0.4744												
n-Heptane	0.5822	0.4974	0.5779	0.5787	0.5703	Ave		0.5502			6.0		20.0				
	0.5531	0.5372	0.5730	0.5404	0.4922												
Dibromomethane	0.2105	0.2445	0.2117	0.1947	0.1955	Ave		0.2051			7.5		20.0				
	0.2034	0.1921	0.2045	0.2008	0.1937												
1,2-Dichloropropane	0.3377	0.3027	0.2638	0.3019	0.2874	Ave		0.2957		0.1000	6.4		20.0				
	0.2939	0.2807	0.3028	0.2960	0.2900												
2-Nitropropane	0.1655	0.1520	0.1419	0.1306	0.1281	Ave		0.1362			10.1		20.0				
	0.1289	0.1215	0.1384	0.1322	0.1228												

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.: 580-87636-1 Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16 Calibration End Date: 07/01/2019 17:56 Calibration ID: 27978

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	0.3045	0.2803	0.3055	0.2983	0.3071	Ave		0.3019			0.2000	3.3	20.0				
	0.3086	0.3025	0.3168	0.3041	0.2914												
Bromodichloromethane	0.5252	0.4955	0.4425	0.4405	0.4455	Ave		0.4472			0.2000	7.9	20.0				
	0.4283	0.4229	0.4335	0.4261	0.4115												
Methyl methacrylate	1.0871	0.6152	0.4102	0.2428	0.2004	Lin2	0.9304	0.1572				6.5		0.9950		0.9900	
	0.1718	0.1578	0.1729	0.1687	0.1590												
2-Chloroethyl vinyl ether	++++	0.2073	0.1981	0.1874	0.1961	Ave		0.1949				4.1	20.0				
	0.1887	0.1879	0.2046	0.1853	0.1991												
Methylcyclohexane	0.4189	0.4167	0.4597	0.4685	0.4701	Ave		0.4452			0.1000	4.4	20.0				
	0.4454	0.4386	0.4586	0.4472	0.4283												
cis-1,3-Dichloropropene	0.6146	0.5409	0.5075	0.4855	0.5118	Ave		0.5092			0.2000	8.4	20.0				
	0.4907	0.4877	0.4990	0.4580	0.4961												
4-Methyl-2-pentanone	++++	0.1447	0.1426	0.1247	0.1217	Ave		0.1250			0.0600	8.9	20.0				
	0.1163	0.1169	0.1243	0.1146	0.1191												
trans-1,3-Dichloropropene	++++	0.5121	0.4975	0.4724	0.4733	Ave		0.4829			0.1000	3.6	20.0				
	0.4741	0.4843	0.4932	0.4530	0.4860												
1,1,2-Trichloroethane	0.4218	0.2978	0.3125	0.2568	0.2501	Lin2	0.0854	0.2426			0.1000	6.5		0.9950		0.9900	
	0.2471	0.2440	0.2522	0.2294	0.2466												
Toluene	++++	1.5863	1.2757	1.2071	1.1431	Lin2	0.4700	1.0954			0.4000	4.3		0.9980		0.9900	
	1.1693	1.1436	1.1373	1.0284	1.0606												
Ethyl methacrylate	0.4552	0.3943	0.3141	0.3348	0.3060	Ave		0.3453				13.3	20.0				
	0.3240	0.3241	0.3455	0.3169	0.3376												
1,3-Dichloropropane	++++	0.4950	0.4663	0.4080	0.4149	Ave		0.4260				7.9	20.0				
	0.4206	0.4055	0.4231	0.3848	0.4155												
2-Hexanone	++++	0.1513	0.1402	0.1226	0.1130	Ave		0.1224			0.0600	11.6	20.0				
	0.1135	0.1125	0.1230	0.1109	0.1148												
Dibromochloromethane	++++	0.4135	0.4188	0.3674	0.3839	Ave		0.3830			0.1000	5.6	20.0				
	0.3783	0.3738	0.3788	0.3499	0.3828												
n-Butyl acetate	++++	0.8303	0.7509	0.6728	0.6248	Ave		0.6642				11.8	20.0				
	0.6296	0.6079	0.6572	0.5909	0.6139												
1,2-Dibromoethane	0.3683	0.3387	0.2910	0.2948	0.2751	Ave		0.2990			0.1000	10.2	20.0				
	0.2870	0.2792	0.2934	0.2721	0.2898												
Tetrachloroethene	0.3868	0.2541	0.3035	0.2748	0.2765	Ave		0.2847			0.2000	13.6	20.0				
	0.2707	0.2793	0.2803	0.2511	0.2702												
1,1,1,2-Tetrachloroethane	++++	0.4052	0.4157	0.3697	0.3596	Ave		0.3669				7.5	20.0				
	0.3578	0.3544	0.3556	0.3257	0.3584												
Chlorobenzene	1.1061	0.9204	0.9175	0.8636	0.8510	Ave		0.8766			0.5000	10.6	20.0				
	0.8530	0.8387	0.8453	0.7593	0.8117												
Ethylbenzene	1.8061	1.5398	1.4642	1.4148	1.3824	Ave		1.4143			0.1000	11.9	20.0				
	1.3855	1.3568	1.3539	1.2108	1.2284												

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.: 580-87636-1 Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16 Calibration End Date: 07/01/2019 17:56 Calibration ID: 27978

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												
m-Xylene & p-Xylene	++++ 1.1236	1.3342 1.1071	1.2053 1.1063	1.1364 0.9965	1.1107 1.0626	Ave		1.1314		0.1000	8.3		20.0				
Bromoform	++++ 0.2430	0.2653 0.2461	0.2529 0.2559	0.2383 0.2413	0.2345 0.2585	Ave		0.2484		0.1000	4.1		20.0				
Styrene	1.2845 0.8823	0.9355 0.8992	0.9134 0.8945	0.8561 0.8192	0.8739 0.8665	Ave		0.9225		0.3000	14.2		20.0				
o-Xylene	++++ 1.1544	1.3064 1.1328	1.2744 1.1234	1.1700 1.0148	1.1235 1.0523	Ave		1.1502		0.3000	8.1		20.0				
1,1,2,2-Tetrachloroethane	++++ 0.5650	0.7469 0.5283	0.6711 0.5814	0.6042 0.5639	0.5582 0.5464	Ave		0.5961		0.3000	11.7		20.0				
trans-1,4-Dichloro-2-butene	++++ 0.2352	0.2571 0.2303	0.2793 0.2622	0.2221 0.2551	0.2114 0.2498	Ave		0.2447			8.8		20.0				
1,2,3-Trichloropropane	++++ 0.1895	0.2503 0.1756	0.2262 0.1941	0.1911 0.1842	0.1895 0.1762	Ave		0.1974			12.5		20.0				
Isopropylbenzene	++++ 1.4778	1.4993 1.4768	1.5617 1.4608	1.5341 1.2888	1.5282 1.2846	Ave		1.4569		0.1000	7.0		20.0				
Bromobenzene	++++ 0.7272	0.8411 0.7209	0.8153 0.7518	0.7720 0.7171	0.7236 0.7076	Ave		0.7530			6.3		20.0				
N-Propylbenzene	4.2231 2.9991	3.2278 2.8469	3.2587 2.9502	3.1224 2.6596	3.0556 2.3875	Lin2	0.6708	2.8115			7.9			0.9930		0.9900	
2-Chlorotoluene	++++ 0.6791	0.7316 0.6619	0.8234 0.7005	0.7448 0.6581	0.7345 0.6468	Ave		0.7090			7.9		20.0				
4-Chlorotoluene	++++ 0.7034	0.7478 0.6793	0.8142 0.7267	0.7613 0.6727	0.7097 0.6719	Ave		0.7208			6.6		20.0				
1,3,5-Trimethylbenzene	3.4706 2.3576	2.8206 2.2596	2.6265 2.3457	2.3871 2.1685	2.3874 1.9851	Lin2	0.6200	2.2391			5.1			0.9970		0.9900	
t-Butylbenzene	++++ 2.0082	2.1835 1.9436	2.2128 2.0290	2.1084 1.8876	2.0649 1.7416	Ave		2.0200			7.3		20.0				
1,2,4-Trimethylbenzene	++++ 2.4207	2.7387 2.3017	2.5556 2.3835	2.4477 2.2043	2.3875 1.9932	Ave		2.3814			8.8		20.0				
sec-Butylbenzene	++++ 2.8631	2.8708 2.7344	3.1629 2.8259	2.9653 2.5690	2.9070 2.2596	Ave		2.7953			9.2		20.0				
Benzyl chloride	++++ 0.2951	0.3927 0.2808	0.3462 0.3105	0.3054 0.2890	0.3028 0.2727	Ave		0.3106			12.0		20.0				
1,3-Dichlorobenzene	2.0592 1.3748	1.6319 1.3273	1.4557 1.4046	1.3839 1.3102	1.3723 1.2312	Lin2	0.3576	1.3156		0.6000	3.9			0.9980		0.9900	
1,4-Dichlorobenzene	++++ 1.3856	1.6177 1.3254	1.4605 1.4110	1.4125 1.3323	1.3961 1.2532	Ave		1.3994		0.5000	7.3		20.0				
4-Isopropyltoluene	++++ 2.5112	2.7535 2.4151	2.8250 2.5105	2.6284 2.2961	2.5813 2.0223	Ave		2.5048			9.7		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.: 580-87636-1 Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16 Calibration End Date: 07/01/2019 17:56 Calibration ID: 27978

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												
1,2,3-Trimethylbenzene	++++ 2.4116	2.8031 2.3338	2.7826 2.4550	2.5305 2.2502	2.4790 2.0003	Ave		2.4496			10.2		20.0				
1,2-Dichlorobenzene	++++ 1.3045	1.5506 1.2859	1.5471 1.3621	1.3796 1.2679	1.3599 1.1838	Ave		1.3602		0.4000	9.0		20.0				
n-Butylbenzene	0.9196 0.5738	0.5669 0.5706	0.6518 0.6074	0.6119 0.5698	0.5997 0.5305	Lin1	0.1517	0.5611			10.7			0.9970		0.9900	
1,2-Dibromo-3-Chloropropane	++++ 0.1303	0.1862 0.1286	0.1602 0.1494	0.1373 0.1401	0.1209	Lin2	0.0538	0.1304		0.0500	8.7			0.9920		0.9900	
1,3,5-Trichlorobenzene	++++ 0.8182	0.9647 0.8397	0.9550 0.9279	0.8531 0.8389	0.8532 0.7058	Ave		0.8618			9.3		20.0				
1,2,4-Trichlorobenzene	++++ 0.6532	0.7198 0.6446	0.6745 0.7470	0.5854 0.6661	0.6344 0.5388	Ave		0.6515		0.2000	9.7		20.0				
Naphthalene	++++ 1.3301	1.4943 1.3472	1.4463 1.6004	1.2270 1.4419	1.2790 1.1307	Ave		1.3663			10.6		20.0				
Hexachlorobutadiene	0.3186 0.3052	0.3349 0.3118	0.3342 0.3430	0.3011 0.2985	0.3226 0.2397	Ave		0.3110			9.4		20.0				
1,2,3-Trichlorobenzene	++++ 0.4862	0.5551 0.4741	0.4810 0.5625	0.4377 0.5003	0.4637 0.3919	Ave		0.4836			11.0		20.0				
Dibromofluoromethane (Surr)	0.3136 0.3206	0.3255 0.3081	0.3384 0.3098	0.3262 0.3064	0.3185 0.3158	Ave		0.3183			3.1		20.0				
1,2-Dichloroethane-d4 (Surr)	0.4259 0.4023	0.4265 0.4053	0.4450 0.4029	0.4300 0.3886	0.4377 0.3829	Ave		0.4147			5.1		20.0				
Trifluorotoluene (Surr)	0.5612 0.5727	0.5784 0.5693	0.5778 0.5689	0.5681 0.5759	0.5596 0.5647	Ave		0.5697			1.2		20.0				
Toluene-d8 (Surr)	1.1108 1.0490	1.0807 1.0812	1.0736 1.0515	1.0747 0.9896	1.0682 1.1075	Ave		1.0687			3.2		20.0				
4-Bromofluorobenzene (Surr)	0.4292 0.4266	0.4404 0.4416	0.4364 0.4197	0.4343 0.4047	0.4420 0.4460	Ave		0.4321			2.9		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.: 580-87636-1 Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16 Calibration End Date: 07/01/2019 17:56 Calibration ID: 27978

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-304491/3	070119003.D
Level 2	IC 580-304491/4	070119004.D
Level 3	IC 580-304491/5	070119005.D
Level 4	IC 580-304491/6	070119006.D
Level 5	IC 580-304491/7	070119007.D
Level 6	ICIS 580-304491/8	070119008.D
Level 7	IC 580-304491/9	070119009.D
Level 8	IC 580-304491/10	070119010.D
Level 9	IC 580-304491/11	070119011.D
Level 10	IC 580-304491/12	070119012.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Ave	5770 230074	8650 629858	23281 988848	60987 1292696	116105 1927852	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Chloromethane	FB	Ave	9403 291166	13779 764905	32378 1185969	73268 1631957	149498 2406307	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Vinyl chloride	FB	Ave	6279 232305	8422 608436	21306 953220	57549 1273739	116985 1862672	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Butadiene	FB	Ave	7513 269436	13373 696814	26510 1098775	67598 1473254	137281 2142341	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Bromomethane	FB	Ave	4039 152854	6734 388426	14982 612286	37395 841631	76551 1251342	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Chloroethane	FB	Ave	++++ 36037	1564 92137	3355 146875	7241 205237	18895 306292	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Dichlorofluoromethane	FB	Ave	9282 338865	15523 881483	34500 1404440	88524 1913469	170314 2812840	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
3-Chloro-1-propene	CBNZ d5	Ave	++++ 19091	822 46770	1973 89584	4917 128328	7997 193207	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Acrolein	FB	Qua2	8973 296110	15649 853567	26558 1530333	74861 2121705	156934 3182259	3.00 120	6.00 300	12.0 450	30.0 600	60.0 900
Trichlorofluoromethane	FB	Ave	10375 366924	13912 922746	37280 1475937	94166 1962679	185816 2830281	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Acetonitrile	FB	Ave	3293 140743	8272 353459	10405 666891	31421 703739	54396 1146236	6.25 250	12.5 625	25.0 938	62.5 1250	125 1875
Isopropyl alcohol	TBA 9	Lin2	6959 118488	9990 281849	12764 540534	31055 695991	61867 917003	5.00 200	10.0 500	20.0 750	50.0 1000	100 1500
Acetone	FB	Lin1	15066 296846	23441 756736	28323 1395211	80444 1760392	160859 2415138	2.50 100	5.00 250	10.0 375	25.0 500	50.0 750
Ethyl ether	FB	Ave	4324 149401	7440 386775	15024 613050	39451 874375	75793 1297660	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-87636-1

Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001

GC Column: DB-VRX

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16

Calibration End Date: 07/01/2019 17:56

Calibration ID: 27978

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,1-Dichloroethene	FB	Ave	4355 138079	7156 362285	16526 607132	35109 811218	72957 1218519	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
t-Butyl alcohol	FB	Lin2	9024 177498	13362 425282	21575 768105	45923 1016624	88622 1387786	5.00 200	10.0 500	20.0 750	50.0 1000	100 1500
Iodomethane	FB	Ave	7581 312491	14489 831713	32477 1365477	76995 1836715	163528 2727547	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Acrylonitrile	FB	Ave	19879 699187	36123 1838228	71539 3031108	162095 4263587	344112 5758054	5.00 200	10.0 500	20.0 750	50.0 1000	100 1500
Methylene Chloride	FB	Ave	++++ 162056	10642 428834	17895 683339	42565 938348	86625 1417382	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Methyl acetate	FB	Ave	7320 301760	15846 766430	29896 1326704	75135 1853187	152278 2613129	1.00 40.0	2.00 100	4.00 150	10.0 200	20.0 300
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	5015 159275	6966 423208	15513 677784	40462 920205	80607 1350898	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Carbon disulfide	FB	Lin2	++++ 581515	++++ 1413482	154286 2251752	228235 3004361	360864 4400084	++++ 20.0	++++ 50.0	2.00 75.0	5.00 100	10.0 150
trans-1,2-Dichloroethene	FB	Ave	4941 154138	7847 410579	16114 646481	41044 889608	78299 1351578	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Methyl tert-butyl ether	FB	Ave	++++ 456900	25419 1167072	46340 1829677	118960 2610563	229772 3753070	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,1-Dichloroethane	FB	Ave	8577 340428	16638 899539	35253 1387781	88152 1941877	173089 2876561	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Propionitrile	FB	Ave	++++ 307614	15885 802870	29130 1407213	71778 1843562	146762 2657072	++++ 250	12.5 625	25.0 938	62.5 1250	125 1875
Vinyl acetate	FB	Ave	++++ 39536	++++ 99554	3898 165941	8006 243079	18874 358487	++++ 50.0	++++ 125	5.00 188	12.5 250	25.0 375
2-Chloro-1,3-butadiene	FB	Ave	11468 418780	16495 1098828	41296 1738500	107440 2363935	212045 3423013	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Hexane	FB	Ave	8861 315814	14316 847330	32258 1384219	84045 1857463	160578 2628270	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Diisopropyl ether	FB	Ave	28797 1053976	52826 2724505	104694 4143284	266662 5561944	521646 7925239	0.625 25.0	1.25 62.5	2.50 93.8	6.25 125	12.5 188
2-Butanone	FB	Ave	2471 70262	4956 193990	7270 337796	16990 453834	37711 647360	2.50 100	5.00 250	10.0 375	25.0 500	50.0 750
Methacrylonitrile	FB	Ave	20588 595050	33443 1515752	55474 2572304	146063 3495728	292318 5021007	5.00 200	10.0 500	20.0 750	50.0 1000	100 1500
cis-1,2-Dichloroethene	FB	Lin2	6231 171325	9764 458359	18354 712533	41998 1000288	88086 1501919	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Ethyl acetate	FB	Ave	12888 412891	23188 1020556	38980 1788057	100040 2450206	205257 3438275	1.00 40.0	2.00 100	4.00 150	10.0 200	20.0 300
Bromochloromethane	FB	Ave	3644 127802	5611 330039	13484 540139	32877 743973	65713 1121449	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-87636-1

Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001

GC Column: DB-VRX

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16

Calibration End Date: 07/01/2019 17:56

Calibration ID: 27978

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Chloroform	FB	Ave	8781 338170	17069 892691	32461 1355651	81836 1859996	170246 2773207	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Ethyl t-butyl ether	FB	Ave	8969 303742	14470 785618	28801 1211112	75511 1648742	147581 2466431	0.625 25.0	1.25 62.5	2.50 93.8	6.25 125	12.5 188
Isobutanol	TBAd 9	Ave	++++ 316418	22874 891314	39717 1481199	92462 2023710	184389 2798696	++++ 500	25.0 1250	50.0 1875	125 2500	250 3750
2,2-Dichloropropane	FB	Ave	7568 242440	12461 623237	24676 924793	62569 1238540	125843 1836970	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Tetrahydrofuran	FB	Lin2	5706 125693	8654 297889	13718 532112	30453 730159	64480 1050580	1.00 40.0	2.00 100	4.00 150	10.0 200	20.0 300
1,2-Dichloroethane	FB	Ave	9194 310628	17878 797184	33285 1260819	81264 1724171	158259 2554814	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,1,1-Trichloroethane	FB	Ave	8363 325656	14526 858937	31324 1329773	81988 1817014	171262 2664054	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
n-Butyl alcohol	FB	Ave	++++ 110823	7128 290349	10937 540978	29328 725103	57835 984694	++++ 500	25.0 1250	50.0 1875	125 2500	250 3750
1,1-Dichloropropene	FB	Ave	6374 243834	11176 662985	26212 1036536	61096 1401767	123894 2073521	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Cyclohexane	FB	Ave	6124 232743	9755 626243	22237 982128	58890 1348285	119625 1977699	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Carbon tetrachloride	FB	Ave	9149 316747	14037 837872	31924 1312629	79881 1795321	160712 2616942	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Benzene	FB	Ave	19390 637947	37189 1656187	60844 2566070	162168 3533941	321803 5144386	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Tert-amyl methyl ether	FB	Ave	19210 601936	34887 1584303	62365 2437251	151339 3323129	305360 4853975	0.625 25.0	1.25 62.5	2.50 93.8	6.25 125	12.5 188
Ethyl acrylate	FB	Ave	9086 306384	16565 776162	31886 1352844	75278 1827019	152191 2641352	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
n-Heptane	FB	Ave	9163 350847	15580 901123	34161 1468912	89467 1949382	178770 2740505	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Dibromomethane	FB	Ave	3312 129005	7659 322313	12512 524192	30106 724241	61293 1078361	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2-Dichloropropane	FB	Ave	5314 186417	9481 470952	15594 776303	46676 1067605	90091 1614716	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
2-Nitropropane	FB	Ave	5210 163467	9520 407604	16770 709341	40382 953703	80288 1367482	1.00 40.0	2.00 100	4.00 150	10.0 200	20.0 300
Trichloroethene	FB	Ave	4792 195779	8779 507389	18060 812006	46113 1096915	96256 1622339	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Bromodichloromethane	FB	Ave	8265 271696	15522 709505	26154 1111251	68102 1537012	139647 2291325	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Methyl methacrylate	FB	Lin2	34218 217945	38544 529468	48497 886654	75082 1217284	125661 1770663	1.00 40.0	2.00 100	4.00 150	10.0 200	20.0 300

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-87636-1

Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001

GC Column: DB-VRX

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16

Calibration End Date: 07/01/2019 17:56

Calibration ID: 27978

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
2-Chloroethyl vinyl ether	CBNZ d5	Ave	++++ 113920	6003 296814	11049 509718	27284 690108	58634 1026221	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Methylcyclohexane	FB	Ave	6592 282531	13052 735721	27170 1175673	72427 1613037	147375 2384737	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
cis-1,3-Dichloropropene	CBNZ d5	Ave	8631 296220	15665 770306	28304 1243432	70703 1705840	153054 2557404	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
4-Methyl-2-pentanone	CBNZ d5	Ave	++++ 351052	20952 923537	39771 1548850	90824 2134692	181995 3070694	++++ 100	5.00 250	10.0 375	25.0 500	50.0 750
trans-1,3-Dichloropropene	CBNZ d5	Ave	++++ 286249	14830 764872	27746 1228933	68792 1687191	141529 2505163	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,1,2-Trichloroethane	CBNZ d5	Lin2	5924 149164	8625 385463	17427 628350	37396 854617	74800 1271334	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Toluene	CBNZ d5	Lin2	++++ 705955	45939 1806229	71149 2833853	175784 3830302	341821 5467356	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Ethyl methacrylate	CBNZ d5	Ave	6393 195596	11419 511965	17521 860796	48754 1180506	91501 1740154	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,3-Dichloropropane	CBNZ d5	Ave	++++ 253914	14336 640522	26009 1054374	59421 1433228	124051 2141957	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
2-Hexanone	CBNZ d5	Ave	++++ 342726	21907 888750	39108 1532703	89271 2065227	168878 2958993	++++ 100	5.00 250	10.0 375	25.0 500	50.0 750
Dibromochloromethane	CBNZ d5	Ave	++++ 228419	11975 590371	23359 943989	55900 1303236	109850 1973182	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
n-Butyl acetate	CBNZ d5	Ave	++++ 380100	24045 960080	41882 1637575	97970 2200992	186825 3164470	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2-Dibromoethane	CBNZ d5	Ave	5173 173291	9810 440991	16228 731172	42926 1013604	82266 1493892	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Tetrachloroethene	CBNZ d5	Ave	5432 163424	7360 441093	16925 698545	40021 935224	82694 1392910	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 216026	11736 559714	23184 886003	53843 1213132	107540 1847488	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Chlorobenzene	CBNZ d5	Ave	15534 514948	26654 1324727	51170 2106258	125759 2827983	254466 4184428	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Ethylbenzene	CBNZ d5	Ave	25365 836461	44595 2142962	81665 3373452	206032 4509917	413362 6332410	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
m-Xylene & p-Xylene	CBNZ d5	Ave	++++ 678324	38639 1748682	67226 2756512	165482 3711435	332123 5477617	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Bromoform	CBNZ d5	Ave	++++ 146709	7682 388665	14105 637686	34699 898767	70120 1332388	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Styrene	CBNZ d5	Ave	18039 532696	27093 1420244	50946 2228887	124668 3051126	261319 4466579	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
o-Xylene	CBNZ d5	Ave	++++ 696922	37833 1789276	71077 2799284	170387 3779727	335962 5424856	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-87636-1

Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001

GC Column: DB-VRX

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16

Calibration End Date: 07/01/2019 17:56

Calibration ID: 27978

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	++++ 187478	11952 475008	20273 781919	46913 1083498	90107 1588076	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	++++ 78037	4115 207080	8437 352660	17241 490247	34127 726068	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2,3-Trichloropropane	DCBd 4	Ave	++++ 62861	4006 157859	6834 261070	14841 353867	30595 512208	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Isopropylbenzene	CBNZ d5	Ave	++++ 892188	43422 2332495	87104 3640032	223407 4800158	456979 6622271	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Bromobenzene	DCBd 4	Ave	++++ 241288	13460 648161	24631 1011086	59941 1377802	116812 2056730	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
N-Propylbenzene	DCBd 4	Lin2	32147 995079	51655 2559686	98445 3967766	242435 5110342	493274 6939476	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
2-Chlorotoluene	DCBd 4	Ave	++++ 225330	11708 595135	24876 942101	57831 1264592	118575 1879949	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
4-Chlorotoluene	DCBd 4	Ave	++++ 233395	11967 610736	24598 977331	59108 1292536	114575 1953011	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,3,5-Trimethylbenzene	DCBd 4	Lin2	26419 782250	45138 2031642	79349 3154831	185341 4166612	385400 5769848	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
t-Butylbenzene	DCBd 4	Ave	++++ 666300	34942 1747522	66848 2728808	163706 3626998	333351 5062182	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2,4-Trimethylbenzene	DCBd 4	Ave	++++ 803165	43828 2069436	77207 3205624	190053 4235514	385422 5793424	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
sec-Butylbenzene	DCBd 4	Ave	++++ 949960	45942 2458469	95552 3800681	230236 4936148	469293 6567655	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Benzyl chloride	DCBd 4	Ave	++++ 97899	6285 252480	10458 417536	23716 555381	48879 792747	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,3-Dichlorobenzene	DCBd 4	Lin2	15675 456145	26116 1193399	43977 1889151	107449 2517501	221533 3578641	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,4-Dichlorobenzene	DCBd 4	Ave	++++ 459736	25888 1191668	44123 1897642	109674 2559878	225384 3642662	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
4-Isopropyltoluene	DCBd 4	Ave	++++ 833203	44064 2171411	85344 3376444	204083 4411907	416702 5878162	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2,3-Trimethylbenzene	DCBd 4	Ave	++++ 800178	44858 2098311	84063 3301825	196482 4323565	400201 5814210	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2-Dichlorobenzene	DCBd 4	Ave	++++ 432840	24815 1156133	46738 1831899	107120 2436107	219532 3440893	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
n-Butylbenzene	DCBd 4	Lin1	7000 190388	9072 512986	19691 816962	47514 1094901	96810 1542054	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin2	++++ 43222	2979 115622	4840 200867	9513 269242	22163 351511	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,3,5-Trichlorobenzene	DCBd 4	Ave	++++ 271477	15438 754942	28851 1247933	66236 1611807	137733 2051569	++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16 Calibration End Date: 07/01/2019 17:56 Calibration ID: 27978

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	Ave	+++++ 216742	11519 579573	20377 1004628	45456 1279789	102412 1566017	+++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Naphthalene	DCBd 4	Ave	+++++ 441308	23913 1211306	43694 2152404	95273 2770597	206476 3286463	+++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Hexachlorobutadiene	DCBd 4	Ave	2425 101254	5360 280349	10097 461280	23376 573484	52082 696667	0.500 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 161327	8883 426247	14530 756555	33982 961342	74857 1139005	+++++ 20.0	1.00 50.0	2.00 75.0	5.00 100	10.0 150
Dibromofluoromethane (Surr)	FB	Ave	192460 198250	198814 201576	195024 206458	196672 215518	194677 228605	19.5 19.5	19.5 19.5	19.5 19.5	19.5 19.5	19.5 19.5
1,2-Dichloroethane-d4 (Surr)	FB	Ave	261392 248811	260539 265203	256465 268521	259235 273364	267584 277173	19.5 19.5	19.5 19.5	19.5 19.5	19.5 19.5	19.5 19.5
Trifluorotoluene (Surr)	FB	Ave	353107 363100	362241 381849	341371 388764	351176 415296	350673 419075	20.0 20.0	20.0 20.0	20.0 20.0	20.0 20.0	20.0 20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	608408 617494	610291 666019	583836 681196	610350 718723	622849 742206	19.5 19.5	19.5 19.5	19.5 19.5	19.5 19.5	19.5 19.5
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	235069 251126	248706 271995	237301 271918	246636 293950	257717 298893	19.5 19.5	19.5 19.5	19.5 19.5	19.5 19.5	19.5 19.5

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 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.: 580-87636-1 Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16 Calibration End Date: 07/01/2019 17:56 Calibration ID: 27978

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-304491/3	070119003.D
Level 2	IC 580-304491/4	070119004.D
Level 3	IC 580-304491/5	070119005.D
Level 4	IC 580-304491/6	070119006.D
Level 5	IC 580-304491/7	070119007.D
Level 6	ICIS 580-304491/8	070119008.D
Level 7	IC 580-304491/9	070119009.D
Level 8	IC 580-304491/10	070119010.D
Level 9	IC 580-304491/11	070119011.D
Level 10	IC 580-304491/12	070119012.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Dichlorodifluoromethane	1.0						50					
Chloromethane	24.5						50					
Vinyl chloride	12.0						50					
Butadiene	11.3						50					
Bromomethane	7.8						50					
Chloroethane	++++	-9.2						50				
Dichlorofluoromethane	8.7						50					
3-Chloro-1-propene	++++	-12.9						50				
Acrolein	3.2						30					
Trichlorofluoromethane	15.8						50					
Acetonitrile	-1.3						50					
Isopropyl alcohol	3.4						30					
Acetone	4.8						30					
Ethyl ether	12.4						50					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16 Calibration End Date: 07/01/2019 17:56 Calibration ID: 27978

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 7	LVL 8	LVL 9	LVL 10		
1,1-Dichloroethene	17.3						50					
t-Butyl alcohol	-1.7						30					
Iodomethane	-4.3						50					
Acrylonitrile	11.1						50					
Methylene Chloride	++++	23.0						50				
Methyl acetate	-4.7						50					
1,1,2-Trichloro-1,2,2-trifluoroethane	23.1						50					
Carbon disulfide	++++	++++	1.7						30			
trans-1,2-Dichloroethene	21.6						50					
Methyl tert-butyl ether	++++	10.2						50				
1,1-Dichloroethane	-0.3						50					
Propionitrile	++++	3.0						50				
Vinyl acetate	++++	++++	6.3						50			
2-Chloro-1,3-butadiene	10.6						50					
Hexane	9.3						50					
Diisopropyl ether	10.6						50					
2-Butanone	23.8						50					
Methacrylonitrile	32.0						50					
cis-1,2-Dichloroethene	2.7						30					
Ethyl acetate	20.9						50					
Bromochloromethane	11.4						50					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16 Calibration End Date: 07/01/2019 17:56 Calibration ID: 27978

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 7	LVL 8	LVL 9	LVL 10		
Chloroform	4.6						50					
Ethyl t-butyl ether	18.8						50					
Isobutanol	+++++	10.3						50				
2,2-Dichloropropane	23.6						50					
Tetrahydrofuran	0.8						30					
1,2-Dichloroethane	13.6						50					
1,1,1-Trichloroethane	3.6						50					
n-Butyl alcohol	+++++	18.8						50				
1,1-Dichloropropene	2.8						50					
Cyclohexane	5.4						50					
Carbon tetrachloride	14.5						50					
Benzene	18.2						50					
Tert-amyl methyl ether	22.3						50					
Ethyl acrylate	13.8						50					
n-Heptane	5.8						50					
Dibromomethane	2.6						50					
1,2-Dichloropropane	14.2						50					
2-Nitropropane	21.6						50					
Trichloroethene	0.9						50					
Bromodichloromethane	17.4						50					
Methyl methacrylate	-0.3						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16 Calibration End Date: 07/01/2019 17:56 Calibration ID: 27978

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 7	LVL 8	LVL 9	LVL 10		
2-Chloroethyl vinyl ether	+++++	6.3						50				
Methylcyclohexane	-5.9						50					
cis-1,3-Dichloropropene	20.7						50					
4-Methyl-2-pentanone	+++++	15.7						50				
trans-1,3-Dichloropropene	+++++	6.0						50				
1,1,2-Trichloroethane	3.5						30					
Toluene	+++++	1.9						30				
Ethyl methacrylate	31.8						50					
1,3-Dichloropropane	+++++	16.2						50				
2-Hexanone	+++++	23.6						50				
Dibromochloromethane	+++++	8.0						50				
n-Butyl acetate	+++++	25.0						50				
1,2-Dibromoethane	23.2						50					
Tetrachloroethene	35.8						50					
1,1,1,2-Tetrachloroethane	+++++	10.4						50				
Chlorobenzene	26.2						50					
Ethylbenzene	27.7						50					
m-Xylene & p-Xylene	+++++	17.9						50				
Bromoform	+++++	6.8						50				
Styrene	39.2						50					
o-Xylene	+++++	13.6						50				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16 Calibration End Date: 07/01/2019 17:56 Calibration ID: 27978

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 7	LVL 8	LVL 9	LVL 10		
1,1,2,2-Tetrachloroethane	+++++	25.3						50				
trans-1,4-Dichloro-2-butene	+++++	5.1						50				
1,2,3-Trichloropropane	+++++	26.8						50				
Isopropylbenzene	+++++	2.9						50				
Bromobenzene	+++++	11.7						50				
N-Propylbenzene	2.5						30					
2-Chlorotoluene	+++++	3.2						50				
4-Chlorotoluene	+++++	3.7						50				
1,3,5-Trimethylbenzene	-0.4						30					
t-Butylbenzene	+++++	8.1						50				
1,2,4-Trimethylbenzene	+++++	15.0						50				
sec-Butylbenzene	+++++	2.7						50				
Benzyl chloride	+++++	26.5						50				
1,3-Dichlorobenzene	2.2						30					
1,4-Dichlorobenzene	+++++	15.6						50				
4-Isopropyltoluene	+++++	9.9						50				
1,2,3-Trimethylbenzene	+++++	14.4						50				
1,2-Dichlorobenzene	+++++	14.0						50				
n-Butylbenzene	9.8						30					
1,2-Dibromo-3-Chloropropane	+++++	1.5						30				
1,3,5-Trichlorobenzene	+++++	11.9						50				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304491

SDG No.: _____

Instrument ID: TAC001 GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/01/2019 14:16 Calibration End Date: 07/01/2019 17:56 Calibration ID: 27978

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 7	LVL 8	LVL 9	LVL 10		
1,2,4-Trichlorobenzene	+++++	10.5						50				
Naphthalene	+++++	9.4						50				
Hexachlorobutadiene	2.4						50					
1,2,3-Trichlorobenzene	+++++	14.8						50				
Dibromofluoromethane (Surr)	-1.5						50					
1,2-Dichloroethane-d4 (Surr)	2.7						50					
Trifluorotoluene (Surr)	-1.5						50					
Toluene-d8 (Surr)	3.9						50					
4-Bromofluorobenzene (Surr)	-0.7						50					

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Lab Sample ID: ICV 580-304544/13 Calibration Date: 07/01/2019 20:00

Instrument ID: SEA102 Calib Start Date: 07/01/2019 15:27

GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 19:10

Lab File ID: 070119_0018.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	Ave	1.097	1.158	0.1000	21.1	20.0	5.5	30.0
Chloromethane	Ave	0.4158	0.4890	0.1000	23.5	20.0	17.6	30.0
Vinyl chloride	Ave	1.096	1.208	0.1000	22.0	20.0	10.2	30.0
Butadiene	Ave	0.4327	0.4444		20.5	20.0	2.7	30.0
Bromomethane	Lin2		0.8365	0.1000	22.0	20.0	10.2	30.0
Chloroethane	Lin2		0.2638	0.0600	21.8	20.0	9.2	30.0
Dichlorofluoromethane	Ave	0.6629	0.6550		19.8	20.0	-1.2	30.0
Acrolein	Qua2		0.0646		77.4	120	-35.5*	30.0
Acetonitrile	Lin2		0.0423		267	250	7.0	30.0
Trichlorofluoromethane	Ave	1.537	1.649	0.1000	21.5	20.0	7.3	30.0
Isopropyl alcohol	Lin1		0.0229		228	200	14.0	30.0
Acetone	Lin2		0.0926	0.0200	109	100	9.2	30.0
Ethyl ether	Lin1		0.2317		23.8	20.0	19.2	30.0
1,1-Dichloroethene	Lin2		0.5515	0.1000	21.9	20.0	9.7	30.0
t-Butyl alcohol	Lin2		0.0299		229	200	14.6	30.0
Acrylonitrile	Lin2		0.0752		213	200	6.6	30.0
Iodomethane	Ave	0.4987	0.5095		20.4	20.0	2.2	30.0
Methylene Chloride	Lin2		0.2907	0.1000	20.7	20.0	3.7	30.0
Methyl acetate	Ave	0.1796	0.1819	0.1000	40.5	40.0	1.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.4882	0.4938	0.1000	20.2	20.0	1.1	30.0
3-Chloro-1-propene	Ave	0.3369	0.3353		19.9	20.0	-0.5	30.0
Carbon disulfide	Lin2		0.8876	0.1000	21.7	20.0	8.6	30.0
trans-1,2-Dichloroethene	Ave	0.2650	0.2569	0.1000	19.4	20.0	-3.1	30.0
Methyl tert-butyl ether	Ave	0.7438	0.7412	0.1000	19.9	20.0	-0.3	30.0
Propionitrile	Lin2		0.0351		272	250	8.9	30.0
1,1-Dichloroethane	Ave	1.043	0.9946	0.2000	19.1	20.0	-4.7	30.0
Vinyl acetate	Ave	0.0350	0.0589		84.1	50.0	68.1*	30.0
2-Chloro-1,3-butadiene	Ave	0.8461	0.8032		19.0	20.0	-5.1	30.0
Hexane	Ave	0.4176	0.4219		20.2	20.0	1.0	30.0
2-Butanone	Ave	0.0718	0.0746	0.0200	104	100	3.9	30.0
Diisopropyl ether	Ave	0.8477	0.7995		23.6	25.0	-5.7	30.0
Methacrylonitrile	Qua2		0.0387		222	200	11.0	30.0
cis-1,2-Dichloroethene	Ave	0.6959	0.6747	0.1000	19.4	20.0	-3.1	30.0
Ethyl acetate	Lin2		0.2517		44.1	40.0	10.3	30.0
Bromochloromethane	Ave	0.1622	0.1531		18.9	20.0	-5.6	30.0
Chloroform	Ave	1.153	1.104	0.2000	19.1	20.0	-4.3	30.0
Ethyl t-butyl ether	Ave	0.8411	0.7889		23.4	25.0	-6.2	30.0
Isobutanol	Qua2		0.0196		588	500	17.7	30.0
2,2-Dichloropropane	Ave	0.3307	0.3214		19.4	20.0	-2.8	30.0
Tetrahydrofuran	Lin2		0.0760		44.5	40.0	11.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Lab Sample ID: ICV 580-304544/13 Calibration Date: 07/01/2019 20:00

Instrument ID: SEA102 Calib Start Date: 07/01/2019 15:27

GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 19:10

Lab File ID: 070119_0018.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
1,2-Dichloroethane	Lin2		0.3663	0.1000	20.8	20.0	4.2	30.0
1,1,1-Trichloroethane	Ave	0.4597	0.4689	0.1000	20.4	20.0	2.0	30.0
n-Butyl alcohol	Lin2		0.0086		551	500	10.1	30.0
1,1-Dichloropropene	Ave	0.3796	0.3644		19.2	20.0	-4.0	30.0
Cyclohexane	Ave	0.9790	0.9662	0.1000	19.7	20.0	-1.3	30.0
Carbon tetrachloride	Ave	0.3967	0.3913	0.1000	19.7	20.0	-1.4	30.0
Benzene	Ave	2.366	2.364	0.5000	20.0	20.0	-0.0	30.0
Tert-amyl methyl ether	Lin2		0.8074		26.3	25.0	5.4	30.0
Ethyl acrylate	Qua2		0.4021		23.3	20.0	16.4	30.0
n-Heptane	Ave	0.4071	0.4191		20.6	20.0	2.9	30.0
Dibromomethane	Lin2		0.1924		20.9	20.0	4.3	30.0
1,2-Dichloropropane	Ave	0.6223	0.6127	0.1000	19.7	20.0	-1.6	30.0
2-Nitropropane	Qua2		0.0926		43.7	40.0	9.3	30.0
Trichloroethene	Ave	0.7017	0.6797	0.2000	19.4	20.0	-3.1	30.0
Bromodichloromethane	Lin2		0.9248	0.2000	22.1	20.0	10.7	30.0
Methyl methacrylate	Qua2		0.2416		46.6	40.0	16.6	30.0
2-Chloroethyl vinyl ether	Lin2		0.2839		22.2	20.0	10.9	30.0
Methylcyclohexane	Ave	1.165	1.137	0.1000	19.5	20.0	-2.4	30.0
cis-1,3-Dichloropropene	Lin2		0.9648	0.2000	21.7	20.0	8.5	30.0
4-Methyl-2-pentanone	Qua2		0.6194	0.0600	117	100	17.0	30.0
trans-1,3-Dichloropropene	Lin2		0.9905	0.1000	20.3	20.0	1.4	30.0
1,1,2-Trichloroethane	Lin2		0.5886	0.1000	21.8	20.0	9.2	30.0
Ethyl methacrylate	Ave	0.8397	0.8461		20.2	20.0	0.8	30.0
Toluene	Ave	1.705	1.625	0.4000	19.1	20.0	-4.7	30.0
1,3-Dichloropropane	Lin2		1.021		20.9	20.0	4.5	30.0
2-Hexanone	Qua1		0.2286	0.0600	115	100	14.9	30.0
Dibromochloromethane	Lin2		0.7819	0.1000	21.7	20.0	8.7	30.0
n-Butyl acetate	Lin2		1.055		22.8	20.0	14.2	30.0
1,2-Dibromoethane	Lin2		0.6517	0.1000	21.7	20.0	8.6	30.0
Tetrachloroethene	Ave	0.2532	0.2507	0.2000	19.8	20.0	-1.0	30.0
1,1,1,2-Tetrachloroethane	Lin2		0.7087		20.8	20.0	4.2	30.0
Chlorobenzene	Lin2		1.898	0.5000	20.9	20.0	4.6	30.0
Ethylbenzene	Lin2		1.031	0.1000	20.7	20.0	3.4	30.0
m-Xylene & p-Xylene	Lin2		2.514	0.1000	20.2	20.0	1.0	30.0
Styrene	Lin2		0.0586*	0.3000	19.5	20.0	-2.3	30.0
Bromoform	Ave	0.5276	0.5455	0.1000	20.7	20.0	3.4	30.0
1,1,2,2-Tetrachloroethane	Lin2		0.7992	0.3000	21.8	20.0	9.0	30.0
o-Xylene	Qua2		1.263	0.3000	21.7	20.0	8.7	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.2284		22.5	20.0	12.5	30.0
1,2,3-Trichloropropane	Lin2		0.2353		22.4	20.0	12.0	30.0
Isopropylbenzene	Ave	3.296	3.265	0.1000	19.8	20.0	-0.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: ICV 580-304544/13 Calibration Date: 07/01/2019 20:00
 Instrument ID: SEA102 Calib Start Date: 07/01/2019 15:27
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 19:10
 Lab File ID: 070119_0018.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
Bromobenzene	Lin2		0.8018		21.4	20.0	6.8	30.0
N-Propylbenzene	Lin2		0.8447		20.7	20.0	3.7	30.0
2-Chlorotoluene	Lin2		0.7563		21.0	20.0	5.1	30.0
4-Chlorotoluene	Lin2		2.175		21.0	20.0	5.1	30.0
1,3,5-Trimethylbenzene	Lin2		2.572		21.0	20.0	4.8	30.0
t-Butylbenzene	Lin2		2.179		20.8	20.0	4.1	30.0
1,2,4-Trimethylbenzene	Lin2		2.604		20.7	20.0	3.7	30.0
sec-Butylbenzene	Lin2		3.336		20.8	20.0	3.8	30.0
Benzyl chloride	Lin2		1.690		21.9	20.0	9.6	30.0
1,3-Dichlorobenzene	Ave	0.7977	0.7486	0.6000	18.8	20.0	-6.2	30.0
4-Isopropyltoluene	Lin2		3.004		20.3	20.0	1.3	30.0
1,4-Dichlorobenzene	Ave	1.722	1.700	0.5000	19.7	20.0	-1.3	30.0
1,2,3-Trimethylbenzene	Lin2		2.751		21.5	20.0	7.5	30.0
1,2-Dichlorobenzene	Lin2		1.501	0.4000	20.9	20.0	4.5	30.0
n-Butylbenzene	Lin2		2.718		20.9	20.0	4.4	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.1815	0.0500	23.6	20.0	18.1	30.0
1,3,5-Trichlorobenzene	Lin2		1.102		21.0	20.0	5.0	30.0
1,2,4-Trichlorobenzene	Ave	1.099	1.098	0.2000	20.0	20.0	-0.1	30.0
Naphthalene	Lin2		2.550		22.4	20.0	11.9	30.0
Hexachlorobutadiene	Lin2		0.2222		21.6	20.0	8.2	30.0
1,2,3-Trichlorobenzene	Lin2		0.9142		22.2	20.0	10.9	30.0
Dibromofluoromethane (Surr)	Ave	0.2814	0.2797		19.4	19.5	-0.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3096	0.3090		19.5	19.5	-0.2	30.0
Trifluorotoluene (Surr)	Ave	0.5041	0.5076		20.1	20.0	0.7	30.0
Toluene-d8 (Surr)	Ave	2.243	2.276		19.8	19.5	1.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9183	0.9028		19.2	19.5	-1.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-305636/3 Calibration Date: 07/15/2019 13:05
 Instrument ID: SEA102 Calib Start Date: 07/01/2019 15:27
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 19:10
 Lab File ID: 071519_0003.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	Ave	1.097	0.9000	0.1000	16.4	20.0	-18.0	20.0
Chloromethane	Ave	0.4158	0.3944	0.1000	19.0	20.0	-5.1	20.0
Vinyl chloride	Ave	1.096	1.101	0.1000	20.1	20.0	0.5	20.0
Butadiene	Ave	0.4327	0.4013		18.5	20.0	-7.3	20.0
Bromomethane	Lin2		0.8084	0.1000	21.3	20.0	6.4	20.0
Chloroethane	Lin2		0.2444	0.0600	20.2	20.0	1.1	20.0
Dichlorofluoromethane	Ave	0.6629	0.6274		18.9	20.0	-5.4	20.0
Acrolein	Qua2		0.0971		117	120	-2.3	20.0
Acetonitrile	Lin2		0.0331		207	250	-17.2	20.0
Trichlorofluoromethane	Ave	1.537	1.535	0.1000	20.0	20.0	-0.1	20.0
Isopropyl alcohol	Lin1		0.0167		164	200	-18.1	20.0
Acetone	Lin2		0.0621	0.0200	71.8	100	-28.2*	20.0
Ethyl ether	Lin1		0.1668		17.1	20.0	-14.6	20.0
1,1-Dichloroethene	Lin2		0.5078	0.1000	20.2	20.0	0.9	20.0
t-Butyl alcohol	Lin2		0.0211		160	200	-20.1*	20.0
Acrylonitrile	Lin2		0.0660		187	200	-6.5	20.0
Iodomethane	Ave	0.4987	0.4667		18.7	20.0	-6.4	20.0
Methylene Chloride	Lin2		0.2789	0.1000	19.9	20.0	-0.6	20.0
Methyl acetate	Ave	0.1796	0.1544	0.1000	34.4	40.0	-14.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.4882	0.4689	0.1000	19.2	20.0	-4.0	20.0
3-Chloro-1-propene	Ave	0.3369	0.3231		19.2	20.0	-4.1	20.0
Carbon disulfide	Lin2		0.8152	0.1000	19.9	20.0	-0.4	20.0
trans-1,2-Dichloroethene	Ave	0.2650	0.2583	0.1000	19.5	20.0	-2.5	20.0
Methyl tert-butyl ether	Ave	0.7438	0.6674	0.1000	17.9	20.0	-10.3	20.0
Propionitrile	Lin2		0.0292		225	250	-9.8	20.0
1,1-Dichloroethane	Ave	1.043	0.9675	0.2000	18.5	20.0	-7.3	20.0
Vinyl acetate	Ave	0.0350	0.0314		44.9	50.0	-10.3	20.0
2-Chloro-1,3-butadiene	Ave	0.8461	0.7152		16.9	20.0	-15.5	20.0
Hexane	Ave	0.4176	0.3747		17.9	20.0	-10.3	20.0
2-Butanone	Ave	0.0718	0.0598	0.0200	83.3	100	-16.7	20.0
Diisopropyl ether	Ave	0.8477	0.7155		21.1	25.0	-15.6	20.0
Methacrylonitrile	Qua2		0.0342		197	200	-1.5	20.0
cis-1,2-Dichloroethene	Ave	0.6959	0.6728	0.1000	19.3	20.0	-3.3	20.0
Ethyl acetate	Lin2		0.2002		35.0	40.0	-12.5	20.0
Bromochloromethane	Ave	0.1622	0.1557		19.2	20.0	-4.1	20.0
Chloroform	Ave	1.153	1.109	0.2000	19.2	20.0	-3.8	20.0
Ethyl t-butyl ether	Ave	0.8411	0.7324		21.8	25.0	-12.9	20.0
Isobutanol	Qua2		0.0153		461	500	-7.7	20.0
2,2-Dichloropropane	Ave	0.3307	0.3336		20.2	20.0	0.9	20.0
Tetrahydrofuran	Lin2		0.0583		34.0	40.0	-15.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-305636/3 Calibration Date: 07/15/2019 13:05
 Instrument ID: SEA102 Calib Start Date: 07/01/2019 15:27
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 19:10
 Lab File ID: 071519_0003.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
1,2-Dichloroethane	Lin2		0.3327	0.1000	18.9	20.0	-5.5	20.0
1,1,1-Trichloroethane	Ave	0.4597	0.4414	0.1000	19.2	20.0	-4.0	20.0
n-Butyl alcohol	Lin2		0.0066		417	500	-16.6	20.0
1,1-Dichloropropene	Ave	0.3796	0.3493		18.4	20.0	-8.0	20.0
Cyclohexane	Ave	0.9790	0.9634	0.1000	19.7	20.0	-1.6	20.0
Carbon tetrachloride	Ave	0.3967	0.3915	0.1000	19.7	20.0	-1.3	20.0
Benzene	Ave	2.366	2.330	0.5000	19.7	20.0	-1.5	20.0
Tert-amyl methyl ether	Lin2		0.7204		23.5	25.0	-6.1	20.0
Ethyl acrylate	Qua2		0.3221		18.8	20.0	-6.2	20.0
n-Heptane	Ave	0.4071	0.3436		16.9	20.0	-15.6	20.0
Dibromomethane	Lin2		0.1781		19.3	20.0	-3.5	20.0
1,2-Dichloropropane	Ave	0.6223	0.5691	0.1000	18.3	20.0	-8.6	20.0
2-Nitropropane	Qua2		0.0697		33.0	40.0	-17.4	20.0
Trichloroethene	Ave	0.7017	0.6949	0.2000	19.8	20.0	-1.0	20.0
Bromodichloromethane	Lin2		0.8570	0.2000	20.5	20.0	2.4	20.0
Methyl methacrylate	Qua2		0.1920		37.2	40.0	-7.0	20.0
2-Chloroethyl vinyl ether	Lin2		0.2337		18.2	20.0	-9.0	20.0
Methylcyclohexane	Ave	1.165	1.123	0.1000	19.3	20.0	-3.6	20.0
cis-1,3-Dichloropropene	Lin2		0.8731	0.2000	19.6	20.0	-2.0	20.0
4-Methyl-2-pentanone	Qua2		0.5126	0.0600	96.8	100	-3.2	20.0
trans-1,3-Dichloropropene	Lin2		0.9611	0.1000	19.7	20.0	-1.7	20.0
1,1,2-Trichloroethane	Lin2		0.5453	0.1000	20.2	20.0	0.9	20.0
Ethyl methacrylate	Ave	0.8397	0.6947		16.5	20.0	-17.3	20.0
Toluene	Ave	1.705	1.585	0.4000	18.6	20.0	-7.1	20.0
1,3-Dichloropropane	Lin2		0.9587		19.6	20.0	-2.0	20.0
2-Hexanone	Qua1		0.1788	0.0600	89.8	100	-10.2	20.0
Dibromochloromethane	Lin2		0.7192	0.1000	20.0	20.0	-0.1	20.0
n-Butyl acetate	Lin2		0.8255		17.7	20.0	-11.3	20.0
1,2-Dibromoethane	Lin2		0.6044	0.1000	20.1	20.0	0.6	20.0
Tetrachloroethene	Ave	0.2532	0.2500	0.2000	19.7	20.0	-1.3	20.0
1,1,1,2-Tetrachloroethane	Lin2		0.6845		20.1	20.0	0.5	20.0
Chlorobenzene	Lin2		1.831	0.5000	20.2	20.0	0.9	20.0
Ethylbenzene	Lin2		0.9816	0.1000	19.7	20.0	-1.7	20.0
m-Xylene & p-Xylene	Lin2		2.407	0.1000	19.3	20.0	-3.3	20.0
Styrene	Lin2		0.0568*	0.3000	18.9	20.0	-5.3	20.0
Bromoform	Ave	0.5276	0.4783	0.1000	18.1	20.0	-9.3	20.0
1,1,2,2-Tetrachloroethane	Lin2		0.6794	0.3000	18.5	20.0	-7.7	20.0
o-Xylene	Qua2		1.192	0.3000	20.6	20.0	2.8	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1799		17.5	20.0	-12.4	20.0
1,2,3-Trichloropropane	Lin2		0.2040		19.3	20.0	-3.3	20.0
Isopropylbenzene	Ave	3.296	3.187	0.1000	19.3	20.0	-3.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-305636/3 Calibration Date: 07/15/2019 13:05
 Instrument ID: SEA102 Calib Start Date: 07/01/2019 15:27
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 19:10
 Lab File ID: 071519_0003.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
Bromobenzene	Lin2		0.7480		19.9	20.0	-0.5	20.0
N-Propylbenzene	Lin2		0.7820		19.2	20.0	-4.1	20.0
2-Chlorotoluene	Lin2		0.6857		19.0	20.0	-4.9	20.0
4-Chlorotoluene	Lin2		1.980		19.1	20.0	-4.5	20.0
1,3,5-Trimethylbenzene	Lin2		2.340		19.0	20.0	-4.8	20.0
t-Butylbenzene	Lin2		2.019		19.3	20.0	-3.7	20.0
1,2,4-Trimethylbenzene	Lin2		2.392		19.0	20.0	-4.9	20.0
sec-Butylbenzene	Lin2		3.058		19.0	20.0	-5.0	20.0
Benzyl chloride	Lin2		1.511		19.5	20.0	-2.4	20.0
1,3-Dichlorobenzene	Ave	0.7977	0.7442	0.6000	18.7	20.0	-6.7	20.0
4-Isopropyltoluene	Lin2		2.734		18.4	20.0	-7.9	20.0
1,4-Dichlorobenzene	Ave	1.722	1.567	0.5000	18.2	20.0	-9.0	20.0
1,2,3-Trimethylbenzene	Lin2		2.485		19.4	20.0	-3.1	20.0
1,2-Dichlorobenzene	Lin2		1.484	0.4000	20.7	20.0	3.3	20.0
n-Butylbenzene	Lin2		2.546		19.5	20.0	-2.3	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.1525	0.0500	19.7	20.0	-1.4	20.0
1,3,5-Trichlorobenzene	Lin2		1.078		20.5	20.0	2.7	20.0
1,2,4-Trichlorobenzene	Ave	1.099	1.119	0.2000	20.4	20.0	1.8	20.0
Naphthalene	Lin2		2.333		20.4	20.0	2.1	20.0
Hexachlorobutadiene	Lin2		0.2053		20.0	20.0	-0.2	20.0
1,2,3-Trichlorobenzene	Lin2		0.8479		20.5	20.0	2.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2814	0.2790		19.3	19.5	-0.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3096	0.2991		18.8	19.5	-3.4	20.0
Trifluorotoluene (Surr)	Ave	0.5041	0.5141		20.4	20.0	2.0	20.0
Toluene-d8 (Surr)	Ave	2.243	2.307		20.1	19.5	2.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9183	0.9062		19.2	19.5	-1.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVL 580-305636/6 Calibration Date: 07/15/2019 14:21
 Instrument ID: SEA102 Calib Start Date: 07/01/2019 15:27
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 19:10
 Lab File ID: 071519_0006.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	Ave	1.097	0.7872	0.1000		1.00	-28.3	
Chloromethane	Ave	0.4158	0.5183	0.1000		1.00	24.7	
Vinyl chloride	Ave	1.096	1.180	0.1000	1.08	1.00	7.6	
Butadiene	Ave	0.4327	0.4485			1.00	3.7	
Bromomethane	Lin2		1.029	0.1000	1.13	1.00	12.6	
Chloroethane	Lin2		0.2749	0.0600		1.00	-16.7	
Dichlorofluoromethane	Ave	0.6629	0.7349		1.11	1.00	10.9	
Acrolein	Qua2		0.0997			6.00	-51.7	
Trichlorofluoromethane	Ave	1.537	1.033	0.1000	0.672	1.00	-32.8	
Acetonitrile	Lin2		0.0394			12.5	-78.4	
Isopropyl alcohol	Lin1		0.0283			10.0	-39.3	
Acetone	Lin2		0.1455	0.0200		5.00	-12.5	
Ethyl ether	Lin1		0.1887		0.709	1.00	-29.1	
1,1-Dichloroethene	Lin2		0.5671	0.1000	0.939	1.00	-6.1	
t-Butyl alcohol	Lin2		0.0362			10.0	-21.2	
Acrylonitrile	Lin2		0.0688			10.0	-24.7	
Iodomethane	Ave	0.4987	0.5049		1.01	1.00	1.2	
Methylene Chloride	Lin2		0.5155	0.1000		1.00	31.8	
Methyl acetate	Ave	0.1796	0.2201	0.1000		2.00	22.5	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.4882	0.4379	0.1000	0.897	1.00	-10.3	
3-Chloro-1-propene	Ave	0.3369	0.3486		1.03	1.00	3.5	
Carbon disulfide	Lin2		1.275	0.1000	1.21	1.00	20.8	
trans-1,2-Dichloroethene	Ave	0.2650	0.3001	0.1000	1.13	1.00	13.3	
Methyl tert-butyl ether	Ave	0.7438	0.8073	0.1000	1.09	1.00	8.5	
Propionitrile	Lin2		0.0357			12.5	-46.4	
1,1-Dichloroethane	Ave	1.043	1.059	0.2000	1.02	1.00	1.5	
Vinyl acetate	Ave	0.0350	0.0324		2.31	2.50	-7.6	
2-Chloro-1,3-butadiene	Ave	0.8461	0.7303		0.863	1.00	-13.7	
Hexane	Ave	0.4176	0.3585		0.858	1.00	-14.2	
2-Butanone	Ave	0.0718	0.0830	0.0200	5.78	5.00	15.6	
Diisopropyl ether	Ave	0.8477	0.7897		1.16	1.25	-6.8	
Methacrylonitrile	Qua2		0.0354		7.37	10.0	-26.3	
cis-1,2-Dichloroethene	Ave	0.6959	0.7233	0.1000	1.04	1.00	3.9	
Ethyl acetate	Lin2		0.2444		1.71	2.00	-14.5	
Bromochloromethane	Ave	0.1622	0.1605		0.989	1.00	-1.1	
Chloroform	Ave	1.153	1.200	0.2000	1.04	1.00	4.0	
Ethyl t-butyl ether	Ave	0.8411	0.7671		1.14	1.25	-8.8	
Isobutanol	Qua2		0.0180			25.0	-64.5	
2,2-Dichloropropane	Ave	0.3307	0.3473		1.05	1.00	5.0	
Tetrahydrofuran	Lin2		0.0924			2.00	-3.3	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVL 580-305636/6 Calibration Date: 07/15/2019 14:21
 Instrument ID: SEA102 Calib Start Date: 07/01/2019 15:27
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 19:10
 Lab File ID: 071519_0006.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
1,2-Dichloroethane	Lin2		0.4009	0.1000	0.892	1.00	-10.8	
1,1,1-Trichloroethane	Ave	0.4597	0.3982	0.1000	0.866	1.00	-13.4	
n-Butyl alcohol	Lin2		0.0091			25.0	-45.7	
1,1-Dichloropropene	Ave	0.3796	0.3356		0.884	1.00	-11.6	
Cyclohexane	Ave	0.9790	0.7842	0.1000	0.801	1.00	-19.9	
Carbon tetrachloride	Ave	0.3967	0.3297	0.1000	0.831	1.00	-16.9	
Benzene	Ave	2.366	2.464	0.5000	1.04	1.00	4.2	
Tert-amyl methyl ether	Lin2		0.7692			1.25	-23.9	
Ethyl acrylate	Qua2		0.3339			1.00	-37.8	
n-Heptane	Ave	0.4071	0.3319		0.815	1.00	-18.5	
Dibromomethane	Lin2		0.1880		0.806	1.00	-19.4	
1,2-Dichloropropane	Ave	0.6223	0.6372	0.1000	1.02	1.00	2.4	
2-Nitropropane	Qua2		0.0887			2.00	-42.5	
Trichloroethene	Ave	0.7017	0.7560	0.2000	1.08	1.00	7.7	
Bromodichloromethane	Lin2		0.9005	0.2000	0.770	1.00	-23.0	
Methyl methacrylate	Qua2		0.2215			2.00	-35.1	
2-Chloroethyl vinyl ether	Lin2		0.2858			1.00	-19.0	
Methylcyclohexane	Ave	1.165	0.9714	0.1000	0.834	1.00	-16.6	
cis-1,3-Dichloropropene	Lin2		0.9591	0.2000	0.692	1.00	-30.8	
4-Methyl-2-pentanone	Qua2		0.5820	0.0600		5.00	-50.5	
trans-1,3-Dichloropropene	Lin2		1.041	0.1000	0.720	1.00	-28.0	
1,1,2-Trichloroethane	Lin2		0.5965	0.1000	0.621	1.00	-37.9	
Ethyl methacrylate	Ave	0.8397	0.7435			1.00	-11.5	
Toluene	Ave	1.705	1.675	0.4000	0.983	1.00	-1.7	
1,3-Dichloropropane	Lin2		1.017		0.760	1.00	-24.0	
2-Hexanone	Qua1		0.2076	0.0600		5.00	-47.8	
Dibromochloromethane	Lin2		0.7330	0.1000	0.638	1.00	-36.2	
n-Butyl acetate	Lin2		0.9922			1.00	-46.4	
1,2-Dibromoethane	Lin2		0.6527	0.1000	0.764	1.00	-23.6	
Tetrachloroethene	Ave	0.2532	0.2336	0.2000	0.923	1.00	-7.7	
1,1,1,2-Tetrachloroethane	Lin2		0.7083		0.671	1.00	-32.9	
Chlorobenzene	Lin2		2.003	0.5000	0.790	1.00	-21.0	
Ethylbenzene	Lin2		1.037	0.1000	0.830	1.00	-17.0	
m-Xylene & p-Xylene	Lin2		2.512	0.1000	0.800	1.00	-20.0	
Styrene	Lin2		0.0745*	0.3000		1.00	-25.7	
Bromoform	Ave	0.5276	0.4514	0.1000	0.856	1.00	-14.4	
1,1,2,2-Tetrachloroethane	Lin2		0.8298	0.3000	0.651	1.00	-34.9	
o-Xylene	Qua2		1.192	0.3000	0.764	1.00	-23.6	
trans-1,4-Dichloro-2-butene	Lin1		0.2155			1.00	-82.7	
1,2,3-Trichloropropane	Lin2		0.2508		0.533	1.00	-46.7	
Isopropylbenzene	Ave	3.296	3.019	0.1000	0.916	1.00	-8.4	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVL 580-305636/6 Calibration Date: 07/15/2019 14:21
 Instrument ID: SEA102 Calib Start Date: 07/01/2019 15:27
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 19:10
 Lab File ID: 071519_0006.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
Bromobenzene	Lin2		0.8969		0.706	1.00	-29.4	
N-Propylbenzene	Lin2		0.8308		0.733	1.00	-26.7	
2-Chlorotoluene	Lin2		0.7683		0.668	1.00	-33.2	
4-Chlorotoluene	Lin2		2.177		0.635	1.00	-36.5	
1,3,5-Trimethylbenzene	Lin2		2.490		0.715	1.00	-28.5	
t-Butylbenzene	Lin2		2.015		0.647	1.00	-35.3	
1,2,4-Trimethylbenzene	Lin2		2.556		0.675	1.00	-32.5	
sec-Butylbenzene	Lin2		3.019		0.688	1.00	-31.2	
Benzyl chloride	Lin2		1.722		0.571	1.00	-42.9	
1,3-Dichlorobenzene	Ave	0.7977	0.8121	0.6000	1.02	1.00	1.8	
4-Isopropyltoluene	Lin2		2.722		0.703	1.00	-29.7	
1,4-Dichlorobenzene	Ave	1.722	1.813	0.5000	1.05	1.00	5.2	
1,2,3-Trimethylbenzene	Lin2		2.594			1.00	-36.7	
1,2-Dichlorobenzene	Lin2		1.698	0.4000	0.703	1.00	-29.7	
n-Butylbenzene	Lin2		2.564		0.721	1.00	-27.9	
1,2-Dibromo-3-Chloropropane	Lin2		0.1810	0.0500		1.00	-61.8	
1,3,5-Trichlorobenzene	Lin2		1.326		0.876	1.00	-12.4	
1,2,4-Trichlorobenzene	Ave	1.099	1.378	0.2000	1.25	1.00	25.3	
Naphthalene	Lin2		3.183			1.00	-24.0	
Hexachlorobutadiene	Lin2		0.2357			1.00	-23.2	
1,2,3-Trichlorobenzene	Lin2		1.149			1.00	-10.7	
Dibromofluoromethane (Surr)	Ave	0.2814	0.2680		18.6	19.5	-4.8	
1,2-Dichloroethane-d4 (Surr)	Ave	0.3096	0.3117		19.6	19.5	0.7	
Trifluorotoluene (Surr)	Ave	0.5041	0.5067		20.1	20.0	0.5	
Toluene-d8 (Surr)	Ave	2.243	2.308		20.1	19.5	2.9	
4-Bromofluorobenzene (Surr)	Ave	0.9183	0.8471		18.0	19.5	-7.8	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-305938/3 Calibration Date: 07/17/2019 18:12
 Instrument ID: SEA102 Calib Start Date: 07/01/2019 15:27
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 19:10
 Lab File ID: 071719_0016.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	Ave	1.097	0.6511	0.1000	11.9	20.0	-40.7*	20.0
Chloromethane	Ave	0.4158	0.3576	0.1000	17.2	20.0	-14.0	20.0
Vinyl chloride	Ave	1.096	1.024	0.1000	18.7	20.0	-6.7	20.0
Butadiene	Ave	0.4327	0.3771		17.4	20.0	-12.9	20.0
Bromomethane	Lin2		0.8018	0.1000	21.1	20.0	5.6	20.0
Chloroethane	Lin2		0.2460	0.0600	20.4	20.0	1.8	20.0
Dichlorofluoromethane	Ave	0.6629	0.6585		19.9	20.0	-0.7	20.0
Acrolein	Qua2		0.1062		128	120	6.9	20.0
Acetonitrile	Lin2		0.0395		249	250	-0.4	20.0
Trichlorofluoromethane	Ave	1.537	1.520	0.1000	19.8	20.0	-1.2	20.0
Isopropyl alcohol	Lin1		0.0204		202	200	1.2	20.0
Acetone	Lin2		0.0902	0.0200	106	100	6.2	20.0
Ethyl ether	Lin1		0.2046		21.0	20.0	5.1	20.0
1,1-Dichloroethene	Lin2		0.5092	0.1000	20.2	20.0	1.2	20.0
t-Butyl alcohol	Lin2		0.0246		188	200	-6.0	20.0
Acrylonitrile	Lin2		0.0637		180	200	-9.8	20.0
Iodomethane	Ave	0.4987	0.4921		19.7	20.0	-1.3	20.0
Methylene Chloride	Lin2		0.2907	0.1000	20.7	20.0	3.7	20.0
Methyl acetate	Ave	0.1796	0.1539	0.1000	34.3	40.0	-14.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.4882	0.4905	0.1000	20.1	20.0	0.5	20.0
3-Chloro-1-propene	Ave	0.3369	0.3048		18.1	20.0	-9.5	20.0
Carbon disulfide	Lin2		0.7866	0.1000	19.2	20.0	-3.9	20.0
trans-1,2-Dichloroethene	Ave	0.2650	0.2405	0.1000	18.2	20.0	-9.2	20.0
Methyl tert-butyl ether	Ave	0.7438	0.6758	0.1000	18.2	20.0	-9.1	20.0
Propionitrile	Lin2		0.0306		236	250	-5.5	20.0
1,1-Dichloroethane	Ave	1.043	0.9730	0.2000	18.7	20.0	-6.7	20.0
Vinyl acetate	Ave	0.0350	0.0327		46.7	50.0	-6.6	20.0
2-Chloro-1,3-butadiene	Ave	0.8461	0.7781		18.4	20.0	-8.0	20.0
Hexane	Ave	0.4176	0.3577		17.1	20.0	-14.3	20.0
2-Butanone	Ave	0.0718	0.0699	0.0200	97.4	100	-2.6	20.0
Diisopropyl ether	Ave	0.8477	0.7469		22.0	25.0	-11.9	20.0
Methacrylonitrile	Qua2		0.0360		207	200	3.6	20.0
cis-1,2-Dichloroethene	Ave	0.6959	0.6830	0.1000	19.6	20.0	-1.9	20.0
Ethyl acetate	Lin2		0.2201		38.5	40.0	-3.7	20.0
Bromochloromethane	Ave	0.1622	0.1544		19.0	20.0	-4.8	20.0
Chloroform	Ave	1.153	1.138	0.2000	19.7	20.0	-1.3	20.0
Ethyl t-butyl ether	Ave	0.8411	0.7362		21.9	25.0	-12.5	20.0
Isobutanol	Qua2		0.0164		494	500	-1.2	20.0
2,2-Dichloropropane	Ave	0.3307	0.3250		19.7	20.0	-1.7	20.0
Tetrahydrofuran	Lin2		0.0642		37.5	40.0	-6.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-305938/3 Calibration Date: 07/17/2019 18:12
 Instrument ID: SEA102 Calib Start Date: 07/01/2019 15:27
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 19:10
 Lab File ID: 071719_0016.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
1,2-Dichloroethane	Lin2		0.3495	0.1000	19.9	20.0	-0.7	20.0
1,1,1-Trichloroethane	Ave	0.4597	0.4376	0.1000	19.0	20.0	-4.8	20.0
n-Butyl alcohol	Lin2		0.0070		442	500	-11.7	20.0
1,1-Dichloropropene	Ave	0.3796	0.3466		18.3	20.0	-8.7	20.0
Cyclohexane	Ave	0.9790	0.9299	0.1000	19.0	20.0	-5.0	20.0
Carbon tetrachloride	Ave	0.3967	0.3641	0.1000	18.4	20.0	-8.2	20.0
Benzene	Ave	2.366	2.400	0.5000	20.3	20.0	1.4	20.0
Tert-amyl methyl ether	Lin2		0.7478		24.4	25.0	-2.5	20.0
Ethyl acrylate	Qua2		0.3445		20.0	20.0	0.2	20.0
n-Heptane	Ave	0.4071	0.3526		17.3	20.0	-13.4	20.0
Dibromomethane	Lin2		0.1813		19.6	20.0	-1.8	20.0
1,2-Dichloropropane	Ave	0.6223	0.5968	0.1000	19.2	20.0	-4.1	20.0
2-Nitropropane	Qua2		0.0696		33.0	40.0	-17.6	20.0
Trichloroethene	Ave	0.7017	0.7042	0.2000	20.1	20.0	0.4	20.0
Bromodichloromethane	Lin2		0.8841	0.2000	21.1	20.0	5.7	20.0
Methyl methacrylate	Qua2		0.1998		38.7	40.0	-3.3	20.0
2-Chloroethyl vinyl ether	Lin2		0.2314		18.0	20.0	-9.9	20.0
Methylcyclohexane	Ave	1.165	1.109	0.1000	19.0	20.0	-4.8	20.0
cis-1,3-Dichloropropene	Lin2		0.9505	0.2000	21.4	20.0	6.9	20.0
4-Methyl-2-pentanone	Qua2		0.5557	0.0600	105	100	5.0	20.0
trans-1,3-Dichloropropene	Lin2		0.9826	0.1000	20.1	20.0	0.6	20.0
1,1,2-Trichloroethane	Lin2		0.5721	0.1000	21.2	20.0	6.0	20.0
Ethyl methacrylate	Ave	0.8397	0.7604		18.1	20.0	-9.4	20.0
Toluene	Ave	1.705	1.647	0.4000	19.3	20.0	-3.4	20.0
1,3-Dichloropropane	Lin2		1.002		20.5	20.0	2.5	20.0
2-Hexanone	Qua1		0.1976	0.0600	99.3	100	-0.7	20.0
Dibromochloromethane	Lin2		0.7160	0.1000	19.9	20.0	-0.6	20.0
n-Butyl acetate	Lin2		0.8726		18.8	20.0	-6.0	20.0
1,2-Dibromoethane	Lin2		0.6179	0.1000	20.6	20.0	2.8	20.0
Tetrachloroethene	Ave	0.2532	0.2459	0.2000	19.4	20.0	-2.9	20.0
1,1,1,2-Tetrachloroethane	Lin2		0.6905		20.3	20.0	1.4	20.0
Chlorobenzene	Lin2		1.886	0.5000	20.8	20.0	4.0	20.0
Ethylbenzene	Lin2		1.002	0.1000	20.1	20.0	0.4	20.0
Styrene	Lin2		0.0554*	0.3000	18.5	20.0	-7.7	20.0
m-Xylene & p-Xylene	Lin2		2.419	0.1000	19.4	20.0	-2.8	20.0
Bromoform	Ave	0.5276	0.4590	0.1000	17.4	20.0	-13.0	20.0
1,1,2,2-Tetrachloroethane	Lin2		0.7481	0.3000	20.4	20.0	1.8	20.0
o-Xylene	Qua2		1.216	0.3000	21.0	20.0	4.8	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1908		18.6	20.0	-6.8	20.0
1,2,3-Trichloropropane	Lin2		0.2246		21.4	20.0	6.8	20.0
Isopropylbenzene	Ave	3.296	3.130	0.1000	19.0	20.0	-5.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-305938/3 Calibration Date: 07/17/2019 18:12
 Instrument ID: SEA102 Calib Start Date: 07/01/2019 15:27
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 19:10
 Lab File ID: 071719_0016.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
Bromobenzene	Lin2		0.8054		21.5	20.0	7.3	20.0
N-Propylbenzene	Lin2		0.8139		20.0	20.0	-0.1	20.0
2-Chlorotoluene	Lin2		0.7354		20.4	20.0	2.2	20.0
4-Chlorotoluene	Lin2		2.084		20.1	20.0	0.6	20.0
1,3,5-Trimethylbenzene	Lin2		2.458		20.0	20.0	0.1	20.0
t-Butylbenzene	Lin2		2.142		20.5	20.0	2.3	20.0
1,2,4-Trimethylbenzene	Lin2		2.525		20.1	20.0	0.5	20.0
sec-Butylbenzene	Lin2		3.195		19.9	20.0	-0.7	20.0
Benzyl chloride	Lin2		1.583		20.5	20.0	2.5	20.0
1,3-Dichlorobenzene	Ave	0.7977	0.7253	0.6000	18.2	20.0	-9.1	20.0
4-Isopropyltoluene	Lin2		2.862		19.3	20.0	-3.5	20.0
1,4-Dichlorobenzene	Ave	1.722	1.659	0.5000	19.3	20.0	-3.7	20.0
1,2,3-Trimethylbenzene	Lin2		2.635		20.6	20.0	2.9	20.0
1,2-Dichlorobenzene	Lin2		1.577	0.4000	22.0	20.0	9.9	20.0
n-Butylbenzene	Lin2		2.637		20.2	20.0	1.2	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.1640	0.0500	21.3	20.0	6.3	20.0
1,3,5-Trichlorobenzene	Lin2		1.137		21.7	20.0	8.5	20.0
1,2,4-Trichlorobenzene	Ave	1.099	1.113	0.2000	20.2	20.0	1.2	20.0
Naphthalene	Lin2		2.442		21.4	20.0	7.1	20.0
Hexachlorobutadiene	Lin2		0.2126		20.7	20.0	3.4	20.0
1,2,3-Trichlorobenzene	Lin2		0.9211		22.3	20.0	11.7	20.0
Dibromofluoromethane (Surr)	Ave	0.2814	0.2795		19.4	19.5	-0.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3096	0.3040		19.1	19.5	-1.8	20.0
Trifluorotoluene (Surr)	Ave	0.5041	0.5083		20.2	20.0	0.8	20.0
Toluene-d8 (Surr)	Ave	2.243	2.296		20.0	19.5	2.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9183	0.8687		18.4	19.5	-5.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVL 580-305938/6 Calibration Date: 07/17/2019 19:27
 Instrument ID: SEA102 Calib Start Date: 07/01/2019 15:27
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 19:10
 Lab File ID: 071719_0019.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	Ave	1.097	0.6429	0.1000		1.00	-41.4	
Chloromethane	Ave	0.4158	0.4377	0.1000		1.00	5.3	
Vinyl chloride	Ave	1.096	1.048	0.1000	0.956	1.00	-4.4	
Butadiene	Ave	0.4327	0.3591			1.00	-17.0	
Bromomethane	Lin2		0.9218	0.1000		1.00	-1.7	
Chloroethane	Lin2		0.2551	0.0600		1.00	-25.0	
Dichlorofluoromethane	Ave	0.6629	0.6826		1.03	1.00	3.0	
Acrolein	Qua2		0.1100			6.00	-40.9	
Acetonitrile	Lin2		0.0421			12.5	-71.3	
Trichlorofluoromethane	Ave	1.537	1.483	0.1000	0.965	1.00	-3.5	
Isopropyl alcohol	Lin1		0.0300			10.0	-30.6	
Acetone	Lin2		0.2001	0.0200		5.00	54.5	
Ethyl ether	Lin1		0.2248		0.897	1.00	-10.3	
1,1-Dichloroethene	Lin2		0.5986	0.1000	1.00	1.00	0.2	
t-Butyl alcohol	Lin2		0.0321			10.0	-37.4	
Acrylonitrile	Lin2		0.0654			10.0	-29.6	
Iodomethane	Ave	0.4987	0.4572		0.917	1.00	-8.3	
Methylene Chloride	Lin2		0.8703	0.1000	2.62	1.00	161.9	
Methyl acetate	Ave	0.1796	0.1844	0.1000		2.00	2.6	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.4882	0.4795	0.1000	0.982	1.00	-1.8	
3-Chloro-1-propene	Ave	0.3369	0.3238		0.961	1.00	-3.9	
Carbon disulfide	Lin2		0.9101	0.1000	0.754	1.00	-24.6	
trans-1,2-Dichloroethene	Ave	0.2650	0.2668	0.1000	1.01	1.00	0.7	
Methyl tert-butyl ether	Ave	0.7438	0.6898	0.1000	0.927	1.00	-7.3	
Propionitrile	Lin2		0.0321			12.5	-58.1	
1,1-Dichloroethane	Ave	1.043	0.9876	0.2000	0.947	1.00	-5.3	
Vinyl acetate	Ave	0.0350	0.0276		1.97	2.50	-21.3	
2-Chloro-1,3-butadiene	Ave	0.8461	0.7686		0.908	1.00	-9.2	
Hexane	Ave	0.4176	0.3371		0.807	1.00	-19.3	
Diisopropyl ether	Ave	0.8477	0.7037		1.04	1.25	-17.0	
2-Butanone	Ave	0.0718	0.0730	0.0200	5.08	5.00	1.7	
Methacrylonitrile	Qua2		0.0299		5.69	10.0	-43.1	
cis-1,2-Dichloroethene	Ave	0.6959	0.8100	0.1000	1.16	1.00	16.4	
Ethyl acetate	Lin2		0.1867			2.00	-40.0	
Bromochloromethane	Ave	0.1622	0.1611		0.993	1.00	-0.7	
Chloroform	Ave	1.153	1.122	0.2000	0.974	1.00	-2.6	
Ethyl t-butyl ether	Ave	0.8411	0.6685		0.993	1.25	-20.5	
Isobutanol	Qua2		0.0154			25.0	-81.4	
2,2-Dichloropropane	Ave	0.3307	0.3203		0.968	1.00	-3.2	
Tetrahydrofuran	Lin2		0.0788			2.00	-23.7	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVL 580-305938/6 Calibration Date: 07/17/2019 19:27
 Instrument ID: SEA102 Calib Start Date: 07/01/2019 15:27
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 19:10
 Lab File ID: 071719_0019.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
1,2-Dichloroethane	Lin2		0.3516	0.1000	0.750	1.00	-25.0	
1,1,1-Trichloroethane	Ave	0.4597	0.4011	0.1000	0.873	1.00	-12.7	
n-Butyl alcohol	Lin2		0.0080			25.0	-59.9	
1,1-Dichloropropene	Ave	0.3796	0.3325		0.876	1.00	-12.4	
Cyclohexane	Ave	0.9790	0.8758	0.1000	0.895	1.00	-10.5	
Carbon tetrachloride	Ave	0.3967	0.3191	0.1000	0.804	1.00	-19.6	
Benzene	Ave	2.366	2.320	0.5000	0.981	1.00	-1.9	
Tert-amyl methyl ether	Lin2		0.6795			1.25	-35.8	
Ethyl acrylate	Qua2		0.3072			1.00	-46.1	
n-Heptane	Ave	0.4071	0.3022		0.742	1.00	-25.8	
Dibromomethane	Lin2		0.1654		0.682	1.00	-31.8	
1,2-Dichloropropane	Ave	0.6223	0.5633	0.1000	0.905	1.00	-9.5	
2-Nitropropane	Qua2		0.0730			2.00	-62.4	
Trichloroethene	Ave	0.7017	0.6533	0.2000	0.931	1.00	-6.9	
Bromodichloromethane	Lin2		0.7882	0.2000	0.634	1.00	-36.6	
Methyl methacrylate	Qua2		0.1999			2.00	-46.2	
2-Chloroethyl vinyl ether	Lin2		0.2126			1.00	-48.0	
Methylcyclohexane	Ave	1.165	1.047	0.1000	0.899	1.00	-10.1	
cis-1,3-Dichloropropene	Lin2		0.8704	0.2000	0.590	1.00	-41.0	
4-Methyl-2-pentanone	Qua2		0.5371	0.0600		5.00	-59.5	
trans-1,3-Dichloropropene	Lin2		0.8710	0.1000	0.542	1.00	-45.8	
1,1,2-Trichloroethane	Lin2		0.5212	0.1000	0.479	1.00	-52.1	
Ethyl methacrylate	Ave	0.8397	0.6749			1.00	-19.6	
Toluene	Ave	1.705	1.491	0.4000	0.875	1.00	-12.5	
1,3-Dichloropropane	Lin2		0.9266		0.666	1.00	-33.4	
2-Hexanone	Qua1		0.1933	0.0600		5.00	-55.4	
Dibromochloromethane	Lin2		0.5762	0.1000		1.00	-58.4	
n-Butyl acetate	Lin2		0.9257			1.00	-53.8	
1,2-Dibromoethane	Lin2		0.5597	0.1000	0.606	1.00	-39.4	
Tetrachloroethene	Ave	0.2532	0.2204	0.2000	0.870	1.00	-13.0	
1,1,1,2-Tetrachloroethane	Lin2		0.6527		0.587	1.00	-41.3	
Chlorobenzene	Lin2		1.767	0.5000	0.657	1.00	-34.3	
Ethylbenzene	Lin2		0.9221	0.1000	0.714	1.00	-28.6	
Styrene	Lin2		0.0625*	0.3000		1.00	-46.3	
m-Xylene & p-Xylene	Lin2		2.241	0.1000		1.00	-31.0	
Bromoform	Ave	0.5276	0.3669	0.1000	0.695	1.00	-30.5	
1,1,2,2-Tetrachloroethane	Lin2		0.7531	0.3000	0.544	1.00	-45.6	
o-Xylene	Qua2		1.099	0.3000	0.680	1.00	-32.0	
trans-1,4-Dichloro-2-butene	Lin1		0.1923			1.00	-94.6	
1,2,3-Trichloropropane	Lin2		0.2482		0.520	1.00	-48.0	
Isopropylbenzene	Ave	3.296	2.890	0.1000	0.877	1.00	-12.3	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVL 580-305938/6 Calibration Date: 07/17/2019 19:27
 Instrument ID: SEA102 Calib Start Date: 07/01/2019 15:27
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 19:10
 Lab File ID: 071719_0019.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
Bromobenzene	Lin2		0.7907		0.562	1.00	-43.8	
N-Propylbenzene	Lin2		0.7545		0.638	1.00	-36.2	
2-Chlorotoluene	Lin2		0.7127		0.589	1.00	-41.1	
4-Chlorotoluene	Lin2		1.979		0.537	1.00	-46.3	
1,3,5-Trimethylbenzene	Lin2		2.204		0.596	1.00	-40.4	
t-Butylbenzene	Lin2		1.960		0.620	1.00	-38.0	
1,2,4-Trimethylbenzene	Lin2		2.376			1.00	-39.8	
sec-Butylbenzene	Lin2		2.862		0.639	1.00	-36.1	
Benzyl chloride	Lin2		1.436			1.00	-62.0	
1,3-Dichlorobenzene	Ave	0.7977	0.7137	0.6000	0.895	1.00	-10.5	
1,4-Dichlorobenzene	Ave	1.722	1.668	0.5000		1.00	-3.2	
4-Isopropyltoluene	Lin2		2.608		0.664	1.00	-33.6	
1,2,3-Trimethylbenzene	Lin2		2.466			1.00	-41.7	
1,2-Dichlorobenzene	Lin2		1.651	0.4000	0.669	1.00	-33.1	
n-Butylbenzene	Lin2		2.405		0.659	1.00	-34.1	
1,2-Dibromo-3-Chloropropane	Lin2		0.1826	0.0500		1.00	-60.7	
1,3,5-Trichlorobenzene	Lin2		1.254		0.805	1.00	-19.5	
1,2,4-Trichlorobenzene	Ave	1.099	1.294	0.2000	1.18	1.00	17.7	
Naphthalene	Lin2		3.067			1.00	-29.2	
Hexachlorobutadiene	Lin2		0.2324			1.00	-24.8	
1,2,3-Trichlorobenzene	Lin2		1.097			1.00	-17.2	
Dibromofluoromethane (Surr)	Ave	0.2814	0.2785		19.3	19.5	-1.0	
1,2-Dichloroethane-d4 (Surr)	Ave	0.3096	0.3089		19.5	19.5	-0.2	
Trifluorotoluene (Surr)	Ave	0.5041	0.4984		19.8	20.0	-1.1	
Toluene-d8 (Surr)	Ave	2.243	2.354		20.5	19.5	5.0	
4-Bromofluorobenzene (Surr)	Ave	0.9183	0.8497		18.0	19.5	-7.5	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Lab Sample ID: ICV 580-304491/14 Calibration Date: 07/01/2019 18:45

Instrument ID: TAC001 Calib Start Date: 07/01/2019 14:16

GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 17:56

Lab File ID: 070119014.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	Ave	0.3630	0.4031	0.1000	22.2	20.0	11.0	30.0
Chloromethane	Ave	0.4798	0.5764	0.1000	24.0	20.0	20.1	30.0
Vinyl chloride	Ave	0.3562	0.4176	0.1000	23.4	20.0	17.2	30.0
Butadiene	Ave	0.4290	0.4558		21.2	20.0	6.2	30.0
Bromomethane	Ave	0.2381	0.2574	0.1000	21.6	20.0	8.1	30.0
Chloroethane	Ave	0.0550	0.0586*	0.0600	21.3	20.0	6.7	30.0
Dichlorofluoromethane	Ave	0.5428	0.5642		20.8	20.0	3.9	30.0
3-Chloro-1-propene	Ave	0.0326	0.0359		22.0	20.0	10.1	30.0
Acrolein	Qua2		0.0599		89.1	120	-25.7	30.0
Acetonitrile	Ave	0.0170	0.0183		270	250	8.0	30.0
Trichlorofluoromethane	Ave	0.5693	0.5972	0.1000	21.0	20.0	4.9	30.0
Isopropyl alcohol	Lin2		0.7681		219	200	9.4	30.0
Acetone	Lin1		0.0895	0.0200	92.8	100	-7.2	30.0
Ethyl ether	Ave	0.2444	0.2487		20.3	20.0	1.7	30.0
1,1-Dichloroethene	Ave	0.2359	0.2497	0.1000	21.2	20.0	5.9	30.0
t-Butyl alcohol	Lin2		0.0310		223	200	11.6	30.0
Acrylonitrile	Ave	0.1137	0.1188		209	200	4.5	30.0
Iodomethane	Ave	0.5034	0.5485		21.8	20.0	9.0	30.0
Methylene Chloride	Ave	0.2763	0.2777	0.1000	20.1	20.0	0.5	30.0
Methyl acetate	Ave	0.2441	0.2567	0.1000	42.1	40.0	5.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2588	0.2623	0.1000	20.3	20.0	1.3	30.0
Carbon disulfide	Lin2		0.9909	0.1000	20.8	20.0	4.0	30.0
trans-1,2-Dichloroethene	Ave	0.2582	0.2601	0.1000	20.2	20.0	0.8	30.0
Methyl tert-butyl ether	Ave	0.7362	0.7264	0.1000	19.7	20.0	-1.3	30.0
1,1-Dichloroethane	Ave	0.5464	0.5372	0.2000	19.7	20.0	-1.7	30.0
Propionitrile	Ave	0.0394	0.0421		267	250	6.7	30.0
Vinyl acetate	Ave	0.0248	0.0450		90.6	50.0	81.3*	30.0
2-Chloro-1,3-butadiene	Ave	0.6589	0.6393		19.4	20.0	-3.0	30.0
Hexane	Ave	0.5152	0.5542		21.5	20.0	7.6	30.0
2-Butanone	Ave	0.0254	0.0261	0.0200	103	100	2.8	30.0
Diisopropyl ether	Ave	1.323	1.333		25.2	25.0	0.7	30.0
Methacrylonitrile	Ave	0.0991	0.0993		200	200	0.2	30.0
cis-1,2-Dichloroethene	Lin2		0.2885	0.1000	21.1	20.0	5.4	30.0
Ethyl acetate	Ave	0.3387	0.3428		40.5	40.0	1.2	30.0
Bromochloromethane	Ave	0.2078	0.2016		19.4	20.0	-2.9	30.0
Chloroform	Ave	0.5332	0.5183	0.2000	19.4	20.0	-2.8	30.0
Ethyl t-butyl ether	Ave	0.3838	0.3679		24.0	25.0	-4.1	30.0
Isobutanol	Ave	0.8662	0.8364		483	500	-3.4	30.0
2,2-Dichloropropane	Ave	0.3890	0.3604		18.5	20.0	-7.4	30.0
Tetrahydrofuran	Lin2		0.1025		41.9	40.0	4.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: ICV 580-304491/14 Calibration Date: 07/01/2019 18:45
 Instrument ID: TAC001 Calib Start Date: 07/01/2019 14:16
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 17:56
 Lab File ID: 070119014.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
1,2-Dichloroethane	Ave	0.5142	0.4934	0.1000	19.2	20.0	-4.0	30.0
1,1,1-Trichloroethane	Ave	0.5128	0.5030	0.1000	19.6	20.0	-1.9	30.0
n-Butyl alcohol	Ave	0.0077	0.0083		541	500	8.3	30.0
1,1-Dichloropropene	Ave	0.3941	0.3891		19.7	20.0	-1.3	30.0
Cyclohexane	Ave	0.3692	0.3892	0.1000	21.1	20.0	5.4	30.0
Carbon tetrachloride	Ave	0.5078	0.4910	0.1000	19.3	20.0	-3.3	30.0
Benzene	Ave	1.042	1.040	0.5000	20.0	20.0	-0.2	30.0
Tert-amyl methyl ether	Ave	0.7984	0.8105		25.4	25.0	1.5	30.0
Ethyl acrylate	Ave	0.5072	0.5217		20.6	20.0	2.9	30.0
n-Heptane	Ave	0.5502	0.5831		21.2	20.0	6.0	30.0
Dibromomethane	Ave	0.2051	0.2071		20.2	20.0	1.0	30.0
1,2-Dichloropropane	Ave	0.2957	0.3121	0.1000	21.1	20.0	5.6	30.0
2-Nitropropane	Ave	0.1362	0.1335		39.2	40.0	-1.9	30.0
Trichloroethene	Ave	0.3019	0.3147	0.2000	20.8	20.0	4.2	30.0
Bromodichloromethane	Ave	0.4472	0.4437	0.2000	19.8	20.0	-0.8	30.0
Methyl methacrylate	Lin2		0.1919		42.9	40.0	7.3	30.0
2-Chloroethyl vinyl ether	Ave	0.1949	0.1995		20.5	20.0	2.4	30.0
Methylcyclohexane	Ave	0.4452	0.4546	0.1000	20.4	20.0	2.1	30.0
cis-1,3-Dichloropropene	Ave	0.5092	0.5123	0.2000	20.1	20.0	0.6	30.0
4-Methyl-2-pentanone	Ave	0.1250	0.1277	0.0600	102	100	2.2	30.0
trans-1,3-Dichloropropene	Ave	0.4829	0.4721	0.1000	19.6	20.0	-2.2	30.0
1,1,2-Trichloroethane	Lin2		0.2542	0.1000	20.6	20.0	3.0	30.0
Ethyl methacrylate	Ave	0.3453	0.3482		20.2	20.0	0.9	30.0
Toluene	Lin2		1.202	0.4000	21.5	20.0	7.6	30.0
1,3-Dichloropropane	Ave	0.4260	0.4357		20.5	20.0	2.3	30.0
2-Hexanone	Ave	0.1224	0.1213	0.0600	99.1	100	-0.9	30.0
Dibromochloromethane	Ave	0.3830	0.3866	0.1000	20.2	20.0	0.9	30.0
n-Butyl acetate	Ave	0.6642	0.6666		20.1	20.0	0.4	30.0
1,2-Dibromoethane	Ave	0.2990	0.2889	0.1000	19.3	20.0	-3.4	30.0
Tetrachloroethene	Ave	0.2847	0.2819	0.2000	19.8	20.0	-1.0	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3669	0.3588		19.6	20.0	-2.2	30.0
Chlorobenzene	Ave	0.8766	0.8815	0.5000	20.1	20.0	0.6	30.0
Ethylbenzene	Ave	1.414	1.423	0.1000	20.1	20.0	0.6	30.0
m-Xylene & p-Xylene	Ave	1.131	1.133	0.1000	20.0	20.0	0.2	30.0
Bromoform	Ave	0.2484	0.2564	0.1000	20.6	20.0	3.2	30.0
Styrene	Ave	0.9225	0.9290	0.3000	20.1	20.0	0.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5961	0.5965	0.3000	20.0	20.0	0.0	30.0
o-Xylene	Ave	1.150	1.178	0.3000	20.5	20.0	2.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2447	0.2561		20.9	20.0	4.6	30.0
1,2,3-Trichloropropane	Ave	0.1974	0.1926		19.5	20.0	-2.5	30.0
Isopropylbenzene	Ave	1.457	1.510	0.1000	20.7	20.0	3.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: ICV 580-304491/14 Calibration Date: 07/01/2019 18:45
 Instrument ID: TAC001 Calib Start Date: 07/01/2019 14:16
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 17:56
 Lab File ID: 070119014.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
Bromobenzene	Ave	0.7530	0.7783		20.7	20.0	3.4	30.0
N-Propylbenzene	Lin2		3.158		22.2	20.0	11.1	30.0
2-Chlorotoluene	Ave	0.7090	0.7385		20.8	20.0	4.2	30.0
4-Chlorotoluene	Ave	0.7208	0.7491		20.8	20.0	3.9	30.0
1,3,5-Trimethylbenzene	Lin2		2.441		21.5	20.0	7.7	30.0
t-Butylbenzene	Ave	2.020	2.114		20.9	20.0	4.7	30.0
1,2,4-Trimethylbenzene	Ave	2.381	2.534		21.3	20.0	6.4	30.0
sec-Butylbenzene	Ave	2.795	2.941		21.0	20.0	5.2	30.0
Benzyl chloride	Ave	0.3106	0.3145		20.3	20.0	1.3	30.0
1,3-Dichlorobenzene	Lin2		1.425	0.6000	21.4	20.0	6.9	30.0
1,4-Dichlorobenzene	Ave	1.399	1.454	0.5000	20.8	20.0	3.9	30.0
4-Isopropyltoluene	Ave	2.505	2.668		21.3	20.0	6.5	30.0
1,2,3-Trimethylbenzene	Ave	2.450	2.583		21.1	20.0	5.4	30.0
1,2-Dichlorobenzene	Ave	1.360	1.365	0.4000	20.1	20.0	0.4	30.0
n-Butylbenzene	Lin1		0.5928		20.9	20.0	4.3	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.1435	0.0500	21.6	20.0	8.0	30.0
1,3,5-Trichlorobenzene	Ave	0.8618	0.9274		21.5	20.0	7.6	30.0
1,2,4-Trichlorobenzene	Ave	0.6515	0.7117	0.2000	21.8	20.0	9.2	30.0
Naphthalene	Ave	1.366	1.509		22.1	20.0	10.5	30.0
Hexachlorobutadiene	Ave	0.3110	0.3588		23.1	20.0	15.4	30.0
1,2,3-Trichlorobenzene	Ave	0.4836	0.5355		22.1	20.0	10.7	30.0
Dibromofluoromethane (Surr)	Ave	0.3183	0.3003		18.4	19.5	-5.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4147	0.4046		19.0	19.5	-2.4	30.0
Trifluorotoluene (Surr)	Ave	0.5697	0.5752		20.2	20.0	1.0	30.0
Toluene-d8 (Surr)	Ave	1.069	1.057		19.3	19.5	-1.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4321	0.4304		19.4	19.5	-0.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Lab Sample ID: CCVIS 580-306136/3 Calibration Date: 07/19/2019 11:23

Instrument ID: TAC001 Calib Start Date: 07/01/2019 14:16

GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 17:56

Lab File ID: 071919003.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	Ave	0.3630	0.2222	0.1000	12.2	20.0	-38.8*	20.0
Chloromethane	Ave	0.4798	0.3890	0.1000	16.2	20.0	-18.9	20.0
Vinyl chloride	Ave	0.3562	0.2977	0.1000	16.7	20.0	-16.4	20.0
Butadiene	Ave	0.4290	0.3772		17.6	20.0	-12.1	20.0
Bromomethane	Ave	0.2381	0.2093	0.1000	17.6	20.0	-12.1	20.0
Chloroethane	Ave	0.0550	0.0501*	0.0600	18.2	20.0	-8.8	20.0
Dichlorofluoromethane	Ave	0.5428	0.5177		19.1	20.0	-4.6	20.0
3-Chloro-1-propene	Ave	0.0326	0.0308		18.9	20.0	-5.6	20.0
Acrolein	Qua2		0.0948		139	120	15.9	20.0
Acetonitrile	Ave	0.0170	0.0167		247	250	-1.3	20.0
Trichlorofluoromethane	Ave	0.5693	0.5536	0.1000	19.4	20.0	-2.8	20.0
Isopropyl alcohol	Lin2		0.7915		226	200	12.8	20.0
Acetone	Lin1		0.1164	0.0200	121	100	21.5*	20.0
Ethyl ether	Ave	0.2444	0.2242		18.3	20.0	-8.3	20.0
1,1-Dichloroethene	Ave	0.2359	0.2039	0.1000	17.3	20.0	-13.6	20.0
t-Butyl alcohol	Lin2		0.0331		239	200	19.5	20.0
Acrylonitrile	Ave	0.1137	0.1109		195	200	-2.5	20.0
Iodomethane	Ave	0.5034	0.4886		19.4	20.0	-2.9	20.0
Methylene Chloride	Ave	0.2763	0.2525	0.1000	18.3	20.0	-8.6	20.0
Methyl acetate	Ave	0.2441	0.2463	0.1000	40.4	40.0	0.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2588	0.2329	0.1000	18.0	20.0	-10.0	20.0
Carbon disulfide	Lin2		0.7395	0.1000	14.3	20.0	-28.3*	20.0
trans-1,2-Dichloroethene	Ave	0.2582	0.2376	0.1000	18.4	20.0	-8.0	20.0
Methyl tert-butyl ether	Ave	0.7362	0.7322	0.1000	19.9	20.0	-0.5	20.0
1,1-Dichloroethane	Ave	0.5464	0.5118	0.2000	18.7	20.0	-6.3	20.0
Propionitrile	Ave	0.0394	0.0435		276	250	10.3	20.0
Vinyl acetate	Ave	0.0248	0.0232		46.8	50.0	-6.4	20.0
2-Chloro-1,3-butadiene	Ave	0.6589	0.6508		19.8	20.0	-1.2	20.0
Hexane	Ave	0.5152	0.4803		18.6	20.0	-6.8	20.0
2-Butanone	Ave	0.0254	0.0241	0.0200	95.0	100	-5.0	20.0
Diisopropyl ether	Ave	1.323	1.278		24.1	25.0	-3.4	20.0
Methacrylonitrile	Ave	0.0991	0.0951		192	200	-4.0	20.0
cis-1,2-Dichloroethene	Lin2		0.2565	0.1000	18.7	20.0	-6.4	20.0
Ethyl acetate	Ave	0.3387	0.3420		40.4	40.0	1.0	20.0
Bromochloromethane	Ave	0.2078	0.1906		18.3	20.0	-8.3	20.0
Chloroform	Ave	0.5332	0.5133	0.2000	19.3	20.0	-3.7	20.0
Ethyl t-butyl ether	Ave	0.3838	0.3641		23.7	25.0	-5.1	20.0
Isobutanol	Ave	0.8662	0.7601		439	500	-12.3	20.0
2,2-Dichloropropane	Ave	0.3890	0.3784		19.5	20.0	-2.7	20.0
Tetrahydrofuran	Lin2		0.1016		41.5	40.0	3.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-306136/3 Calibration Date: 07/19/2019 11:23
 Instrument ID: TAC001 Calib Start Date: 07/01/2019 14:16
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 17:56
 Lab File ID: 071919003.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
1,2-Dichloroethane	Ave	0.5142	0.5235	0.1000	20.4	20.0	1.8	20.0
1,1,1-Trichloroethane	Ave	0.5128	0.5120	0.1000	20.0	20.0	-0.2	20.0
n-Butyl alcohol	Ave	0.0077	0.0082		532	500	6.5	20.0
1,1-Dichloropropene	Ave	0.3941	0.3722		18.9	20.0	-5.5	20.0
Cyclohexane	Ave	0.3692	0.3359	0.1000	18.2	20.0	-9.0	20.0
Carbon tetrachloride	Ave	0.5078	0.5106	0.1000	20.1	20.0	0.6	20.0
Benzene	Ave	1.042	0.9492	0.5000	18.2	20.0	-8.9	20.0
Tert-amyl methyl ether	Ave	0.7984	0.7762		24.3	25.0	-2.8	20.0
Ethyl acrylate	Ave	0.5072	0.4920		19.4	20.0	-3.0	20.0
n-Heptane	Ave	0.5502	0.5303		19.3	20.0	-3.6	20.0
Dibromomethane	Ave	0.2051	0.1916		18.7	20.0	-6.6	20.0
1,2-Dichloropropane	Ave	0.2957	0.2824	0.1000	19.1	20.0	-4.5	20.0
2-Nitropropane	Ave	0.1362	0.1440		42.3	40.0	5.8	20.0
Trichloroethene	Ave	0.3019	0.2782	0.2000	18.4	20.0	-7.9	20.0
Bromodichloromethane	Ave	0.4472	0.4339	0.2000	19.4	20.0	-3.0	20.0
Methyl methacrylate	Lin2		0.1825		40.5	40.0	1.3	20.0
2-Chloroethyl vinyl ether	Ave	0.1949	0.2002		20.5	20.0	2.7	20.0
Methylcyclohexane	Ave	0.4452	0.4072	0.1000	18.3	20.0	-8.5	20.0
cis-1,3-Dichloropropene	Ave	0.5092	0.5003	0.2000	19.7	20.0	-1.7	20.0
4-Methyl-2-pentanone	Ave	0.1250	0.1325	0.0600	106	100	5.9	20.0
trans-1,3-Dichloropropene	Ave	0.4829	0.5137	0.1000	21.3	20.0	6.4	20.0
1,1,2-Trichloroethane	Lin2		0.2635	0.1000	21.4	20.0	6.9	20.0
Ethyl methacrylate	Ave	0.3453	0.3324		19.3	20.0	-3.7	20.0
Toluene	Lin2		1.151	0.4000	20.6	20.0	3.0	20.0
1,3-Dichloropropane	Ave	0.4260	0.4251		20.0	20.0	-0.2	20.0
2-Hexanone	Ave	0.1224	0.1297	0.0600	106	100	6.0	20.0
Dibromochloromethane	Ave	0.3830	0.3900	0.1000	20.4	20.0	1.8	20.0
n-Butyl acetate	Ave	0.6642	0.6912		20.8	20.0	4.1	20.0
1,2-Dibromoethane	Ave	0.2990	0.2970	0.1000	19.9	20.0	-0.7	20.0
Tetrachloroethene	Ave	0.2847	0.2772	0.2000	19.5	20.0	-2.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3669	0.3777		20.6	20.0	2.9	20.0
Chlorobenzene	Ave	0.8766	0.8540	0.5000	19.5	20.0	-2.6	20.0
Ethylbenzene	Ave	1.414	1.375	0.1000	19.4	20.0	-2.8	20.0
m-Xylene & p-Xylene	Ave	1.131	1.142	0.1000	20.2	20.0	1.0	20.0
Bromoform	Ave	0.2484	0.2645	0.1000	21.3	20.0	6.5	20.0
Styrene	Ave	0.9225	0.8895	0.3000	19.3	20.0	-3.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5961	0.5919	0.3000	19.9	20.0	-0.7	20.0
o-Xylene	Ave	1.150	1.165	0.3000	20.3	20.0	1.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2447	0.2189		17.9	20.0	-10.6	20.0
1,2,3-Trichloropropane	Ave	0.1974	0.1952		19.8	20.0	-1.1	20.0
Isopropylbenzene	Ave	1.457	1.505	0.1000	20.7	20.0	3.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVIS 580-306136/3 Calibration Date: 07/19/2019 11:23
 Instrument ID: TAC001 Calib Start Date: 07/01/2019 14:16
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 17:56
 Lab File ID: 071919003.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
Bromobenzene	Ave	0.7530	0.7385		19.6	20.0	-1.9	20.0
N-Propylbenzene	Lin2		3.074		21.6	20.0	8.1	20.0
2-Chlorotoluene	Ave	0.7090	0.6933		19.6	20.0	-2.2	20.0
4-Chlorotoluene	Ave	0.7208	0.7412		20.6	20.0	2.8	20.0
1,3,5-Trimethylbenzene	Lin2		2.433		21.5	20.0	7.3	20.0
t-Butylbenzene	Ave	2.020	2.090		20.7	20.0	3.5	20.0
1,2,4-Trimethylbenzene	Ave	2.381	2.496		21.0	20.0	4.8	20.0
sec-Butylbenzene	Ave	2.795	2.927		20.9	20.0	4.7	20.0
Benzyl chloride	Ave	0.3106	0.3239		20.9	20.0	4.3	20.0
1,3-Dichlorobenzene	Lin2		1.431	0.6000	21.5	20.0	7.4	20.0
1,4-Dichlorobenzene	Ave	1.399	1.443	0.5000	20.6	20.0	3.1	20.0
4-Isopropyltoluene	Ave	2.505	2.564		20.5	20.0	2.4	20.0
1,2,3-Trimethylbenzene	Ave	2.450	2.579		21.1	20.0	5.3	20.0
1,2-Dichlorobenzene	Ave	1.360	1.398	0.4000	20.6	20.0	2.8	20.0
n-Butylbenzene	Lin1		0.5701		20.1	20.0	0.3	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.1491	0.0500	22.5	20.0	12.3	20.0
1,3,5-Trichlorobenzene	Ave	0.8618	0.9562		22.2	20.0	11.0	20.0
1,2,4-Trichlorobenzene	Ave	0.6515	0.7755	0.2000	23.8	20.0	19.0	20.0
Naphthalene	Ave	1.366	1.631		23.9	20.0	19.4	20.0
Hexachlorobutadiene	Ave	0.3110	0.3853		24.8	20.0	23.9*	20.0
1,2,3-Trichlorobenzene	Ave	0.4836	0.6036		25.0	20.0	24.8*	20.0
Dibromofluoromethane (Surr)	Ave	0.3183	0.3171		19.4	19.5	-0.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4147	0.4480		21.1	19.5	8.0	20.0
Trifluorotoluene (Surr)	Ave	0.5697	0.5537		19.4	20.0	-2.8	20.0
Toluene-d8 (Surr)	Ave	1.069	1.096		20.0	19.5	2.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4321	0.4264		19.2	19.5	-1.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVL 580-306136/6 Calibration Date: 07/19/2019 12:36
 Instrument ID: TAC001 Calib Start Date: 07/01/2019 14:16
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 17:56
 Lab File ID: 071919006.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	Ave	0.3630	0.2164	0.1000		1.00	-40.4	
Chloromethane	Ave	0.4798	0.4938	0.1000		1.00	2.9	
Vinyl chloride	Ave	0.3562	0.3019	0.1000	0.848	1.00	-15.2	
Butadiene	Ave	0.4290	0.3863			1.00	-10.0	
Bromomethane	Ave	0.2381	0.2363	0.1000		1.00	-0.7	
Chloroethane	Ave	0.0550	0.0435*	0.0600		1.00	-20.9	
Dichlorofluoromethane	Ave	0.5428	0.5234		0.964	1.00	-3.6	
3-Chloro-1-propene	Ave	0.0326	0.0247		0.758	1.00	-24.2	
Acrolein	Qua2		0.0887			6.00	4.5	
Acetonitrile	Ave	0.0170	0.0060			12.5	-64.8	
Trichlorofluoromethane	Ave	0.5693	0.5679	0.1000	0.998	1.00	-0.2	
Isopropyl alcohol	Lin2		0.6774			10.0	-54.5	
Acetone	Lin1		0.1505	0.0200		5.00	10.7	
Ethyl ether	Ave	0.2444	0.2352		0.962	1.00	-3.8	
1,1-Dichloroethene	Ave	0.2359	0.2963	0.1000	1.26	1.00	25.6	
t-Butyl alcohol	Lin2		0.0410			10.0	-5.5	
Iodomethane	Ave	0.5034	0.4884		0.970	1.00	-3.0	
Acrylonitrile	Ave	0.1137	0.1155		10.2	10.0	1.5	
Methylene Chloride	Ave	0.2763	0.3949	0.1000	1.43	1.00	42.9	
Methyl acetate	Ave	0.2441	0.2840	0.1000		2.00	16.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2588	0.2552	0.1000	0.986	1.00	-1.4	
Carbon disulfide	Lin2		0.8345	0.1000		1.00	-460.5	
trans-1,2-Dichloroethene	Ave	0.2582	0.2788	0.1000	1.08	1.00	8.0	
Methyl tert-butyl ether	Ave	0.7362	0.8219	0.1000	1.12	1.00	11.7	
1,1-Dichloroethane	Ave	0.5464	0.5962	0.2000	1.09	1.00	9.1	
Propionitrile	Ave	0.0394	0.0358		11.4	12.5	-9.1	
Vinyl acetate	Ave	0.0248	0.0160		1.62	2.50	-35.3	
2-Chloro-1,3-butadiene	Ave	0.6589	0.7203		1.09	1.00	9.3	
Hexane	Ave	0.5152	0.4224		0.820	1.00	-18.0	
Diisopropyl ether	Ave	1.323	1.384		1.31	1.25	4.6	
2-Butanone	Ave	0.0254	0.0246	0.0200	4.86	5.00	-2.9	
Methacrylonitrile	Ave	0.0991	0.0875		8.84	10.0	-11.6	
cis-1,2-Dichloroethene	Lin2		0.2925	0.1000	0.863	1.00	-13.7	
Ethyl acetate	Ave	0.3387	0.3077		1.82	2.00	-9.1	
Bromochloromethane	Ave	0.2078	0.2116		1.02	1.00	1.9	
Chloroform	Ave	0.5332	0.5566	0.2000	1.04	1.00	4.4	
Ethyl t-butyl ether	Ave	0.3838	0.3902		1.27	1.25	1.7	
Isobutanol	Ave	0.8662	0.8952			25.0	3.3	
2,2-Dichloropropane	Ave	0.3890	0.4017		1.03	1.00	3.3	
Tetrahydrofuran	Lin2		0.1181			2.00	-21.0	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVL 580-306136/6 Calibration Date: 07/19/2019 12:36
 Instrument ID: TAC001 Calib Start Date: 07/01/2019 14:16
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 17:56
 Lab File ID: 071919006.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
1,2-Dichloroethane	Ave	0.5142	0.6326	0.1000	1.23	1.00	23.0	
1,1,1-Trichloroethane	Ave	0.5128	0.5557	0.1000	1.08	1.00	8.4	
n-Butyl alcohol	Ave	0.0077	0.0040			25.0	-48.0	
1,1-Dichloropropene	Ave	0.3941	0.3914		0.993	1.00	-0.7	
Cyclohexane	Ave	0.3692	0.3525	0.1000	0.955	1.00	-4.5	
Carbon tetrachloride	Ave	0.5078	0.5255	0.1000	1.04	1.00	3.5	
Benzene	Ave	1.042	1.063	0.5000	1.02	1.00	2.0	
Tert-amyl methyl ether	Ave	0.7984	0.7781			1.25	-2.5	
Ethyl acrylate	Ave	0.5072	0.4598			1.00	-9.4	
n-Heptane	Ave	0.5502	0.5624		1.02	1.00	2.2	
Dibromomethane	Ave	0.2051	0.2032		0.991	1.00	-0.9	
1,2-Dichloropropane	Ave	0.2957	0.2802	0.1000	0.948	1.00	-5.2	
2-Nitropropane	Ave	0.1362	0.1530		2.25	2.00	12.3	
Trichloroethene	Ave	0.3019	0.2601	0.2000	0.862	1.00	-13.8	
Bromodichloromethane	Ave	0.4472	0.4880	0.2000	1.09	1.00	9.1	
Methyl methacrylate	Lin2		0.6342			2.00	7.5	
2-Chloroethyl vinyl ether	Ave	0.1949	0.2322			1.00	19.1	
Methylcyclohexane	Ave	0.4452	0.3638	0.1000	0.817	1.00	-18.3	
cis-1,3-Dichloropropene	Ave	0.5092	0.5910	0.2000	1.16	1.00	16.1	
4-Methyl-2-pentanone	Ave	0.1250	0.1444	0.0600	5.77	5.00	15.5	
trans-1,3-Dichloropropene	Ave	0.4829	0.5662	0.1000	1.17	1.00	17.3	
1,1,2-Trichloroethane	Lin2		0.2808	0.1000	0.806	1.00	-19.4	
Toluene	Lin2		1.327	0.4000	0.782	1.00	-21.8	
Ethyl methacrylate	Ave	0.3453	0.3463			1.00	0.3	
1,3-Dichloropropane	Ave	0.4260	0.4661		1.09	1.00	9.4	
2-Hexanone	Ave	0.1224	0.1446	0.0600	5.91	5.00	18.1	
Dibromochloromethane	Ave	0.3830	0.4181	0.1000	1.09	1.00	9.1	
n-Butyl acetate	Ave	0.6642	0.8149			1.00	22.7	
1,2-Dibromoethane	Ave	0.2990	0.3615	0.1000	1.21	1.00	20.9	
Tetrachloroethene	Ave	0.2847	0.3025	0.2000	1.06	1.00	6.2	
1,1,1,2-Tetrachloroethane	Ave	0.3669	0.4140		1.13	1.00	12.8	
Chlorobenzene	Ave	0.8766	1.030	0.5000	1.17	1.00	17.5	
Ethylbenzene	Ave	1.414	1.654	0.1000	1.17	1.00	16.9	
m-Xylene & p-Xylene	Ave	1.131	1.623	0.1000	1.43	1.00	43.4	
Bromoform	Ave	0.2484	0.2597	0.1000	1.05	1.00	4.5	
Styrene	Ave	0.9225	0.9463	0.3000	1.03	1.00	2.6	
1,1,2,2-Tetrachloroethane	Ave	0.5961	0.6592	0.3000	1.11	1.00	10.6	
o-Xylene	Ave	1.150	1.431	0.3000	1.24	1.00	24.4	
trans-1,4-Dichloro-2-butene	Ave	0.2447	0.1378			1.00	-43.7	
1,2,3-Trichloropropane	Ave	0.1974	0.2037		1.03	1.00	3.2	
Isopropylbenzene	Ave	1.457	1.586	0.1000	1.09	1.00	8.9	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVL 580-306136/6 Calibration Date: 07/19/2019 12:36
 Instrument ID: TAC001 Calib Start Date: 07/01/2019 14:16
 GC Column: DB-VRX ID: 0.25 (mm) Calib End Date: 07/01/2019 17:56
 Lab File ID: 071919006.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
Bromobenzene	Ave	0.7530	0.8045		1.07	1.00	6.9	
N-Propylbenzene	Lin2		3.282		0.929	1.00	-7.1	
2-Chlorotoluene	Ave	0.7090	0.7278		1.03	1.00	2.7	
4-Chlorotoluene	Ave	0.7208	0.8186		1.14	1.00	13.6	
1,3,5-Trimethylbenzene	Lin2		2.770		0.960	1.00	-4.0	
t-Butylbenzene	Ave	2.020	2.224		1.10	1.00	10.1	
1,2,4-Trimethylbenzene	Ave	2.381	3.170		1.33	1.00	33.1	
sec-Butylbenzene	Ave	2.795	3.121		1.12	1.00	11.7	
Benzyl chloride	Ave	0.3106	0.3546		1.14	1.00	14.2	
1,3-Dichlorobenzene	Lin2		1.575	0.6000	0.926	1.00	-7.4	
1,4-Dichlorobenzene	Ave	1.399	1.736	0.5000	1.24	1.00	24.0	
4-Isopropyltoluene	Ave	2.505	2.818		1.13	1.00	12.5	
1,2,3-Trimethylbenzene	Ave	2.450	2.991		1.22	1.00	22.1	
1,2-Dichlorobenzene	Ave	1.360	1.634	0.4000	1.20	1.00	20.1	
n-Butylbenzene	Lin1		0.6858		0.952	1.00	-4.8	
1,2-Dibromo-3-Chloropropane	Lin2		0.1870	0.0500		1.00	2.2	
1,3,5-Trichlorobenzene	Ave	0.8618	1.189		1.38	1.00	38.0	
1,2,4-Trichlorobenzene	Ave	0.6515	0.9189	0.2000	1.41	1.00	41.0	
Naphthalene	Ave	1.366	1.928		1.41	1.00	41.1	
Hexachlorobutadiene	Ave	0.3110	0.4239		1.36	1.00	36.3	
1,2,3-Trichlorobenzene	Ave	0.4836	0.7371		1.52	1.00	52.4	
Dibromofluoromethane (Surr)	Ave	0.3183	0.3099		19.0	19.5	-2.6	
1,2-Dichloroethane-d4 (Surr)	Ave	0.4147	0.4534		21.3	19.5	9.3	
Trifluorotoluene (Surr)	Ave	0.5697	0.5444		19.1	20.0	-4.4	
Toluene-d8 (Surr)	Ave	1.069	1.174		21.4	19.5	9.9	
4-Bromofluorobenzene (Surr)	Ave	0.4321	0.4391		19.8	19.5	1.6	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-305636/7
 Matrix: Water Lab File ID: 071519_0007.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2019 14:47
 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.: 305636 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		3.0	0.53
108-88-3	Toluene	ND		2.0	0.39
100-41-4	Ethylbenzene	ND		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
95-47-6	o-Xylene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
98-08-8	Trifluorotoluene (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-305938/7
 Matrix: Water Lab File ID: 071719_0020.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 19:52
 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.: 305938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		3.0	0.53
108-88-3	Toluene	ND		2.0	0.39
100-41-4	Ethylbenzene	ND		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
95-47-6	o-Xylene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
98-08-8	Trifluorotoluene (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-306136/7
 Matrix: Water Lab File ID: 071919007.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2019 13:00
 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.: 306136 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		3.0	0.53
108-88-3	Toluene	ND		2.0	0.39
100-41-4	Ethylbenzene	ND		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	ND		3.0	0.75
95-47-6	o-Xylene	ND		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	110		80-120
98-08-8	Trifluorotoluene (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-305636/4
 Matrix: Water Lab File ID: 071519_0004.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2019 13:31
 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.: 305636 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	9.47		3.0	0.53
108-88-3	Toluene	8.92		2.0	0.39
100-41-4	Ethylbenzene	9.22		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	9.04		3.0	0.75
95-47-6	o-Xylene	9.92		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
98-08-8	Trifluorotoluene (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-305938/4
 Matrix: Water Lab File ID: 071719_0017.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 18:37
 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.: 305938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	9.96		3.0	0.53
108-88-3	Toluene	9.21		2.0	0.39
100-41-4	Ethylbenzene	9.34		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	9.15		3.0	0.75
95-47-6	o-Xylene	10.1		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
98-08-8	Trifluorotoluene (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-306136/4
 Matrix: Water Lab File ID: 071919004.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2019 11:47
 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.: 306136 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	9.29		3.0	0.53
108-88-3	Toluene	11.0		2.0	0.39
100-41-4	Ethylbenzene	10.8		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	11.1		3.0	0.75
95-47-6	o-Xylene	11.3		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	106		80-120
98-08-8	Trifluorotoluene (Surr)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-305636/5
 Matrix: Water Lab File ID: 071519_0005.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2019 13:56
 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.: 305636 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	9.65		3.0	0.53
108-88-3	Toluene	9.04		2.0	0.39
100-41-4	Ethylbenzene	9.39		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	9.30		3.0	0.75
95-47-6	o-Xylene	10.1		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
98-08-8	Trifluorotoluene (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-305938/5
 Matrix: Water Lab File ID: 071719_0018.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 19:02
 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.: 305938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	9.82		3.0	0.53
108-88-3	Toluene	9.20		2.0	0.39
100-41-4	Ethylbenzene	9.29		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	9.17		3.0	0.75
95-47-6	o-Xylene	9.90		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
98-08-8	Trifluorotoluene (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-306136/5
 Matrix: Water Lab File ID: 071919005.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2019 12:11
 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.: 306136 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	9.27		3.0	0.53
108-88-3	Toluene	9.98		2.0	0.39
100-41-4	Ethylbenzene	9.98		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	10.1		3.0	0.75
95-47-6	o-Xylene	10.2		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
98-08-8	Trifluorotoluene (Surr)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: MW-304D-W-190710 MS Lab Sample ID: 580-87636-9 MS
 Matrix: Water Lab File ID: 071719_0035.D
 Analysis Method: 8260C Date Collected: 07/10/2019 15:15
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 02:09
 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.: 305938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	5.50		3.0	0.53
108-88-3	Toluene	4.68		2.0	0.39
100-41-4	Ethylbenzene	4.42		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	4.83		3.0	0.75
95-47-6	o-Xylene	4.70		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	105		80-120
98-08-8	Trifluorotoluene (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-126

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: MW-304D-W-190710 MSD Lab Sample ID: 580-87636-9 MSD
 Matrix: Water Lab File ID: 071719_0036.D
 Analysis Method: 8260C Date Collected: 07/10/2019 15:15
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 02:34
 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.: 305938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	5.79		3.0	0.53
108-88-3	Toluene	4.73		2.0	0.39
100-41-4	Ethylbenzene	4.40		3.0	0.50
179601-23-1	m-Xylene & p-Xylene	4.50		3.0	0.75
95-47-6	o-Xylene	4.79		2.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
98-08-8	Trifluorotoluene (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-126

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA102 Start Date: 07/01/2019 15:02

Analysis Batch Number: 304544 End Date: 07/01/2019 21:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-304544/1		07/01/2019 15:02	1	070119_0006.D	DB-VRX 0.25 (mm)
IC 580-304544/2		07/01/2019 15:27	1	070119_0007.D	DB-VRX 0.25 (mm)
IC 580-304544/3		07/01/2019 15:52	1	070119_0008.D	DB-VRX 0.25 (mm)
IC 580-304544/4		07/01/2019 16:17	1	070119_0009.D	DB-VRX 0.25 (mm)
IC 580-304544/5		07/01/2019 16:41	1	070119_0010.D	DB-VRX 0.25 (mm)
IC 580-304544/6		07/01/2019 17:06	1	070119_0011.D	DB-VRX 0.25 (mm)
ICIS 580-304544/7		07/01/2019 17:31	1	070119_0012.D	DB-VRX 0.25 (mm)
IC 580-304544/8		07/01/2019 17:55	1	070119_0013.D	DB-VRX 0.25 (mm)
IC 580-304544/9		07/01/2019 18:20	1	070119_0014.D	DB-VRX 0.25 (mm)
IC 580-304544/10		07/01/2019 18:45	1	070119_0015.D	DB-VRX 0.25 (mm)
IC 580-304544/11		07/01/2019 19:10	1	070119_0016.D	DB-VRX 0.25 (mm)
ICV 580-304544/13		07/01/2019 20:00	1	070119_0018.D	DB-VRX 0.25 (mm)
ZZZZZ		07/01/2019 20:50	100		DB-VRX 0.25 (mm)
ZZZZZ		07/01/2019 21:15	100		DB-VRX 0.25 (mm)
ZZZZZ		07/01/2019 21:39	100		DB-VRX 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA102 Start Date: 07/15/2019 12:40

Analysis Batch Number: 305636 End Date: 07/15/2019 21:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-305636/2		07/15/2019 12:40	1	071519_0002.D	DB-VRX 0.25 (mm)
CCVIS 580-305636/3		07/15/2019 13:05	1	071519_0003.D	DB-VRX 0.25 (mm)
LCS 580-305636/4		07/15/2019 13:31	1	071519_0004.D	DB-VRX 0.25 (mm)
LCSD 580-305636/5		07/15/2019 13:56	1	071519_0005.D	DB-VRX 0.25 (mm)
CCVL 580-305636/6		07/15/2019 14:21	1	071519_0006.D	DB-VRX 0.25 (mm)
MB 580-305636/7		07/15/2019 14:47	1	071519_0007.D	DB-VRX 0.25 (mm)
ZZZZZ		07/15/2019 15:27	1		DB-VRX 0.25 (mm)
580-87636-11		07/15/2019 15:52	1	071519_0009.D	DB-VRX 0.25 (mm)
ZZZZZ		07/15/2019 16:18	1		DB-VRX 0.25 (mm)
ZZZZZ		07/15/2019 16:43	1		DB-VRX 0.25 (mm)
ZZZZZ		07/15/2019 17:08	1		DB-VRX 0.25 (mm)
ZZZZZ		07/15/2019 17:33	1		DB-VRX 0.25 (mm)
ZZZZZ		07/15/2019 17:58	1		DB-VRX 0.25 (mm)
ZZZZZ		07/15/2019 18:23	1		DB-VRX 0.25 (mm)
ZZZZZ		07/15/2019 18:49	1		DB-VRX 0.25 (mm)
ZZZZZ		07/15/2019 19:13	1		DB-VRX 0.25 (mm)
ZZZZZ		07/15/2019 19:39	1		DB-VRX 0.25 (mm)
ZZZZZ		07/15/2019 20:04	1		DB-VRX 0.25 (mm)
ZZZZZ		07/15/2019 20:29	1		DB-VRX 0.25 (mm)
ZZZZZ		07/15/2019 20:54	1		DB-VRX 0.25 (mm)
ZZZZZ		07/15/2019 21:19	1		DB-VRX 0.25 (mm)
ZZZZZ		07/15/2019 21:44	1		DB-VRX 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA102 Start Date: 07/17/2019 17:47Analysis Batch Number: 305938 End Date: 07/18/2019 04:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-305938/2		07/17/2019 17:47	1	071719_0015.D	DB-VRX 0.25 (mm)
CCVIS 580-305938/3		07/17/2019 18:12	1	071719_0016.D	DB-VRX 0.25 (mm)
LCS 580-305938/4		07/17/2019 18:37	1	071719_0017.D	DB-VRX 0.25 (mm)
LCSD 580-305938/5		07/17/2019 19:02	1	071719_0018.D	DB-VRX 0.25 (mm)
CCVL 580-305938/6		07/17/2019 19:27	1	071719_0019.D	DB-VRX 0.25 (mm)
MB 580-305938/7		07/17/2019 19:52	1	071719_0020.D	DB-VRX 0.25 (mm)
ZZZZZ		07/17/2019 20:18	1		DB-VRX 0.25 (mm)
ZZZZZ		07/17/2019 20:43	1		DB-VRX 0.25 (mm)
ZZZZZ		07/17/2019 21:08	1		DB-VRX 0.25 (mm)
ZZZZZ		07/17/2019 21:33	1		DB-VRX 0.25 (mm)
ZZZZZ		07/17/2019 21:58	1		DB-VRX 0.25 (mm)
580-87636-1		07/17/2019 22:23	1	071719_0026.D	DB-VRX 0.25 (mm)
580-87636-2		07/17/2019 22:49	1	071719_0027.D	DB-VRX 0.25 (mm)
580-87636-3		07/17/2019 23:13	1	071719_0028.D	DB-VRX 0.25 (mm)
580-87636-4		07/17/2019 23:38	1	071719_0029.D	DB-VRX 0.25 (mm)
580-87636-5		07/18/2019 00:03	1	071719_0030.D	DB-VRX 0.25 (mm)
580-87636-6		07/18/2019 00:29	1	071719_0031.D	DB-VRX 0.25 (mm)
ZZZZZ		07/18/2019 00:54	1		DB-VRX 0.25 (mm)
580-87636-8		07/18/2019 01:19	1	071719_0033.D	DB-VRX 0.25 (mm)
580-87636-9		07/18/2019 01:44	1	071719_0034.D	DB-VRX 0.25 (mm)
580-87636-9 MS		07/18/2019 02:09	1	071719_0035.D	DB-VRX 0.25 (mm)
580-87636-9 MSD		07/18/2019 02:34	1	071719_0036.D	DB-VRX 0.25 (mm)
580-87636-10		07/18/2019 02:59	1	071719_0037.D	DB-VRX 0.25 (mm)
ZZZZZ		07/18/2019 03:24	1		DB-VRX 0.25 (mm)
ZZZZZ		07/18/2019 03:49	1		DB-VRX 0.25 (mm)
ZZZZZ		07/18/2019 04:14	1		DB-VRX 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Instrument ID: TAC001 Start Date: 07/01/2019 13:51

Analysis Batch Number: 304491 End Date: 07/01/2019 20:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-304491/2		07/01/2019 13:51	1	070119002.D	DB-VRX 0.25 (mm)
IC 580-304491/3		07/01/2019 14:16	1	070119003.D	DB-VRX 0.25 (mm)
IC 580-304491/4		07/01/2019 14:41	1	070119004.D	DB-VRX 0.25 (mm)
IC 580-304491/5		07/01/2019 15:06	1	070119005.D	DB-VRX 0.25 (mm)
IC 580-304491/6		07/01/2019 15:31	1	070119006.D	DB-VRX 0.25 (mm)
IC 580-304491/7		07/01/2019 15:55	1	070119007.D	DB-VRX 0.25 (mm)
ICIS 580-304491/8		07/01/2019 16:19	1	070119008.D	DB-VRX 0.25 (mm)
IC 580-304491/9		07/01/2019 16:43	1	070119009.D	DB-VRX 0.25 (mm)
IC 580-304491/10		07/01/2019 17:08	1	070119010.D	DB-VRX 0.25 (mm)
IC 580-304491/11		07/01/2019 17:32	1	070119011.D	DB-VRX 0.25 (mm)
IC 580-304491/12		07/01/2019 17:56	1	070119012.D	DB-VRX 0.25 (mm)
ICV 580-304491/14		07/01/2019 18:45	1	070119014.D	DB-VRX 0.25 (mm)
ZZZZZ		07/01/2019 19:33	1		DB-VRX 0.25 (mm)
ZZZZZ		07/01/2019 19:58	1		DB-VRX 0.25 (mm)
ZZZZZ		07/01/2019 20:22	1		DB-VRX 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Instrument ID: TAC001 Start Date: 07/19/2019 10:58

Analysis Batch Number: 306136 End Date: 07/19/2019 20:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-306136/2		07/19/2019 10:58	1	071919002.D	DB-VRX 0.25 (mm)
CCVIS 580-306136/3		07/19/2019 11:23	1	071919003.D	DB-VRX 0.25 (mm)
LCS 580-306136/4		07/19/2019 11:47	1	071919004.D	DB-VRX 0.25 (mm)
LCSD 580-306136/5		07/19/2019 12:11	1	071919005.D	DB-VRX 0.25 (mm)
CCVL 580-306136/6		07/19/2019 12:36	1	071919006.D	DB-VRX 0.25 (mm)
MB 580-306136/7		07/19/2019 13:00	1	071919007.D	DB-VRX 0.25 (mm)
580-87636-8		07/19/2019 13:49	1	071919009.D	DB-VRX 0.25 (mm)
ZZZZZ		07/19/2019 14:13	1		DB-VRX 0.25 (mm)
ZZZZZ		07/19/2019 14:38	1		DB-VRX 0.25 (mm)
ZZZZZ		07/19/2019 15:02	1		DB-VRX 0.25 (mm)
ZZZZZ		07/19/2019 15:27	1		DB-VRX 0.25 (mm)
ZZZZZ		07/19/2019 15:51	1		DB-VRX 0.25 (mm)
ZZZZZ		07/19/2019 16:16	50		DB-VRX 0.25 (mm)
580-87636-4 DL		07/19/2019 16:41	10	071919016.D	DB-VRX 0.25 (mm)
580-87636-6 DL2		07/19/2019 17:05	50	071919017.D	DB-VRX 0.25 (mm)
580-87636-6 DL		07/19/2019 17:30	10	071919018.D	DB-VRX 0.25 (mm)
580-87636-7 DL2		07/19/2019 17:54	100	071919019.D	DB-VRX 0.25 (mm)
580-87636-7 DL		07/19/2019 18:18	50	071919020.D	DB-VRX 0.25 (mm)
ZZZZZ		07/19/2019 18:43	10		DB-VRX 0.25 (mm)
ZZZZZ		07/19/2019 19:07	10		DB-VRX 0.25 (mm)
ZZZZZ		07/19/2019 19:56	1		DB-VRX 0.25 (mm)
ZZZZZ		07/19/2019 20:20	1		DB-VRX 0.25 (mm)
ZZZZZ		07/19/2019 20:45	1		DB-VRX 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Batch Number: 304491 Batch Start Date: 07/01/19 13:51 Batch Analyst: McKell, Justin S

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	5X SUR/IS/TFT 00010	VOAMasterMix 00040	VOAMasterSEC 00033	
BFB 580-304491/2		8260C		5 mL	5 mL	2 uL			
IC 580-304491/3		8260C		5 mL	5 mL	2 uL	0.5 uL		
IC 580-304491/4		8260C		5 mL	5 mL	2 uL	1 uL		
IC 580-304491/5		8260C		5 mL	5 mL	2 uL	2 uL		
IC 580-304491/6		8260C		5 mL	5 mL	2 uL	5 uL		
IC 580-304491/7		8260C		5 mL	5 mL	2 uL	10 uL		
ICIS 580-304491/8		8260C		5 mL	5 mL	2 uL	20 uL		
IC 580-304491/9		8260C		5 mL	5 mL	2 uL	50 uL		
IC 580-304491/10		8260C		5 mL	5 mL	2 uL	75 uL		
IC 580-304491/11		8260C		5 mL	5 mL	2 uL	100 uL		
IC 580-304491/12		8260C		5 mL	5 mL	2 uL	150 uL		
ICV 580-304491/14		8260C		5 mL	5 mL	2 uL		20 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.: 580-87636-1

SDG No.: _____

Batch Number: 304544 Batch Start Date: 07/01/19 15:02 Batch Analyst: Limwiroj, Thanyawan 1

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	5X SUR/IS/TFT 00010	VOAMasterMix 00040	VOAMasterSEC 00033	
BFB 580-304544/1		8260C		5 mL	5 mL	2 uL			
IC 580-304544/2		8260C		5 mL	5 mL	2 uL	0.5 uL		
IC 580-304544/3		8260C		5 mL	5 mL	2 uL	1 uL		
IC 580-304544/4		8260C		5 mL	5 mL	2 uL	2 uL		
IC 580-304544/5		8260C		5 mL	5 mL	2 uL	5 uL		
IC 580-304544/6		8260C		5 mL	5 mL	2 uL	10 uL		
ICIS 580-304544/7		8260C		5 mL	5 mL	2 uL	20 uL		
IC 580-304544/8		8260C		5 mL	5 mL	2 uL	50 uL		
IC 580-304544/9		8260C		5 mL	5 mL	2 uL	75 uL		
IC 580-304544/10		8260C		5 mL	5 mL	2 uL	100 uL		
IC 580-304544/11		8260C		5 mL	5 mL	2 uL	150 uL		
ICV 580-304544/13		8260C		5 mL	5 mL	2 uL		20 uL	

Batch Notes	

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.: 580-87636-1

SDG No.: _____

Batch Number: 305636 Batch Start Date: 07/15/19 12:40 Batch Analyst: Wongsakul, Thanaporn 1

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS/TFT 00010	VOAMasterMix 00040	
BFB 580-305636/2		8260C		5 mL	5 mL		2 uL		
CCVIS 580-305636/3		8260C		5 mL	5 mL		2 uL	20 uL	
LCS 580-305636/4		8260C		5 mL	5 mL		2 uL	10 uL	
LCSD 580-305636/5		8260C		5 mL	5 mL		2 uL	10 uL	
CCVL 580-305636/6		8260C		5 mL	5 mL		2 uL	1 uL	
MB 580-305636/7		8260C		5 mL	5 mL		2 uL		
580-87636-G-11	TRIP BLANK	8260C	T	5 mL	5 mL	<2 SU	2 uL		

Batch Notes	

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.: 580-87636-1

SDG No.: _____

Batch Number: 305938 Batch Start Date: 07/17/19 17:47 Batch Analyst: Thaneerat, Wijittra 1

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS/TFT 00010	VOAMasterMix 00040	
BFB 580-305938/2		8260C		5 mL	5 mL		2 uL		
CCVIS 580-305938/3		8260C		5 mL	5 mL		2 uL	20 uL	
LCS 580-305938/4		8260C		5 mL	5 mL		2 uL	10 uL	
LCS 580-305938/5		8260C		5 mL	5 mL		2 uL	10 uL	
CCVL 580-305938/6		8260C		5 mL	5 mL		2 uL	1 uL	
MB 580-305938/7		8260C		5 mL	5 mL		2 uL		
580-87636-A-1	G-7-W-190710	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-87636-A-2	G-8-W-190710	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-87636-A-3	EQB-1-W-190710	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-87636-A-4	G-3-W-190710	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-87636-A-5	G1-R-W-190710	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-87636-A-6	G-4-W-190710	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-87636-A-8	MW-301D-W-190710	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-87636-A-9	MW-304D-W-190710	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-87636-A-9	MW-304D-W-190710	8260C	T	5 mL	5 mL	<2 SU	2 uL	8.6 uL	
MS 580-87636-A-9	MW-304D-W-190710	8260C	T	5 mL	5 mL	<2 SU	2 uL	8.6 uL	
MSD 580-87636-A-10	BD-1-W-190710	8260C	T	5 mL	5 mL	<2 SU	2 uL		

Batch Notes	

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.: 580-87636-1

SDG No.: _____

Batch Number: 306136 Batch Start Date: 07/19/19 10:58 Batch Analyst: Jantanu, Charinporn

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS/TFT 00010	VOAMasterMix 00040	
BFB 580-306136/2		8260C		5 mL	5 mL		2 uL		
CCVIS 580-306136/3		8260C		5 mL	5 mL		2 uL	20 uL	
LCS 580-306136/4		8260C		5 mL	5 mL		2 uL	10 uL	
LCS 580-306136/5		8260C		5 mL	5 mL		2 uL	10 uL	
CCVL 580-306136/6		8260C		5 mL	5 mL		2 uL	1 uL	
MB 580-306136/7		8260C		5 mL	5 mL		2 uL		
580-87636-C-8	MW-301D-W-190710	8260C	T	5 mL	5 mL		2 uL		
580-87636-C-4	G-3-W-190710	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-87636-C-6	G-4-W-190710	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-87636-C-6	G-4-W-190710	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-87636-C-7	G-5-W-190710	8260C	T	5 mL	5 mL	<2 SU	2 uL		
580-87636-C-7	G-5-W-190710	8260C	T	5 mL	5 mL	<2 SU	2 uL		

Batch Notes	

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

Alaska - Gasoline Range Organics
(GC) by Method AK101

FORM II
GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): RTX-VRX ID: 0.45 (mm)

Client Sample ID	Lab Sample ID	TFT1 #	BFB1 #
G-7-W-190710	580-87636-1	100	102
G-8-W-190710	580-87636-2	94	101
EQB-1-W-190710	580-87636-3	101	101
G-3-W-190710	580-87636-4	93	126
G1-R-W-190710	580-87636-5	97	89
G-4-W-190710	580-87636-6	101	120
G-5-W-190710	580-87636-7	92	734 X
G-5-W-190710 DL	580-87636-7 DL	95	86
MW-301D-W-190710	580-87636-8	93	89
MW-304D-W-190710	580-87636-9	92	84
BD-1-W-190710	580-87636-10	94	103
TRIP BLANK	580-87636-11	111	96
	MB 580-305675/5	123	97
	MB 580-306362/4	87	92
	MB 580-306683/5	52	102
	LCS 580-305675/6	112	104
	LCS 580-306362/5	98	100
	LCS 580-306683/6	101	101
	LCSD 580-305675/7	111	107
	LCSD 580-306362/6	102	99
	LCSD 580-306683/7	105	104
MW-304D-W-190710 MS	580-87636-9 MS	95	94
MW-304D-W-190710 MSD	580-87636-9 MSD	76	101

TFT = Trifluorotoluene (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
50-150
50-150

Column to be used to flag recovery values

FORM II AK101

FORM III
 GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 07151906.D

Lab ID: LCS 580-305675/6 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Gasoline Range Organics (GRO) -C6-C10	1.00	1.02	102	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.: 580-87636-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 07221932.D
 Lab ID: LCS 580-306362/5 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Gasoline Range Organics (GRO) -C6-C10	1.00	1.01	101	77-123	

Column to be used to flag recovery and RPD values
FORM III AK101

FORM III
 GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 07251918.D

Lab ID: LCS 580-306683/6 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Gasoline Range Organics (GRO) -C6-C10	1.00	0.991	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.: 580-87636-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 07151907.D
 Lab ID: LCSD 580-305675/7 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	1.05	105	3	20	77-123	

Column to be used to flag recovery and RPD values
FORM III AK101

FORM III
 GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 07221933.D

Lab ID: LCSD 580-306362/6 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	1.02	102	1	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.: 580-87636-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 07251919.D
 Lab ID: LCSD 580-306683/7 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	1.02	102	3	20	77-123	

Column to be used to flag recovery and RPD values
FORM III AK101

FORM III
GASOLINE RANGE ORGANICS MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 07251925.D

Lab ID: 580-87636-9 MS Client ID: MW-304D-W-190710 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Gasoline Range Organics (GRO) -C6-C10	1.00	ND	0.849	85	77-123	H

Column to be used to flag recovery and RPD values

FORM III
 GASOLINE RANGE ORGANICS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 07251926.D

Lab ID: 580-87636-9 MSD Client ID: MW-304D-W-190710 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Gasoline Range Organics (GRO) -C6-C10	1.00	0.578	58	38	20	77-123	H F1 F2

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.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: MB 580-305675/5
 Matrix: Water Date Extracted: 07/15/2019 12:38
 Lab File ID: (1) 07151905.D Lab File ID: (2) _____
 Date Analyzed: (1) 07/15/2019 12:38 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 580-305675/6	07/15/2019 13:05	
	LCSD 580-305675/7	07/15/2019 13:33	
TRIP BLANK	580-87636-11	07/15/2019 14:26	

FORM IV
GASOLINE RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: MB 580-306362/4
 Matrix: Water Date Extracted: 07/22/2019 23:17
 Lab File ID: (1) 07221931.D Lab File ID: (2) _____
 Date Analyzed: (1) 07/22/2019 23:17 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 580-306362/5	07/22/2019 23:47	
	LCSD 580-306362/6	07/23/2019 00:17	
G-5-W-190710	580-87636-7	07/23/2019 08:48	

FORM IV
GASOLINE RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: MB 580-306683/5
 Matrix: Water Date Extracted: 07/25/2019 18:04
 Lab File ID: (1) 07251917.D Lab File ID: (2) _____
 Date Analyzed: (1) 07/25/2019 18:04 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 580-306683/6	07/25/2019 18:28	
	LCSD 580-306683/7	07/25/2019 18:52	
G-5-W-190710 DL	580-87636-7 DL	07/25/2019 20:06	
G-8-W-190710	580-87636-2	07/25/2019 20:31	
MW-304D-W-190710	580-87636-9	07/25/2019 20:55	
MW-304D-W-190710 MS	580-87636-9 MS	07/25/2019 21:20	
MW-304D-W-190710 MSD	580-87636-9 MSD	07/25/2019 21:44	
G-7-W-190710	580-87636-1	07/25/2019 22:33	
EQB-1-W-190710	580-87636-3	07/25/2019 22:57	
G-3-W-190710	580-87636-4	07/25/2019 23:22	
G1-R-W-190710	580-87636-5	07/25/2019 23:47	
G-4-W-190710	580-87636-6	07/26/2019 00:11	
MW-301D-W-190710	580-87636-8	07/26/2019 00:36	
BD-1-W-190710	580-87636-10	07/26/2019 01:00	

FORM VIII
GASOLINE RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Sample No.: STD1000 580-302689/8 Date Analyzed: 06/08/2019 12:04
 Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm)
 Lab File ID (Standard): 06081908.D Heated Purge: (Y/N) N
 Calibration ID: 27887

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 580-302689/8 ICRT		06/08/2019 12:04	06081908.D	8.09	11.16	
ICV 580-302689/13		06/08/2019 14:20	06081913.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.: 580-87636-1
 SDG No.: _____
 Sample No.: CCVRT 580-305675/4 Date Analyzed: 07/15/2019 12:11
 Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm)
 Lab File ID (Standard): 07151904.D Heated Purge: (Y/N) N
 Calibration ID: 27887

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 580-305675/4		07/15/2019 12:11	07151904.D	8.09	11.16	
MB 580-305675/5		07/15/2019 12:38	07151905.D	8.09	11.16	
LCS 580-305675/6		07/15/2019 13:05	07151906.D	8.09	11.16	
LCSD 580-305675/7		07/15/2019 13:33	07151907.D	8.09	11.16	
580-87636-11	TRIP BLANK	07/15/2019 14:26	07151909.D	8.09	11.16	
CCV 580-305675/15		07/15/2019 17:08	07151915.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.: 580-87636-1
 SDG No.: _____
 Sample No.: STD1000 580-306565/8 Date Analyzed: 07/25/2019 13:01
 Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm)
 Lab File ID (Standard): 07251907.D Heated Purge: (Y/N) N
 Calibration ID: 28054

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFT	BFB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				8.12	11.17	
UPPER LIMIT				8.17	11.22	
LOWER LIMIT				8.07	11.12	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD1000 580-306565/8 ICRT		07/25/2019 13:01	07251907.D	8.12	11.17	
ICV 580-306565/13		07/25/2019 15:04	07251912.D	8.12	11.17	

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.: 580-87636-1
 SDG No.: _____
 Sample No.: CCVRT 580-306683/4 Date Analyzed: 07/25/2019 17:39
 Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm)
 Lab File ID (Standard): 07251916.D Heated Purge: (Y/N) N
 Calibration ID: 28054

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFT	BFB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				8.12	11.17	
UPPER LIMIT				8.17	11.22	
LOWER LIMIT				8.07	11.12	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-306683/4		07/25/2019 17:39	07251916.D	8.12	11.17	
MB 580-306683/5		07/25/2019 18:04	07251917.D	8.12	11.17	
LCS 580-306683/6		07/25/2019 18:28	07251918.D	8.12	11.17	
LCSD 580-306683/7		07/25/2019 18:52	07251919.D	8.12	11.17	
580-87636-7 DL	G-5-W-190710 DL	07/25/2019 20:06	07251922.D	8.10	11.16	
580-87636-2	G-8-W-190710	07/25/2019 20:31	07251923.D	8.12	11.17	
580-87636-9	MW-304D-W-190710	07/25/2019 20:55	07251924.D	8.10	11.16	
580-87636-9 MS	MW-304D-W-190710 MS	07/25/2019 21:20	07251925.D	8.11	11.17	
580-87636-9 MSD	MW-304D-W-190710 MSD	07/25/2019 21:44	07251926.D	8.12	11.17	
CCV 580-306683/15		07/25/2019 22:09	07251927.D	8.12	11.17	
580-87636-1	G-7-W-190710	07/25/2019 22:33	07251928.D	8.12	11.17	
580-87636-3	EQB-1-W-190710	07/25/2019 22:57	07251929.D	8.12	11.17	
580-87636-4	G-3-W-190710	07/25/2019 23:22	07251930.D	8.12	11.17	
580-87636-5	G1-R-W-190710	07/25/2019 23:47	07251931.D	8.11	11.17	
580-87636-6	G-4-W-190710	07/26/2019 00:11	07251932.D	8.12	11.17	
580-87636-8	MW-301D-W-190710	07/26/2019 00:36	07251933.D	8.11	11.16	
580-87636-10	BD-1-W-190710	07/26/2019 01:00	07251934.D	8.12	11.17	
CCV 580-306683/26		07/26/2019 02:38	07251938.D	8.12	11.17	

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.: 580-87636-1
 SDG No.: _____
 Sample No.: STD1000 580-306268/12 Date Analyzed: 07/22/2019 18:46
 Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm)
 Lab File ID (Standard): 07221922.D Heated Purge: (Y/N) N
 Calibration ID: 28046

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFT	BFB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				6.13	9.70	
UPPER LIMIT				6.18	9.75	
LOWER LIMIT				6.08	9.65	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD1000 580-306268/12 ICRT		07/22/2019 18:46	07221922.D	6.13	9.70	
ICV 580-306268/17		07/22/2019 21:16	07221927.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.: 580-87636-1
 SDG No.: _____
 Sample No.: CCVRT 580-306362/3 Date Analyzed: 07/22/2019 22:46
 Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm)
 Lab File ID (Standard): 07221930.D Heated Purge: (Y/N) N
 Calibration ID: 28046

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 580-306362/3		07/22/2019 22:46	07221930.D	6.12	9.70	
MB 580-306362/4		07/22/2019 23:17	07221931.D	6.12	9.70	
LCS 580-306362/5		07/22/2019 23:47	07221932.D	6.12	9.70	
LCSD 580-306362/6		07/23/2019 00:17	07221933.D	6.12	9.70	
CCV 580-306362/13		07/23/2019 03:47	07221940.D	6.12	9.70	
CCV 580-306362/22		07/23/2019 08:18	07221949.D	6.12	9.70	
580-87636-7	G-5-W-190710	07/23/2019 08:48	07221950.D	6.12	9.69	
CCV 580-306362/30		07/23/2019 12:19	07221957.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.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-7-W-190710 Lab Sample ID: 580-87636-1
 Matrix: Water Lab File ID: 07251928.D
 Analysis Method: AK101 Date Collected: 07/10/2019 08:30
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2019 22:33
 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.: 306683 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND	H	0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	100		50-150
460-00-4	4-Bromofluorobenzene (Surr)	102		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-8-W-190710 Lab Sample ID: 580-87636-2
 Matrix: Water Lab File ID: 07251923.D
 Analysis Method: AK101 Date Collected: 07/10/2019 09:20
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2019 20:31
 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.: 306683 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND	H	0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	94		50-150
460-00-4	4-Bromofluorobenzene (Surr)	101		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: EQB-1-W-190710 Lab Sample ID: 580-87636-3
 Matrix: Water Lab File ID: 07251929.D
 Analysis Method: AK101 Date Collected: 07/10/2019 10:00
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2019 22:57
 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.: 306683 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND	H	0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	101		50-150
460-00-4	4-Bromofluorobenzene (Surr)	101		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-3-W-190710 Lab Sample ID: 580-87636-4
 Matrix: Water Lab File ID: 07251930.D
 Analysis Method: AK101 Date Collected: 07/10/2019 10:20
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2019 23:22
 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.: 306683 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	4.5	H	0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	93		50-150
460-00-4	4-Bromofluorobenzene (Surr)	126		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G1-R-W-190710 Lab Sample ID: 580-87636-5
 Matrix: Water Lab File ID: 07251931.D
 Analysis Method: AK101 Date Collected: 07/10/2019 11:00
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2019 23:47
 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.: 306683 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND	H	0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	97		50-150
460-00-4	4-Bromofluorobenzene (Surr)	89		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-4-W-190710 Lab Sample ID: 580-87636-6
 Matrix: Water Lab File ID: 07251932.D
 Analysis Method: AK101 Date Collected: 07/10/2019 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2019 00:11
 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.: 306683 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	3.8	H	0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	101		50-150
460-00-4	4-Bromofluorobenzene (Surr)	120		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-5-W-190710 Lab Sample ID: 580-87636-7
 Matrix: Water Lab File ID: 07221950.D
 Analysis Method: AK101 Date Collected: 07/10/2019 13:45
 Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2019 08:48
 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.: 306362 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	32	E	0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	92		50-150
460-00-4	4-Bromofluorobenzene (Surr)	734	X	50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-5-W-190710 DL Lab Sample ID: 580-87636-7 DL
 Matrix: Water Lab File ID: 07251922.D
 Analysis Method: AK101 Date Collected: 07/10/2019 13:45
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2019 20:06
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: RTX-VRX ID: 0.45 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 306683 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	27	H	5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	95		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.: 580-87636-1
 SDG No.: _____
 Client Sample ID: MW-301D-W-190710 Lab Sample ID: 580-87636-8
 Matrix: Water Lab File ID: 07251933.D
 Analysis Method: AK101 Date Collected: 07/10/2019 14:30
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2019 00:36
 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.: 306683 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND	H	0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	93		50-150
460-00-4	4-Bromofluorobenzene (Surr)	89		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: MW-304D-W-190710 Lab Sample ID: 580-87636-9
 Matrix: Water Lab File ID: 07251924.D
 Analysis Method: AK101 Date Collected: 07/10/2019 15:15
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2019 20:55
 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.: 306683 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND	H F1 F2	0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	92		50-150
460-00-4	4-Bromofluorobenzene (Surr)	84		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: BD-1-W-190710 Lab Sample ID: 580-87636-10
 Matrix: Water Lab File ID: 07251934.D
 Analysis Method: AK101 Date Collected: 07/10/2019 00:01
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2019 01:00
 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.: 306683 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND	H	0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	94		50-150
460-00-4	4-Bromofluorobenzene (Surr)	103		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 580-87636-11
 Matrix: Water Lab File ID: 07151909.D
 Analysis Method: AK101 Date Collected: 07/10/2019 00:01
 Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2019 14:26
 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.: 305675 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)	111		50-150
460-00-4	4-Bromofluorobenzene (Surr)	96		50-150

Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20190607-65704.b\06081903.D

Injection Date: 08-Jun-2019 09:50:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: RTC

Worklist Smp#: 3

Client ID:

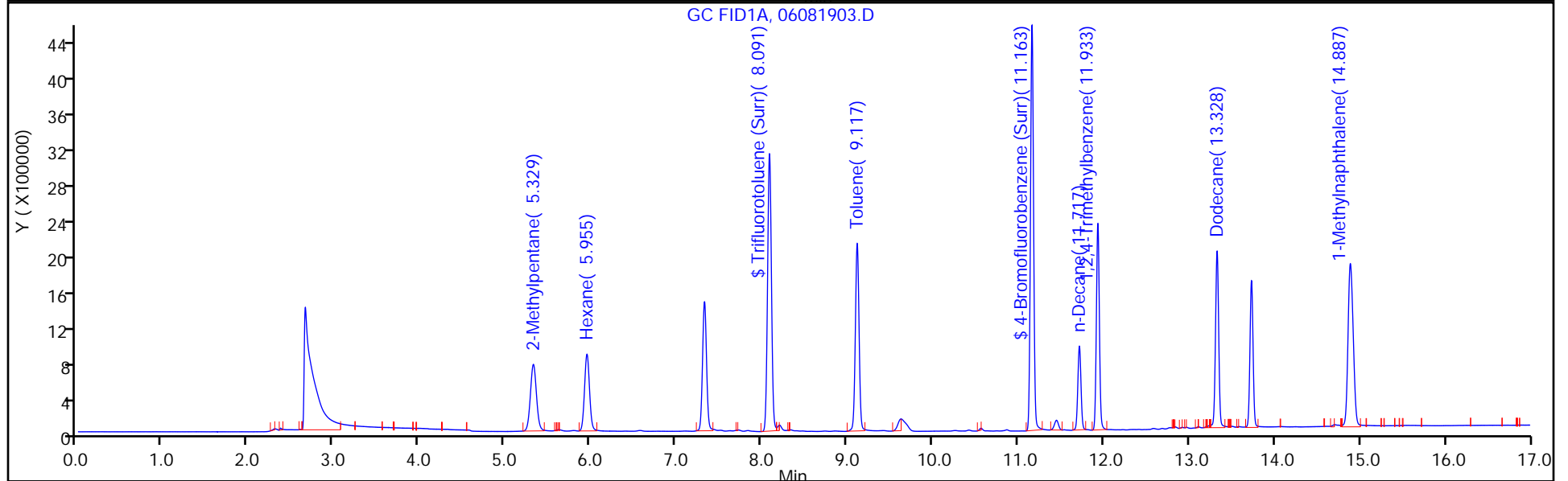
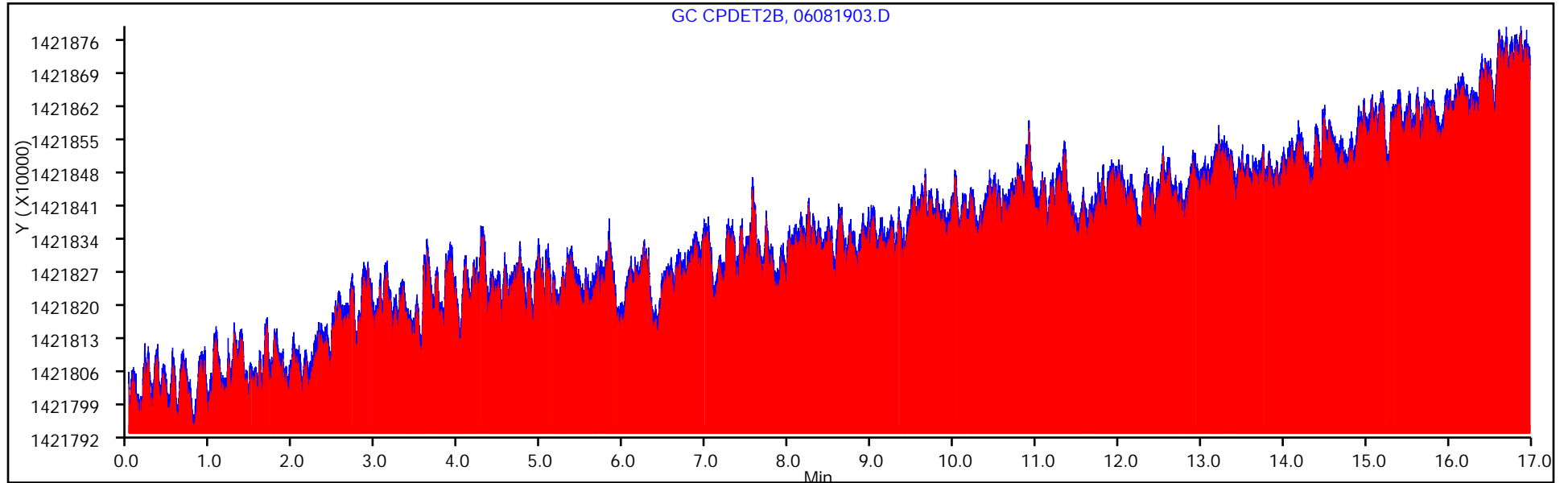
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 3

Method: GRO_SEA006

Limit Group: Ak101 GRO



Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA047\20190722-66453.b\07221917.D

Injection Date: 22-Jul-2019 16:15:30

Instrument ID: SEA047

Operator ID: dcv

Lims ID: RTC

Worklist Smp#: 7

Client ID:

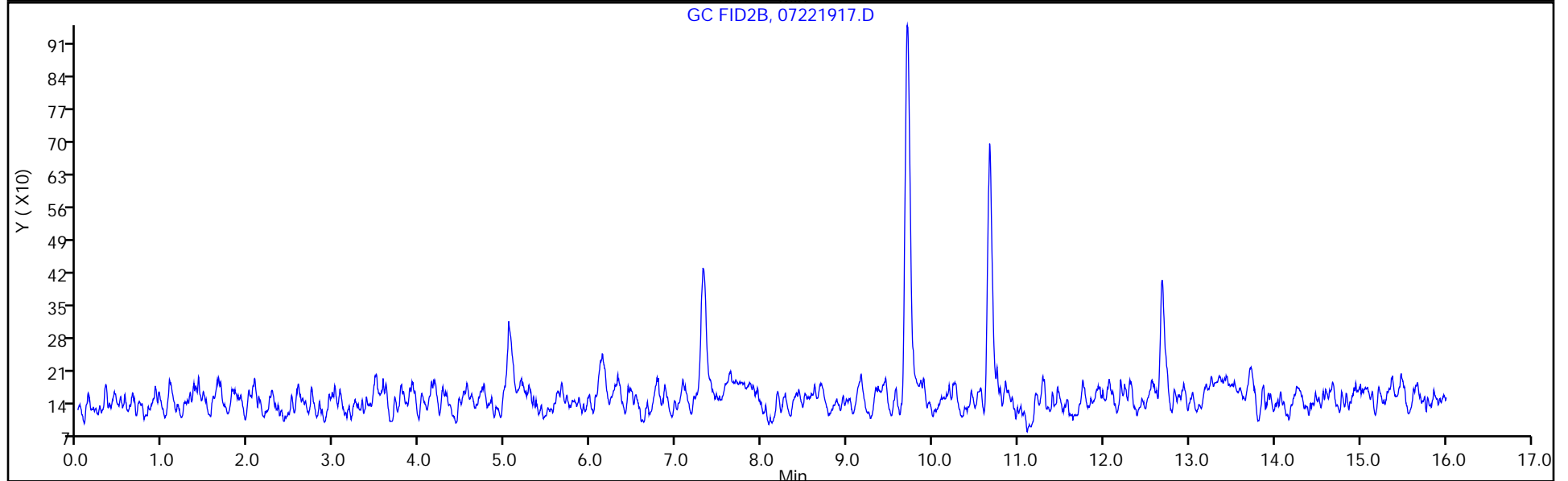
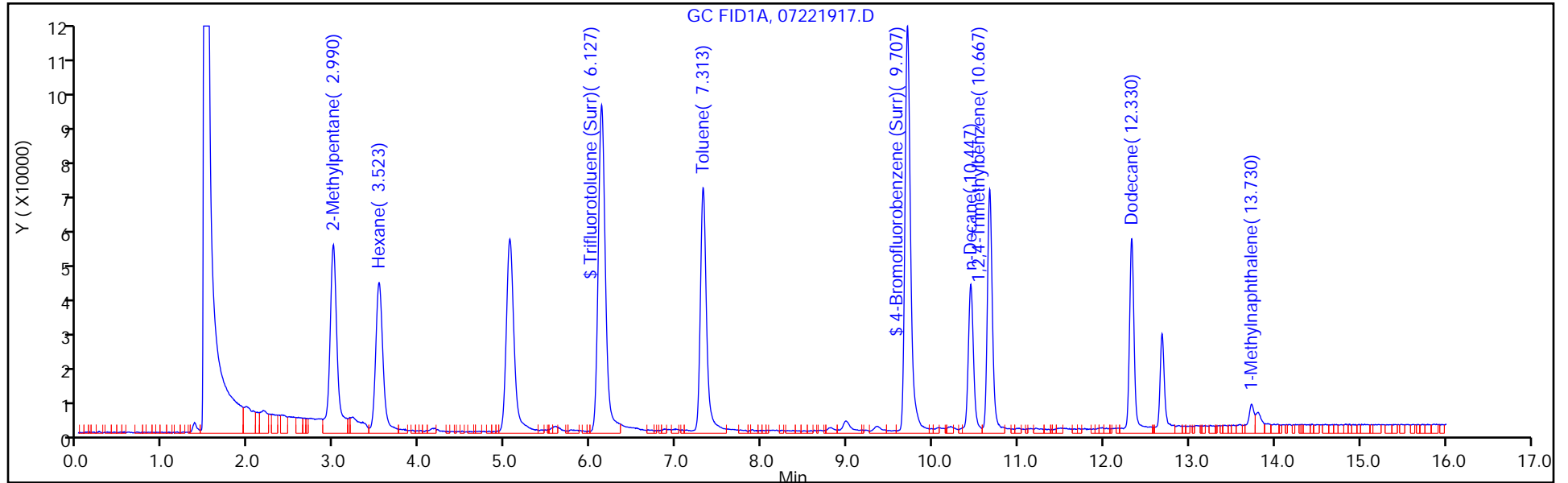
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 11

Method: GX_SEA047

Limit Group: Ak101 GRO



Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20190725-66511.b\07251902.D

Injection Date: 25-Jul-2019 10:59:30

Instrument ID: SEA006

Operator ID: DSO

Lims ID: RTC

Worklist Smp#: 3

Client ID:

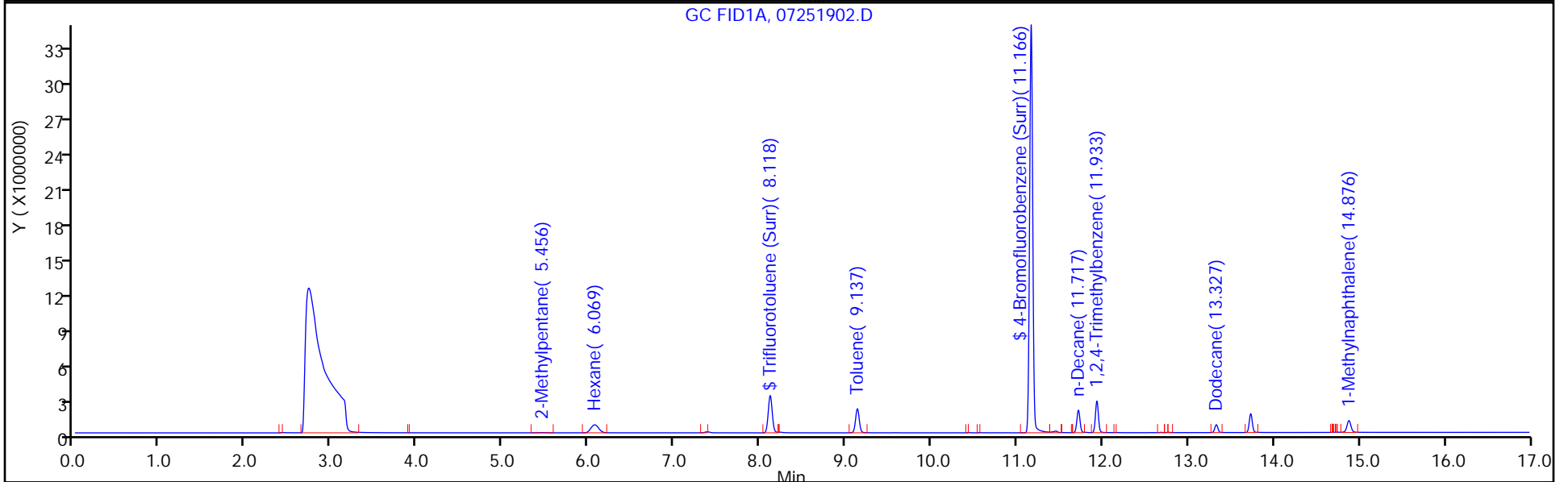
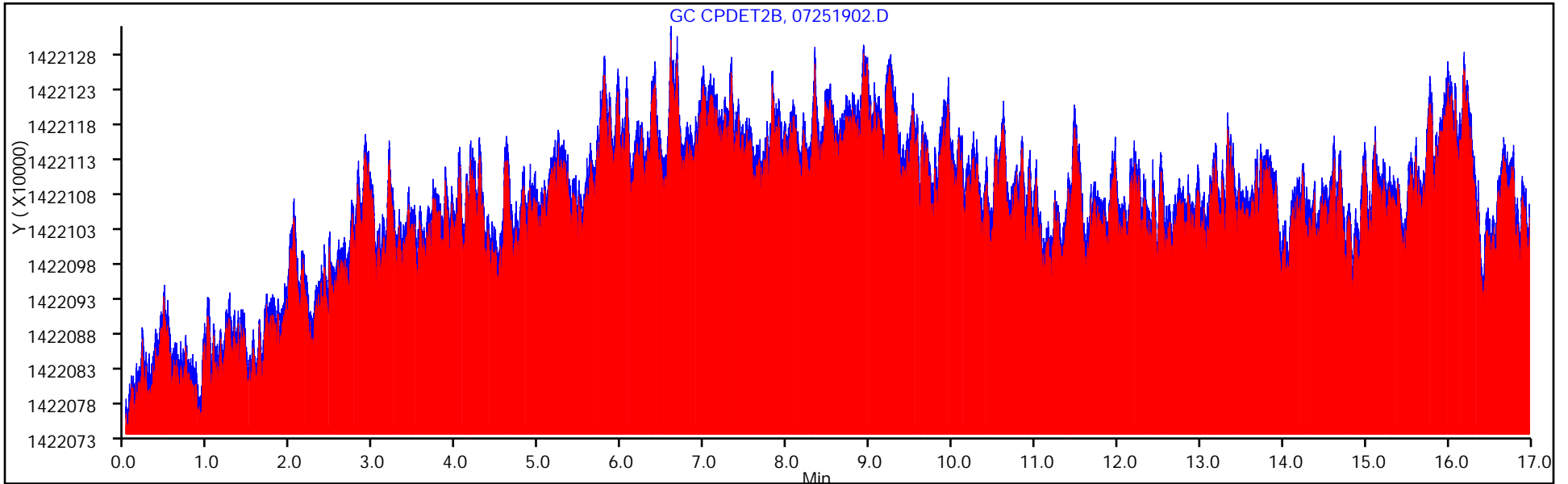
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 101

Method: GRO_SEA006

Limit Group: Ak101 GRO



FORM VI
 GASOLINE RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
 RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 302689

SDG No.: _____

Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/08/2019 10:17 Calibration End Date: 06/08/2019 13:52 Calibration ID: 27887

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-302689/12	06081912.D
Level 2	STD100 580-302689/11	06081911.D
Level 3	STD250 580-302689/10	06081910.D
Level 4	STD500 580-302689/9	06081909.D
Level 5	STD1000 580-302689/8	06081908.D
Level 6	STD5000 580-302689/7	06081907.D
Level 7	STD10000 580-302689/6	06081906.D
Level 8	STD15000 580-302689/5	06081905.D
Level 9	STD25000 580-302689/4	06081904.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	8.752	8.752	8.752	8.752	8.752	8.752	8.752	8.752	8.752		5.864 - 11.640	8.752
Trifluorotoluene (Surr)	8.095	8.091	8.094	8.092	8.087	8.091	8.095	+++++	+++++		7.992 - 8.192	8.092
4-Bromofluorobenzene (Surr)	11.164	11.162	11.163	11.163	11.161	+++++	+++++	+++++	+++++		11.063 - 11.263	11.163

FORM VI
 GASOLINE RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 302689

SDG No.: _____

Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/08/2019 10:17 Calibration End Date: 06/08/2019 13:52 Calibration ID: 27887

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-302689/12	06081912.D
Level 2	STD100 580-302689/11	06081911.D
Level 3	STD250 580-302689/10	06081910.D
Level 4	STD500 580-302689/9	06081909.D
Level 5	STD1000 580-302689/8	06081908.D
Level 6	STD5000 580-302689/7	06081907.D
Level 7	STD10000 580-302689/6	06081906.D
Level 8	STD15000 580-302689/5	06081905.D
Level 9	STD25000 580-302689/4	06081904.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	150596 117378 133463	125500 119035	129214 122193	117160 125838	Ave		126708.416		25.00	8.3		25.0				
Trifluorotoluene (Surr)	145769 155631 ++++	152699 162892	144996 162259	140255 ++++	Ave		152071.696		25.00	5.8		25.0				
4-Bromofluorobenzene (Surr)	113370 114126 ++++	105663 ++++	113211 ++++	101171 ++++	Ave		109508.380		25.00	5.3		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.: 580-87636-1 Analy Batch No.: 302689

SDG No.: _____

Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/08/2019 10:17 Calibration End Date: 06/08/2019 13:52 Calibration ID: 27887

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-302689/12	06081912.D
Level 2	STD100 580-302689/11	06081911.D
Level 3	STD250 580-302689/10	06081910.D
Level 4	STD500 580-302689/9	06081909.D
Level 5	STD1000 580-302689/8	06081908.D
Level 6	STD5000 580-302689/7	06081907.D
Level 7	STD10000 580-302689/6	06081906.D
Level 8	STD15000 580-302689/5	06081905.D
Level 9	STD25000 580-302689/4	06081904.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	7529787 595175655	12550006 1221926401	32303457 1887565931	58580108 3336564705	117377808	50.0 5000	100 10000	250 15000	500 25000	1000
Trifluorotoluene (Surr)	Ave	2914204 24424044	6105527 32438848	8696310 +++++	11215902 +++++	15556922	20.0 150	40.0 200	60.0 +++++	80.0 +++++	100.0
4-Bromofluorobenzene (Surr)	Ave	11337049 +++++	10566330 +++++	11321131 +++++	10117111 +++++	11412569	100 +++++	100 +++++	100 +++++	100 +++++	100

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.: 580-87636-1 Analy Batch No.: 306565

SDG No.: _____

Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2019 11:23 Calibration End Date: 07/25/2019 14:39 Calibration ID: 28054

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-306565/12	07251911.D
Level 2	STD100 580-306565/11	07251910.D
Level 3	STD250 580-306565/10	07251909.D
Level 4	STD500 580-306565/9	07251908.D
Level 5	STD1000 580-306565/8	07251907.D
Level 6	STD5000 580-306565/7	07251906.D
Level 7	STD10000 580-306565/6	07251905.D
Level 8	STD15000 580-306565/5	07251904.D
Level 9	STD25000 580-306565/4	07251903.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	8.786	8.786	8.786	8.786	8.786	8.786	8.786	8.743	8.743		5.925 - 11.648	8.776
Trifluorotoluene (Surr)	8.119	8.125	8.121	8.107	8.118	8.111	8.120	+++++	+++++		8.018 - 8.218	8.117
4-Bromofluorobenzene (Surr)	11.166	11.167	11.167	11.164	11.166	11.165	11.167	+++++	+++++		11.066 - 11.266	11.166

FORM VI
 GASOLINE RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 306565

SDG No.: _____

Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2019 11:23 Calibration End Date: 07/25/2019 14:39 Calibration ID: 28054

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-306565/12	07251911.D
Level 2	STD100 580-306565/11	07251910.D
Level 3	STD250 580-306565/10	07251909.D
Level 4	STD500 580-306565/9	07251908.D
Level 5	STD1000 580-306565/8	07251907.D
Level 6	STD5000 580-306565/7	07251906.D
Level 7	STD10000 580-306565/6	07251905.D
Level 8	STD15000 580-306565/5	07251904.D
Level 9	STD25000 580-306565/4	07251903.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	200897 160742 161692	169170 130424	162285 156876	150451 160837	Ave		161486.080		25.00	11.4		25.0				
Trifluorotoluene (Surr)	173295 171056 ++++	170184 181352	169541 194811	166964 ++++	Ave		175314.851		25.00	5.6		25.0				
4-Bromofluorobenzene (Surr)	178477 182253 ++++	171883 157542	176677 190497	152976 ++++	Ave		172900.475		25.00	7.7		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.: 580-87636-1 Analy Batch No.: 306565

SDG No.: _____

Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2019 11:23 Calibration End Date: 07/25/2019 14:39 Calibration ID: 28054

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-306565/12	07251911.D
Level 2	STD100 580-306565/11	07251910.D
Level 3	STD250 580-306565/10	07251909.D
Level 4	STD500 580-306565/9	07251908.D
Level 5	STD1000 580-306565/8	07251907.D
Level 6	STD5000 580-306565/7	07251906.D
Level 7	STD10000 580-306565/6	07251905.D
Level 8	STD15000 580-306565/5	07251904.D
Level 9	STD25000 580-306565/4	07251903.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	10044867 652121048	16916994 1568757073	40571223 2412549905	75225615 4042307919	160742423	50.0 5000	100 10000	250 15000	500 25000	1000
Trifluorotoluene (Surr)	Ave	3464523 27191874	6804630 38946660	10168408 +++++	13351783 +++++	17098796	20.0 150	40.0 200	60.0 +++++	80.0 +++++	100.0
4-Bromofluorobenzene (Surr)	Ave	89238453 78770820	85941354 95248329	88338344 +++++	76487921 +++++	91126441	500 500	500 500	500 +++++	500 +++++	500

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.: 580-87636-1 Analy Batch No.: 306268

SDG No.: _____

Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/22/2019 16:45 Calibration End Date: 07/22/2019 20:46 Calibration ID: 28046

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-306268/16	07221926.D
Level 2	STD100 580-306268/15	07221925.D
Level 3	STD250 580-306268/14	07221924.D
Level 4	STD500 580-306268/13	07221923.D
Level 5	STD1000 580-306268/12	07221922.D
Level 6	STD5000 580-306268/11	07221921.D
Level 7	STD10000 580-306268/10	07221920.D
Level 8	STD15000 580-306268/9	07221919.D
Level 9	STD25000 580-306268/8	07221918.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	6.875	6.875	6.875	6.875	6.875	6.875	6.875	6.875	6.875		3.403 - 10.347	6.875
Trifluorotoluene (Surr)	6.123	6.123	6.120	6.120	6.127	6.123	6.130	+++++	+++++		6.020 - 6.220	6.124
4-Bromofluorobenzene (Surr)	9.697	9.703	9.700	9.700	9.703	9.697	+++++	+++++	+++++		9.600 - 9.800	9.700

FORM VI
 GASOLINE RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 306268

SDG No.: _____

Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/22/2019 16:45 Calibration End Date: 07/22/2019 20:46 Calibration ID: 28046

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-306268/16	07221926.D
Level 2	STD100 580-306268/15	07221925.D
Level 3	STD250 580-306268/14	07221924.D
Level 4	STD500 580-306268/13	07221923.D
Level 5	STD1000 580-306268/12	07221922.D
Level 6	STD5000 580-306268/11	07221921.D
Level 7	STD10000 580-306268/10	07221920.D
Level 8	STD15000 580-306268/9	07221919.D
Level 9	STD25000 580-306268/8	07221918.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	11295 7591.3 7676.4	10674 7545.4	8122.1 7482.3	7844.9 7324.9	Lin1	211749.028	7515.01706			6.0			1.0000			0.9900
Trifluorotoluene (Surr)	7484.0 8099.6 ++++	9090.6 8584.2	8360.6 8468.0	8480.6 ++++	Ave		8366.79481			25.00	5.9		25.0			
4-Bromofluorobenzene (Surr)	4873.8 4999.2 ++++	5071.5 6550.9	4922.1 ++++	5236.5 ++++	Ave		5275.66667			25.00	12.1		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.: 580-87636-1 Analy Batch No.: 306268

SDG No.: _____

Instrument ID: SEA047 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/22/2019 16:45 Calibration End Date: 07/22/2019 20:46 Calibration ID: 28046

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50 580-306268/16	07221926.D
Level 2	STD100 580-306268/15	07221925.D
Level 3	STD250 580-306268/14	07221924.D
Level 4	STD500 580-306268/13	07221923.D
Level 5	STD1000 580-306268/12	07221922.D
Level 6	STD5000 580-306268/11	07221921.D
Level 7	STD10000 580-306268/10	07221920.D
Level 8	STD15000 580-306268/9	07221919.D
Level 9	STD25000 580-306268/8	07221918.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	564742 37727139	1067385 74822552	2030530 109873005	3922436 191911121	7591302	50.0 5000	100 10000	250 15000	500 25000	1000
Trifluorotoluene (Surr)	Ave	149620 1287116	363477 1692922	501434 +++++	678178 +++++	809637	20.0 150	40.0 200	60.0 +++++	80.0 +++++	100.0
4-Bromofluorobenzene (Surr)	Ave	487381 655087	507153 +++++	492209 +++++	523646 +++++	499924	100 100	100 +++++	100 +++++	100 +++++	100

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20190715-66327.b\07151903.D

Injection Date: 15-Jul-2019 11:44:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: RTC

Worklist Smp#: 3

Client ID:

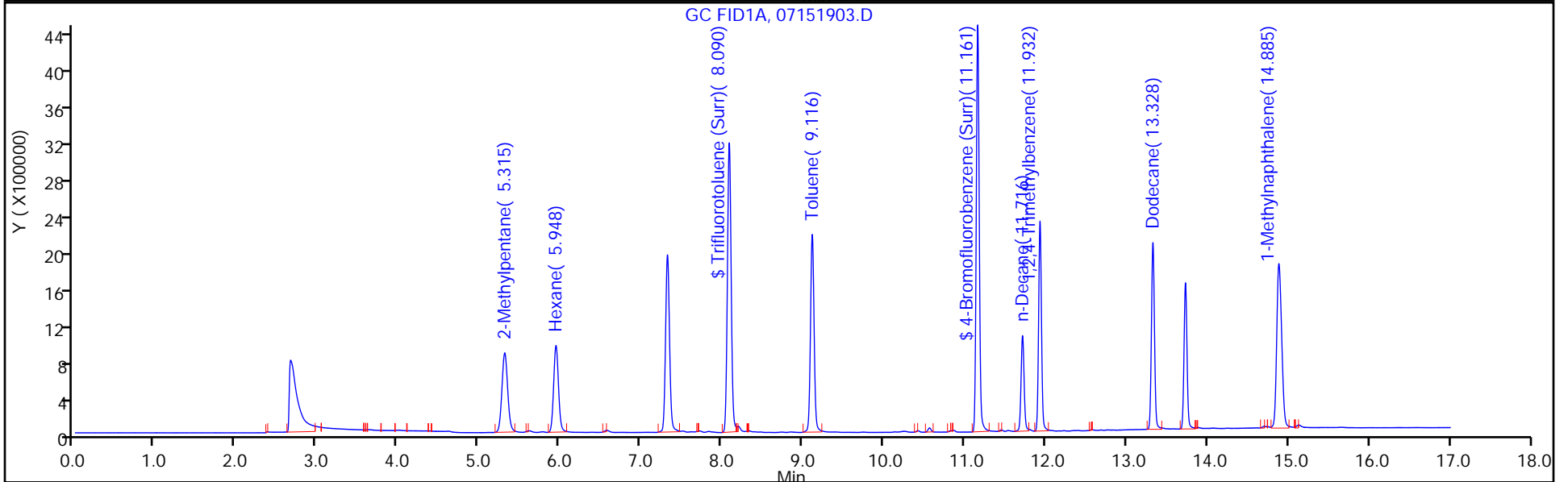
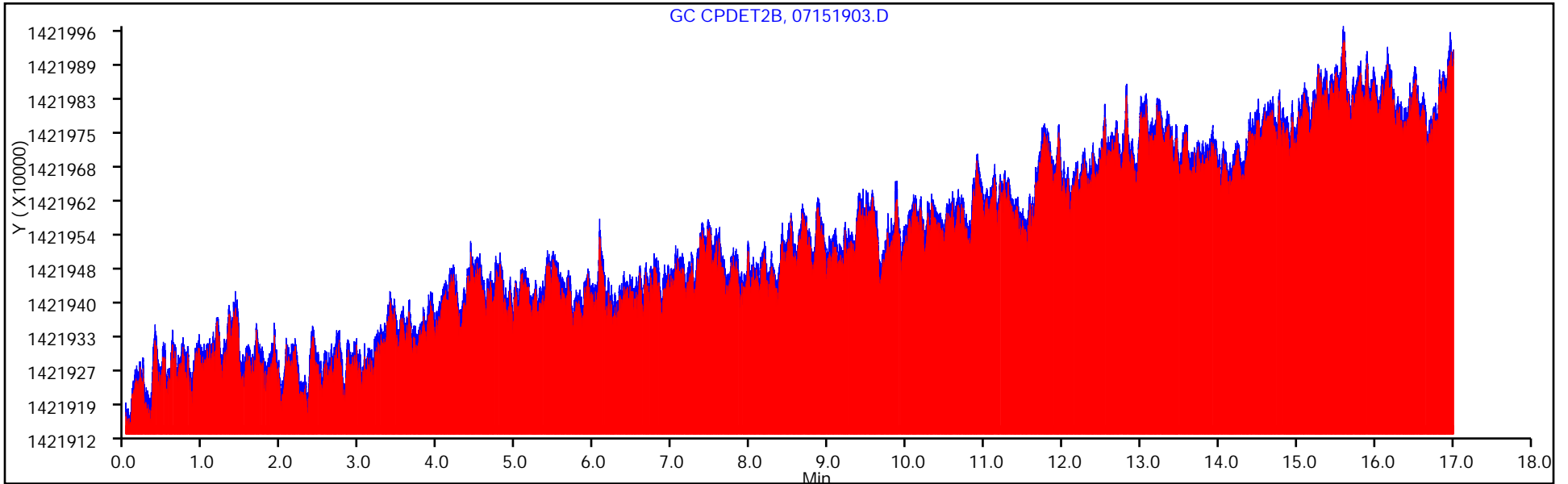
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 3

Method: GRO_SEA006

Limit Group: Ak101 GRO



Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA047\20190723-66471.b\07221929.D

Injection Date: 22-Jul-2019 22:16:30

Instrument ID: SEA047

Operator ID: dcv

Lims ID: RTC

Worklist Smp#: 2

Client ID:

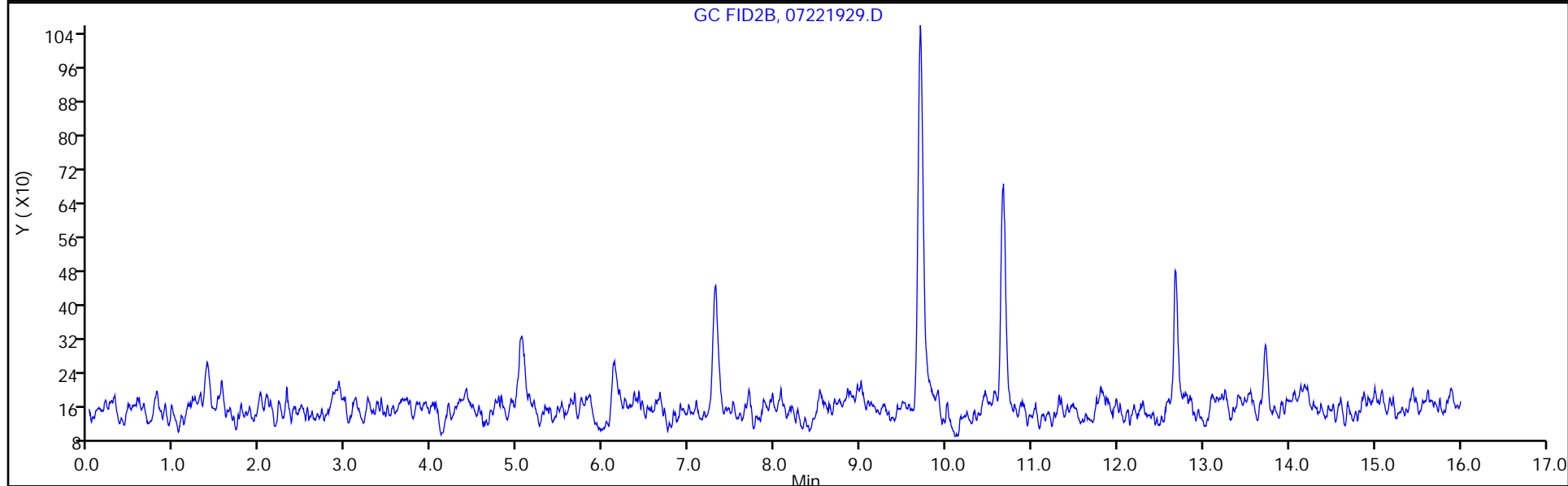
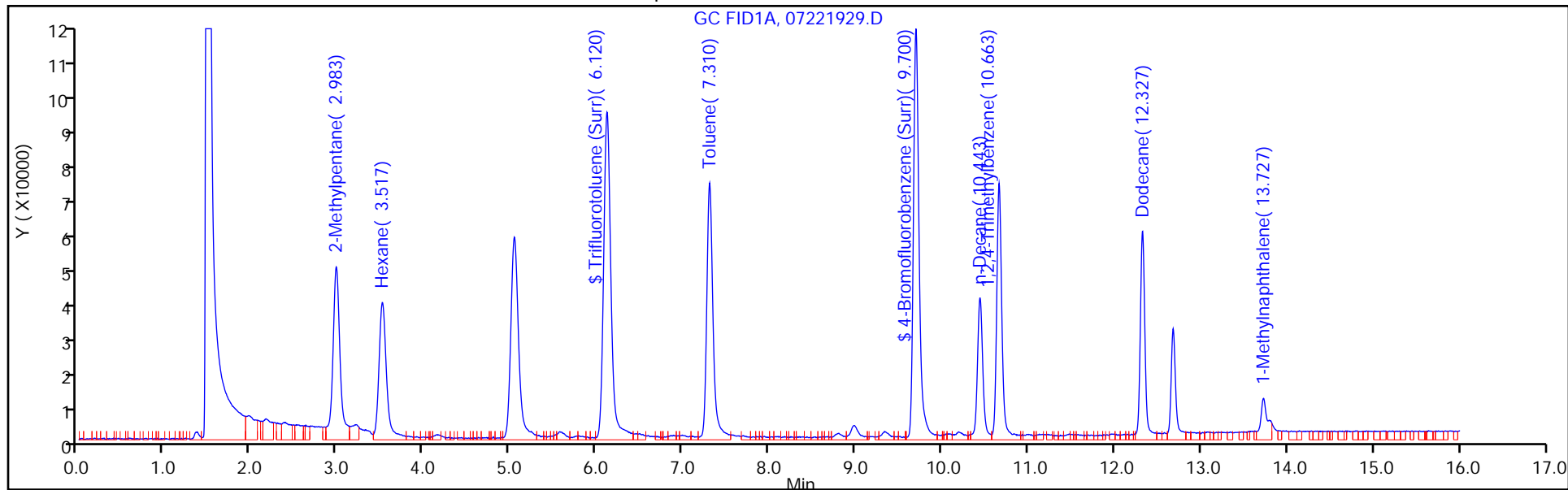
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 23

Method: GX_SEA047

Limit Group: Ak101 GRO



Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20190726-66536.b\07251915.D

Injection Date: 25-Jul-2019 17:15:30

Instrument ID: SEA006

Operator ID: DSO

Lims ID: RTC

Worklist Smp#: 3

Client ID:

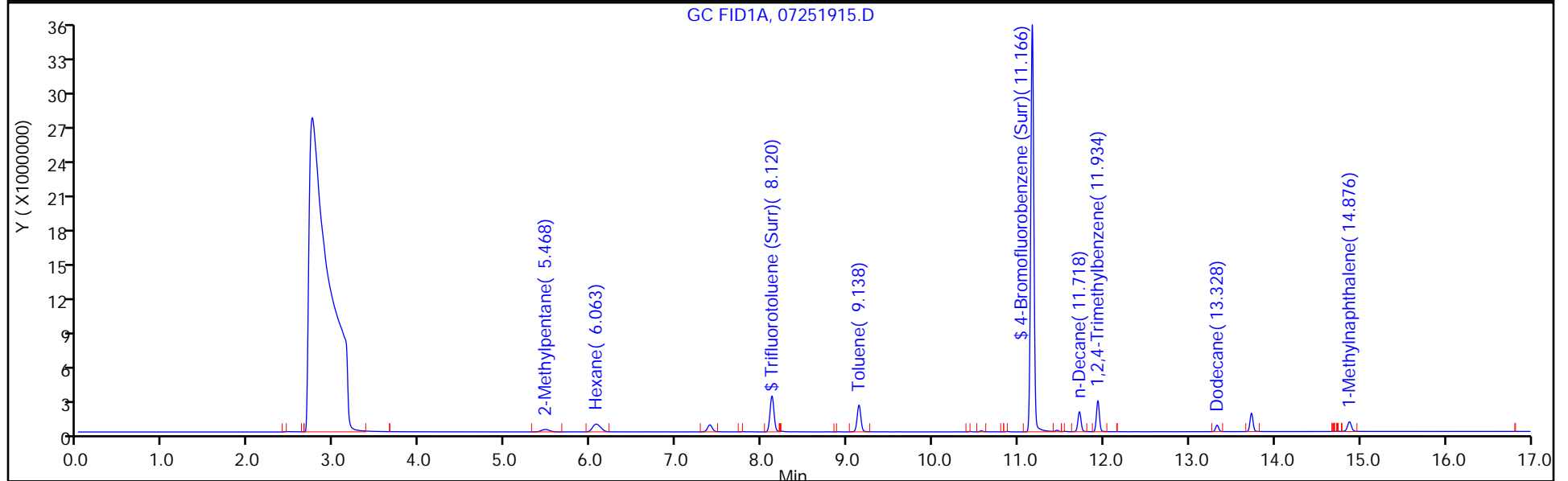
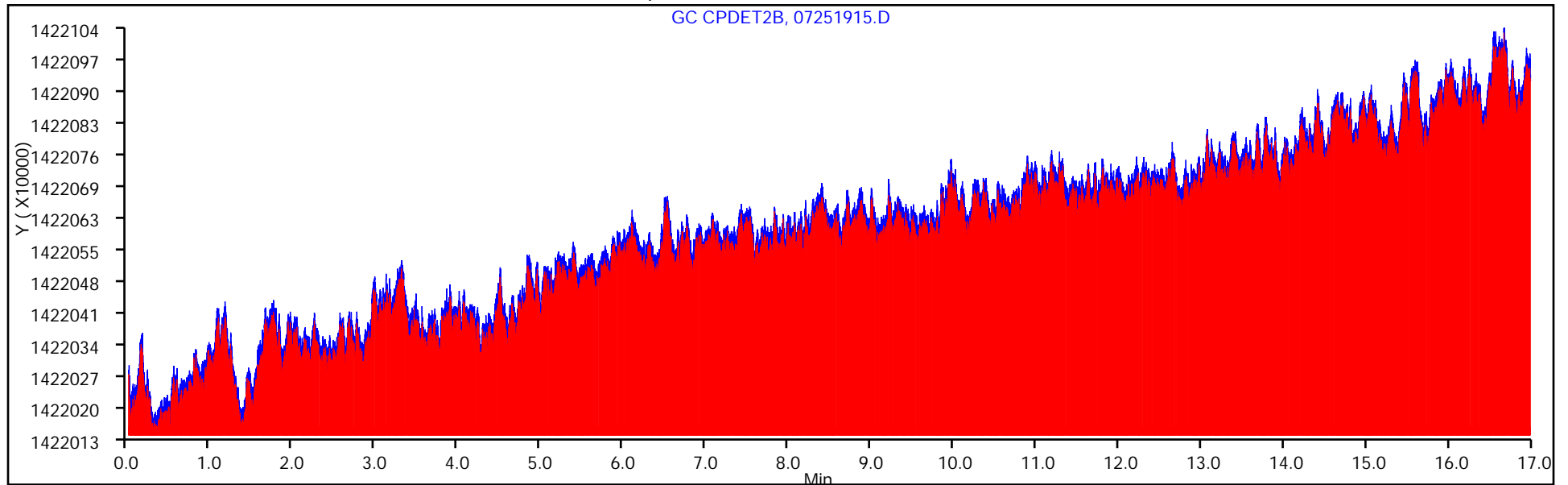
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 102

Method: GRO_SEA006

Limit Group: Ak101 GRO



FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: ICV 580-302689/13 Calibration Date: 06/08/2019 14:20
 Instrument ID: SEA006 Calib Start Date: 06/08/2019 10:17
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 06/08/2019 13:52
 Lab File ID: 06081913.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	126708	116890		923	1000	-7.7	25.0
Trifluorotoluene (Surr)	Ave	152072	159412		62.9	60.0	4.8	25.0
4-Bromofluorobenzene (Surr)	Ave	109508	114421		104	100	4.5	25.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: ICV 580-302689/13 Calibration Date: 06/08/2019 14:20
 Instrument ID: SEA006 Calib Start Date: 06/08/2019 10:17
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 06/08/2019 13:52
 Lab File ID: 06081913.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	8.75	5.86	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.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-305675/4 Calibration Date: 07/15/2019 12:11
 Instrument ID: SEA006 Calib Start Date: 06/08/2019 10:17
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 06/08/2019 13:52
 Lab File ID: 07151904.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	126708	129221		1020	1000	2.0	25.0
Trifluorotoluene (Surr)	Ave	152072	164508		64.9	60.0	8.2	25.0
4-Bromofluorobenzene (Surr)	Ave	109508	115987		106	100	5.9	25.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-305675/4 Calibration Date: 07/15/2019 12:11
 Instrument ID: SEA006 Calib Start Date: 06/08/2019 10:17
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 06/08/2019 13:52
 Lab File ID: 07151904.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	8.74	5.85	11.62
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.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-305675/15 Calibration Date: 07/15/2019 17:08
 Instrument ID: SEA006 Calib Start Date: 06/08/2019 10:17
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 06/08/2019 13:52
 Lab File ID: 07151915.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	126708	127633		1010	1000	0.7	25.0
Trifluorotoluene (Surr)	Ave	152072	169688		66.9	60.0	11.6	25.0
4-Bromofluorobenzene (Surr)	Ave	109508	111641		102	100	1.9	25.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-305675/15 Calibration Date: 07/15/2019 17:08
 Instrument ID: SEA006 Calib Start Date: 06/08/2019 10:17
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 06/08/2019 13:52
 Lab File ID: 07151915.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	8.74	5.85	11.62
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.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: ICV 580-306565/13 Calibration Date: 07/25/2019 15:04
 Instrument ID: SEA006 Calib Start Date: 07/25/2019 11:23
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/25/2019 14:39
 Lab File ID: 07251912.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	161486	168009		1040	1000	4.0	25.0
Trifluorotoluene (Surr)	Ave	175315	175550		60.1	60.0	0.1	25.0
4-Bromofluorobenzene (Surr)	Ave	172900	176204		510	500	1.9	25.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: ICV 580-306565/13 Calibration Date: 07/25/2019 15:04
 Instrument ID: SEA006 Calib Start Date: 07/25/2019 11:23
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/25/2019 14:39
 Lab File ID: 07251912.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	8.79	5.93	11.65
Trifluorotoluene (Surr)	8.12	8.01	8.21
4-Bromofluorobenzene (Surr)	11.17	11.06	11.26

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-306683/4 Calibration Date: 07/25/2019 17:39
 Instrument ID: SEA006 Calib Start Date: 07/25/2019 11:23
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/25/2019 14:39
 Lab File ID: 07251916.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	161486	161388		999	1000	-0.0	25.0
Trifluorotoluene (Surr)	Ave	175315	179821		61.5	60.0	2.6	25.0
4-Bromofluorobenzene (Surr)	Ave	172900	175844		509	500	1.7	25.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-306683/4 Calibration Date: 07/25/2019 17:39
 Instrument ID: SEA006 Calib Start Date: 07/25/2019 11:23
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/25/2019 14:39
 Lab File ID: 07251916.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	8.79	5.94	11.63
Trifluorotoluene (Surr)	8.12	8.02	8.22
4-Bromofluorobenzene (Surr)	11.17	11.07	11.27

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306683/15 Calibration Date: 07/25/2019 22:09
 Instrument ID: SEA006 Calib Start Date: 07/25/2019 11:23
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/25/2019 14:39
 Lab File ID: 07251927.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	161486	159948		990	1000	-1.0	25.0
Trifluorotoluene (Surr)	Ave	175315	182564		62.5	60.0	4.1	25.0
4-Bromofluorobenzene (Surr)	Ave	172900	177687		514	500	2.8	25.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306683/15 Calibration Date: 07/25/2019 22:09
 Instrument ID: SEA006 Calib Start Date: 07/25/2019 11:23
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/25/2019 14:39
 Lab File ID: 07251927.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	8.79	5.94	11.63
Trifluorotoluene (Surr)	8.12	8.02	8.22
4-Bromofluorobenzene (Surr)	11.17	11.07	11.27

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306683/26 Calibration Date: 07/26/2019 02:38
 Instrument ID: SEA006 Calib Start Date: 07/25/2019 11:23
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/25/2019 14:39
 Lab File ID: 07251938.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	161486	150807		934	1000	-6.6	25.0
Trifluorotoluene (Surr)	Ave	175315	171343		58.6	60.0	-2.3	25.0
4-Bromofluorobenzene (Surr)	Ave	172900	179183		518	500	3.6	25.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306683/26 Calibration Date: 07/26/2019 02:38
 Instrument ID: SEA006 Calib Start Date: 07/25/2019 11:23
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/25/2019 14:39
 Lab File ID: 07251938.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	8.79	5.94	11.63
Trifluorotoluene (Surr)	8.12	8.02	8.22
4-Bromofluorobenzene (Surr)	11.17	11.07	11.27

FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: ICV 580-306268/17 Calibration Date: 07/22/2019 21:16
 Instrument ID: SEA047 Calib Start Date: 07/22/2019 16:45
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/22/2019 20:46
 Lab File ID: 07221927.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		8004		1040	1000	3.7	25.0
Trifluorotoluene (Surr)	Ave	8367	8333		59.7	60.0	-0.4	25.0
4-Bromofluorobenzene (Surr)	Ave	5276	4941		93.7	100	-6.3	25.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: ICV 580-306268/17 Calibration Date: 07/22/2019 21:16
 Instrument ID: SEA047 Calib Start Date: 07/22/2019 16:45
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/22/2019 20:46
 Lab File ID: 07221927.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.88	3.40	10.35
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.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-306362/3 Calibration Date: 07/22/2019 22:46
 Instrument ID: SEA047 Calib Start Date: 07/22/2019 16:45
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/22/2019 20:46
 Lab File ID: 07221930.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		7748		1000	1000	0.3	25.0
Trifluorotoluene (Surr)	Ave	8367	8583		61.5	60.0	2.6	25.0
4-Bromofluorobenzene (Surr)	Ave	5276	5172		98.0	100	-2.0	25.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-306362/3 Calibration Date: 07/22/2019 22:46
 Instrument ID: SEA047 Calib Start Date: 07/22/2019 16:45
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/22/2019 20:46
 Lab File ID: 07221930.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.87	3.41	10.33
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.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306362/13 Calibration Date: 07/23/2019 03:47
 Instrument ID: SEA047 Calib Start Date: 07/22/2019 16:45
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/22/2019 20:46
 Lab File ID: 07221940.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		7272		940	1000	-6.0	25.0
Trifluorotoluene (Surr)	Ave	8367	7964		57.1	60.0	-4.8	25.0
4-Bromofluorobenzene (Surr)	Ave	5276	5029		95.3	100	-4.7	25.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306362/13 Calibration Date: 07/23/2019 03:47
 Instrument ID: SEA047 Calib Start Date: 07/22/2019 16:45
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/22/2019 20:46
 Lab File ID: 07221940.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.87	3.41	10.33
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.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306362/22 Calibration Date: 07/23/2019 08:18
 Instrument ID: SEA047 Calib Start Date: 07/22/2019 16:45
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/22/2019 20:46
 Lab File ID: 07221949.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		7467		965	1000	-3.5	25.0
Trifluorotoluene (Surr)	Ave	8367	8342		59.8	60.0	-0.3	25.0
4-Bromofluorobenzene (Surr)	Ave	5276	5332		101	100	1.1	25.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306362/22 Calibration Date: 07/23/2019 08:18
 Instrument ID: SEA047 Calib Start Date: 07/22/2019 16:45
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/22/2019 20:46
 Lab File ID: 07221949.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.87	3.41	10.33
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.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306362/30 Calibration Date: 07/23/2019 12:19
 Instrument ID: SEA047 Calib Start Date: 07/22/2019 16:45
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/22/2019 20:46
 Lab File ID: 07221957.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		7529		974	1000	-2.6	25.0
Trifluorotoluene (Surr)	Ave	8367	7985		57.2	60.0	-4.6	25.0
4-Bromofluorobenzene (Surr)	Ave	5276	5322		101	100	0.9	25.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306362/30 Calibration Date: 07/23/2019 12:19
 Instrument ID: SEA047 Calib Start Date: 07/22/2019 16:45
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 07/22/2019 20:46
 Lab File ID: 07221957.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline Range Organics (GRO)-C6-C10	6.87	3.41	10.33
Trifluorotoluene (Surr)	6.12	6.02	6.22
4-Bromofluorobenzene (Surr)	9.70	9.60	9.80

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-305675/5
 Matrix: Water Lab File ID: 07151905.D
 Analysis Method: AK101 Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2019 12:38
 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.: 305675 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)	123		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.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-306362/4
 Matrix: Water Lab File ID: 07221931.D
 Analysis Method: AK101 Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/22/2019 23:17
 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.: 306362 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)	87		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.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-306683/5
 Matrix: Water Lab File ID: 07251917.D
 Analysis Method: AK101 Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2019 18:04
 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.: 306683 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)	52		50-150
460-00-4	4-Bromofluorobenzene (Surr)	102		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-305675/6
 Matrix: Water Lab File ID: 07151906.D
 Analysis Method: AK101 Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2019 13:05
 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.: 305675 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	1.02		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	112		50-150
460-00-4	4-Bromofluorobenzene (Surr)	104		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-306362/5
 Matrix: Water Lab File ID: 07221932.D
 Analysis Method: AK101 Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/22/2019 23:47
 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.: 306362 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	1.01		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	98		50-150
460-00-4	4-Bromofluorobenzene (Surr)	100		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-306683/6
 Matrix: Water Lab File ID: 07251918.D
 Analysis Method: AK101 Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2019 18:28
 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.: 306683 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.991		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	101		50-150
460-00-4	4-Bromofluorobenzene (Surr)	101		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-305675/7
 Matrix: Water Lab File ID: 07151907.D
 Analysis Method: AK101 Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2019 13:33
 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.: 305675 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	1.05		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	111		50-150
460-00-4	4-Bromofluorobenzene (Surr)	107		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-306362/6
 Matrix: Water Lab File ID: 07221933.D
 Analysis Method: AK101 Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2019 00:17
 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.: 306362 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	1.02		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	102		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.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-306683/7
 Matrix: Water Lab File ID: 07251919.D
 Analysis Method: AK101 Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2019 18:52
 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.: 306683 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	1.02		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	105		50-150
460-00-4	4-Bromofluorobenzene (Surr)	104		50-150

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: MW-304D-W-190710 MS Lab Sample ID: 580-87636-9 MS
 Matrix: Water Lab File ID: 07251925.D
 Analysis Method: AK101 Date Collected: 07/10/2019 15:15
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2019 21:20
 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.: 306683 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.849		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	95		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.: 580-87636-1
 SDG No.: _____
 Client Sample ID: MW-304D-W-190710 MSD Lab Sample ID: 580-87636-9 MSD
 Matrix: Water Lab File ID: 07251926.D
 Analysis Method: AK101 Date Collected: 07/10/2019 15:15
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2019 21:44
 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.: 306683 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	0.578		0.25	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	Trifluorotoluene (Surr)	76		50-150
460-00-4	4-Bromofluorobenzene (Surr)	101		50-150

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA006 Start Date: 06/08/2019 09:50

Analysis Batch Number: 302689 End Date: 06/08/2019 14:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-302689/3		06/08/2019 09:50	1		RTX-VRX 0.45 (mm)
STD25000 580-302689/4 IC		06/08/2019 10:17	1	06081904.D	RTX-VRX 0.45 (mm)
STD15000 580-302689/5 IC		06/08/2019 10:44	1	06081905.D	RTX-VRX 0.45 (mm)
STD10000 580-302689/6 IC		06/08/2019 11:10	1	06081906.D	RTX-VRX 0.45 (mm)
STD5000 580-302689/7 IC		06/08/2019 11:37	1	06081907.D	RTX-VRX 0.45 (mm)
STD1000 580-302689/8 ICRT		06/08/2019 12:04	1	06081908.D	RTX-VRX 0.45 (mm)
STD500 580-302689/9 IC		06/08/2019 12:30	1	06081909.D	RTX-VRX 0.45 (mm)
STD250 580-302689/10 IC		06/08/2019 12:58	1	06081910.D	RTX-VRX 0.45 (mm)
STD100 580-302689/11 IC		06/08/2019 13:25	1	06081911.D	RTX-VRX 0.45 (mm)
STD50 580-302689/12 IC		06/08/2019 13:52	1	06081912.D	RTX-VRX 0.45 (mm)
ICV 580-302689/13		06/08/2019 14:20	1	06081913.D	RTX-VRX 0.45 (mm)

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA006 Start Date: 07/15/2019 11:44

Analysis Batch Number: 305675 End Date: 07/15/2019 17:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-305675/3		07/15/2019 11:44	1	07151903.D	RTX-VRX 0.45 (mm)
CCVRT 580-305675/4		07/15/2019 12:11	1	07151904.D	RTX-VRX 0.45 (mm)
MB 580-305675/5		07/15/2019 12:38	1	07151905.D	RTX-VRX 0.45 (mm)
LCS 580-305675/6		07/15/2019 13:05	1	07151906.D	RTX-VRX 0.45 (mm)
LCSD 580-305675/7		07/15/2019 13:33	1	07151907.D	RTX-VRX 0.45 (mm)
580-87636-11		07/15/2019 14:26	1	07151909.D	RTX-VRX 0.45 (mm)
CCV 580-305675/15		07/15/2019 17:08	1	07151915.D	RTX-VRX 0.45 (mm)

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA006 Start Date: 07/25/2019 10:59

Analysis Batch Number: 306565 End Date: 07/25/2019 15:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-306565/3		07/25/2019 10:59	1		RTX-VRX 0.45 (mm)
STD25000 580-306565/4 IC		07/25/2019 11:23	1	07251903.D	RTX-VRX 0.45 (mm)
STD15000 580-306565/5 IC		07/25/2019 11:47	1	07251904.D	RTX-VRX 0.45 (mm)
STD10000 580-306565/6 IC		07/25/2019 12:12	1	07251905.D	RTX-VRX 0.45 (mm)
STD5000 580-306565/7 IC		07/25/2019 12:37	1	07251906.D	RTX-VRX 0.45 (mm)
STD1000 580-306565/8 ICRT		07/25/2019 13:01	1	07251907.D	RTX-VRX 0.45 (mm)
STD500 580-306565/9 IC		07/25/2019 13:25	1	07251908.D	RTX-VRX 0.45 (mm)
STD250 580-306565/10 IC		07/25/2019 13:50	1	07251909.D	RTX-VRX 0.45 (mm)
STD100 580-306565/11 IC		07/25/2019 14:15	1	07251910.D	RTX-VRX 0.45 (mm)
STD50 580-306565/12 IC		07/25/2019 14:39	1	07251911.D	RTX-VRX 0.45 (mm)
ICV 580-306565/13		07/25/2019 15:04	1	07251912.D	RTX-VRX 0.45 (mm)

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA006 Start Date: 07/25/2019 17:15

Analysis Batch Number: 306683 End Date: 07/26/2019 09:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-306683/3		07/25/2019 17:15	1	07251915.D	RTX-VRX 0.45 (mm)
CCVRT 580-306683/4		07/25/2019 17:39	1	07251916.D	RTX-VRX 0.45 (mm)
MB 580-306683/5		07/25/2019 18:04	1	07251917.D	RTX-VRX 0.45 (mm)
LCS 580-306683/6		07/25/2019 18:28	1	07251918.D	RTX-VRX 0.45 (mm)
LCSD 580-306683/7		07/25/2019 18:52	1	07251919.D	RTX-VRX 0.45 (mm)
ZZZZZ		07/25/2019 19:17	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/25/2019 19:42	1		RTX-VRX 0.45 (mm)
580-87636-7 DL		07/25/2019 20:06	20	07251922.D	RTX-VRX 0.45 (mm)
580-87636-2		07/25/2019 20:31	1	07251923.D	RTX-VRX 0.45 (mm)
580-87636-9		07/25/2019 20:55	1	07251924.D	RTX-VRX 0.45 (mm)
580-87636-9 MS		07/25/2019 21:20	1	07251925.D	RTX-VRX 0.45 (mm)
580-87636-9 MSD		07/25/2019 21:44	1	07251926.D	RTX-VRX 0.45 (mm)
CCV 580-306683/15		07/25/2019 22:09	1	07251927.D	RTX-VRX 0.45 (mm)
580-87636-1		07/25/2019 22:33	1	07251928.D	RTX-VRX 0.45 (mm)
580-87636-3		07/25/2019 22:57	1	07251929.D	RTX-VRX 0.45 (mm)
580-87636-4		07/25/2019 23:22	1	07251930.D	RTX-VRX 0.45 (mm)
580-87636-5		07/25/2019 23:47	1	07251931.D	RTX-VRX 0.45 (mm)
580-87636-6		07/26/2019 00:11	1	07251932.D	RTX-VRX 0.45 (mm)
580-87636-8		07/26/2019 00:36	1	07251933.D	RTX-VRX 0.45 (mm)
580-87636-10		07/26/2019 01:00	1	07251934.D	RTX-VRX 0.45 (mm)
ZZZZZ		07/26/2019 01:24	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/26/2019 01:49	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/26/2019 02:13	1		RTX-VRX 0.45 (mm)
CCV 580-306683/26		07/26/2019 02:38	1	07251938.D	RTX-VRX 0.45 (mm)
ZZZZZ		07/26/2019 03:02	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/26/2019 03:27	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/26/2019 03:51	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/26/2019 04:16	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/26/2019 04:40	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/26/2019 08:15	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/26/2019 08:40	1		RTX-VRX 0.45 (mm)
CCV 580-306683/34		07/26/2019 09:04	1		RTX-VRX 0.45 (mm)

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA047 Start Date: 07/22/2019 13:00

Analysis Batch Number: 306268 End Date: 07/22/2019 21:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/22/2019 13:00	1		RTX-VRX 0.45 (mm)
RTC 580-306268/7		07/22/2019 16:15	1		RTX-VRX 0.45 (mm)
STD25000 580-306268/8 IC		07/22/2019 16:45	1	07221918.D	RTX-VRX 0.45 (mm)
STD15000 580-306268/9 IC		07/22/2019 17:15	1	07221919.D	RTX-VRX 0.45 (mm)
STD10000 580-306268/10 IC		07/22/2019 17:45	1	07221920.D	RTX-VRX 0.45 (mm)
STD5000 580-306268/11 IC		07/22/2019 18:16	1	07221921.D	RTX-VRX 0.45 (mm)
STD1000 580-306268/12 ICRT		07/22/2019 18:46	1	07221922.D	RTX-VRX 0.45 (mm)
STD500 580-306268/13 IC		07/22/2019 19:16	1	07221923.D	RTX-VRX 0.45 (mm)
STD250 580-306268/14 IC		07/22/2019 19:46	1	07221924.D	RTX-VRX 0.45 (mm)
STD100 580-306268/15 IC		07/22/2019 20:16	1	07221925.D	RTX-VRX 0.45 (mm)
STD50 580-306268/16 IC		07/22/2019 20:46	1	07221926.D	RTX-VRX 0.45 (mm)
ICV 580-306268/17		07/22/2019 21:16	1	07221927.D	RTX-VRX 0.45 (mm)

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA047 Start Date: 07/22/2019 22:16

Analysis Batch Number: 306362 End Date: 07/23/2019 12:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-306362/2		07/22/2019 22:16	1	07221929.D	RTX-VRX 0.45 (mm)
CCVRT 580-306362/3		07/22/2019 22:46	1	07221930.D	RTX-VRX 0.45 (mm)
MB 580-306362/4		07/22/2019 23:17	1	07221931.D	RTX-VRX 0.45 (mm)
LCS 580-306362/5		07/22/2019 23:47	1	07221932.D	RTX-VRX 0.45 (mm)
LCSD 580-306362/6		07/23/2019 00:17	1	07221933.D	RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 00:47	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 01:17	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 01:47	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 02:17	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 02:47	1		RTX-VRX 0.45 (mm)
CCV 580-306362/13		07/23/2019 03:47	1	07221940.D	RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 04:17	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 04:48	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 05:18	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 05:48	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 06:18	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 06:48	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 07:18	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 07:48	1		RTX-VRX 0.45 (mm)
CCV 580-306362/22		07/23/2019 08:18	1	07221949.D	RTX-VRX 0.45 (mm)
580-87636-7		07/23/2019 08:48	1	07221950.D	RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 09:19	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 09:48	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 10:19	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 10:49	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 11:19	1		RTX-VRX 0.45 (mm)
ZZZZZ		07/23/2019 11:49	1		RTX-VRX 0.45 (mm)
CCV 580-306362/30		07/23/2019 12:19	1	07221957.D	RTX-VRX 0.45 (mm)

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Batch Number: 302689 Batch Start Date: 06/08/19 09:50 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BFBGRO ARCHON 00024	GRO BTEXBlend 00010	GRO_LCS 00052	Methanol 1L 00032
STD25000 580-302689/4 IC		AK101		5 mL	5 mL	1 uL		625 uL	625 uL
STD15000 580-302689/5 IC		AK101		5 mL	5 mL	1 uL		375 uL	875 uL
STD10000 580-302689/6 IC		AK101		5 mL	5 mL	1 uL		250 uL	1000 uL
STD5000 580-302689/7 IC		AK101		5 mL	5 mL	1 uL		125 uL	1125 uL
STD1000 580-302689/8 ICRT		AK101		5 mL	5 mL	1 uL		25 uL	1225 uL
STD500 580-302689/9 IC		AK101		5 mL	5 mL	1 uL		25 uL	2450 uL
STD250 580-302689/10 IC		AK101		5 mL	5 mL	1 uL		12.5 uL	2500 uL
STD100 580-302689/11 IC		AK101		5 mL	5 mL	1 uL		5 uL	2500 uL
STD50 580-302689/12 IC		AK101		5 mL	5 mL	1 uL		2.5 uL	2500 uL
ICV 580-302689/13		AK101		5 mL	5 mL	1 uL	25 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00035				
STD25000 580-302689/4 IC		AK101		1 uL					
STD15000 580-302689/5 IC		AK101		1 uL					
STD10000 580-302689/6 IC		AK101		25 uL					
STD5000 580-302689/7 IC		AK101		18.75 uL					
STD1000 580-302689/8 ICRT		AK101		12.5 uL					
STD500 580-302689/9 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.: 580-87636-1

SDG No.: _____

Batch Number: 302689 Batch Start Date: 06/08/19 09:50 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 00035				
STD250 580-302689/10 IC		AK101		15 uL					
STD100 580-302689/11 IC		AK101		10 uL					
STD50 580-302689/12 IC		AK101		5 uL					
ICV 580-302689/13		AK101			1250 uL				

Batch Notes	

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.: 580-87636-1

SDG No.: _____

Batch Number: 305675 Batch Start Date: 07/15/19 11:44 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 00031	GRO_LCS 00052	RT_GRO_CUS 00021
RTC 580-305675/3		AK101		5 mL	5 mL		1 uL		11 uL
CCVRT 580-305675/4		AK101		5 mL	5 mL		1 uL	25 uL	
MB 580-305675/5		AK101		5 mL	5 mL		1 uL		
LCS 580-305675/6		AK101		5 mL	5 mL		1 uL	25 uL	
LCSD 580-305675/7		AK101		5 mL	5 mL		1 uL	25 uL	
580-87636-A-11	TRIP BLANK	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
CCV 580-305675/15		AK101		5 mL	5 mL		1 uL	25 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00036				
RTC 580-305675/3		AK101			1250 uL				
CCVRT 580-305675/4		AK101			1250 uL				
MB 580-305675/5		AK101		10.75 uL					
LCS 580-305675/6		AK101			1250 uL				
LCSD 580-305675/7		AK101			1250 uL				
580-87636-A-11	TRIP BLANK	AK101	T	10.75 uL					
CCV 580-305675/15		AK101			1250 uL				

Batch Notes	
pH Indicator ID	LOT#6901002 pH0.0-6.0
Pipette/Syringe/Dispenser ID	B50K, C2500G, C25E
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.

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Batch Number: 306268 Batch Start Date: 07/22/19 13:00 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 00053	Methanol 1L 00032
STD25000 580-306268/8 IC		AK101		5 mL	5 mL	1 uL		625 uL	625 uL
STD15000 580-306268/9 IC		AK101		5 mL	5 mL	1 uL		375 uL	875 uL
STD10000 580-306268/10 IC		AK101		5 mL	5 mL	1 uL		250 uL	1000 uL
STD5000 580-306268/11 IC		AK101		5 mL	5 mL	1 uL		125 uL	1125 uL
STD1000 580-306268/12 ICRT		AK101		5 mL	5 mL	1 uL		50 uL	2450 uL
STD500 580-306268/13 IC		AK101		5 mL	5 mL	1 uL		25 uL	2450 uL
STD250 580-306268/14 IC		AK101		5 mL	5 mL	1 uL		12.5 uL	2500 uL
STD100 580-306268/15 IC		AK101		5 mL	5 mL	1 uL		5 uL	2500 uL
STD50 580-306268/16 IC		AK101		5 mL	5 mL	1 uL		2.5 uL	2500 uL
ICV 580-306268/17		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 580-306268/8 IC		AK101		1 uL					
STD15000 580-306268/9 IC		AK101		1 uL					
STD10000 580-306268/10 IC		AK101		25 uL					
STD5000 580-306268/11 IC		AK101		18.75 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.: 580-87636-1

SDG No.: _____

Batch Number: 306268 Batch Start Date: 07/22/19 13:00 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				
STD1000 580-306268/12 ICRT		AK101		25 uL					
STD500 580-306268/13 IC		AK101		20 uL					
STD250 580-306268/14 IC		AK101		15 uL					
STD100 580-306268/15 IC		AK101		10 uL					
STD50 580-306268/16 IC		AK101		5 uL					
ICV 580-306268/17		AK101			2500 uL				

Batch Notes	
Pipette/Syringe/Dispenser ID	B50K, B100P, B250P, A500V, C25F, C2500G
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.: 580-87636-1

SDG No.: _____

Batch Number: 306362 Batch Start Date: 07/22/19 22:16 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 00034	GRO_LCS 00053	RT_GRO_CUS 00021
RTC 580-306362/2		AK101		5 mL	5 mL		1 uL		22 uL
CCVRT 580-306362/3		AK101		5 mL	5 mL		1 uL	25 uL	
MB 580-306362/4		AK101		5 mL	5 mL		1 uL		
LCS 580-306362/5		AK101		5 mL	5 mL		1 uL	25 uL	
LCSD 580-306362/6		AK101		5 mL	5 mL		1 uL	25 uL	
CCV 580-306362/13		AK101		5 mL	5 mL		1 uL	25 uL	
CCV 580-306362/22		AK101		5 mL	5 mL		1 uL	25 uL	
580-87636-D-7	G-5-W-190710	AK101	T	5 mL	5 mL	<2.0 SU	1 uL		
CCV 580-306362/30		AK101		5 mL	5 mL		1 uL	25 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00037				
RTC 580-306362/2		AK101			2.5 mL				
CCVRT 580-306362/3		AK101			1250 uL				
MB 580-306362/4		AK101		10.75 uL					
LCS 580-306362/5		AK101			1250 uL				
LCSD 580-306362/6		AK101			1250 uL				
CCV 580-306362/13		AK101			1250 uL				
CCV 580-306362/22		AK101			1250 uL				
580-87636-D-7	G-5-W-190710	AK101	T	10.75 uL					
CCV 580-306362/30		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.: 580-87636-1

SDG No.: _____

Batch Number: 306362 Batch Start Date: 07/22/19 22:16 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: _____

Batch Notes	
pH Indicator ID	pH0.0-6.0 LOT#6901002
Pipette/Syringe/Dispenser ID	B50K,C25F,C2500G
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.

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Batch Number: 306565 Batch Start Date: 07/25/19 10:59 Batch Analyst: Vaughan, Dmiitra C

Batch Method: AK101 Batch End Date: 07/26/19 14:33

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	BFBGRO ARCHON 00034	GRO BTEXBlend 00010	GRO_LCS 00053	Methanol 1L 00032
STD25000 580-306565/4 IC		AK101		5 mL	5 mL	5 uL		1250 uL	1250 uL
STD15000 580-306565/5 IC		AK101		5 mL	5 mL	5 uL		750 uL	1750 uL
STD10000 580-306565/6 IC		AK101		5 mL	5 mL	5 uL		500 uL	2000 uL
STD5000 580-306565/7 IC		AK101		5 mL	5 mL	5 uL		250 uL	2250 uL
STD1000 580-306565/8 ICRT		AK101		5 mL	5 mL	5 uL		50 uL	2450 uL
STD500 580-306565/9 IC		AK101		5 mL	5 mL	5 uL		25 uL	2450 uL
STD250 580-306565/10 IC		AK101		5 mL	5 mL	5 uL		12.5 uL	2500 uL
STD100 580-306565/11 IC		AK101		5 mL	5 mL	5 uL		5 uL	2500 uL
STD50 580-306565/12 IC		AK101		5 mL	5 mL	5 uL		2.5 uL	2500 uL
ICV 580-306565/13		AK101		5 mL	5 mL	5 uL	50 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00037				
STD25000 580-306565/4 IC		AK101		1 uL					
STD15000 580-306565/5 IC		AK101		1 uL					
STD10000 580-306565/6 IC		AK101		50 uL					
STD5000 580-306565/7 IC		AK101		37.5 uL					
STD1000 580-306565/8 ICRT		AK101		25 uL					
STD500 580-306565/9 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.: 580-87636-1

SDG No.: _____

Batch Number: 306565 Batch Start Date: 07/25/19 10:59 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: 07/26/19 14:33

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00037				
STD250 580-306565/10 IC		AK101		15 uL					
STD100 580-306565/11 IC		AK101		10 uL					
STD50 580-306565/12 IC		AK101		5 uL					
ICV 580-306565/13		AK101			2500 uL				

Batch Notes	
Pipette/Syringe/Dispenser ID	C25F, B50K, B100P, C2500G, C500V, A1000X
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.: 580-87636-1

SDG No.: _____

Batch Number: 306683 Batch Start Date: 07/25/19 17:15 Batch Analyst: Vaughan, Dmitra C

Batch Method: AK101 Batch End Date: 07/26/19 14:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFBGRO ARCHON 00034	GRO_LCS 00053	RT_GRO_CUS 00021
RTC 580-306683/3		AK101		5 mL	5 mL		5 uL		22 uL
CCVRT 580-306683/4		AK101		5 mL	5 mL		5 uL	25 uL	
MB 580-306683/5		AK101		5 mL	5 mL		5 uL		
LCS 580-306683/6		AK101		5 mL	5 mL		5 uL	25 uL	
LCS 580-306683/7		AK101		5 mL	5 mL		5 uL	25 uL	
580-87636-E-7	G-5-W-190710	AK101	T	5 mL	5 mL	<2.0 SU	5 uL		
580-87636-B-2	G-8-W-190710	AK101	T	5 mL	5 mL	<2.0 SU	5 uL		
580-87636-B-9	MW-304D-W-190710	AK101	T	5 mL	5 mL	<2.0 SU	5 uL		
580-87636-B-9 MS	MW-304D-W-190710	AK101	T	5 mL	5 mL	<2.0 SU	5 uL	21.5 uL	
580-87636-B-9 MSD	MW-304D-W-190710	AK101	T	5 mL	5 mL	<2.0 SU	5 uL	21.5 uL	
CCV 580-306683/15		AK101		5 mL	5 mL		5 uL	25 uL	
580-87636-B-1	G-7-W-190710	AK101	T	5 mL	5 mL	<2.0 SU	5 uL		
580-87636-B-3	EQB-1-W-190710	AK101	T	5 mL	5 mL	<2.0 SU	5 uL		
580-87636-D-4	G-3-W-190710	AK101	T	5 mL	5 mL	<2.0 SU	5 uL		
580-87636-B-5	G1-R-W-190710	AK101	T	5 mL	5 mL	<2.0 SU	5 uL		
580-87636-D-6	G-4-W-190710	AK101	T	5 mL	5 mL	<2.0 SU	5 uL		
580-87636-D-8	MW-301D-W-190710	AK101	T	5 mL	5 mL	<2.0 SU	5 uL		
580-87636-B-10	BD-1-W-190710	AK101	T	5 mL	5 mL	<2.0 SU	5 uL		
CCV 580-306683/26		AK101		5 mL	5 mL		5 uL	25 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00037				
RTC 580-306683/3		AK101			2.5 mL				
CCVRT 580-306683/4		AK101			1250 uL				
MB 580-306683/5		AK101		10.75 uL					
LCS 580-306683/6		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.: 580-87636-1

SDG No.: _____

Batch Number: 306683 Batch Start Date: 07/25/19 17:15 Batch Analyst: Vaughan, Dmiitra C

Batch Method: AK101 Batch End Date: 07/26/19 14:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	TFT Spike 00036	V2.4TFT-EX 00037			
LCSD 580-306683/7		AK101			1250 uL			
580-87636-E-7	G-5-W-190710	AK101	T	10.75 uL				
580-87636-B-2	G-8-W-190710	AK101	T	10.75 uL				
580-87636-B-9	MW-304D-W-190710	AK101	T	10.75 uL				
580-87636-B-9 MS	MW-304D-W-190710	AK101	T	10.75 uL				
580-87636-B-9 MSD	MW-304D-W-190710	AK101	T	10.75 uL				
CCV 580-306683/15		AK101			1250 uL			
580-87636-B-1	G-7-W-190710	AK101	T	10.75 uL				
580-87636-B-3	EQB-1-W-190710	AK101	T	10.75 uL				
580-87636-D-4	G-3-W-190710	AK101	T	10.75 uL				
580-87636-B-5	G1-R-W-190710	AK101	T	10.75 uL				
580-87636-D-6	G-4-W-190710	AK101	T	10.75 uL				
580-87636-D-8	MW-301D-W-190710	AK101	T	10.75 uL				
580-87636-B-10	BD-1-W-190710	AK101	T	10.75 uL				
CCV 580-306683/26		AK101			1250 uL			

Batch Notes	
pH Indicator ID	Lot#6901002 pH0.0-6.0
Pipette/Syringe/Dispenser ID	C25F, C2500G, B50K
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 AK102 and 103

Alaska - Diesel Range Organics &
Residual Range Organics (GC) by
Method AK102 and AK103

FORM II
DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-87636-1

SDG No.: _____

Matrix: Water

Level: Low

Client Sample ID	Lab Sample ID	NTC #
G-7-W-190710	580-87636-1	88
G-8-W-190710	580-87636-2	95
EQB-1-W-190710	580-87636-3	102
G-3-W-190710	580-87636-4	90
G1-R-W-190710	580-87636-5	94
G-4-W-190710	580-87636-6	97
G-5-W-190710	580-87636-7	96
	MB 580-306395/1-A	106
	LCS 580-306395/2-A	99
	LCSD 580-306395/3-A	96

NTC = n-Triacontane-d62

QC LIMITS
50-150

Column to be used to flag recovery values

FORM II AK102 & 103

FORM II
DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-87636-1

SDG No.: _____

Matrix: Water

Level: Low

Client Sample ID	Lab Sample ID	OTPH #
G-7-W-190710	580-87636-1	85
G-8-W-190710	580-87636-2	95
EQB-1-W-190710	580-87636-3	90
G-3-W-190710	580-87636-4	97
G1-R-W-190710	580-87636-5	102
G-4-W-190710	580-87636-6	104
G-5-W-190710	580-87636-7	97
	MB 580-306395/1-B	89
	LCS 580-306395/2-B	97
	LCSD 580-306395/3-B	88

OTPH = o-Terphenyl

QC LIMITS
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, Seattle Job No.: 580-87636-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 058B0801.D

Lab ID: LCS 580-306395/2-A Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
DRO (nC10-<nC25)	2.00	1.85	93	75-125	

Column to be used to flag recovery and RPD values

FORM III AK102 & 103

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 005F0501.D

Lab ID: LCS 580-306395/2-A RA Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
RRO (nC25-nC36)	2.00	2.22	111	60-120	

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, Seattle Job No.: 580-87636-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 059B0901.D

Lab ID: LCSD 580-306395/3-A Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
DRO (nC10-<nC25)	2.00	1.89	95	2	20	75-125	

Column to be used to flag recovery and RPD values

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 006F0601.D

Lab ID: LCSD 580-306395/3-A RA Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
RRO (nC25-nC36)	2.00	2.40	120	8	20	60-120	

Column to be used to flag recovery and RPD values

FORM III AK102 & 103

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 055B0501.D
 Lab ID: LCS 580-306395/2-B Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
DRO (nC10-<nC25)	2.00	2.01	101	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, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 056B0601.D
 Lab ID: LCSD 580-306395/3-B Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
DRO (nC10-<nC25)	2.00	2.04	102	2	20	75-125	

Column to be used to flag recovery and RPD values

FORM IV
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab File ID: 057B0701.D Lab Sample ID: MB 580-306395/1-A
 Matrix: Water Date Extracted: 07/23/2019 12:20
 Instrument ID: SEA012 Date Analyzed: 07/24/2019 18:59
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-306395/2-A	058B0801.D	07/24/2019 19:20
	LCSD 580-306395/3-A	059B0901.D	07/24/2019 19:42
G-7-W-190710	580-87636-1	087B3701.D	07/25/2019 06:03
G-8-W-190710	580-87636-2	088B3801.D	07/25/2019 06:25
EQB-1-W-190710	580-87636-3	089B3901.D	07/25/2019 06:47
G-3-W-190710	580-87636-4	090B4001.D	07/25/2019 07:09
G1-R-W-190710	580-87636-5	091B4101.D	07/25/2019 07:31
G-4-W-190710	580-87636-6	092B4201.D	07/25/2019 07:53
G-5-W-190710	580-87636-7	093B4301.D	07/25/2019 08:15

FORM IV
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab File ID: 004F0401.D Lab Sample ID: MB 580-306395/1-A
 Matrix: Water Date Extracted: 07/23/2019 12:20
 Instrument ID: SEA012 Date Analyzed: 07/25/2019 17:04
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-306395/2-A RA	005F0501.D	07/25/2019 17:27
	LCSD 580-306395/3-A RA	006F0601.D	07/25/2019 17:49
G-7-W-190710 RA	580-87636-1 RA	011F1101.D	07/25/2019 19:40
G-8-W-190710 RA	580-87636-2 RA	012F1201.D	07/25/2019 20:02
EQB-1-W-190710 RA	580-87636-3 RA	013F1301.D	07/25/2019 20:25
G-3-W-190710 RA	580-87636-4 RA	015F1501.D	07/25/2019 21:10
G1-R-W-190710 RA	580-87636-5 RA	016F1601.D	07/25/2019 21:32
G-4-W-190710 RA	580-87636-6 RA	017F1701.D	07/25/2019 21:54
G-5-W-190710 RA	580-87636-7 RA	018F1801.D	07/25/2019 22:16

FORM IV
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab File ID: 054B0401.D Lab Sample ID: MB 580-306395/1-B
 Matrix: Water Date Extracted: 07/23/2019 12:20
 Instrument ID: SEA012 Date Analyzed: 07/24/2019 17:53
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-306395/2-B	055B0501.D	07/24/2019 18:15
	LCSD 580-306395/3-B	056B0601.D	07/24/2019 18:36
G-7-W-190710	580-87636-1	065B1501.D	07/24/2019 21:57
G-8-W-190710	580-87636-2	066B1601.D	07/24/2019 22:20
EQB-1-W-190710	580-87636-3	067B1701.D	07/24/2019 22:42
G-3-W-190710	580-87636-4	068B1801.D	07/24/2019 23:05
G1-R-W-190710	580-87636-5	069B1901.D	07/24/2019 23:27
G-4-W-190710	580-87636-6	070B2001.D	07/24/2019 23:49
G-5-W-190710	580-87636-7	071B2101.D	07/25/2019 00:12

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Sample No.: ICRT 580-296035/7 Date Analyzed: 03/11/2019 20:27
 Instrument ID: SEA012 GC Column: ZB-1HT ID: 0.25 (mm)
 Lab File ID (Standard): 007F0701.D Heated Purge: (Y/N) N
 Calibration ID: 27513

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				OTPH	NTC	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				5.09	7.49	
UPPER LIMIT				5.14	7.54	
LOWER LIMIT				5.04	7.44	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
ICRT 580-296035/7		03/11/2019 20:27	007F0701.D	5.09	7.49	
ICV 580-296035/13		03/11/2019 22:37	013F1301.D	5.08	7.50	

OTPH = o-Terphenyl
 NTC = n-Triacontane-d62

OTPH RT Limit = ± 0.05 minutes of surrogate RT
 NTC RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Sample No.: ICRT 580-304917/7 Date Analyzed: 07/07/2019 16:00
 Instrument ID: SEA012 GC Column: ZB-1HT ID: 0.25 (mm)
 Lab File ID (Standard): 107B0701.D Heated Purge: (Y/N) N
 Calibration ID: 27998

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				OTPH	NTC	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				4.77	7.24	
UPPER LIMIT				4.82	7.29	
LOWER LIMIT				4.72	7.19	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
ICRT 580-304917/7		07/07/2019 16:00	107B0701.D	4.77	7.24	
ICV 580-304917/13		07/07/2019 18:15	113B1301.D	4.77	7.27	

OTPH = o-Terphenyl
 NTC = n-Triacontane-d62

OTPH RT Limit = ± 0.05 minutes of surrogate RT
 NTC RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Sample No.: CCVRT 580-306540/3 Date Analyzed: 07/24/2019 17:31
 Instrument ID: SEA012 GC Column: ZB-1HT ID: 0.25 (mm)
 Lab File ID (Standard): 053B0301.D Heated Purge: (Y/N) N
 Calibration ID: 27998

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				OTPH	NTC	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				4.76	7.26	
UPPER LIMIT				4.81	7.31	
LOWER LIMIT				4.71	7.21	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-306540/3		07/24/2019 17:31	053B0301.D	4.76	7.26	
MB 580-306395/1-B		07/24/2019 17:53	054B0401.D	4.76	7.24	
LCS 580-306395/2-B		07/24/2019 18:15	055B0501.D	4.76	7.23	
LCSD 580-306395/3-B		07/24/2019 18:36	056B0601.D	4.76	7.23	
MB 580-306395/1-A		07/24/2019 18:59	057B0701.D	4.76	7.23	
LCS 580-306395/2-A		07/24/2019 19:20	058B0801.D	4.76	7.22	
LCSD 580-306395/3-A		07/24/2019 19:42	059B0901.D	4.76	7.23	
CCV 580-306540/14		07/24/2019 21:34	064B1401.D	4.76	7.26	
580-87636-1	G-7-W-190710	07/24/2019 21:57	065B1501.D	4.76	7.25	
580-87636-2	G-8-W-190710	07/24/2019 22:20	066B1601.D	4.76	7.25	
580-87636-3	EQB-1-W-190710	07/24/2019 22:42	067B1701.D	4.76	7.24	
580-87636-4	G-3-W-190710	07/24/2019 23:05	068B1801.D	4.76	7.24	
580-87636-5	G1-R-W-190710	07/24/2019 23:27	069B1901.D	4.76	7.23	
580-87636-6	G-4-W-190710	07/24/2019 23:49	070B2001.D	4.76	7.24	
580-87636-7	G-5-W-190710	07/25/2019 00:12	071B2101.D	4.76	7.23	
CCV 580-306540/25		07/25/2019 01:41	075B2501.D	4.76	7.23	
CCV 580-306540/36		07/25/2019 05:41	086B3601.D	4.76	7.24	
580-87636-1	G-7-W-190710	07/25/2019 06:03	087B3701.D	4.76	7.23	
580-87636-2	G-8-W-190710	07/25/2019 06:25	088B3801.D	4.76	7.22	
580-87636-3	EQB-1-W-190710	07/25/2019 06:47	089B3901.D	4.76	7.23	
580-87636-4	G-3-W-190710	07/25/2019 07:09	090B4001.D	4.76	7.23	
580-87636-5	G1-R-W-190710	07/25/2019 07:31	091B4101.D	4.76	7.24	
580-87636-6	G-4-W-190710	07/25/2019 07:53	092B4201.D	4.76	7.24	
580-87636-7	G-5-W-190710	07/25/2019 08:15	093B4301.D	4.76	7.24	
CCV 580-306540/44		07/25/2019 08:37	094B4401.D	4.76	7.23	

OTPH = o-Terphenyl
 NTC = n-Triacontane-d62

OTPH RT Limit = ± 0.05 minutes of surrogate RT
 NTC RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-7-W-190710 Lab Sample ID: 580-87636-1
 Matrix: Water Lab File ID: 065B1501.D
 Analysis Method: AK102/103 Date Collected: 07/10/2019 08:30
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 241.6(mL) Date Analyzed: 07/24/2019 21:57
 Con. Extract Vol.: 1.0(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	ND		0.11	0.078

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-7-W-190710 Lab Sample ID: 580-87636-1
 Matrix: Water Lab File ID: 087B3701.D
 Analysis Method: AK102 & 103 Date Collected: 07/10/2019 08:30
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 241.6(mL) Date Analyzed: 07/25/2019 06:03
 Con. Extract Vol.: 1.0(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.34		0.11	0.078

CAS NO.	SURROGATE	%REC	Q	LIMITS
93952-07-9	n-Triacontane-d62	88		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-7-W-190710 RA Lab Sample ID: 580-87636-1 RA
 Matrix: Water Lab File ID: 011F1101.D
 Analysis Method: AK102 & 103 Date Collected: 07/10/2019 08:30
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 241.6(mL) Date Analyzed: 07/25/2019 19:40
 Con. Extract Vol.: 1.0(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306643 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00383	RRO (nC25-nC36)	0.37		0.26	0.068

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-8-W-190710 Lab Sample ID: 580-87636-2
 Matrix: Water Lab File ID: 066B1601.D
 Analysis Method: AK102/103 Date Collected: 07/10/2019 09:20
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 245.5 (mL) Date Analyzed: 07/24/2019 22:20
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	ND		0.11	0.076

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	95		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-8-W-190710 Lab Sample ID: 580-87636-2
 Matrix: Water Lab File ID: 088B3801.D
 Analysis Method: AK102 & 103 Date Collected: 07/10/2019 09:20
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 245.5 (mL) Date Analyzed: 07/25/2019 06:25
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.58		0.11	0.076

CAS NO.	SURROGATE	%REC	Q	LIMITS
93952-07-9	n-Triacontane-d62	95		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-8-W-190710 RA Lab Sample ID: 580-87636-2 RA
 Matrix: Water Lab File ID: 012F1201.D
 Analysis Method: AK102 & 103 Date Collected: 07/10/2019 09:20
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 245.5 (mL) Date Analyzed: 07/25/2019 20:02
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306643 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00383	RRO (nC25-nC36)	0.69		0.25	0.067

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: EQB-1-W-190710 Lab Sample ID: 580-87636-3
 Matrix: Water Lab File ID: 067B1701.D
 Analysis Method: AK102/103 Date Collected: 07/10/2019 10:00
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 243.1 (mL) Date Analyzed: 07/24/2019 22:42
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	ND		0.11	0.077

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: EQB-1-W-190710 Lab Sample ID: 580-87636-3
 Matrix: Water Lab File ID: 089B3901.D
 Analysis Method: AK102 & 103 Date Collected: 07/10/2019 10:00
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 243.1 (mL) Date Analyzed: 07/25/2019 06:47
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	ND		0.11	0.077

CAS NO.	SURROGATE	%REC	Q	LIMITS
93952-07-9	n-Triacontane-d62	102		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: EQB-1-W-190710 RA Lab Sample ID: 580-87636-3 RA
 Matrix: Water Lab File ID: 013F1301.D
 Analysis Method: AK102 & 103 Date Collected: 07/10/2019 10:00
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 243.1(mL) Date Analyzed: 07/25/2019 20:25
 Con. Extract Vol.: 1.0(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306643 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00383	RRO (nC25-nC36)	ND		0.26	0.068

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-3-W-190710 Lab Sample ID: 580-87636-4
 Matrix: Water Lab File ID: 068B1801.D
 Analysis Method: AK102/103 Date Collected: 07/10/2019 10:20
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 245.5 (mL) Date Analyzed: 07/24/2019 23:05
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.85		0.11	0.076

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-3-W-190710 Lab Sample ID: 580-87636-4
 Matrix: Water Lab File ID: 090B4001.D
 Analysis Method: AK102 & 103 Date Collected: 07/10/2019 10:20
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 245.5 (mL) Date Analyzed: 07/25/2019 07:09
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	2.4		0.11	0.076

CAS NO.	SURROGATE	%REC	Q	LIMITS
93952-07-9	n-Triacontane-d62	90		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-3-W-190710 RA Lab Sample ID: 580-87636-4 RA
 Matrix: Water Lab File ID: 015F1501.D
 Analysis Method: AK102 & 103 Date Collected: 07/10/2019 10:20
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 245.5 (mL) Date Analyzed: 07/25/2019 21:10
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306643 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00383	RRO (nC25-nC36)	0.77		0.25	0.067

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G1-R-W-190710 Lab Sample ID: 580-87636-5
 Matrix: Water Lab File ID: 069B1901.D
 Analysis Method: AK102/103 Date Collected: 07/10/2019 11:00
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 240.4 (mL) Date Analyzed: 07/24/2019 23:27
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	ND		0.11	0.078

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	102		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G1-R-W-190710 Lab Sample ID: 580-87636-5
 Matrix: Water Lab File ID: 091B4101.D
 Analysis Method: AK102 & 103 Date Collected: 07/10/2019 11:00
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 240.4 (mL) Date Analyzed: 07/25/2019 07:31
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.35		0.11	0.078

CAS NO.	SURROGATE	%REC	Q	LIMITS
93952-07-9	n-Triacontane-d62	94		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G1-R-W-190710 RA Lab Sample ID: 580-87636-5 RA
 Matrix: Water Lab File ID: 016F1601.D
 Analysis Method: AK102 & 103 Date Collected: 07/10/2019 11:00
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 240.4 (mL) Date Analyzed: 07/25/2019 21:32
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306643 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00383	RRO (nC25-nC36)	0.43		0.26	0.069

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-4-W-190710 Lab Sample ID: 580-87636-6
 Matrix: Water Lab File ID: 070B2001.D
 Analysis Method: AK102/103 Date Collected: 07/10/2019 12:20
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 238.7(mL) Date Analyzed: 07/24/2019 23:49
 Con. Extract Vol.: 1.0(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	0.51		0.12	0.079

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	104		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-4-W-190710 Lab Sample ID: 580-87636-6
 Matrix: Water Lab File ID: 092B4201.D
 Analysis Method: AK102 & 103 Date Collected: 07/10/2019 12:20
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 238.7(mL) Date Analyzed: 07/25/2019 07:53
 Con. Extract Vol.: 1.0(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	1.0		0.12	0.079

CAS NO.	SURROGATE	%REC	Q	LIMITS
93952-07-9	n-Triacontane-d62	97		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-4-W-190710 RA Lab Sample ID: 580-87636-6 RA
 Matrix: Water Lab File ID: 017F1701.D
 Analysis Method: AK102 & 103 Date Collected: 07/10/2019 12:20
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 238.7(mL) Date Analyzed: 07/25/2019 21:54
 Con. Extract Vol.: 1.0(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306643 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00383	RRO (nC25-nC36)	0.51		0.26	0.069

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-5-W-190710 Lab Sample ID: 580-87636-7
 Matrix: Water Lab File ID: 071B2101.D
 Analysis Method: AK102/103 Date Collected: 07/10/2019 13:45
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 248.7(mL) Date Analyzed: 07/25/2019 00:12
 Con. Extract Vol.: 1.0(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	3.0		0.11	0.075

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-5-W-190710 Lab Sample ID: 580-87636-7
 Matrix: Water Lab File ID: 093B4301.D
 Analysis Method: AK102 & 103 Date Collected: 07/10/2019 13:45
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 248.7(mL) Date Analyzed: 07/25/2019 08:15
 Con. Extract Vol.: 1.0(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	3.5		0.11	0.075

CAS NO.	SURROGATE	%REC	Q	LIMITS
93952-07-9	n-Triacontane-d62	96		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: G-5-W-190710 RA Lab Sample ID: 580-87636-7 RA
 Matrix: Water Lab File ID: 018F1801.D
 Analysis Method: AK102 & 103 Date Collected: 07/10/2019 13:45
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 248.7(mL) Date Analyzed: 07/25/2019 22:16
 Con. Extract Vol.: 1.0(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306643 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00383	RRO (nC25-nC36)	0.30		0.25	0.066

TestAmerica Seattle

Data File: \\chromna\Seattle\ChromData\SEA012\20190311-64170.b\002F0201.D

Injection Date: 11-Mar-2019 18:38:16

Instrument ID: SEA012

Lims ID: RTC

Client ID:

Operator ID: SYSTEM

ALS Bottle#: 2

Worklist Smp#: 2

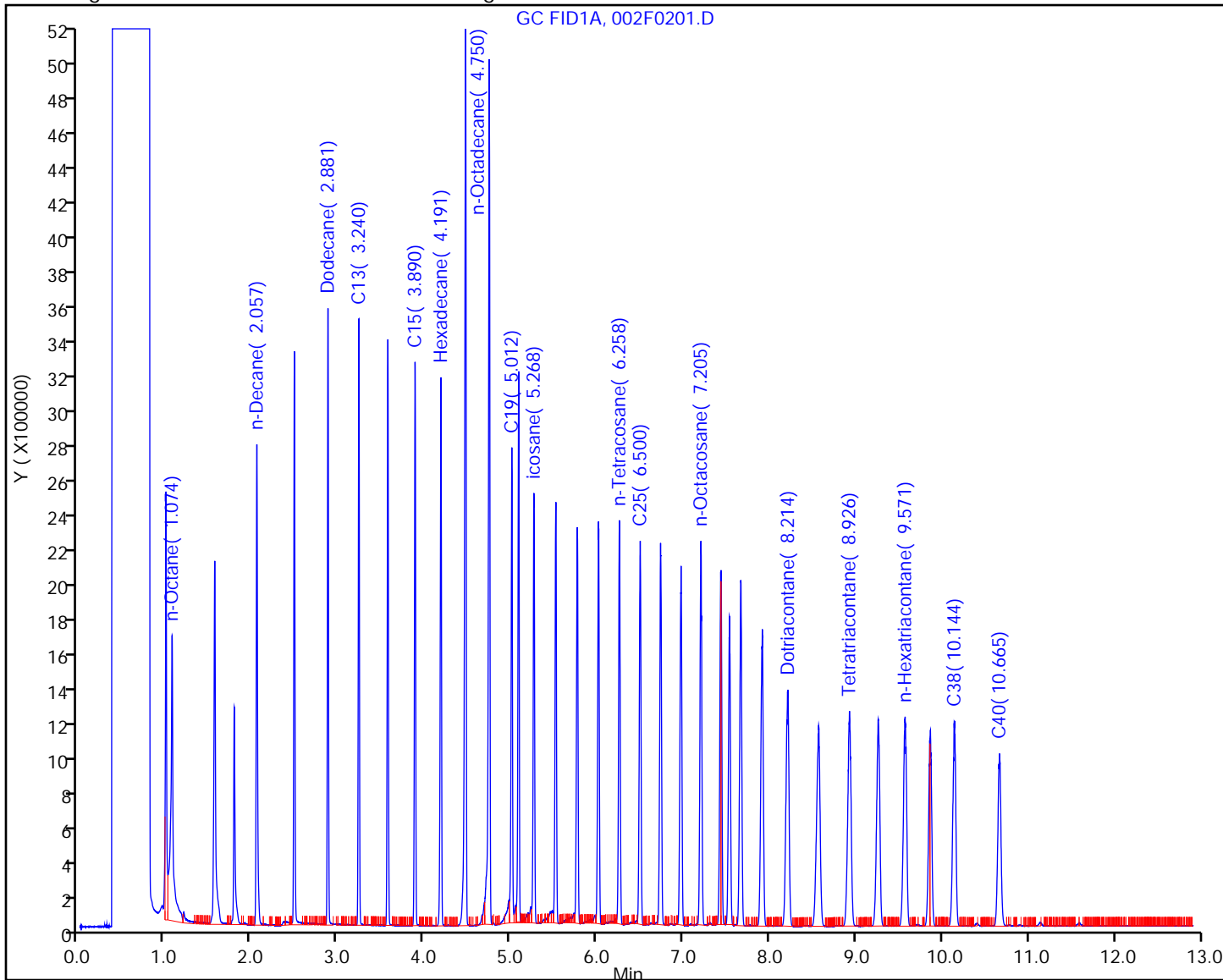
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-Front_SEA012

Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA012\20190707-66174.b\102B0201.D

Injection Date: 07-Jul-2019 14:09:04

Instrument ID: SEA012

Lims ID: RTC

Client ID:

Operator ID: SYSTEM

ALS Bottle#: 102

Worklist Smp#: 2

Injection Vol: 1.0 ul

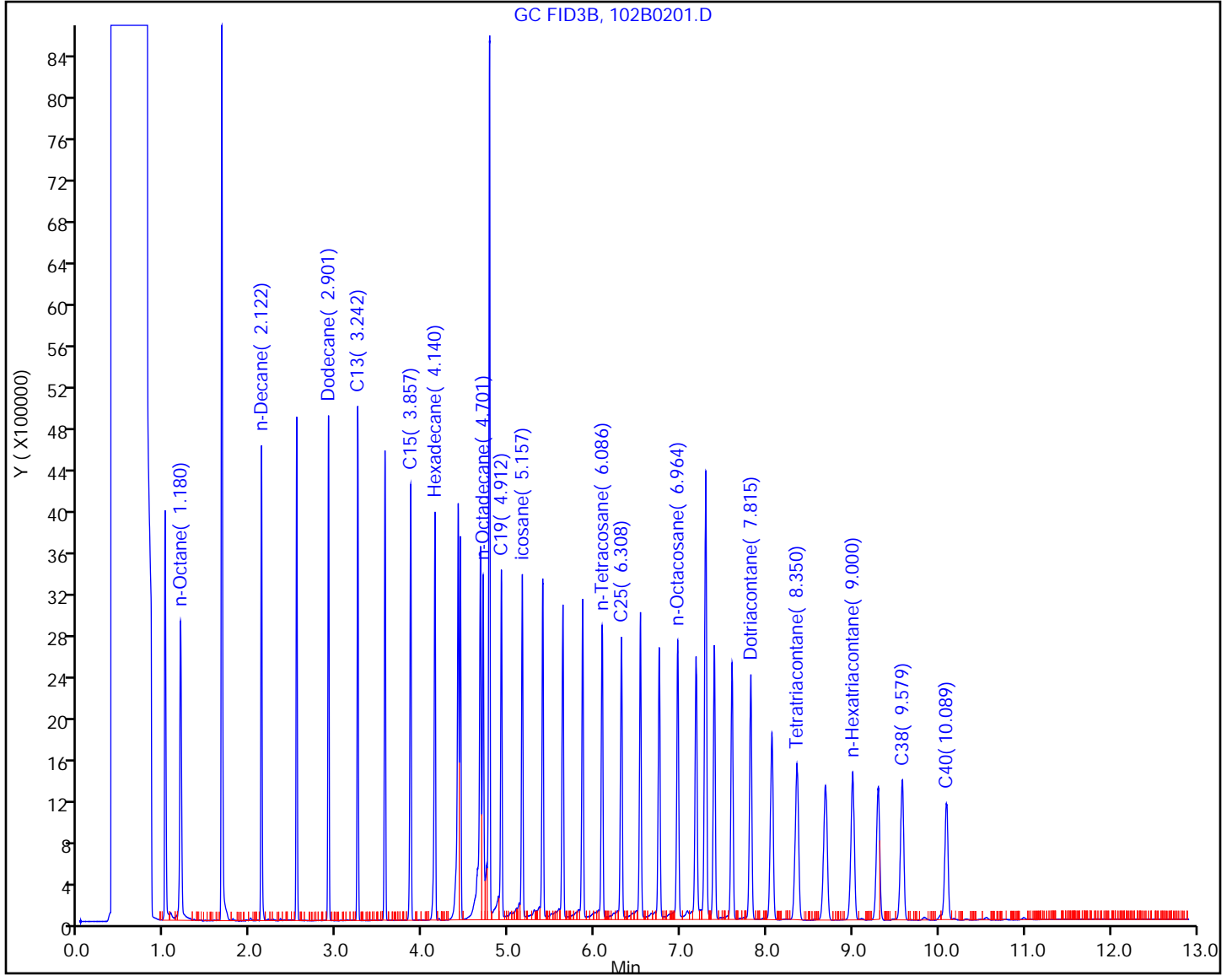
Dil. Factor: 1.0000

Method: TPH-Rear_SEA012

Limit Group: Ak 102 DRO AK103 RRO

Column: ZB-1 High Temp. Inferno (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VI
 DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
 RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 296035

SDG No.: _____

Instrument ID: SEA012 GC Column: ZB-1HT ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2019 18:59 Calibration End Date: 03/11/2019 22:15 Calibration ID: 27513

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-296035/12	012F1201.D
Level 2	IC 580-296035/11	011F1101.D
Level 3	IC 580-296035/10	010F1001.D
Level 4	IC 580-296035/9	009F0901.D
Level 5	IC 580-296035/8	008F0801.D
Level 6	ICRT 580-296035/7	007F0701.D
Level 7	IC 580-296035/6	006F0601.D
Level 8	IC 580-296035/5	005F0501.D
Level 9	IC 580-296035/4	004F0401.D
Level 10	IC 580-296035/3	003F0301.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	RT WINDOW	AVG RT
DRO (nC10-<nC25)	4.257	4.257	4.257	4.257	4.257	4.257	4.257	4.257	4.257	4.257	1.993 - 6.435	4.257
RRO (nC25-nC36)	8.112	8.112	8.112	8.112	8.112	8.112	8.112	8.112	8.112	8.112	6.435 - 9.656	8.112
o-Terphenyl	5.080	5.081	5.079	5.082	5.083	5.086	5.091	5.098	5.121	+++++	5.056 - 5.116	5.089
n-Triacontane-d62	7.478	7.472	7.481	7.495	7.501	7.494	7.510	7.514	7.568	7.596	7.444 - 7.544	7.511

FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 296035

SDG No.: _____

Instrument ID: SEA012 GC Column: ZB-1HT ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2019 18:59 Calibration End Date: 03/11/2019 22:15 Calibration ID: 27513

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-296035/12	012F1201.D
Level 2	IC 580-296035/11	011F1101.D
Level 3	IC 580-296035/10	010F1001.D
Level 4	IC 580-296035/9	009F0901.D
Level 5	IC 580-296035/8	008F0801.D
Level 6	ICRT 580-296035/7	007F0701.D
Level 7	IC 580-296035/6	006F0601.D
Level 8	IC 580-296035/5	005F0501.D
Level 9	IC 580-296035/4	004F0401.D
Level 10	IC 580-296035/3	003F0301.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 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
DRO (nC10-<nC25)	355238 173916 170994	213423 147963 146949	191787 147826	163965 163703	Lin1	1729471.42	154923.929			10.9			0.9950			0.9900
RRO (nC25-nC36)	189127 93830 86937	118446 78256 70995	100603 78123	91940 85162	Lin2	1033361.12	79831.9820			9.5			0.9900			0.9900
o-Terphenyl	184664 179373 160913	163195 147874 ++++	158583 144211	158506 156394	Ave		161523.635			8.2		25.0				
n-Triacontane-d62	143581 140680 136999	125955 122188 120998	119961 120743	119818 135681	Ave		128660.432			7.4		25.0				

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, Seattle Job No.: 580-87636-1 Analy Batch No.: 296035

SDG No.: _____

Instrument ID: SEA012 GC Column: ZB-1HT ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2019 18:59 Calibration End Date: 03/11/2019 22:15 Calibration ID: 27513

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-296035/12	012F1201.D
Level 2	IC 580-296035/11	011F1101.D
Level 3	IC 580-296035/10	010F1001.D
Level 4	IC 580-296035/9	009F0901.D
Level 5	IC 580-296035/8	008F0801.D
Level 6	ICRT 580-296035/7	007F0701.D
Level 7	IC 580-296035/6	006F0601.D
Level 8	IC 580-296035/5	005F0501.D
Level 9	IC 580-296035/4	004F0401.D
Level 10	IC 580-296035/3	003F0301.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		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
DRO (nC10-<nC25)	Lin1	3552384	4268468	9589346	16396524	34783133	10.0	20.0	50.0	100	200
		73981305	147825508	327406754	854968658	1469486409	500	1000	2000	5000	10000
RRO (nC25-nC36)	Lin2	1891267	2368920	5030153	9194023	18765902	10.0	20.0	50.0	100	200
		39127903	78122999	170324143	434684945	709950341	500	1000	2000	5000	10000
o-Terphenyl	Ave	73570	130034	315897	631486	1429245	0.398	0.797	1.99	3.98	7.97
		2945652	5745367	12461507	32053826	+++++	19.9	39.8	79.7	199	+++++
n-Triacontane-d62	Ave	57662	101167	240881	481191	1129945	0.402	0.803	2.01	4.02	8.03
		2453542	4849024	10897911	27509342	48592926	20.1	40.2	80.3	201	402

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2

FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304917

SDG No.: _____

Instrument ID: SEA012 GC Column: ZB-1HT ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2019 14:31 Calibration End Date: 07/07/2019 17:53 Calibration ID: 27998

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-304917/12	112B1201.D
Level 2	IC 580-304917/11	111B1101.D
Level 3	IC 580-304917/10	110B1001.D
Level 4	IC 580-304917/9	109B0901.D
Level 5	IC 580-304917/8	108B0801.D
Level 6	ICRT 580-304917/7	107B0701.D
Level 7	IC 580-304917/6	106B0601.D
Level 8	IC 580-304917/5	105B0501.D
Level 9	IC 580-304917/4	104B0401.D
Level 10	IC 580-304917/3	103B0301.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	RT WINDOW	AVG RT
DRO (nC10-<nC25)	4.154	4.154	4.154	4.154	4.154	4.154	4.154	4.154	4.154	4.154	2.065 - 6.243	4.154
RRO (nC25-nC36)	7.671	7.671	7.671	7.671	7.671	7.671	7.671	7.671	7.671	7.671	6.243 - 9.100	7.671
o-Terphenyl	4.764	4.763	4.765	4.764	4.765	4.768	4.771	4.778	+++++	+++++	4.779 - 4.839	4.767
n-Triacontane-d62	7.256	7.250	7.241	7.244	7.247	7.243	7.241	7.261	7.309	7.359	7.309 - 7.409	7.265

FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1 Analy Batch No.: 304917

SDG No.: _____

Instrument ID: SEA012 GC Column: ZB-1HT ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2019 14:31 Calibration End Date: 07/07/2019 17:53 Calibration ID: 27998

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-304917/12	112B1201.D
Level 2	IC 580-304917/11	111B1101.D
Level 3	IC 580-304917/10	110B1001.D
Level 4	IC 580-304917/9	109B0901.D
Level 5	IC 580-304917/8	108B0801.D
Level 6	ICRT 580-304917/7	107B0701.D
Level 7	IC 580-304917/6	106B0601.D
Level 8	IC 580-304917/5	105B0501.D
Level 9	IC 580-304917/4	104B0401.D
Level 10	IC 580-304917/3	103B0301.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4		B	M1	M2								
	LVL 5	LVL 6	LVL 7	LVL 8												
DRO (nC10-<nC25)	392588 194381 209576	236352 213280 205207	240339 210625	217841 206009	Lin2	1776604.15	201031.861			7.7			0.9940			0.9900
RRO (nC25-nC36)	276969 100621 104998	151090 109741 98824	137746 105741	117564 102099	Lin2	1704329.59	100236.365			7.6			0.9940			0.9900
o-Terphenyl	273434 201792 ++++	211108 213535 ++++	262558 206183	255894 186873	Ave		226422.107			14.3		25.0				
n-Triacontane-d62	176379 142716 150318	126773 146187 149226	164064 153298	160390 146313	Ave		151566.371			8.8		25.0				

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, Seattle Job No.: 580-87636-1 Analy Batch No.: 304917

SDG No.: _____

Instrument ID: SEA012 GC Column: ZB-1HT ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2019 14:31 Calibration End Date: 07/07/2019 17:53 Calibration ID: 27998

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-304917/12	112B1201.D
Level 2	IC 580-304917/11	111B1101.D
Level 3	IC 580-304917/10	110B1001.D
Level 4	IC 580-304917/9	109B0901.D
Level 5	IC 580-304917/8	108B0801.D
Level 6	ICRT 580-304917/7	107B0701.D
Level 7	IC 580-304917/6	106B0601.D
Level 8	IC 580-304917/5	105B0501.D
Level 9	IC 580-304917/4	104B0401.D
Level 10	IC 580-304917/3	103B0301.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		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
DRO (nC10-<nC25)	Lin2	3925878	5908806	12016970	21784093	48595330	10.0	25.0	50.0	100	250
		106639873	210624562	412018296	1047881646	2052073566	500	1000	2000	5000	10000
RRO (nC25-nC36)	Lin2	2769692	3777239	6887324	11756447	25155359	10.0	25.0	50.0	100	250
		54870335	105740566	204198019	524992163	988236234	500	1000	2000	5000	10000
o-Terphenyl	Ave	54468	105132	261508	509741	1004924	0.199	0.498	0.996	1.99	4.98
		2126805	4107157	7445028	+++++	+++++	9.96	19.9	39.8	+++++	+++++
n-Triacontane-d62	Ave	35417	63640	164720	322063	716435	0.201	0.502	1.00	2.01	5.02
		1467716	3078223	5875937	15091900	29964537	10.0	20.1	40.2	100	201

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Seattle
Area/Height Percent Report

Data File: \\chromna\Seattle\ChromData\SEA012\20190724-66505.b\052B0201.D
 Lims ID: RTC
 Client ID:
 Sample Type: RTC
 Inject. Date: 24-Jul-2019 17:09:04 ALS Bottle#: 52 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 580-0066505-002
 Operator ID: SYSTEM Instrument ID: SEA012
 Method: \\chromna\Seattle\ChromData\SEA012\20190724-66505.b\TPH-Rear_SEA012.m
 Limit Group: Ak 102 DRO AK103 RRO
 Last Update: 25-Jul-2019 13:38:23 Calib Date: 07-Jul-2019 17:53:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Seattle\ChromData\SEA012\20190707-66174.b\112B1201.D
 Process Host: CTX0334
 First Level Reviewer: mohammedjc Date: 25-Jul-2019 12:56:23

Detector: GC FID1A
 Number of peaks found: 380

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
0.944	0.941	0.968	5911	0.00	1.25		
1.003	0.968	1.055	4125173	2.53	1.15		
1.070	1.055	1.112	117652	0.07	2.05		
1.182	1.112	1.321	4238112	2.60	1.64		
1.333	1.322	1.367	2872	0.00	1.08		
1.393	1.384	1.404	744	0.00	0.59		
1.407	1.404	1.410	60	0.00	0.17		
1.415	1.410	1.437	795	0.00	1.01		
1.462	1.444	1.485	1652	0.00	1.26		
1.489	1.485	1.491	177	0.00	0.25		
1.505	1.491	1.519	2097	0.00	1.14		
1.535	1.519	1.541	1882	0.00	0.95		
1.549	1.541	1.558	1953	0.00	0.86		
1.577	1.558	1.592	7037	0.00	1.39		
1.607	1.592	1.630	7951	0.00	1.62		
1.658	1.630	1.769	8740454	5.37	1.07		
1.788	1.769	1.820	22800	0.01	1.27		
1.829	1.820	1.842	846	0.00	0.84		
1.851	1.842	1.869	491	0.00	0.79		
1.875	1.871	1.879	130	0.00	0.25		
1.893	1.879	1.895	553	0.00	0.56		
1.903	1.895	1.904	355	0.00	0.42		
1.916	1.904	1.923	1130	0.00	0.83		

Detector: GC FID1A

Number of peaks found: 380

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
1.948	1.923	1.963	5047	0.00	1.21		
1.994	1.963	2.035	25671	0.02	1.09		
2.042	2.035	2.042	136	0.00	0.20		
2.066	2.056	2.066	167	0.00	0.33		
2.074	2.066	2.091	2383	0.00	0.69		
2.118	2.091	2.166	4191623	2.57	0.93		
2.176	2.166	2.178	209	0.00	0.37		
2.192	2.188	2.210	520	0.00	0.72		
2.217	2.212	2.222	122	0.00	0.37		
2.232	2.222	2.251	882	0.00	1.13		
2.260	2.258	2.266	99	0.00	0.19		
2.280	2.266	2.297	684	0.00	0.96		
2.307	2.297	2.310	168	0.00	0.35		
2.337	2.310	2.357	7919	0.00	0.93		
2.365	2.357	2.366	227	0.00	0.31		
2.372	2.366	2.377	479	0.00	0.47		
2.390	2.377	2.403	2033	0.00	1.03		
2.412	2.403	2.427	1276	0.00	0.81		
2.458	2.427	2.465	3776	0.00	1.45		
2.482	2.465	2.500	6112	0.00	1.24		
2.527	2.500	2.585	4236332	2.60	0.90		
2.599	2.585	2.617	1801	0.00	1.15		
2.635	2.617	2.643	704	0.00	0.84		
2.665	2.659	2.678	276	0.00	0.62		
2.695	2.685	2.703	304	0.00	0.56		
2.722	2.709	2.724	199	0.00	0.49		
2.739	2.726	2.742	196	0.00	0.57		
2.769	2.754	2.783	1638	0.00	0.97		
2.796	2.783	2.804	1521	0.00	0.88		
2.814	2.804	2.822	1239	0.00	0.88		
2.830	2.822	2.831	623	0.00	0.44		
2.855	2.831	2.867	4799	0.00	1.28		
2.897	2.867	2.942	4260303	2.62	0.88		
2.943	2.942	2.963	1277	0.00	0.84		
2.969	2.963	2.981	413	0.00	0.67		
2.988	2.981	2.991	157	0.00	0.29		

Detector: GC FID1A

Number of peaks found: 380

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
2.997	2.991	3.019	459	0.00	1.07		
3.042	3.019	3.058	3047	0.00	1.00		
3.068	3.063	3.070	100	0.00	0.26		
3.086	3.070	3.098	1012	0.00	0.99		
3.119	3.098	3.159	13512	0.01	1.60		
3.174	3.159	3.183	2968	0.00	1.02		
3.197	3.183	3.207	3104	0.00	0.87		
3.237	3.207	3.279	4255709	2.61	0.91		
3.285	3.279	3.287	274	0.00	0.31		
3.293	3.287	3.307	624	0.00	0.63		
3.316	3.314	3.320	64	0.00	0.17		
3.334	3.326	3.342	248	0.00	0.39		
3.347	3.342	3.352	108	0.00	0.28		
3.360	3.352	3.362	192	0.00	0.36		
3.376	3.373	3.377	21	0.00	0.08		
3.395	3.378	3.413	925	0.00	1.19		
3.428	3.413	3.450	2446	0.00	1.47		
3.463	3.462	3.467	66	0.00	0.15		
3.489	3.467	3.504	3930	0.00	1.06		
3.519	3.504	3.521	2344	0.00	0.64		
3.553	3.521	3.605	4295170	2.64	1.00		
3.613	3.605	3.613	175	0.00	0.20		
3.636	3.629	3.640	184	0.00	0.34		
3.646	3.640	3.648	133	0.00	0.27		
3.654	3.648	3.658	162	0.00	0.33		
3.673	3.662	3.684	463	0.00	0.69		
3.694	3.687	3.695	117	0.00	0.30		
3.743	3.695	3.770	4894	0.00	1.69		
3.784	3.770	3.802	2441	0.00	0.94		
3.852	3.802	3.905	4283485	2.63	1.02		
3.915	3.914	3.916	29	0.00	0.06		
3.919	3.916	3.937	573	0.00	0.94		
3.957	3.937	3.973	3036	0.00	1.02		
3.979	3.973	3.981	74	0.00	0.30		
4.002	3.981	4.023	1888	0.00	1.08		
4.054	4.025	4.059	1287	0.00	1.22		

Detector: GC FID1A

Number of peaks found: 380

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
4.136	4.059	4.168	4300382	2.64	1.13		
4.181	4.168	4.220	2240	0.00	1.40		
4.234	4.220	4.236	297	0.00	0.56		
4.243	4.239	4.246	79	0.00	0.26		
4.257	4.255	4.257	34	0.00	0.00		
4.277	4.257	4.279	597	0.00	1.20		
4.404	4.285	4.417	5073849	3.12	1.37		
4.429	4.417	4.461	3532960	2.17	1.01		
4.661	4.461	4.678	5642809	3.46	1.74		
4.695	4.678	4.718	3768375	2.31	1.28		
4.732	4.718	4.736	424776	0.26	1.00		
4.769	4.736	4.795	8505845	5.22	1.10		\$ 15 o-Terphenyl
4.815	4.795	4.818	110579	0.07	1.29		
4.851	4.818	4.851	206285	0.13	1.58		
4.868	4.851	4.874	222255	0.14	1.17		
4.909	4.874	4.945	3752850	2.30	1.18		
4.954	4.945	4.959	15104	0.01	0.80		
4.964	4.959	4.965	7872	0.00	0.38		
4.984	4.965	4.985	27277	0.02	1.10		
5.029	4.985	5.034	104614	0.06	2.27		
5.060	5.034	5.062	88604	0.05	1.43		
5.089	5.062	5.095	161232	0.10	1.60		
5.104	5.095	5.104	54191	0.03	0.52		
5.113	5.104	5.115	75757	0.05	0.59		
5.153	5.115	5.185	3664653	2.25	1.20		
5.204	5.185	5.207	17447	0.01	1.11		
5.224	5.207	5.224	16243	0.01	1.00		
5.257	5.224	5.262	52390	0.03	1.79		
5.294	5.262	5.305	129165	0.08	1.82		
5.314	5.305	5.318	45783	0.03	0.70		
5.328	5.318	5.331	52963	0.03	0.75		
5.350	5.331	5.361	158434	0.10	1.56		
5.391	5.361	5.425	3633499	2.23	1.20		
5.437	5.425	5.440	5921	0.00	0.78		
5.464	5.440	5.471	17256	0.01	1.44		
5.484	5.471	5.484	10711	0.01	0.70		

Detector: GC FID1A

Number of peaks found: 380

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
5.522	5.484	5.525	65428	0.04	1.56		
5.535	5.525	5.537	32093	0.02	0.72		
5.550	5.537	5.563	78742	0.05	1.40		
5.579	5.563	5.581	73842	0.05	0.98		
5.587	5.581	5.594	56659	0.03	0.71		
5.625	5.594	5.657	3630842	2.23	1.28		
5.669	5.660	5.671	346	0.00	0.41		
5.695	5.682	5.699	1623	0.00	0.65		
5.712	5.704	5.714	485	0.00	0.29		
5.719	5.715	5.721	356	0.00	0.27		
5.743	5.724	5.746	1199	0.00	0.42		
5.777	5.756	5.779	2690	0.00	0.88		
5.787	5.779	5.794	2099	0.00	0.47		
5.805	5.796	5.806	3286	0.00	0.37		
5.814	5.806	5.822	4788	0.00	0.54		
5.858	5.822	5.891	3547612	2.18	1.28		
5.903	5.897	5.904	229	0.00	0.37		
5.925	5.904	5.942	4935	0.00	0.95		
5.951	5.945	5.952	317	0.00	0.21		
5.970	5.955	5.981	5070	0.00	0.76		
6.006	5.981	6.015	15192	0.01	1.05		
6.042	6.017	6.051	12871	0.01	0.76		
6.084	6.051	6.117	3573760	2.19	1.27		
6.155	6.147	6.155	1107	0.00	0.00		
6.159	6.155	6.162	141	0.00	0.18		
6.179	6.165	6.185	1372	0.00	0.43		
6.198	6.187	6.200	947	0.00	0.52		
6.227	6.200	6.243	20228	0.01	1.32		
6.262	6.243	6.274	17250	0.01	0.86		
6.310	6.274	6.347	3585015	2.20	1.37		
6.388	6.367	6.390	1452	0.00	1.09		
6.403	6.395	6.405	505	0.00	0.33		
6.445	6.432	6.445	8961	0.01	0.00		
6.453	6.445	6.461	1634	0.00	0.56		
6.480	6.461	6.497	19014	0.01	1.26		
6.534	6.497	6.569	3635900	2.23	1.51		

Detector: GC FID1A

Number of peaks found: 380

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
6.575	6.571	6.583	364	0.00	0.27		
6.601	6.584	6.604	1467	0.00	0.67		
6.611	6.604	6.619	600	0.00	0.41		
6.655	6.620	6.666	10098	0.01	1.13		
6.670	6.666	6.670	285	0.00	0.11		
6.702	6.683	6.711	8610	0.01	0.81		
6.753	6.711	6.791	3612160	2.22	1.40		
6.798	6.794	6.806	521	0.00	0.30		
6.840	6.816	6.842	2135	0.00	1.10		
6.881	6.846	6.887	7918	0.00	1.92		
6.893	6.888	6.895	524	0.00	0.26		
6.917	6.895	6.929	8843	0.01	0.97		
6.969	6.929	7.009	3814064	2.34	1.49		
7.025	7.012	7.030	1304	0.00	0.41		
7.076	7.031	7.100	53522	0.03	1.47		
7.127	7.100	7.138	17459	0.01	1.05		
7.186	7.138	7.202	3762999	2.31	1.68		
7.233	7.223	7.250	60424	0.04	1.37		
7.298	7.250	7.353	6897801	4.24	1.71		\$ 30 n-Triacontane-d62
7.400	7.356	7.439	3898767	2.39	1.54		
7.473	7.439	7.489	19455	0.01	1.82		
7.502	7.489	7.505	9123	0.01	0.77		
7.512	7.505	7.514	6124	0.00	0.52		
7.541	7.514	7.559	49744	0.03	2.28		
7.605	7.559	7.650	4060122	2.49	1.68		
7.667	7.657	7.670	689	0.00	0.53		
7.702	7.670	7.713	13916	0.01	1.59		
7.727	7.713	7.728	8951	0.01	0.83		
7.761	7.728	7.772	37416	0.02	2.13		
7.825	7.772	7.877	4074768	2.50	1.87		
7.886	7.877	7.891	496	0.00	0.53		
7.903	7.891	7.923	2273	0.00	1.55		
7.956	7.923	7.960	8168	0.01	1.22		
7.991	7.960	8.006	24815	0.02	2.25		
8.066	8.006	8.152	4055051	2.49	2.28		
8.162	8.154	8.163	134	0.00	0.24		

Detector: GC FID1A

Number of peaks found: 380

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
8.210	8.163	8.215	7505	0.00	1.63		
8.223	8.215	8.228	3649	0.00	0.73		
8.233	8.228	8.240	3715	0.00	0.70		
8.251	8.240	8.252	3648	0.00	0.63		
8.259	8.252	8.265	4448	0.00	0.74		
8.358	8.265	8.438	4212946	2.59	2.89		
8.446	8.445	8.452	103	0.00	0.24		
8.476	8.470	8.478	82	0.00	0.22		
8.485	8.478	8.487	194	0.00	0.31		
8.506	8.487	8.510	668	0.00	0.68		
8.520	8.510	8.521	601	0.00	0.42		
8.530	8.521	8.533	1052	0.00	0.61		
8.549	8.533	8.549	1764	0.00	0.79		
8.562	8.549	8.563	2115	0.00	0.74		
8.575	8.563	8.583	3628	0.00	1.04		
8.586	8.583	8.592	1975	0.00	0.52		
8.684	8.592	8.785	4023239	2.47	3.02		
8.788	8.785	8.803	330	0.00	0.58		
8.807	8.803	8.812	149	0.00	0.25		
8.830	8.812	8.831	316	0.00	0.59		
8.866	8.833	8.869	777	0.00	1.15		
8.885	8.872	8.888	268	0.00	0.53		
8.905	8.899	8.910	244	0.00	0.39		
8.999	8.910	9.066	4117461	2.53	2.69		
9.100	9.066	9.153	21655	0.01	2.45		
9.165	9.153	9.170	233	0.00	0.44		
9.172	9.170	9.179	164	0.00	0.31		
9.186	9.179	9.188	226	0.00	0.35		
9.196	9.188	9.198	183	0.00	0.37		
9.204	9.198	9.210	225	0.00	0.37		
9.294	9.220	9.294	1796290	1.10	1.47		
9.299	9.294	9.359	1793081	1.10	1.38		
9.400	9.391	9.400	171	0.00	0.27		
9.417	9.410	9.423	172	0.00	0.25		
9.486	9.428	9.497	5403	0.00	2.21		

Detector: GC FID1A

Number of peaks found: 380

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
9.571	9.500	9.594	3444828	2.12	2.34		
9.654	9.651	9.667	215	0.00	0.50		
9.674	9.667	9.686	363	0.00	0.60		
9.694	9.688	9.694	79	0.00	0.19		
9.704	9.702	9.704	6	0.00	0.02		
9.715	9.707	9.722	246	0.00	0.50		
9.735	9.722	9.742	356	0.00	0.54		
9.743	9.742	9.746	75	0.00	0.16		
9.753	9.746	9.767	377	0.00	0.66		
9.831	9.767	9.910	65617	0.04	2.75		
9.921	9.910	9.921	170	0.00	0.31		
9.944	9.939	9.951	104	0.00	0.30		
10.089	9.951	10.149	3325976	2.04	2.77		
10.156	10.149	10.159	7284	0.00	0.57		
10.165	10.159	10.240	29662	0.02	2.24		
10.250	10.240	10.269	414	0.00	0.92		
10.274	10.274	10.280	118	0.00	0.22		
10.328	10.280	10.348	6953	0.00	2.28		
10.373	10.372	10.385	167	0.00	0.31		
10.397	10.392	10.417	397	0.00	0.94		
10.479	10.417	10.516	16788	0.01	2.84		
10.563	10.516	10.641	46061	0.03	3.37		
10.652	10.641	10.658	275	0.00	0.60		
10.663	10.658	10.671	271	0.00	0.41		
10.685	10.679	10.688	156	0.00	0.27		
10.693	10.688	10.700	174	0.00	0.42		
10.704	10.700	10.708	121	0.00	0.25		
10.723	10.714	10.725	161	0.00	0.63		
10.769	10.726	10.789	4796	0.00	2.04		
10.823	10.819	10.834	243	0.00	0.44		
10.835	10.834	10.840	72	0.00	0.14		
10.843	10.840	10.856	203	0.00	0.44		
10.860	10.856	10.864	126	0.00	0.27		
10.883	10.868	10.886	256	0.00	0.61		
10.893	10.886	10.902	190	0.00	0.46		
10.905	10.902	10.914	173	0.00	0.29		

Detector: GC FID1A

Number of peaks found: 380

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
10.921	10.914	10.922	128	0.00	0.29		
10.932	10.922	10.934	144	0.00	0.31		
10.950	10.940	10.955	220	0.00	0.56		
11.010	10.955	11.019	18389	0.01	2.00		
11.026	11.019	11.087	19215	0.01	2.16		
11.104	11.103	11.106	48	0.00	0.13		
11.123	11.116	11.138	307	0.00	0.68		
11.152	11.142	11.168	487	0.00	0.86		
11.174	11.168	11.176	102	0.00	0.22		
11.183	11.176	11.201	414	0.00	0.96		
11.202	11.201	11.205	70	0.00	0.11		
11.217	11.210	11.222	187	0.00	0.37		
11.231	11.222	11.239	265	0.00	0.77		
11.244	11.239	11.256	370	0.00	0.53		
11.294	11.259	11.310	1693	0.00	1.50		
11.316	11.310	11.328	433	0.00	0.57		
11.340	11.338	11.345	133	0.00	0.28		
11.357	11.345	11.365	359	0.00	0.53		
11.373	11.365	11.378	214	0.00	0.45		
11.394	11.378	11.399	326	0.00	0.62		
11.403	11.399	11.409	188	0.00	0.33		
11.424	11.409	11.426	237	0.00	0.65		
11.427	11.426	11.429	73	0.00	0.09		
11.437	11.429	11.441	191	0.00	0.34		
11.453	11.446	11.458	230	0.00	0.43		
11.469	11.458	11.470	186	0.00	0.42		
11.477	11.470	11.487	400	0.00	0.81		
11.494	11.487	11.495	181	0.00	0.33		
11.507	11.495	11.513	426	0.00	0.52		
11.518	11.513	11.521	256	0.00	0.34		
11.540	11.521	11.541	955	0.00	0.84		
11.553	11.541	11.558	1092	0.00	0.82		
11.574	11.558	11.586	1828	0.00	1.40		
11.593	11.586	11.604	1195	0.00	0.88		
11.610	11.604	11.616	912	0.00	0.66		
11.620	11.616	11.623	548	0.00	0.36		

Detector: GC FID1A

Number of peaks found: 380

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
11.637	11.623	11.638	1241	0.00	0.78		
11.643	11.638	11.652	1165	0.00	0.72		
11.668	11.663	11.683	1769	0.00	1.06		
11.687	11.683	11.694	917	0.00	0.57		
11.698	11.694	11.705	983	0.00	0.57		
11.713	11.705	11.720	1177	0.00	0.74		
11.734	11.720	11.751	2616	0.00	1.61		
11.760	11.751	11.763	1060	0.00	0.62		
11.775	11.763	11.789	2248	0.00	1.42		
11.796	11.789	11.805	1426	0.00	0.82		
11.810	11.805	11.812	676	0.00	0.36		
11.828	11.822	11.852	3019	0.00	1.57		
11.858	11.852	11.867	1443	0.00	0.82		
11.871	11.867	11.895	2577	0.00	1.37		
11.898	11.895	11.902	701	0.00	0.39		
11.912	11.910	11.923	1185	0.00	0.65		
11.924	11.923	11.927	394	0.00	0.20		
11.937	11.936	11.942	627	0.00	0.33		
11.944	11.942	11.958	1453	0.00	0.84		
11.969	11.958	11.989	2788	0.00	1.59		
12.001	11.989	12.018	2624	0.00	1.49		
12.021	12.018	12.044	2341	0.00	1.34		
12.050	12.044	12.056	1110	0.00	0.65		
12.067	12.056	12.075	1686	0.00	0.95		
12.079	12.075	12.089	1330	0.00	0.75		
12.094	12.089	12.102	1115	0.00	0.65		
12.109	12.102	12.116	1363	0.00	0.79		
12.121	12.116	12.136	1915	0.00	1.03		
12.139	12.136	12.160	2306	0.00	1.20		
12.171	12.160	12.187	2628	0.00	1.38		
12.196	12.187	12.214	2413	0.00	1.35		
12.217	12.214	12.219	478	0.00	0.29		
12.233	12.219	12.252	2907	0.00	1.86		
12.263	12.259	12.264	492	0.00	0.28		
12.272	12.264	12.277	1099	0.00	0.66		
12.288	12.277	12.290	1157	0.00	0.66		

Detector: GC FID1A

Number of peaks found: 380

RT	Start RT	End RT	Area	Area%	A/Ht Ratio	Flags	Compound Identification
12.296	12.290	12.309	1584	0.00	0.98		
12.319	12.309	12.339	2597	0.00	1.60		
12.349	12.339	12.366	2284	0.00	1.41		
12.374	12.366	12.375	773	0.00	0.47		
12.384	12.375	12.397	1913	0.00	1.20		
12.405	12.397	12.408	938	0.00	0.57		
12.412	12.408	12.416	712	0.00	0.41		
12.426	12.416	12.428	1083	0.00	0.63		
12.435	12.428	12.459	2641	0.00	1.54		
12.468	12.459	12.477	1557	0.00	0.94		
12.482	12.477	12.485	675	0.00	0.40		
12.499	12.491	12.518	2291	0.00	1.35		
12.522	12.518	12.524	548	0.00	0.33		
12.532	12.524	12.533	825	0.00	0.51		
12.544	12.533	12.566	2830	0.00	1.65		
12.573	12.566	12.588	1804	0.00	1.19		
12.591	12.588	12.607	1538	0.00	0.95		
12.612	12.607	12.625	1464	0.00	0.94		
12.629	12.625	12.645	1580	0.00	1.09		
12.649	12.645	12.659	1148	0.00	0.74		
12.665	12.659	12.680	1693	0.00	1.10		
12.687	12.680	12.693	955	0.00	0.59		
12.694	12.693	12.711	1428	0.00	0.91		
12.714	12.711	12.731	1579	0.00	1.07		
12.739	12.731	12.746	1127	0.00	0.79		
12.749	12.746	12.770	1908	0.00	1.34		
12.775	12.770	12.795	1927	0.00	1.36		
12.801	12.795	12.816	1593	0.00	0.96		
12.819	12.816	12.824	600	0.00	0.40		
12.831	12.824	12.850	2000	0.00	1.36		
12.854	12.850	12.855	366	0.00	0.23		
12.871	12.855	12.872	1337	0.00	0.87		
12.881	12.872	12.895	1810	0.00	1.15		
12.901	12.895	12.902	563	0.00	0.36		
			162870489			Totals	

Total Unknown Area% = 49.49

Flag Legend

- M - Manually Integrated
- A - User Assigned Compound
- B - Overlapped Base Peak
- O - Overlapping Peak
- e - Potential Peak Saturation

Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA012\20190725-66528.b\002F0201.D

Injection Date: 25-Jul-2019 16:20:26

Instrument ID: SEA012

Lims ID: RTC

Client ID:

Operator ID: SYSTEM

ALS Bottle#: 2

Worklist Smp#: 2

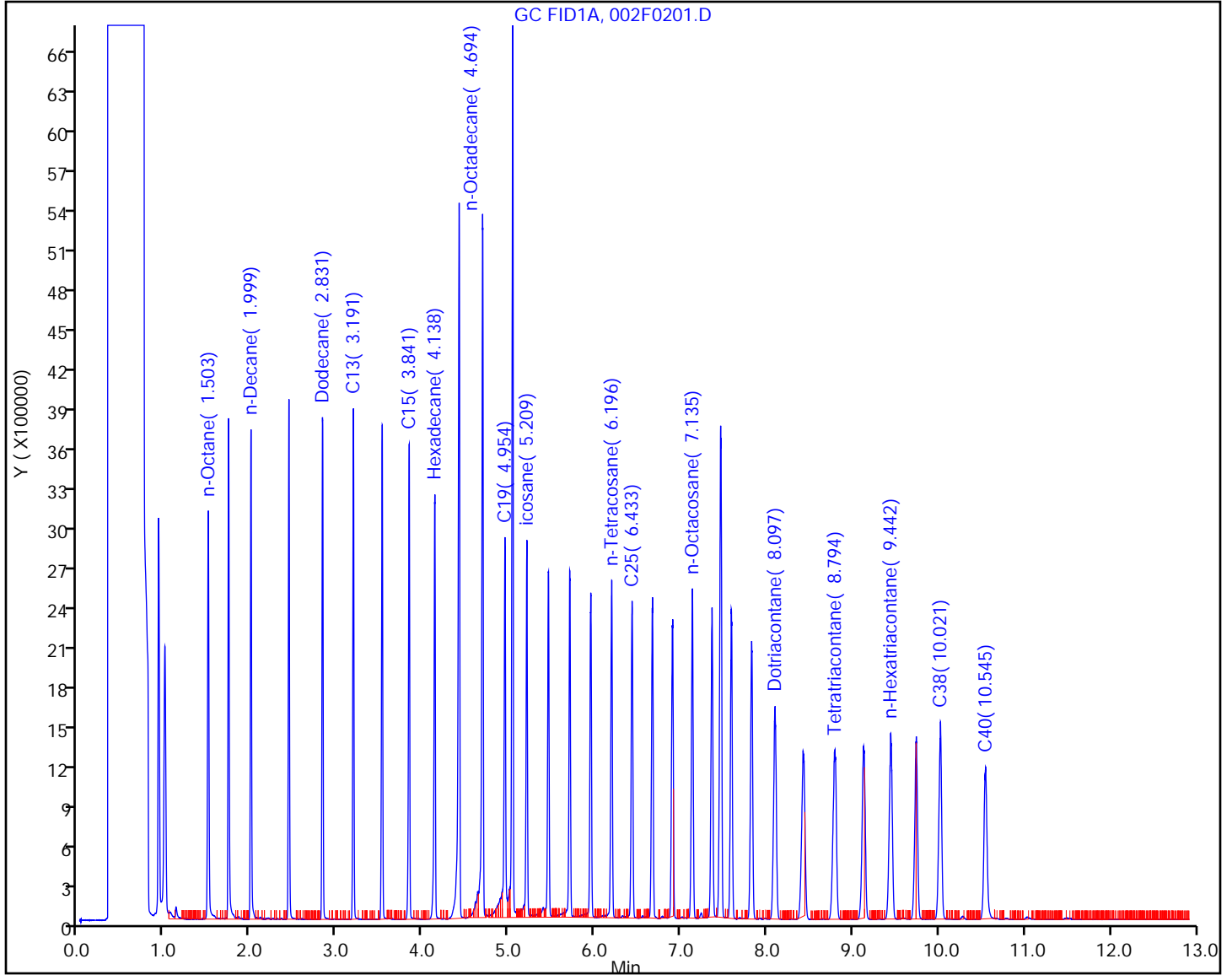
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-Front_SEA012

Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: ICV 580-296035/13 Calibration Date: 03/11/2019 22:37
 Instrument ID: SEA012 Calib Start Date: 03/11/2019 18:59
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 03/11/2019 22:15
 Lab File ID: 013F1301.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin1		155361		490	500	-2.0	25.0
RRO (nC25-nC36)	Lin2		78942		481	500	-3.7	25.0
o-Terphenyl	Ave	161524	154954		19.6	20.4	-4.1	25.0
n-Triacontane-d62	Ave	128660	125419		19.5	20.0	-2.5	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: ICV 580-296035/13 Calibration Date: 03/11/2019 22:37
 Instrument ID: SEA012 Calib Start Date: 03/11/2019 18:59
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 03/11/2019 22:15
 Lab File ID: 013F1301.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.26	1.99	6.44
RRO (nC25-nC36)	8.11	6.44	9.66
o-Terphenyl	5.08	5.05	5.11
n-Triacontane-d62	7.50	7.45	7.55

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: ICV 580-304917/13 Calibration Date: 07/07/2019 18:15
 Instrument ID: SEA012 Calib Start Date: 07/07/2019 14:31
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/07/2019 17:53
 Lab File ID: 113B1301.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		215500		527	500	5.4	25.0
RRO (nC25-nC36)	Lin2		104390		504	500	0.7	25.0
o-Terphenyl	Ave	226422	205665		18.1	19.9	-9.2	25.0
n-Triacontane-d62	Ave	151566	158978		21.1	20.1	4.9	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: ICV 580-304917/13 Calibration Date: 07/07/2019 18:15
 Instrument ID: SEA012 Calib Start Date: 07/07/2019 14:31
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/07/2019 17:53
 Lab File ID: 113B1301.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.15	2.07	6.24
RRO (nC25-nC36)	7.67	6.24	9.10
o-Terphenyl	4.77	4.74	4.80
n-Triacontane-d62	7.27	7.20	7.30

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-306540/3 Calibration Date: 07/24/2019 17:31
 Instrument ID: SEA012 Calib Start Date: 07/07/2019 14:31
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/07/2019 17:53
 Lab File ID: 053B0301.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		215315		527	500	5.3	25.0
RRO (nC25-nC36)	Lin2		115463		559	500	11.8	25.0
o-Terphenyl	Ave	226422	212251		9.34	9.96	-6.3	25.0
n-Triacontane-d62	Ave	151566	155278		10.3	10.0	2.4	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-306540/3 Calibration Date: 07/24/2019 17:31
 Instrument ID: SEA012 Calib Start Date: 07/07/2019 14:31
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/07/2019 17:53
 Lab File ID: 053B0301.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.15	2.06	6.24
RRO (nC25-nC36)	7.67	6.24	9.10
o-Terphenyl	4.76	4.73	4.79
n-Triacontane-d62	7.26	7.21	7.31

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306540/14 Calibration Date: 07/24/2019 21:34
 Instrument ID: SEA012 Calib Start Date: 07/07/2019 14:31
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/07/2019 17:53
 Lab File ID: 064B1401.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		213027		521	500	4.2	25.0
RRO (nC25-nC36)	Lin2		112708		545	500	9.0	25.0
o-Terphenyl	Ave	226422	198337		8.72	9.96	-12.4	25.0
n-Triacontane-d62	Ave	151566	150566		9.97	10.0	-0.7	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306540/14 Calibration Date: 07/24/2019 21:34
 Instrument ID: SEA012 Calib Start Date: 07/07/2019 14:31
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/07/2019 17:53
 Lab File ID: 064B1401.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.15	2.06	6.24
RRO (nC25-nC36)	7.67	6.24	9.10
o-Terphenyl	4.76	4.74	4.80
n-Triacontane-d62	7.26	7.25	7.35

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306540/25 Calibration Date: 07/25/2019 01:41
 Instrument ID: SEA012 Calib Start Date: 07/07/2019 14:31
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/07/2019 17:53
 Lab File ID: 075B2501.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		216525		530	500	5.9	25.0
RRO (nC25-nC36)	Lin2		115557		559	500	11.9	25.0
o-Terphenyl	Ave	226422	198866		8.75	9.96	-12.2	25.0
n-Triacontane-d62	Ave	151566	152547		10.1	10.0	0.6	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306540/25 Calibration Date: 07/25/2019 01:41
 Instrument ID: SEA012 Calib Start Date: 07/07/2019 14:31
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/07/2019 17:53
 Lab File ID: 075B2501.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.15	2.06	6.24
RRO (nC25-nC36)	7.67	6.24	9.10
o-Terphenyl	4.76	4.74	4.80
n-Triacontane-d62	7.23	7.25	7.35

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306540/36 Calibration Date: 07/25/2019 05:41
 Instrument ID: SEA012 Calib Start Date: 07/07/2019 14:31
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/07/2019 17:53
 Lab File ID: 086B3601.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		214918		526	500	5.1	25.0
RRO (nC25-nC36)	Lin2		115022		557	500	11.4	25.0
o-Terphenyl	Ave	226422	194957		8.58	9.96	-13.9	25.0
n-Triacontane-d62	Ave	151566	160547		10.6	10.0	5.9	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306540/36 Calibration Date: 07/25/2019 05:41
 Instrument ID: SEA012 Calib Start Date: 07/07/2019 14:31
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/07/2019 17:53
 Lab File ID: 086B3601.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.15	2.06	6.24
RRO (nC25-nC36)	7.67	6.24	9.10
o-Terphenyl	4.76	4.74	4.80
n-Triacontane-d62	7.24	7.25	7.35

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306540/44 Calibration Date: 07/25/2019 08:37
 Instrument ID: SEA012 Calib Start Date: 07/07/2019 14:31
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/07/2019 17:53
 Lab File ID: 094B4401.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		222466		544	500	8.9	25.0
RRO (nC25-nC36)	Lin2		118249		573	500	14.6	25.0
o-Terphenyl	Ave	226422	207633		9.13	9.96	-8.3	25.0
n-Triacontane-d62	Ave	151566	161729		10.7	10.0	6.7	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306540/44 Calibration Date: 07/25/2019 08:37
 Instrument ID: SEA012 Calib Start Date: 07/07/2019 14:31
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/07/2019 17:53
 Lab File ID: 094B4401.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.15	2.06	6.24
RRO (nC25-nC36)	7.67	6.24	9.10
o-Terphenyl	4.76	4.74	4.80
n-Triacontane-d62	7.23	7.25	7.35

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-306643/3 Calibration Date: 07/25/2019 16:42
 Instrument ID: SEA012 Calib Start Date: 03/11/2019 18:59
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 03/11/2019 22:15
 Lab File ID: 003F0301.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin1		156239		493	500	-1.4	25.0
RRO (nC25-nC36)	Lin2		80957		494	500	-1.2	25.0
o-Terphenyl	Ave	161524	141108		8.70	9.96	-12.6	25.0
n-Triacontane-d62	Ave	128660	113985		8.89	10.0	-11.4	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCVRT 580-306643/3 Calibration Date: 07/25/2019 16:42
 Instrument ID: SEA012 Calib Start Date: 03/11/2019 18:59
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 03/11/2019 22:15
 Lab File ID: 003F0301.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.15	1.94	6.36
RRO (nC25-nC36)	7.95	6.36	9.55
o-Terphenyl	5.04	5.01	5.07
n-Triacontane-d62	7.44	7.39	7.49

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306643/14 Calibration Date: 07/25/2019 20:48
 Instrument ID: SEA012 Calib Start Date: 03/11/2019 18:59
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 03/11/2019 22:15
 Lab File ID: 014F1401.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin1		149855		472	500	-5.5	25.0
RRO (nC25-nC36)	Lin2		79339		484	500	-3.2	25.0
o-Terphenyl	Ave	161524	155752		9.60	9.96	-3.6	25.0
n-Triacontane-d62	Ave	128660	124457		9.71	10.0	-3.3	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306643/14 Calibration Date: 07/25/2019 20:48
 Instrument ID: SEA012 Calib Start Date: 03/11/2019 18:59
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 03/11/2019 22:15
 Lab File ID: 014F1401.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.15	1.94	6.36
RRO (nC25-nC36)	7.95	6.36	9.55
o-Terphenyl	5.04	5.01	5.07
n-Triacontane-d62	7.44	7.41	7.51

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306643/19 Calibration Date: 07/25/2019 22:39
 Instrument ID: SEA012 Calib Start Date: 03/11/2019 18:59
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 03/11/2019 22:15
 Lab File ID: 019F1901.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin1		153656		485	500	-3.1	25.0
RRO (nC25-nC36)	Lin2		82853		506	500	1.2	25.0
o-Terphenyl	Ave	161524	155492		9.59	9.96	-3.7	25.0
n-Triacontane-d62	Ave	128660	113073		8.82	10.0	-12.1	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Lab Sample ID: CCV 580-306643/19 Calibration Date: 07/25/2019 22:39
 Instrument ID: SEA012 Calib Start Date: 03/11/2019 18:59
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 03/11/2019 22:15
 Lab File ID: 019F1901.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.15	1.94	6.36
RRO (nC25-nC36)	7.95	6.36	9.55
o-Terphenyl	5.04	5.01	5.07
n-Triacontane-d62	7.43	7.41	7.51

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-306395/1-B
 Matrix: Water Lab File ID: 054B0401.D
 Analysis Method: AK102/103 Date Collected: _____
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 250 (mL) Date Analyzed: 07/24/2019 17:53
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	ND		0.11	0.075

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-306395/1-A
 Matrix: Water Lab File ID: 057B0701.D
 Analysis Method: AK102 & 103 Date Collected: _____
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 250 (mL) Date Analyzed: 07/24/2019 18:59
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	ND		0.11	0.075

CAS NO.	SURROGATE	%REC	Q	LIMITS
93952-07-9	n-Triacontane-d62	106		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 580-306395/1-A RA
 Matrix: Water Lab File ID: 004F0401.D
 Analysis Method: AK102 & 103 Date Collected: _____
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 250 (mL) Date Analyzed: 07/25/2019 17:04
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306643 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00383	RRO (nC25-nC36)	ND		0.25	0.066

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-306395/2-B
 Matrix: Water Lab File ID: 055B0501.D
 Analysis Method: AK102/103 Date Collected: _____
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 250 (mL) Date Analyzed: 07/24/2019 18:15
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	2.01		0.11	0.075

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-306395/2-A
 Matrix: Water Lab File ID: 058B0801.D
 Analysis Method: AK102 & 103 Date Collected: _____
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 250 (mL) Date Analyzed: 07/24/2019 19:20
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	1.85		0.11	0.075

CAS NO.	SURROGATE	%REC	Q	LIMITS
93952-07-9	n-Triacontane-d62	99		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 580-306395/2-A RA
 Matrix: Water Lab File ID: 005F0501.D
 Analysis Method: AK102 & 103 Date Collected: _____
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 250 (mL) Date Analyzed: 07/25/2019 17:27
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306643 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00383	RRO (nC25-nC36)	2.22		0.25	0.066

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-306395/3-B
 Matrix: Water Lab File ID: 056B0601.D
 Analysis Method: AK102/103 Date Collected: _____
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 250 (mL) Date Analyzed: 07/24/2019 18:36
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	2.04		0.11	0.075

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-306395/3-A
 Matrix: Water Lab File ID: 059B0901.D
 Analysis Method: AK102 & 103 Date Collected: _____
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 250 (mL) Date Analyzed: 07/24/2019 19:42
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306540 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00258	DRO (nC10-<nC25)	1.89		0.11	0.075

CAS NO.	SURROGATE	%REC	Q	LIMITS
93952-07-9	n-Triacontane-d62	96		50-150

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 580-306395/3-A RA
 Matrix: Water Lab File ID: 006F0601.D
 Analysis Method: AK102 & 103 Date Collected: _____
 Extraction Method: 3510C Date Extracted: 07/23/2019 12:20
 Sample wt/vol: 250 (mL) Date Analyzed: 07/25/2019 17:49
 Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-1HT ID: 0.25 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 306643 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00383	RRO (nC25-nC36)	2.40		0.25	0.066

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA012 Start Date: 03/11/2019 18:38

Analysis Batch Number: 296035 End Date: 03/11/2019 22:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-296035/2		03/11/2019 18:38	1		ZB-1HT 0.25 (mm)
IC 580-296035/3		03/11/2019 18:59	1	003F0301.D	ZB-1HT 0.25 (mm)
IC 580-296035/4		03/11/2019 19:21	1	004F0401.D	ZB-1HT 0.25 (mm)
IC 580-296035/5		03/11/2019 19:43	1	005F0501.D	ZB-1HT 0.25 (mm)
IC 580-296035/6		03/11/2019 20:05	1	006F0601.D	ZB-1HT 0.25 (mm)
ICRT 580-296035/7		03/11/2019 20:27	1	007F0701.D	ZB-1HT 0.25 (mm)
IC 580-296035/8		03/11/2019 20:49	1	008F0801.D	ZB-1HT 0.25 (mm)
IC 580-296035/9		03/11/2019 21:10	1	009F0901.D	ZB-1HT 0.25 (mm)
IC 580-296035/10		03/11/2019 21:32	1	010F1001.D	ZB-1HT 0.25 (mm)
IC 580-296035/11		03/11/2019 21:54	1	011F1101.D	ZB-1HT 0.25 (mm)
IC 580-296035/12		03/11/2019 22:15	1	012F1201.D	ZB-1HT 0.25 (mm)
ICV 580-296035/13		03/11/2019 22:37	1	013F1301.D	ZB-1HT 0.25 (mm)

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA012 Start Date: 07/25/2019 16:20

Analysis Batch Number: 306643 End Date: 07/25/2019 22:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-306643/2		07/25/2019 16:20	1		ZB-1HT 0.25 (mm)
CCVRT 580-306643/3		07/25/2019 16:42	1	003F0301.D	ZB-1HT 0.25 (mm)
MB 580-306395/1-A RA		07/25/2019 17:04	1	004F0401.D	ZB-1HT 0.25 (mm)
LCS 580-306395/2-A RA		07/25/2019 17:27	1	005F0501.D	ZB-1HT 0.25 (mm)
LCSD 580-306395/3-A RA		07/25/2019 17:49	1	006F0601.D	ZB-1HT 0.25 (mm)
ZZZZZ		07/25/2019 18:11	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/25/2019 18:33	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/25/2019 18:55	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/25/2019 19:17	1		ZB-1HT 0.25 (mm)
580-87636-1 RA		07/25/2019 19:40	1	011F1101.D	ZB-1HT 0.25 (mm)
580-87636-2 RA		07/25/2019 20:02	1	012F1201.D	ZB-1HT 0.25 (mm)
580-87636-3 RA		07/25/2019 20:25	1	013F1301.D	ZB-1HT 0.25 (mm)
CCV 580-306643/14		07/25/2019 20:48	1	014F1401.D	ZB-1HT 0.25 (mm)
580-87636-4 RA		07/25/2019 21:10	1	015F1501.D	ZB-1HT 0.25 (mm)
580-87636-5 RA		07/25/2019 21:32	1	016F1601.D	ZB-1HT 0.25 (mm)
580-87636-6 RA		07/25/2019 21:54	1	017F1701.D	ZB-1HT 0.25 (mm)
580-87636-7 RA		07/25/2019 22:16	1	018F1801.D	ZB-1HT 0.25 (mm)
CCV 580-306643/19		07/25/2019 22:39	1	019F1901.D	ZB-1HT 0.25 (mm)

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA012 Start Date: 07/07/2019 14:09

Analysis Batch Number: 304917 End Date: 07/07/2019 18:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-304917/2		07/07/2019 14:09	1		ZB-1HT 0.25 (mm)
IC 580-304917/3		07/07/2019 14:31	1	103B0301.D	ZB-1HT 0.25 (mm)
IC 580-304917/4		07/07/2019 14:54	1	104B0401.D	ZB-1HT 0.25 (mm)
IC 580-304917/5		07/07/2019 15:16	1	105B0501.D	ZB-1HT 0.25 (mm)
IC 580-304917/6		07/07/2019 15:38	1	106B0601.D	ZB-1HT 0.25 (mm)
ICRT 580-304917/7		07/07/2019 16:00	1	107B0701.D	ZB-1HT 0.25 (mm)
IC 580-304917/8		07/07/2019 16:23	1	108B0801.D	ZB-1HT 0.25 (mm)
IC 580-304917/9		07/07/2019 16:45	1	109B0901.D	ZB-1HT 0.25 (mm)
IC 580-304917/10		07/07/2019 17:08	1	110B1001.D	ZB-1HT 0.25 (mm)
IC 580-304917/11		07/07/2019 17:30	1	111B1101.D	ZB-1HT 0.25 (mm)
IC 580-304917/12		07/07/2019 17:53	1	112B1201.D	ZB-1HT 0.25 (mm)
ICV 580-304917/13		07/07/2019 18:15	1	113B1301.D	ZB-1HT 0.25 (mm)

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Instrument ID: SEA012 Start Date: 07/24/2019 17:09

Analysis Batch Number: 306540 End Date: 07/25/2019 08:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-306540/2		07/24/2019 17:09	1	052B0201.D	ZB-1HT 0.25 (mm)
CCVRT 580-306540/3		07/24/2019 17:31	1	053B0301.D	ZB-1HT 0.25 (mm)
MB 580-306395/1-B		07/24/2019 17:53	1	054B0401.D	ZB-1HT 0.25 (mm)
LCS 580-306395/2-B		07/24/2019 18:15	1	055B0501.D	ZB-1HT 0.25 (mm)
LCSD 580-306395/3-B		07/24/2019 18:36	1	056B0601.D	ZB-1HT 0.25 (mm)
MB 580-306395/1-A		07/24/2019 18:59	1	057B0701.D	ZB-1HT 0.25 (mm)
LCS 580-306395/2-A		07/24/2019 19:20	1	058B0801.D	ZB-1HT 0.25 (mm)
LCSD 580-306395/3-A		07/24/2019 19:42	1	059B0901.D	ZB-1HT 0.25 (mm)
ZZZZZ		07/24/2019 20:04	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/24/2019 20:26	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/24/2019 20:49	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/24/2019 21:12	1		ZB-1HT 0.25 (mm)
CCV 580-306540/14		07/24/2019 21:34	1	064B1401.D	ZB-1HT 0.25 (mm)
580-87636-1		07/24/2019 21:57	1	065B1501.D	ZB-1HT 0.25 (mm)
580-87636-2		07/24/2019 22:20	1	066B1601.D	ZB-1HT 0.25 (mm)
580-87636-3		07/24/2019 22:42	1	067B1701.D	ZB-1HT 0.25 (mm)
580-87636-4		07/24/2019 23:05	1	068B1801.D	ZB-1HT 0.25 (mm)
580-87636-5		07/24/2019 23:27	1	069B1901.D	ZB-1HT 0.25 (mm)
580-87636-6		07/24/2019 23:49	1	070B2001.D	ZB-1HT 0.25 (mm)
580-87636-7		07/25/2019 00:12	1	071B2101.D	ZB-1HT 0.25 (mm)
ZZZZZ		07/25/2019 00:56	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/25/2019 01:18	1		ZB-1HT 0.25 (mm)
CCV 580-306540/25		07/25/2019 01:41	1	075B2501.D	ZB-1HT 0.25 (mm)
ZZZZZ		07/25/2019 02:03	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/25/2019 02:25	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/25/2019 02:47	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/25/2019 03:09	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/25/2019 03:30	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/25/2019 03:52	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/25/2019 04:14	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/25/2019 04:36	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/25/2019 04:58	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/25/2019 05:20	1		ZB-1HT 0.25 (mm)
CCV 580-306540/36		07/25/2019 05:41	1	086B3601.D	ZB-1HT 0.25 (mm)
580-87636-1		07/25/2019 06:03	1	087B3701.D	ZB-1HT 0.25 (mm)
580-87636-2		07/25/2019 06:25	1	088B3801.D	ZB-1HT 0.25 (mm)
580-87636-3		07/25/2019 06:47	1	089B3901.D	ZB-1HT 0.25 (mm)
580-87636-4		07/25/2019 07:09	1	090B4001.D	ZB-1HT 0.25 (mm)
580-87636-5		07/25/2019 07:31	1	091B4101.D	ZB-1HT 0.25 (mm)
580-87636-6		07/25/2019 07:53	1	092B4201.D	ZB-1HT 0.25 (mm)
580-87636-7		07/25/2019 08:15	1	093B4301.D	ZB-1HT 0.25 (mm)
CCV 580-306540/44		07/25/2019 08:37	1	094B4401.D	ZB-1HT 0.25 (mm)

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Batch Number: 306395 Batch Start Date: 07/23/19 12:20 Batch Analyst: Coy, Nickolas D

Batch Method: 3510C Batch End Date: 07/23/19 20:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ResidualChloCheck	ReceivedpH
MB 580-306395/1		3510C, AK102 & 103				250 mL	1.0 mL	No	7.0 SU
LCS 580-306395/2		3510C, AK102 & 103				250 mL	1.0 mL	No	7.0 SU
LCSD 580-306395/3		3510C, AK102 & 103				250 mL	1.0 mL	No	7.0 SU
580-87636-G-1	G-7-W-190710	3510C, AK102 & 103	T	00427.76 g	00186.12 g	241.6 mL	1.0 mL	No	2.0 SU
580-87636-G-2	G-8-W-190710	3510C, AK102 & 103	T	00430.20 g	00184.68 g	245.5 mL	1.0 mL	No	2.0 SU
580-87636-G-3	EQB-1-W-190710	3510C, AK102 & 103	T	00427.63 g	00184.54 g	243.1 mL	1.0 mL	No	2.0 SU
580-87636-G-4	G-3-W-190710	3510C, AK102 & 103	T	00429.60 g	00184.11 g	245.5 mL	1.0 mL	No	2.0 SU
580-87636-G-5	G1-R-W-190710	3510C, AK102 & 103	T	00426.62 g	00186.22 g	240.4 mL	1.0 mL	No	2.0 SU
580-87636-G-6	G-4-W-190710	3510C, AK102 & 103	T	00423.42 g	00184.76 g	238.7 mL	1.0 mL	No	2.0 SU
580-87636-H-7	G-5-W-190710	3510C, AK102 & 103	T	00435.06 g	00186.41 g	248.7 mL	1.0 mL	No	2.0 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	TPH_Water_Spk_00022	TPH_WaterSurr_00048		
MB 580-306395/1		3510C, AK102 & 103		2.0 SU	N/A SU		100 uL		
LCS 580-306395/2		3510C, AK102 & 103		2.0 SU	N/A SU	100 uL	100 uL		
LCSD 580-306395/3		3510C, AK102 & 103		2.0 SU	N/A SU	100 uL	100 uL		
580-87636-G-1	G-7-W-190710	3510C, AK102 & 103	T	N/A SU	N/A SU		100 uL		
580-87636-G-2	G-8-W-190710	3510C, AK102 & 103	T	N/A SU	N/A SU		100 uL		
580-87636-G-3	EQB-1-W-190710	3510C, AK102 & 103	T	N/A SU	N/A SU		100 uL		
580-87636-G-4	G-3-W-190710	3510C, AK102 & 103	T	N/A SU	N/A SU		100 uL		
580-87636-G-5	G1-R-W-190710	3510C, AK102 & 103	T	N/A SU	N/A SU		100 uL		
580-87636-G-6	G-4-W-190710	3510C, AK102 & 103	T	N/A SU	N/A SU		100 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, Seattle Job No.: 580-87636-1

SDG No.: _____

Batch Number: 306395 Batch Start Date: 07/23/19 12:20 Batch Analyst: Coy, Nickolas D

Batch Method: 3510C Batch End Date: 07/23/19 20:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	TPH_Water_Spk 00022	TPH_WaterSurr 00048		
580-87636-H-7	G-5-W-190710	3510C, AK102 & 103	T	N/A SU	N/A SU		100 uL		

Batch Notes	
Acid Used for pH Adjustment ID	2296010
Balance ID	SEA225
Batch Comment	Vialed by: PRO
Analyst ID - Concentration	PRO
Concentration 1 Corrected Temperature	68.8-74.8 Degrees C
Concentration 2 Corrected Temperature	ambient Degrees C
Equipment ID - Concentration 1	Steam Bath 2
Equipment ID - Concentration 2	NEVAP 2
Analyst ID - Extraction	PRO/NDC
Filter ID	2416954
Method/Fraction	3510C_LVI/ AK102_103
Na2SO4 ID	2422030
pH Indicator ID	6901002 pH 0.0-6.0/6901003 pH 4.0-10.0
Pipette/Syringe/Dispenser ID	MP2
Prep Solvent ID	2416523 DCM
Prep Solvent Volume Used	120 mL
Residual Chlorine Indicator ID	fisher cat#14-860
Analyst ID - Spike Analyst	NDC
Analyst ID - Spike Witness Analyst	PRO
Sufficient Volume for Batch QC	MB, LCS, LCSD
Thermometer ID - Concentration 1	661200
Concentration 1 Uncorrected Temperature	70-75 Degrees C
Concentration 2 Uncorrected Temperature	ambient Degrees C
Vial Lot Number	18057884

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, Seattle Job No.: 580-87636-1

SDG No.: _____

Batch Number: 306395 Batch Start Date: 07/23/19 12:20 Batch Analyst: Coy, Nickolas D

Batch Method: 3510C Batch End Date: 07/23/19 20:43

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.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Batch Number: 306395 Batch Start Date: 07/23/19 12:20 Batch Analyst: Coy, Nickolas D

Batch Method: 3510C Batch End Date: 07/23/19 20:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ResidualChloChe ck	ReceivedpH
MB 580-306395/1		3510C, 3630C, AK102/103				250 mL	1.0 mL	No	7.0 SU
LCS 580-306395/2		3510C, 3630C, AK102/103				250 mL	1.0 mL	No	7.0 SU
LCSD 580-306395/3		3510C, 3630C, AK102/103				250 mL	1.0 mL	No	7.0 SU
580-87636-G-1	G-7-W-190710	3510C, 3630C, AK102/103	T	00427.76 g	00186.12 g	241.6 mL	1.0 mL	No	2.0 SU
580-87636-G-2	G-8-W-190710	3510C, 3630C, AK102/103	T	00430.20 g	00184.68 g	245.5 mL	1.0 mL	No	2.0 SU
580-87636-G-3	EQB-1-W-190710	3510C, 3630C, AK102/103	T	00427.63 g	00184.54 g	243.1 mL	1.0 mL	No	2.0 SU
580-87636-G-4	G-3-W-190710	3510C, 3630C, AK102/103	T	00429.60 g	00184.11 g	245.5 mL	1.0 mL	No	2.0 SU
580-87636-G-5	G1-R-W-190710	3510C, 3630C, AK102/103	T	00426.62 g	00186.22 g	240.4 mL	1.0 mL	No	2.0 SU
580-87636-G-6	G-4-W-190710	3510C, 3630C, AK102/103	T	00423.42 g	00184.76 g	238.7 mL	1.0 mL	No	2.0 SU
580-87636-H-7	G-5-W-190710	3510C, 3630C, AK102/103	T	00435.06 g	00186.41 g	248.7 mL	1.0 mL	No	2.0 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	TPH_Water_Spk 00022	TPH_WaterSurr 00048		
MB 580-306395/1		3510C, 3630C, AK102/103		2.0 SU	N/A SU		100 uL		
LCS 580-306395/2		3510C, 3630C, AK102/103		2.0 SU	N/A SU	100 uL	100 uL		
LCSD 580-306395/3		3510C, 3630C, AK102/103		2.0 SU	N/A SU	100 uL	100 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, Seattle Job No.: 580-87636-1

SDG No.: _____

Batch Number: 306395 Batch Start Date: 07/23/19 12:20 Batch Analyst: Coy, Nickolas D

Batch Method: 3510C Batch End Date: 07/23/19 20:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	TPH_Water_Spk 00022	TPH_WaterSurr 00048		
580-87636-G-1	G-7-W-190710	3510C, 3630C, AK102/103	T	N/A SU	N/A SU		100 uL		
580-87636-G-2	G-8-W-190710	3510C, 3630C, AK102/103	T	N/A SU	N/A SU		100 uL		
580-87636-G-3	EQB-1-W-190710	3510C, 3630C, AK102/103	T	N/A SU	N/A SU		100 uL		
580-87636-G-4	G-3-W-190710	3510C, 3630C, AK102/103	T	N/A SU	N/A SU		100 uL		
580-87636-G-5	G1-R-W-190710	3510C, 3630C, AK102/103	T	N/A SU	N/A SU		100 uL		
580-87636-G-6	G-4-W-190710	3510C, 3630C, AK102/103	T	N/A SU	N/A SU		100 uL		
580-87636-H-7	G-5-W-190710	3510C, 3630C, AK102/103	T	N/A SU	N/A SU		100 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, Seattle Job No.: 580-87636-1

SDG No.: _____

Batch Number: 306395 Batch Start Date: 07/23/19 12:20 Batch Analyst: Coy, Nickolas D

Batch Method: 3510C Batch End Date: 07/23/19 20:43

Batch Notes	
Acid Used for pH Adjustment ID	2296010
Balance ID	SEA225
Batch Comment	Vialed by: PRO
Analyst ID - Concentration	PRO
Concentration 1 Corrected Temperature	68.8-74.8 Degrees C
Concentration 2 Corrected Temperature	ambient Degrees C
Equipment ID - Concentration 1	Steam Bath 2
Equipment ID - Concentration 2	NEVAP 2
Analyst ID - Extraction	PRO/NDC
Filter ID	2416954
Method/Fraction	3510C_LVI/ AK102_103
Na2SO4 ID	2422030
pH Indicator ID	6901002 pH 0.0-6.0/6901003 pH 4.0-10.0
Pipette/Syringe/Dispenser ID	MP2
Prep Solvent ID	2416523 DCM
Prep Solvent Volume Used	120 mL
Residual Chlorine Indicator ID	fisher cat#14-860
Analyst ID - Spike Analyst	NDC
Analyst ID - Spike Witness Analyst	PRO
Sufficient Volume for Batch QC	MB, LCS, LCSD
Thermometer ID - Concentration 1	661200
Concentration 1 Uncorrected Temperature	70-75 Degrees C
Concentration 2 Uncorrected Temperature	ambient Degrees C
Vial Lot Number	18057884

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.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-87636-1

SDG No.: _____

Batch Number: 306459 Batch Start Date: 07/23/19 17:35 Batch Analyst: O'Shaughnessy, Patrick R

Batch Method: 3630C Batch End Date: 07/29/19 15:19

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
MB 580-306395/1-A		3630C, AK102/103		1.0 mL	1.0 mL				
LCS 580-306395/2-A		3630C, AK102/103		1.0 mL	1.0 mL				
LCSD 580-306395/3-A		3630C, AK102/103		1.0 mL	1.0 mL				
580-87636-G-1-A	G-7-W-190710	3630C, AK102/103	T	1.0 mL	1.0 mL				
580-87636-G-2-A	G-8-W-190710	3630C, AK102/103	T	1.0 mL	1.0 mL				
580-87636-G-3-A	EQB-1-W-190710	3630C, AK102/103	T	1.0 mL	1.0 mL				
580-87636-G-4-A	G-3-W-190710	3630C, AK102/103	T	1.0 mL	1.0 mL				
580-87636-G-5-A	G1-R-W-190710	3630C, AK102/103	T	1.0 mL	1.0 mL				
580-87636-G-6-A	G-4-W-190710	3630C, AK102/103	T	1.0 mL	1.0 mL				
580-87636-H-7-A	G-5-W-190710	3630C, AK102/103	T	1.0 mL	1.0 mL				

Batch Notes	
Batch Comment	Vialed by: PRO
Na2SO4 ID	2422030
Silica Gel ID	2406818

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.

Shipping and Receiving Documents

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

Chain of Custody Record 249523

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING
 TestAmerica Laboratories, Inc.
 TAL-8210 (0713)

Regulatory Program: DW NPDES RCRA Other: _____

Project Manager: Nicole Mervos Date: 7.10.19
 Tell Fax: 503.785.9414 Carrier: Fed Ex

Client Contact: Arce-dis Lab Contact: David Beard
 Address: 115 SW Columbia St., Ste. 670
 City/State/Zip: Portland, OR 97201
 Phone: (503) 785-9414
 Fax: _____
 Project Name: Chevron 211081
 Site: Guast 211081
 P O # _____

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
 TAT if different from Below Standard
 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)	Lab Contact	Site Contact	Date	Carrier	COC No.	Sampler	For Lab Use Only:	Walk-in Client:	Lab Sampling:	Job / SDG No.:	Sample Specific Notes:
G-7-W-190710	7.10.19	0830	G	W	10	N	N	BTEX 8260D	David Beard	7.10.19	Fed Ex	1	Evans	Wajcik				
G-8-W-190710	7.10.19	0920	G	W	10	N	N	GPO AK101	David Beard	7.10.19	Fed Ex	1	Evans	Wajcik				
EAB-1-W-190710	7.10.19	1000	G	W	10	N	N	DPO AK102	David Beard	7.10.19	Fed Ex	1	Evans	Wajcik				
G-3-W-190710	7.10.19	1020	G	W	10	N	N	DPO w/SGC AK102	David Beard	7.10.19	Fed Ex	1	Evans	Wajcik				
G-1-R-W-190710	7.10.19	1100	G	W	10	N	N		David Beard	7.10.19	Fed Ex	1	Evans	Wajcik				
G-4-W-190710	7.10.19	1220	G	W	10	N	N		David Beard	7.10.19	Fed Ex	1	Evans	Wajcik				
G-5-W-190710	7.10.19	1345	G	W	10	N	N		David Beard	7.10.19	Fed Ex	1	Evans	Wajcik				
MW-301D-W-190710	7.10.19	1430	G	W	6	N	N		David Beard	7.10.19	Fed Ex	1	Evans	Wajcik				
MW-304D-W-190710 (MS/MSD)	7.10.19	1515	G	W	18	N	Y		David Beard	7.10.19	Fed Ex	1	Evans	Wajcik				
BD-1-W-190710	7.10.19	---	G	W	6	N	N		David Beard	7.10.19	Fed Ex	1	Evans	Wajcik				
Trip Blank	---	---	---	W	12	N	N		David Beard	7.10.19	Fed Ex	1	Evans	Wajcik				

Therm. ID: 5 Cor: 4.1 Unc: 4.2
 Cooler Disc: LB FedEx: PO
 Packing: 100 UPS:
 Cust. Seal: Yes 5 No _____ Lab Cour: _____
 Blue Ice, Dry, None _____ Other: _____

580-87636 Chain of Custody

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

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

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

Custody Seal No.: _____
 Company: Arce-dis
 Date/Time: 7.11.19 0800

Received by: Arce-dis
 Date/Time: 7.11.19 0800

Received by: Arce-dis
 Date/Time: 7.11.19 0800

Received by: Arce-dis
 Date/Time: 7.11.19 0800

Received by: Arce-dis
 Date/Time: 7.11.19 0800

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 580-87636-1

Login Number: 87636
List Number: 1
Creator: Vallelunga, Diana L

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
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.	False	IDs on containers do not match the COC. Logged in per COC.
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	Headspace larger than 1/4" in one or more vials, one vial with accpt. headspace
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX D

ADEC Data Review Checklist



Laboratory Data Review Checklist

Completed By:

Suresh PR

Title:

Project Chemist

Date:

September 10, 2019

CS Report Name:

Annual 2019 Groundwater Monitoring Report

Report Date:

July 31, 2019

Consultant Firm:

ARCADIS U.S., Inc

Laboratory Name:

Eurofins TestAmerica Laboratory, Tacoma, WA

Laboratory Report Number:

580-87636-1

ADEC File Number:

102.26.023

Hazard Identification Number:

23798

1. Laboratory

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

Yes No Comments:

Yes.

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

Yes No Comments:

Samples were not transferred to another lab.

2. Chain of Custody (CoC)

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

Yes No Comments:

Yes.

b. Correct Analyses requested?

Yes No Comments:

Yes.

3. Laboratory Sample Receipt Documentation

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

Yes No Comments:

Yes.

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

Yes No Comments:

Yes.

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

Yes No Comments:

Yes.

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

Yes No Comments:

No.

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:

The compound Gasoline Range Organics (GRO)-C6-C10 was analyzed on 15th day from sample collection which is beyond the required holding time of 14 days for all project samples. The associated detected (J) and non-detected (UJ) results were qualified as estimated.

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:

The holding time exceedances are considered minor and would result in the estimation of the associated data. The reported data should still consider as usable.

6. QC Samples

a. Method Blank

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

Yes No

Comments:

Yes.

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

Yes No

Comments:

Yes.

iii. If above MDL, what samples are affected?

Yes No

Comments:

No.

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

Yes No

Comments:

No.

v. Data quality or usability affected?

Yes No

Comments:

Data quality/usability was not affected.

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

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

Yes No

Comments:

Yes.

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

Yes No

Comments:

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:

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

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

Yes No

Comments:

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

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

Yes No

Comments:

None of the sample affected.

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

Yes No

Comments:

No.

- vii. Data quality or usability affected?

Yes No

Comments:

Data quality/usability was not affected.

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

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

Yes No

Comments:

Sample MW-304D-W-190710 MS was used as the MS/MSD analysis.

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

Yes No

Comments:

The MS/MSD analysis performed on sample MW-304D-W-190710 for method 8260C. The MS/MSD recoveries for compounds benzene, toluene, ethylbenzene, m-xylene & p-xylene and o-xylene exhibited recoveries lower than the lower control limits. The detected (J) and non-detected (UJ) compound results were qualified as estimated in sample MW-304D-W-190710.

The MSD recovery for compound Gasoline Range Organics (GRO)-C6-C10 was less than the control limit in sample MW-304D-W-190710. The Gasoline Range Organics (GRO)-C6-C10 result was non-detect in sample MW-304D-W-190710 and qualified as estimated (UJ).

- 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:

The RPD between MS/MSD for compound Gasoline Range Organics (GRO)-C6-C10 was exceeded the control limit in sample MW-304D-W-190710. This compound result was non-detect and qualified as estimated (UJ).

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

Yes No

Comments:

MW-304D-W-190710

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

Yes No

Comments:

Yes.

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

Yes No

Comments:

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

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:

Yes.

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

Yes No

Comments:

No.

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

Yes No

Comments:

Data quality/usability was not affected.

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

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

Yes No

Comments:

Yes.

ii. All results less than MDL?

Yes No

Comments:

Yes.

iii. If above MDL, what samples are affected?

Yes No

Comments:

None of the data affected.

iv. Data quality or usability affected?

Yes No

Comments:

Data quality/usability was not affected.

f. Field Duplicate

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

Yes No

Comments:

Yes.

ii. Submitted blind to lab?

Yes No

Comments:

BD-1-W-190710 was collected from MW-301D-W-190710.

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-190710.

i. If above MDL, what samples are affected?

Yes No Comments:

None of the samples were affected.

ii. Data quality or usability affected?

Data quality/usability was not affected.

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

a. Defined and appropriate?

Yes No Comments:

Yes.