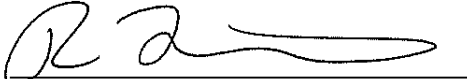


2017 Annual Groundwater Monitoring Report


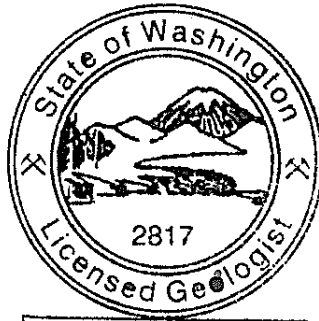
Former Shell-Branded Service Station
1349 Northwest State Avenue
Chehalis, Washington

July 18, 2018

2017 Annual Groundwater Monitoring Report
Former Shell-Branded Service Station
1349 Northwest State Avenue
Chehalis, Washington



Prepared by Rebecca Tortorello



Reviewed by Jeremy Haney, L.G.

JEREMY HANEY

Prepared for:

Washington Department of Ecology
3190 160th Ave Southeast
Bellevue, WA 98008

Shell Oil Products US
Soil and Groundwater Focus
Delivery Group – US Region

Prepared by:

AECOM
111 Southwest Columbia Street
Suite 1500
Portland, OR 97201
USA
aecom.com

Copyright © 2017 by AECOM

All rights reserved. No part of this copyrighted work may be reproduced, distributed, or transmitted in any form or by any means without the prior written permission of AECOM.

Table of Contents

1.	Introduction.....	1
2.	Site Description and Background.....	1
2.1	Site Information.....	1
2.2	Current Site Conditions.....	1
3.	Field Activities.....	1
3.1	Monitoring Well Gauging.....	1
3.2	Groundwater Sampling.....	2
3.3	Decontamination.....	2
3.4	Investigation Derived Waste.....	2
4.	Analytical Methods and Results.....	2
4.1	Laboratory Data Review.....	2
4.2	Analytical Methods.....	3
4.3	Results.....	3
5.	Conclusions.....	4
6.	Limitations.....	4
7.	References.....	4

Figures

Figure 1. Vicinity Map

Figure 2. Groundwater Contour and Chemical Concentration Map – March 7, 2017

Figure 3. Groundwater Contour and Chemical Concentration Map – June 9, 2017

Figure 4. Groundwater Contour and Chemical Concentration Map – September 7, 2017

Figure 5. Groundwater Contour and Chemical Concentration Map – December 27, 2017

Tables

Table 1. Summary of Groundwater Monitoring Data

Table 2. Groundwater Flow and Gradient Summary

Appendices

Appendix A. Groundwater Sampling Field Forms

Appendix B. Analytical Reports and Chains of Custody

List of Acronyms

BTEX	Benzene, toluene, ethylbenzene, and total xylenes
COC	Chain-of-custody
CUL	Cleanup Level
DIPE	Di-isopropyl ether
Ecology	State of Washington Department of Ecology
ETBE	Ethyl tertiary-butyl ether
EPA	Environmental Protection Agency
MDC	Maximum detected concentration
MTBE	Methyl tertiary-butyl ether
MTCA	Model Toxics Control Act
TAME	Tertiary-amyl methyl ether
TBA	Tertiary-butyl alcohol
TOC	Top of casing
TPH	Total petroleum hydrocarbons
TPH-D	Total petroleum hydrocarbons as diesel
TPH-G	Total petroleum hydrocarbons as gasoline
TPH-O	Total petroleum hydrocarbons as oil
UST	Underground storage tank
VOC	Volatile organic compounds
WAC	Washington Administrative Code
µg/L	micrograms per liter

1. Introduction

AECOM was retained by Equilon Enterprises LLC dba Shell Oil Products US (Shell) to prepare this *Annual Groundwater Monitoring Report* for the former Shell-branded service station located at 1349 Northwest State Avenue in Chehalis, Washington (the Site, Figure 1). This report summarizes groundwater gauging, sampling activities and analytical results associated with the 2017 groundwater monitoring period.

2. Site Description and Background

2.1 Site Information

Address:	1349 Northwest State Avenue Chehalis, Washington
Facility Site ID Number:	47829194
Clean-up Site ID Number:	9388

2.2 Current Site Conditions

The subject property is a former Shell-branded service station located on the southwest corner of the intersection of Northwest State Avenue and Northwest Maryland Avenue. The Site currently operates as a Mobil service station. Current facilities at the Site consist of a service station building, a fueling canopy, four fuel dispensers, and a small drive-up coffee shop. According to the State of Washington Department of Ecology's (Ecology) Underground Storage Tank (UST) Site and Tank Data Summary database, there are currently three 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST operating at the Site. Two tanks reportedly stored heating oil or used/waste oil at the Site and were removed by 1996.

Eleven groundwater monitoring wells (MW-1 through MW-11) are associated with the Site, as shown in Figures 2 through 5. Three monitoring wells (MW-12 through MW-14) were installed at the Site in November of 2017. Initial groundwater sampling of the newly installed wells occurred during the fourth quarter sampling event at the Site; however, the results and installation details will be discussed in a separate Remedial Investigation report.

3. Field Activities

This section describes the sample collection methods and observations during field activities. Field activities occurred on a quarterly basis and included groundwater gauging ten of the monitoring wells (MW-2 through MW-11) and sampling eight of the monitoring wells (MW-2, MW-4 through MW-6, and MW-8 through MW-11). Monitoring well MW-7 was inaccessible during the September monitoring event and was therefore not gauged during the event.

3.1 Monitoring Well Gauging

Prior to sampling, depth to groundwater was measured in the monitoring wells. Groundwater levels were measured from the monitoring well top of casing (TOC) using an electronic water level meter and recorded on the Well Gauging Data Form, which is included in Appendix A.

Groundwater elevations (Table 1) were calculated from the surveyed TOC elevations. Using the calculated groundwater elevations, a groundwater elevation contour map was prepared for the 2017

quarterly monitoring events, as shown on Figures 2 through 5. Based on available data, the groundwater flow direction across the Site during 2017 appears to be northwest. A summary of the 2017 groundwater flow direction and gradients is provided below.

Table 2. Groundwater Flow and Gradient Summary

Date	Flow Direction (estimated)	Horizontal Hydraulic Gradient (calculated)
March 7	Northwest	0.01
June 9	Northwest	0.02
September 7	Northwest	0.03
December 27	Northwest	0.05

3.2 Groundwater Sampling

Blaine Tech Services, Inc. (subcontractor to AECOM) collected groundwater samples using standard low-flow sampling techniques for each monitoring well. Low-flow sampling was accomplished using a peristaltic pump and disposable tubing for each monitoring well. The wells were purged prior to sampling at a rate of 0.1 liters per minute. Samples were collected from the new tubing into the appropriate laboratory-provided sample containers, tightly sealed, uniquely labeled, chilled in a cooler, and delivered under chain-of-custody (COC) procedures to TestAmerica Laboratory in Spokane, Washington.

Copies of the Groundwater Sampling Field Forms, which include the field-measured water quality parameters, are included in Appendix A. Copies of the COC forms are included in Appendix B.

3.3 Decontamination

The groundwater samples were collected using dedicated and single-use equipment as well as decontaminated clean, reusable equipment. Dedicated equipment included polyethylene tubing. Single-use sampling equipment included nitrile gloves and laboratory-provided sample containers. Reusable sampling equipment consisted of a water level meter and peristaltic pump. The water level meter was decontaminated prior to use at each well using a non-phosphate soap and deionized water solution and then rinsed with deionized water.

3.4 Investigation Derived Waste

Investigation derived waste included decontamination water and purge water generated during gauging and sampling activities. The water was disposed of in accordance to the Shell Residual Management Plan (Shell, 2015) at an approved waste disposal facility. Samples submitted to TestAmerica were used for waste characterization prior to disposal.

4. Analytical Methods and Results

This section discusses the analytical methods and results for the groundwater samples.

4.1 Laboratory Data Review

A laboratory data review was conducted to ensure sample integrity and data quality. The COC was reviewed to verify sample receipt temperatures were within an acceptable range, that no evident gaps were identified, and the correct analysis was requested per the scope of work. Verification of the time

between sample collection and sample extraction/digestion was evaluated based on the specific holding time for each analysis. Trip and laboratory blanks were evaluated and the case narrative reviewed to ensure that no significant issues occurred during the laboratory processes, including deviations from laboratory quality control parameters. Detection limits and /or dilutions were monitored to certify the laboratory reporting limits were less than the screening criteria and dilutions resulting in non-detect results were not greater than the screening criteria. The recovery data for laboratory control samples were evaluated to ensure that the percent recoveries were within the laboratory generated control limits including spikes, matrix spikes, duplicates, and surrogates. Where issues have been identified, laboratory data has been qualified as appropriate.

4.2 Analytical Methods

Groundwater samples were analyzed for the following:

- Total petroleum hydrocarbons (TPH) as gasoline (TPH-G) by Method NWTPH-Gx
- TPH as diesel (TPH-D) and TPH as oil (TPH-O) by Method NWTPH-Dx
 - Monitoring wells MW-2 and MW-11 were not analyzed for TPH-D and TPH-O
- Volatile organic compounds (VOCs) by Environmental Protection Agency (EPA) Method 8260C
 - Benzene, toluene, ethylbenzene, and total xylenes (BTEX)
 - Di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), methyl tertiary-butyl ether (MTBE), tertiary-amyl methyl ether (TAME), and tertiary-butyl alcohol (TBA) were analyzed during the September monitoring event only

4.3 Results

All groundwater analytical results were compared to Model Toxics Control Act (MTCA) Method A groundwater cleanup levels (CULs) from Washington Administrative Code (WAC) 173-340 (WAC, 2016). MTCA Method A CULs are not currently established for DIPE, ETBE, TAME, and TBA. Results for groundwater analytical data are summarized below and presented in Table 1. The laboratory analytical reports are included in Appendix B.

- DIPE, ETBE, MTBE, TAME, and TBA concentrations were reported as non-detect, or were detected below the respective MTCA Method A CULs in all monitoring wells sampled during the September monitoring event.
- Ethylbenzene, total xylenes, and TPH-O concentrations were reported as non-detect, or were detected below the respective MTCA Method A CULs in all monitoring wells sampled. The maximum detected concentrations (MDC) of ethylbenzene and total xylenes were 43.2 micrograms per liter ($\mu\text{g/L}$) and 334 $\mu\text{g/L}$, respectively, in monitoring well MW-2 during the December monitoring event. The MDC of TPH-O was an estimated 378 $\mu\text{g/L}$ in monitoring well MW-10 during the June monitoring event.
- Benzene, toluene, TPH-G and TPH-D concentrations were detected above the respective MTCA Method A CULs. The MDCs of toluene and TPH-G were 1,210 $\mu\text{g/L}$ and 3,390 $\mu\text{g/L}$, respectively, in monitoring well MW-2 during the June monitoring event. The MDCs of benzene and TPH-D were

562 µg/L in monitoring well MW-2 during the December monitoring event and 801 µg/L in monitoring well MW-5 during the September monitoring event, respectively.

5. Conclusions

The MDCs of benzene, toluene, TPH-G, and TPH-D exceeded the respective MTCA Method A CULs in one or more monitoring wells during the sampling events. Concentrations of ethylbenzene, total xylenes, DIPE, ETBE, MTBE, TAME, TBA, and TPH-O were reported as non-detect, or below the respective MTCA Method A CULs.

6. Limitations

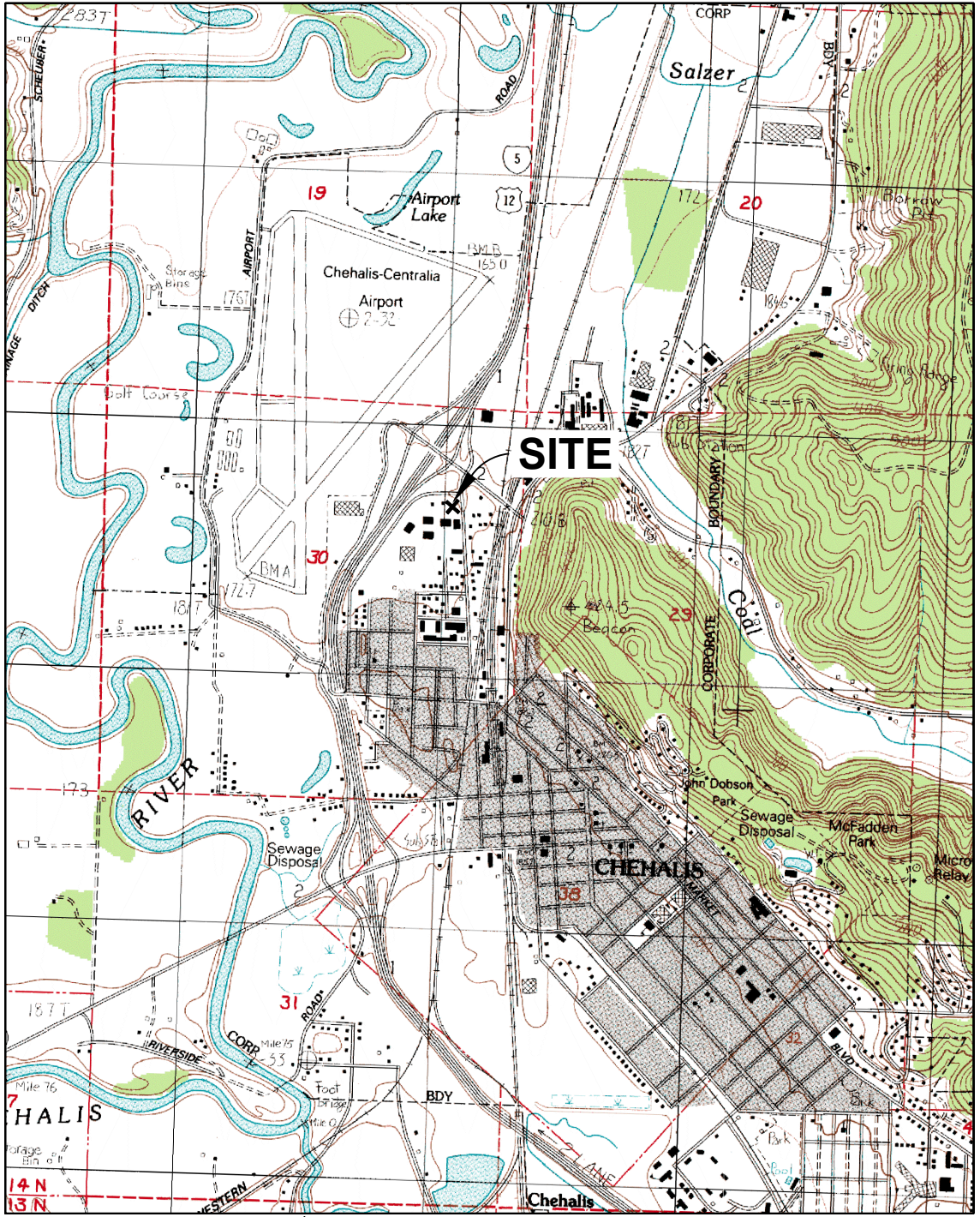
AECOM has prepared this Report for the sole use of Shell in accordance with the Agreement under which our services were performed. No other warranty, expressed or implied, is made as to the professional advice included in this Report or any other services provided by us. This Report may not be relied upon by any other party without the prior and express written agreement of AECOM. Unless otherwise stated in this Report, the assessments made assume that the Sites and facilities will continue to be used for their current purpose without significant change. The conclusions contained in this Report are based upon information provided by others and upon the assumption that all relevant information has been provided by those parties from whom it has been requested. Information obtained from third parties has not been independently verified by AECOM, unless otherwise stated in the Report.

7. References

Shell, 2015. Shell Oil Products US Residual Management Program: Version 1.2. June 1, 2015 revised on February 1, 2016.

WAC, 2016. Washington Administrative Code Table 720-1 Method A Cleanup Levels for Groundwater From Model Toxics Control Act Cleanup Regulation Chapter 173-340 WAC, 2016.

Figures



APPROXIMATE SCALE:
1:24,000

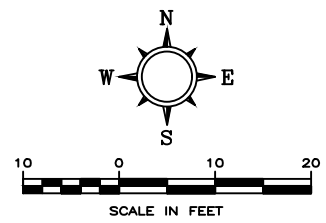
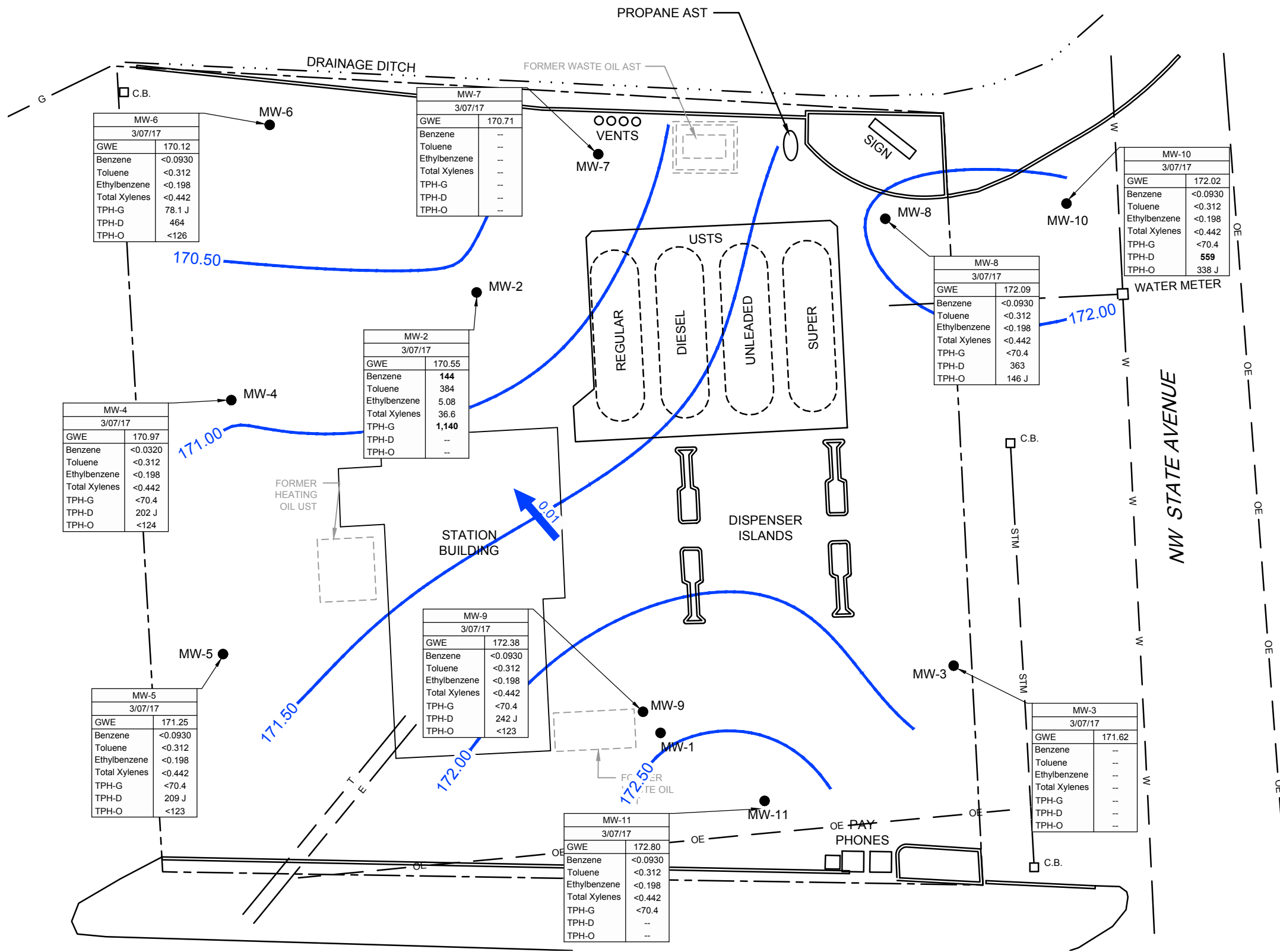
CENTRALIA, WASHINGTON USGS TOPOGRAPHIC 7.5' SERIES QUADRANGLE 1985.

VICINITY MAP

FORMER SHELL-BRANDED SERVICE STATION
1349 NORTHWEST STATE AVENUE
CHEHALIS, WASHINGTON

FIGURE 1





- LEGEND**
- APPROXIMATE PROPERTY BOUNDARY
 - MW-1 ● MONITORING WELL LOCATION
 - C.B. CATCH BASIN
 - OE --- OVERHEAD ELECTRIC LINE
 - G --- GAS LINE
 - T --- TELEPHONE LINE
 - W --- WATER LINE
 - STM --- STORMWATER LINE
 - 171.00— GROUNDWATER ELEVATION CONTOUR, IN FEET, REFERENCED TO AN ARBITRARY DATUM
 - 0.01 GROUNDWATER FLOW DIRECTION AND GRADIENT

- NOTES:**
- GWE = GROUNDWATER ELEVATION
 - TPH-G = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE
 - TPH-D = TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE
 - TPH-O = TOTAL PETROLEUM HYDROCARBONS AS OIL
 - -- = NOT SAMPLED
 - < = ANALYTE WAS NOT DETECTED AT OR ABOVE THE INDICATED LABORATORY REPORTING LIMIT
 - J = THE REPORTED VALUE IS ESTIMATED
 - ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L).

SOURCE:
 BASEMAP MODIFIED FROM DRAWING PROVIDED BY SECOR & STATEWIDE LAND SURVEYING INC. DATED 9/28/12.
 ORIGINAL FIGURE CREATED BY GHD.

NOTE:
 WASHINGTON STATE PLANE COORDINATE SYSTEM NAD 83/CORS 96
 EPOCH 2002.00, SOUTH ZONE 4602, IN U.S. SURVEY FEET.

GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP - MARCH 7, 2017

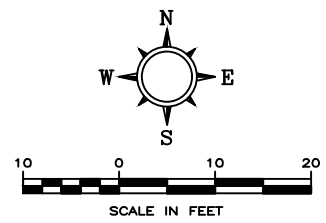
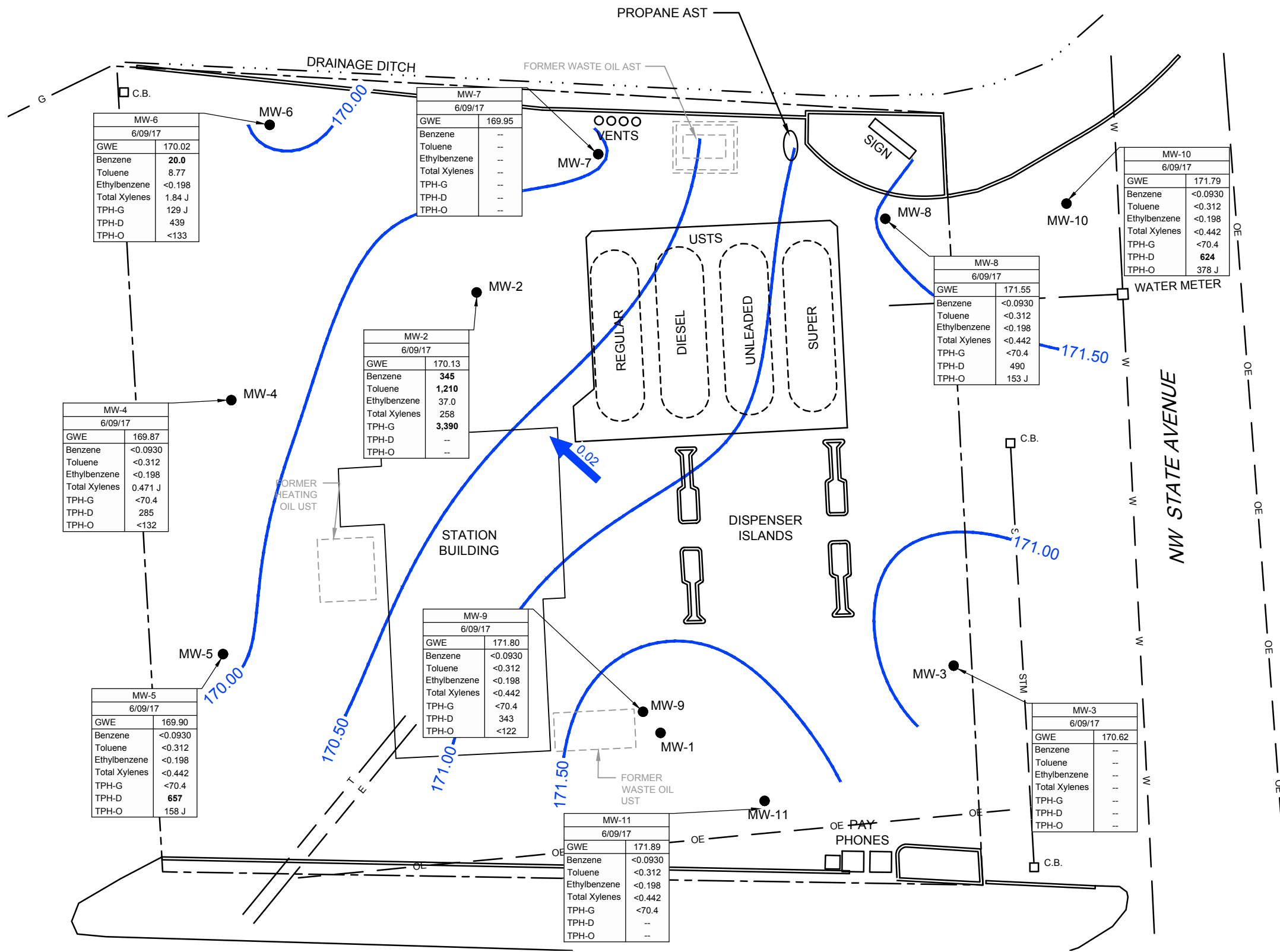
APRIL 2017
 60528005

FORMER SHELL-BRANDED SERVICE STATION
 1349 NORTHWEST STATE AVENUE
 CHEHALIS, WASHINGTON



FIGURE 2

C:\2521158_Shell\2017\1349_NW_State_Avenue\900-CAD_GIS\910_CAD\20-SHEETS\Fig 2 GW 1017.DWG Jun 14, 2018 - 8:02am



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW-1 ● MONITORING WELL LOCATION
- C.B. CATCH BASIN
- OE --- OVERHEAD ELECTRIC LINE
- G --- GAS LINE
- T --- TELEPHONE LINE
- W --- WATER LINE
- STM --- STORMWATER LINE
- 171.00 — GROUNDWATER ELEVATION CONTOUR, IN FEET, REFERENCED TO AN ARBITRARY DATUM
- 0.02 → GROUNDWATER FLOW DIRECTION AND GRADIENT

NOTES:

- GWE = GROUNDWATER ELEVATION
- TPH-G = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE
- TPH-D = TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE
- TPH-O = TOTAL PETROLEUM HYDROCARBONS AS OIL
- -- = NOT SAMPLED
- < = ANALYTE WAS NOT DETECTED AT OR ABOVE THE INDICATED LABORATORY REPORTING LIMIT
- J = THE REPORTED VALUE IS ESTIMATED
- ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L).

SOURCE:
 BASEMAP MODIFIED FROM DRAWING PROVIDED BY SECOR & STATEWIDE LAND SURVEYING INC. DATED 9/28/12.
 ORIGINAL FIGURE CREATED BY GHD.

NOTE:
 WASHINGTON STATE PLANE COORDINATE SYSTEM NAD 83/CORS 96
 EPOCH 2002.00, SOUTH ZONE 4602, IN U.S. SURVEY FEET.

GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP - JUNE 9, 2017

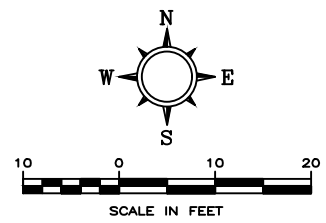
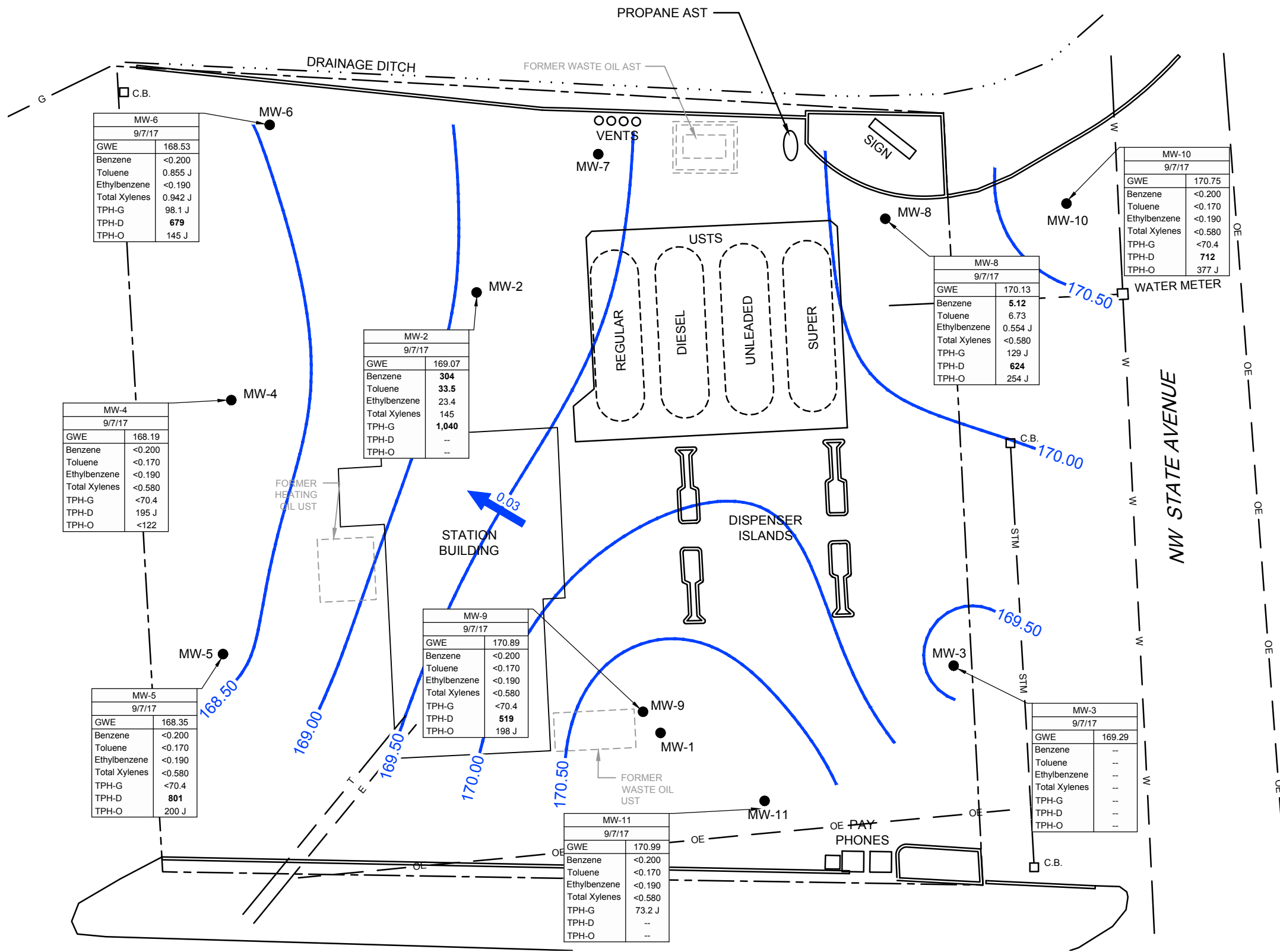
AUGUST 2017
 60528005

FORMER SHELL-BRANDED SERVICE STATION
 1349 NORTHWEST STATE AVENUE
 CHEHALIS, WASHINGTON



FIGURE 3

C:\2521158 Shell\2017\1349 NW State Avenue\900-CAD_GIS\910 CAD\20-SHEETS\Fig 3 GW 2017.DWG Jun 14, 2018 - 8:04am



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW-1 ● MONITORING WELL LOCATION
- C.B. CATCH BASIN
- OE — OVERHEAD ELECTRIC LINE
- G — GAS LINE
- T — TELEPHONE LINE
- W — WATER LINE
- STM — STORMWATER LINE
- 171.00— GROUNDWATER ELEVATION CONTOUR, IN FEET, REFERENCED TO AN ARBITRARY DATUM
- 0.03 GROUNDWATER FLOW DIRECTION AND GRADIENT

NOTES:

- GWE = GROUNDWATER ELEVATION
- TPH-G = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE
- TPH-D = TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE
- TPH-O = TOTAL PETROLEUM HYDROCARBONS AS OIL
- -- = NOT SAMPLED
- < = ANALYTE WAS NOT DETECTED AT OR ABOVE THE INDICATED LABORATORY REPORTING LIMIT
- J = THE REPORTED VALUE IS ESTIMATED
- ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L).
- MW-7 WAS UNABLE TO BE ACCESSED.

SOURCE:
 BASEMAP MODIFIED FROM DRAWING PROVIDED BY SECOR & STATEWIDE LAND SURVEYING INC. DATED 9/28/12.
 ORIGINAL FIGURE CREATED BY GHD.

NOTE:
 WASHINGTON STATE PLANE COORDINATE SYSTEM NAD 83/CORS 96
 EPOCH 2002.00, SOUTH ZONE 4602, IN U.S. SURVEY FEET.

GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP - SEPTEMBER 7, 2017

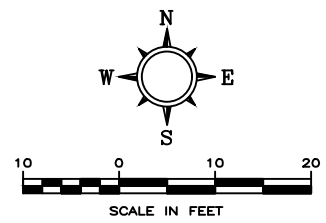
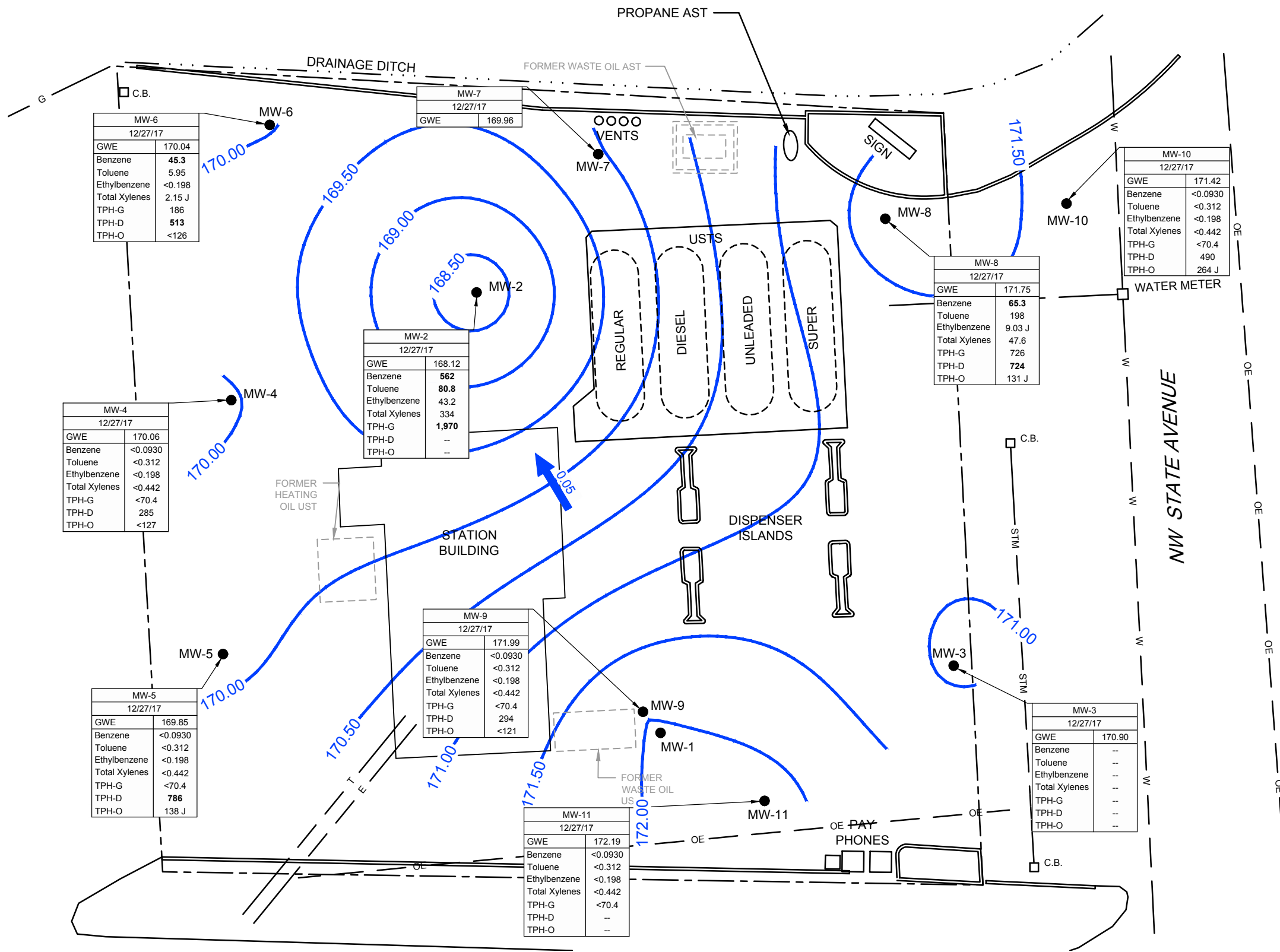
JANUARY 2018
 60528005

SHELL-BRANDED WHOLESALE FACILITY
 1349 NORTHWEST STATE AVENUE
 CHEHALIS, WASHINGTON



FIGURE 4

C:\2521158 Shell\2017\1349 NW State Avenue\900-CAD_GIS\910 CAD\20-SHEETS\Fig 4 GW 3017.DWG Jan 25, 2018 - 8:04am



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW-1 ● MONITORING WELL LOCATION
- C.B. CATCH BASIN
- OE --- OVERHEAD ELECTRIC LINE
- G --- GAS LINE
- T --- TELEPHONE LINE
- W --- WATER LINE
- STM --- STORMWATER LINE
- 171.00 — GROUNDWATER ELEVATION CONTOUR, IN FEET, REFERENCED TO AN ARBITRARY DATUM
- 0.05 → GROUNDWATER FLOW DIRECTION AND GRADIENT

NOTES:

- GWE = GROUNDWATER ELEVATION
- TPH-G = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE
- TPH-D = TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE
- TPH-O = TOTAL PETROLEUM HYDROCARBONS AS OIL
- -- = NOT SAMPLED
- < = ANALYTE WAS NOT DETECTED AT OR ABOVE THE INDICATED LABORATORY REPORTING LIMIT
- J = THE REPORTED VALUE IS ESTIMATED
- ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L).

CONSTRUCTION EQUIPMENT AND REPAIR

SOURCE:
 BASEMAP MODIFIED FROM DRAWING PROVIDED BY SECOR & STATEWIDE LAND SURVEYING INC. DATED 9/28/12.
 ORIGINAL FIGURE CREATED BY GHD.
 NOTE:
 WASHINGTON STATE PLANE COORDINATE SYSTEM NAD 83/CORS 96
 EPOCH 2002.00, SOUTH ZONE 4602, IN U.S. SURVEY FEET.

GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP - DECEMBER 27, 2017

JANUARY 2018
 60528005

SHELL-BRANDED WHOLESALE FACILITY
 1349 NORTHWEST STATE AVENUE
 CHEHALIS, WASHINGTON



FIGURE 5

C:\2521158 Shell\2017\1349 NW State Avenue\900-CAD_GIS\910 CAD\20-SHEETS\Fig 5 GW 4017.DWG Jan 25, 2018 - 9:34am

Tables

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-1	6/11/1994	179.36	8.90	170.46	<50	<250	---	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
MW-1	9/12/1995	179.36	9.48	169.88	<50	<250	---	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
MW-1	11/27/1995	179.36	6.81	172.55	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	2/20/1997	179.36	6.40	172.96	<50	<250	---	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
MW-1	5/20/1997	179.36	7.10	172.26	ND	878	ND	ND	0.9	ND	ND	---	---	---	---	---
MW-1	7/31/1997	179.36	7.79	171.57	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	8/20/1997	179.36	8.24	171.12	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---
MW-1	11/17/1997	179.36	8.20	171.16	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---
MW-1	2/19/1998	179.36	6.35	173.01	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---
MW-1	5/22/1998	179.36	7.16	172.20	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---
MW-1	8/26/1998	179.36	8.64	170.72	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---
MW-1	11/30/1998	179.36	6.67	172.69	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---
MW-1	4/23/1999	179.36	7.08	172.28	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	11/22/1999	179.36	8.56	170.80	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	5/22/2000	179.36	7.76	171.60	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	10/19/2000	179.36	9.10	170.26	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	5/9/2001	179.36	8.88	170.48	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	10/23/2001	179.36	10.03	169.33	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	7/22/2009*	179.36	8.61	170.75	<100	<100	<100	<0.5	<1.0	<1.0	<1.0	---	---	<1.0	---	---
MW-1	10/19/2009	179.36	9.39	169.97	<100	<100	<100	<0.5	<1.0	<1.0	<1.0	---	---	---	---	---
MW-1	1/6/2010	179.36	7.33	172.03	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	4/23/2010	179.36	7.21	172.15	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	7/23/2010	179.36	7.43	171.93	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	10/6/2010	179.36	8.60	170.76	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	1/11/2011	179.36	7.03	172.33	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	5/5/2011	179.36	7.14	172.22	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	8/1/2011	179.36	8.27	171.09	<100	<95.2	<238	<1.00	<1.00	<1.00	<3.00	---	---	<1.00	---	---
MW-1	11/4/2011	179.36	8.50	170.86	<100	<94.3	<236	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-1	1/10/2012	177.93	7.36	170.57	<100	<95.2	<238	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-2	6/11/1994	179.69	8.22	171.47	13,000	2.4	---	1,300	450	650	2,100	---	---	---	---	---
MW-2	9/12/1995	179.69	10.66	169.03	3,100	1,100	---	1,200	47	320	430	---	---	---	---	---
MW-2	11/27/1995	179.69	7.29	172.40	4,500	1,200	---	1,400	68	430	540	---	---	---	---	---
MW-2	2/20/1997	179.69	7.70	171.99	5,690	1,320	ND	842	36.8	474	598	---	---	---	---	---
MW-2	5/20/1997	179.69	8.45	171.24	5,210	ND	ND	488	24.7	395	644	---	---	---	---	---
MW-2	7/31/1997	179.69	8.36	171.33	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	8/20/1997	179.69	8.97	170.72	5,910	1,130	ND	330	18.6	301	472	---	---	---	---	---
MW-2	11/17/1997	179.69	8.44	171.25	4,740	916	ND	307	19.9	375	484	---	---	---	---	---
MW-2	2/19/1998	179.69	7.90	171.79	2,600	ND	ND	243	12.6	185	122	---	---	---	---	---
MW-2	5/22/1998	179.69	7.97	171.72	4,120	1,030	ND	197	13.1	266	363	---	---	---	---	---
MW-2	8/26/1998	179.69	9.26	170.43	3,180	766	ND	146	12	170	232	---	---	---	---	---
MW-2	11/30/1998	179.69	7.45	172.24	3,100	728	ND	144	11.8	162	240	---	---	---	---	---
MW-2	4/23/1999	179.69	8.08	171.61	2,080	---	---	84.9	6.46	86.2	99.1	---	---	---	---	---
MW-2	11/22/1999	179.69	9.19	170.50	1,780	---	---	98	5.94	16.5	64	---	---	---	---	---
MW-2	5/22/2000	179.69	8.76	170.93	1,530	---	---	76.5	4.74	31.3	49.6	---	---	---	---	---
MW-2	10/19/2000	179.69	11.21	168.48	96.5	---	---	1.41	0.695	1.89	<1.0	---	---	---	---	---
MW-2	5/9/2001	179.69	10.12	169.57	1,320	---	---	42.8	4.11	10.1	25.8	---	---	---	---	---
MW-2	10/23/2001	179.69	11.69	168.00	1,550	---	---	72.7	5.42	2.63	41.7	---	---	7.01	---	---
MW-2	8/20/2002	179.69	10.84	168.85	1,000	300	<500	44	2	2	18	---	---	---	---	---
MW-2	2/20/2003	179.69	9.15	170.54	1,400	<250	<500	76	3.8	<1	<1	---	---	3.4	---	---
MW-2	7/21/2003	179.69	10.24	169.45	760	370	<500	42	3.3	<1	11	---	---	13	---	---
MW-2	2/17/2004	179.69	8.73	170.96	910	<250	<500	31	3.7	<1	4.3	---	---	<1	---	---
MW-2	8/12/2004	179.69	10.84	168.85	740	660	<500	19	2.8	<1	9.7	---	---	4.3	---	---
MW-2	2/8/2005	179.69	9.75	169.94	920	<250	<500	22	3.8	<1	9.1	---	---	<1	---	---
MW-2	8/30/2005	179.69	10.90	168.79	840	270	<500	30	2.3	<1	9.3	---	---	---	---	---
MW-2	2/9/2006	179.69	6.96	172.73	575	<236	<472	9.71	1.82	0.755	3.89	---	---	---	---	---
MW-2	11/7/2006	179.69	11.16	168.53	796	618	171	9.84	3.15	<0.500	9.43	---	---	<5.00	---	---
MW-2	3/20/2007	179.69	9.36	170.33	626	632 a	<500	2.57	1.66	<0.500	<3.00	---	---	---	---	---
MW-2	6/18/2007	179.69	11.66	168.03	687	436 b	<500	2.39	1.86	<0.500	3.87	---	---	---	---	---
MW-2	9/20/2007	179.69	13.13	166.56	255	798 a	637	1.79	1.76	<0.500	5.12	---	---	---	---	---

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-2	12/3/2007	179.69	10.73	168.96	394	474 e,f	226	2.22	2.31	3.91	7.52	---	---	1.47	---	---
MW-2	2/27/2008	179.69	7.63	172.06	665	810	526	<0.500	<0.500	<0.500	<3.00	---	---	---	---	---
MW-2	7/22/2008	179.69	9.60	170.09	660	580	<100	0.26	1.3	<1.0	1.4	---	---	---	---	---
MW-2	10/2/2008	179.69	10.61	169.08	400	300	<100	<0.50	<1	<1	<1	---	---	1.5	---	---
MW-2	1/21/2009	179.69	7.45	172.24	300	350	<100	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-2	4/8/2009	179.69	8.28	171.41	370	350	110	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-2	7/22/2009	179.69	9.84	169.85	---	380	<100	---	---	---	---	---	---	2.3	---	---
MW-2	10/19/2009	179.69	10.50	169.19	270	130 h	<100	<0.5	<1.0	<1.0	<1.0	---	---	---	---	---
MW-2	1/6/2010	179.69	8.58	171.11	370	270 h	<100	<0.5	<1.0	<1.0	<1.0	---	---	---	---	---
MW-2	4/23/2010	179.69	8.44	171.25	220	400	170	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-2	7/2/2010	179.69	8.79	170.90	280 h	120 h	<100	<0.50	<1.0	<1.0	<1.0	---	---	<1.0	---	---
MW-2	10/6/2010	179.69	9.70	169.99	280 h	510 h	350 h	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-2	1/11/2011	179.69	8.60	171.09	179	248	<96.2	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-2	5/5/2011	179.69	8.11	171.58	134	146	<95.2	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-2	8/1/2011	179.69	9.30	170.39	220	260	<238	<1.00	<1.00	<1.00	<3.00	---	---	1.06	---	---
MW-2	11/4/2011	179.69	9.34	170.35	228	285	<238	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-2	1/10/2012	178.27	8.80	169.47	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	8/8/2012	178.27	8.51	169.76	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	1/10/2013	178.27	8.70	169.57	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	4/3/2013	178.27	8.01	170.26	188	244	379	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-2	9/16/2013	178.27	8.40	169.87	144	468 / 408	270 / 444	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	---	---
MW-2	12/18/2013	178.27	8.54	169.73	15,300	253 / 156	201 / 121	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-2	1/9/2014	178.27	8.35	169.92	184	293 / 419	428 / 344	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-2	3/4/2014	178.27	8.19	170.08	154	194 / 213	112 / 103	10.5	<1.00	<1.00	<3.00	---	---	---	---	---
MW-2	6/11/2014	178.27	7.93	170.34	177	231 / 221	95.7 / 118	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-2	8/28/2014	178.27	9.41	168.86	189	303	234	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	---	---
MW-2	12/8/2014	178.27	8.23	170.04	189	210	93.9	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-2	3/17/2015	178.27	7.65	170.62	183	---	---	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-2	6/8/2015	178.27	8.42	169.85	127	---	---	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-2	8/27/2015	178.27	10.21	168.06	131	---	---	<1.00	<1.00	<1.00	<3.00	<2.00	<1.00	<1.00	<1.00	30.30

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-2	12/22/2015	178.27	7.08	171.19	310	---	---	46.1	8.79	0.299 J	2.69 J	---	---	---	---	---
MW-2	3/22/2016	178.27	7.02	171.25	468	---	---	82.7	15.1	0.255 J	3.92	---	---	---	---	---
MW-2	6/1/2016	178.27	8.35	169.92	407	---	---	47.9	15.6	0.734 J	5.62	---	---	---	---	---
MW-2	9/23/2016	178.27	9.05	169.22	287	---	---	27.8	8.73	0.402 J	5.72	<0.170	4.28	0.705 J	<0.170	509
MW-2	12/16/2016	178.27	8.11	170.16	547	---	---	78.3	97.1	1.81 J	17.2	---	---	---	---	---
MW-2	3/7/2017	178.27	7.72	170.55	1,140	---	---	144	384	5.08	36.6	---	---	---	---	---
MW-2	6/9/2017	178.27	8.14	170.13	3,390	---	---	345	1,210	37.0	258	---	---	---	---	---
MW-2	9/7/2017	178.27	9.20	169.07	1,040	---	---	304	33.5	23.4	145	0.325 J	13.6	10.1	<0.170	1,060
MW-2	12/27/2017	178.27	10.15	168.12	1,970	---	---	562	80.8	43.2	334	---	---	---	---	---
MW-3	6/11/1994	179.45	9.34	170.11	<50	<250	---	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
MW-3	9/12/1995	179.45	9.34	170.11	<50	<250	---	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
MW-3	11/27/1995	179.45	6.62	172.83	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	2/20/1997	179.45	6.55	172.90	ND	548	ND	ND	ND	ND	ND	---	---	---	---	---
MW-3	5/20/1997	179.45	7.56	171.89	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---
MW-3	7/31/1997	179.45	7.77	171.68	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	8/20/1997	179.45	8.22	171.23	ND	290	ND	ND	ND	ND	ND	---	---	---	---	---
MW-3	11/17/1997	179.45	7.03	172.42	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---
MW-3	2/19/1998	179.45	6.55	172.90	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---
MW-3	5/22/1998	179.45	7.35	172.10	ND	299	ND	ND	ND	ND	ND	---	---	---	---	---
MW-3	8/26/1998	179.45	8.52	170.93	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---
MW-3	11/30/1998	179.45	6.68	172.77	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---
MW-3	4/23/1999	179.45	7.08	172.37	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	11/22/1999	179.45	8.06	171.39	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	5/22/2000	179.45	7.62	171.83	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	10/19/2000	179.45	9.17	170.28	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	5/9/2001	179.45	8.53	170.92	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	10/23/2001	179.45	9.72	169.73	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	8/20/2002	179.45	9.62	169.83	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	2/20/2003	179.45	7.57	171.88	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	7/21/2003	179.45	9.32	170.13	---	---	---	---	---	---	---	---	---	---	---	---

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-3	7/22/2009	179.45	8.60	170.85	<100	140	<100	<0.5	<1.0	<1.0	<1.0	---	---	<1.0	---	---
MW-3	10/19/2009	179.45	9.21	170.24	<100	<100	<100	<0.5	<1.0	<1.0	<1.0	---	---	---	---	---
MW-3	1/6/2010	179.45	7.39	172.06	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	4/23/2010	179.45	7.03	172.42	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	7/2/2010	179.45	7.40	172.05	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	10/6/2010	179.45	8.41	171.04	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	1/11/2011	179.45	7.00	172.45	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	5/5/2011	179.45	7.00	172.45	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	8/1/2011	179.45	8.21	171.24	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	11/4/2011	179.45	8.65	170.80	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	1/10/2012	178.03	7.22	170.81	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	8/8/2012	178.03	8.28	169.75	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	1/10/2013	178.03	6.60	171.43	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	4/3/2013	178.03	6.82	171.21	<100	<93.5	<93.5	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-3	9/16/2013	178.03	7.80	170.23	<100	176 / 155	122 / 302	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	---	---
MW-3	12/18/2013	178.03	7.11	170.92	<100	<94.3 / <94.3	<94.3 / 109	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-3	1/9/2014	178.03	7.33	170.70	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	3/4/2014	178.03	6.31	171.72	<100	<95.2 / <95.2	<95.2 / <95.2	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-3	6/11/2014	178.03	7.45	170.58	<100	<93.9 / <93.9	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-3	8/28/2014	178.03	8.63	169.40	<100	95.1	<93.9	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	---	---
MW-3	12/8/2014	178.03	7.27	170.76	<100	<93.9	114	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-3	3/17/2015	178.03	7.02	171.01	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	6/8/2015	178.03	6.89	171.14	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	8/27/2015	178.03	9.12	168.91	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/22/2015	178.03	6.20	171.83	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	3/22/2016	178.03	6.35	171.68	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	6/1/2016	178.03	7.92	170.11	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	9/23/2016	178.03	8.49	169.54	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/16/2016	178.03	6.74	171.29	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	3/7/2017	178.03	6.41	171.62	---	---	---	---	---	---	---	---	---	---	---	---

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-3	6/9/2017	178.03	7.41	170.62	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	9/7/2017	178.03	8.74	169.29	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/27/2017	178.03	7.13	170.90	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	9/12/1995	177.58	8.56	169.02	<50	<250	---	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
MW-4	11/27/1995	177.58	5.63	171.95	<50	490	---	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
MW-4	2/20/1997	177.58	4.65	172.93	55.5	938	ND	ND	ND	ND	ND	---	---	---	---	---
MW-4	5/20/1997	177.58	6.02	171.56	ND	1,090	ND	ND	ND	ND	ND	---	---	---	---	---
MW-4	7/31/1997	177.58	6.90	170.68	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	8/20/1997	177.58	7.35	170.23	ND	853	ND	ND	ND	ND	ND	---	---	---	---	---
MW-4	11/17/1997	177.58	6.07	171.51	73.9	628	ND	ND	ND	ND	ND	---	---	---	---	---
MW-4	2/19/1998	177.58	5.77	171.81	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---
MW-4	5/22/1998	177.58	6.52	171.06	ND	499	ND	ND	ND	ND	ND	---	---	---	---	---
MW-4	8/26/1998	177.58	7.66	169.92	ND	419	ND	ND	ND	ND	ND	---	---	---	---	---
MW-4	11/30/1998	177.58	5.80	171.78	51.4	537	ND	ND	ND	ND	ND	---	---	---	---	---
MW-4	4/23/1999	177.58	6.50	171.08	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	11/22/1999	177.58	7.43	170.15	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	5/22/2000	177.58	6.90	170.68	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	10/19/2000	177.58	8.47	169.11	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	5/9/2001	177.58	8.38	169.20	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	10/23/2001	177.58	9.37	168.21	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	8/20/2002	177.58	9.11	168.47	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	2/20/2003	177.58	6.98	170.60	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	7/21/2003	177.58	8.76	168.82	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	6/18/2007	177.58	7.71	169.87	<50.0	<250	<500	<0.500	<0.500	<0.500	<3.00	---	---	---	---	---
MW-4	9/20/2007	177.58	9.07	168.51	<50.0	1,060 a	869	<0.500	<0.500	<0.500	<3.00	---	---	---	---	---
MW-4	12/3/2007	177.58	7.13	170.45	<250	195	207 f,g	<1.00	<1.00	<1.00	<3.00	---	---	<1.00	---	---
MW-4	2/27/2008	177.58	4.46	173.12	69.0	636	480	<0.500	<0.500	<0.500	<3.00	---	---	---	---	---
MW-4	7/22/2008	177.58	7.82	169.76	<100	330	<100	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-4	10/2/2008	177.58	8.63	168.95	<100	150	<100	<0.50	<1	<1	<1	---	---	<1	---	---
MW-4	1/21/2009	177.58	5.24	172.34	<100	240	<100	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-4	4/8/2009	177.58	6.68	170.90	<100	300	<100	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-4	7/22/2009*, **	177.58	7.87	169.71	---	250	<100	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
MW-4	10/19/2009	177.58	8.59	168.99	<100	<100	<100	<0.5	<1.0	<1.0	<1.0	---	---	---	---	---
MW-4	1/6/2010	177.58	6.51	171.07	<100	230	<100	<0.5	<1.0	<1.0	<1.0	---	---	---	---	---
MW-4	4/23/2010	177.58	6.51	171.07	<100	290	140	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-4	7/2/2010	177.58	6.62	170.96	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	---	---	<1.0	---	---
MW-4	10/6/2010	177.58	7.89	169.69	<100	330 h	290 h	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-4	1/11/2011	177.58	6.14	171.44	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	5/5/2011	177.58	6.42	171.16	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	8/1/2011	177.58	7.51	170.07	<100	933	409	<1.00	<1.00	<1.00	<3.00	---	---	<1.00	---	---
MW-4	11/4/2011	177.58	7.73	169.85	<100	393	<240	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-4	1/10/2012	176.18	6.21	169.97	<100	687	617	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-4	8/8/2012	176.18	7.43	168.75	<100	805	485	<1.00	<1.00	<1.00	<3.00	---	---	<1.00	---	---
MW-4	1/10/2013	176.18	5.92	170.26	<100	454	<94.3	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-4	4/3/2013	176.18	6.23	169.95	<100	1,090	427	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-4	9/16/2013	176.18	7.02	169.16	<100	439 / 528	341 / 488	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	---	---
MW-4	12/18/2013	176.18	6.22	169.96	<100	291 / 562	241 / 444	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-4	1/9/2014	176.18	6.30	169.88	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	3/4/2014	176.18	5.18	171.00	<100	412 / 513	191 / 178	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-4	6/11/2014	176.18	6.44	169.74	<100	613 / 549	271 / 161	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-4	8/28/2014	176.18	7.81	168.37	<100	419	249	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	---	---
MW-4	12/8/2014	176.18	6.46	169.72	<100	149	<93.9	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-4	3/17/2015	176.18	5.95	170.23	<100	614	128	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-4	6/8/2015	176.18	6.95	169.23	<100	222	<94.3	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-4	8/27/2015	176.18	8.36	167.82	<100	318	<93.0	<1.00	<1.00	<1.00	<3.00	<2.00	<1.00	<1.00	<1.00	<10.0
MW-4	12/22/2015	176.18	4.88	171.30	<52.0	194 J	<380	<0.0320	<0.380	<0.0860	<0.0160	---	---	---	---	---
MW-4	3/22/2016	176.18	5.31	170.87	28.2 J	289	63.4 J	<0.0320	<0.0380	<0.0860	<0.0160	---	---	---	---	---
MW-4	6/1/2016	176.18	6.96	169.22	18.1 J	120 J	<60.9	<0.0930	<0.312	<0.198	<0.162	---	---	---	---	---
MW-4	9/23/2016	176.18	7.83	168.35	<17.8	121	<60.7	<0.200	<0.170	<0.190	<0.580	<0.170	<0.210	<0.170	<0.170	33.10
MW-4	12/16/2016	176.18	5.66	170.52	<17.8	102 J	<60.3	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-4	3/7/2017	176.18	5.21	170.97	<70.4	202 J	<124	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-4	6/9/2017	176.18	6.31	169.87	<70.4	285	<132	<0.0930	<0.312	<0.198	0.471 J	---	---	---	---	---
MW-4	9/7/2017	176.18	7.99	168.19	<70.4	195 J	<122	<0.200	<0.170	<0.190	<0.580	<0.170	<0.210	<0.170	<0.170	<3.90
MW-4	12/27/2017	176.18	6.12	170.06	<70.4	285	<127	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-5	9/12/1995	177.10	7.73	169.37	<50	<250	---	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
MW-5	11/27/1995	177.10	6.21	170.89	<50	<250	---	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
MW-5	2/20/1997	177.10	4.56	172.54	ND	1,540	ND	ND	ND	ND	ND	---	---	---	---	---
MW-5	5/20/1997	177.10	5.65	171.45	ND	2,610	ND	ND	ND	ND	ND	---	---	---	---	---
MW-5	7/31/1997	177.10	6.47	170.63	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	8/20/1997	177.10	6.93	170.17	ND	2,170	869	ND	ND	ND	ND	---	---	---	---	---
MW-5	11/17/1997	177.10	5.72	171.38	ND	2,270	854	ND	ND	ND	ND	---	---	---	---	---
MW-5	2/19/1998	177.10	5.33	171.77	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---
MW-5	5/22/1998	177.10	6.07	171.03	ND	2,420	ND	ND	ND	ND	ND	---	---	---	---	---
MW-5	8/26/1998	177.10	7.25	169.85	ND	1,360	ND	ND	ND	ND	ND	---	---	---	---	---
MW-5	11/30/1998	177.10	5.51	171.59	ND	2,460	771	ND	ND	ND	ND	---	---	---	---	---
MW-5	4/23/1999	177.10	5.39	171.71	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	11/22/1999	177.10	7.19	169.91	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	5/22/2000	177.10	6.14	170.96	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	10/19/2000	177.10	8.10	169.00	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	5/9/2001	177.10	7.77	169.33	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	10/23/2001	177.10	8.76	168.34	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	6/18/2007	177.10	7.28	169.82	<50.0	790 c	<500	<0.500	<0.500	<0.500	<3.00	---	---	---	---	---
MW-5	9/20/2007	177.10	8.82	168.28	<50.0	2,740 a	1,710	<0.500	<0.500	<0.500	<3.00	---	---	---	---	---
MW-5	12/3/2007	177.10	6.74	170.36	<250	1,160 e,f	1,020	<1.00	<1.00	<1.00	<3.00	---	---	<1.00	---	---
MW-5	2/27/2008	177.10	5.81	171.29	<50.0	3,800	2,310	3.86	2.41	<0.500	<0.500	---	---	---	---	---
MW-5	7/22/2008	177.10	7.23	169.87	<100	560	<100	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-5	10/2/2008	177.10	8.00	169.10	<100	400	<100	<0.50	<1	<1	<1	---	---	<1	---	---
MW-5	1/21/2009	177.10	4.74	172.36	<100	450	120	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-5	4/8/2009	177.10	5.83	171.27	<100	220	220	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-5	7/22/2009*, **	177.10	6.95	170.15	---	680	120	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-5	10/19/2009	177.10	8.14	168.96	<100	190	<100	<0.5	<1.0	<1.0	<1.0	---	---	---	---	---
MW-5	1/6/2010	177.10	5.53	171.57	<100	410	<100	<0.5	<1.0	<1.0	<1.0	---	---	---	---	---
MW-5	4/23/2010	177.10	5.26	171.84	<100	200	120	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-5	7/2/2010	177.10	5.62	171.48	<100	190 h	<100	<0.50	<1.0	<1.0	<1.0	---	---	<1.0	---	---
MW-5	10/6/2010	177.10	7.37	169.73	<100	900 h	340 h	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-5	1/11/2011	177.10	4.88	172.22	<100	245	124	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-5	5/5/2011	177.10	5.74	171.36	<100	251	<95.2	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-5	8/1/2011	177.10	6.92	170.18	<100	285	<238	<1.00	<1.00	<1.00	<3.00	---	---	<1.00	---	---
MW-5	11/4/2011	177.10	7.41	169.69	<100	183	<245	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-5	1/10/2012	175.65	6.04	169.61	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	8/8/2012	175.65	7.25	168.40	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	1/10/2013	175.65	5.22	170.43	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	4/3/2013	175.65	6.53	169.12	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	9/16/2013	175.65	6.90	168.75	<100	2,090 / 1,620	794 / 1,090	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	---	---
MW-5	12/18/2013	175.65	5.88	169.77	<100	1,370 / 1,580	652 / 936	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-5	1/9/2014	175.65	5.80	169.85	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	3/4/2014	175.65	5.34	170.31	<100	1,700 / 1,760	846 / 762	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-5	6/11/2014	175.65	5.91	169.74	<100	1,300 / 1,350	562 / 384	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-5	8/28/2014	175.65	6.99	168.66	<100	1,510	473	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	---	---
MW-5	12/8/2014	175.65	6.26	169.39	<100	1,130	334	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-5	3/17/2015	175.65	5.30	170.35	<100	794	<93.5	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-5	6/8/2015	175.65	6.65	169.00	<100	864	97.8	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-5	8/27/2015	175.65	7.59	168.06	<100	1060	196	<1.00	<1.00	<1.00	<3.00	<2.00	<1.00	<1.00	<1.00	<10.0
MW-5	12/22/2015	175.65	4.85	170.80	<52.0	830	<285	0.0758 J	<0.0380	<0.0860	0.267 J	---	---	---	---	---
MW-5	3/22/2016	175.65	4.45	171.20	<17.8	149	<60.3	<0.0320	<0.0380	<0.0860	<0.0160	---	---	---	---	---
MW-5	6/1/2016	175.65	6.16	169.49	18.8 J	568	116 J	<0.0930	<0.312	<0.198	<0.162	---	---	---	---	---
MW-5	9/23/2016	175.65	7.49	168.16	<17.8	621	85.8 J	<0.200	<0.170	<0.190	<0.580	<0.170	<0.210	<0.170	<0.170	<3.90
MW-5	12/16/2016	175.65	5.54	170.11	<17.8	680	131 J	<0.465	<1.56	<0.990	<2.21	---	---	---	---	---
MW-5	3/7/2017	175.65	4.40	171.25	<70.4	209 J	<123	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-5	6/9/2017	175.65	5.75	169.90	<70.4	657	158 J	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-5	9/7/2017	175.65	7.30	168.35	<70.4	801	200 J	<0.200	<0.170	<0.190	<0.580	<0.170	<0.210	<0.170	<0.170	<3.90
MW-5	12/27/2017	175.65	5.80	169.85	<70.4	786	138 J	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-6	11/27/1995	177.84	5.24	172.60	1,100	750	---	570	8.9	41	260	---	---	---	---	---
MW-6	2/20/1997	177.84	6.00	171.84	761	1,180	ND	333	6.17	15.5	56.9	---	---	---	---	---
MW-6	5/20/1997	177.84	5.93	171.91	2,140	884	ND	547	19.8	58.7	309	---	---	---	---	---
MW-6	7/31/1997	177.84	6.02	171.82	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	8/20/1997	177.84	6.33	171.51	1,620	1,170	ND	430	18.4	42.3	263	---	---	---	---	---
MW-6	11/17/1997	177.84	6.18	171.66	1,110	419	ND	291	13.9	23.2	195	---	---	---	---	---
MW-6	2/19/1998	177.84	6.00	171.84	692	ND	ND	114	11.8	12.4	87.2	---	---	---	---	---
MW-6	5/22/1998	177.84	6.27	171.57	1,290	1,040	ND	250	12	48.3	213	---	---	---	---	---
MW-6	8/26/1998	177.84	6.68	171.16	1,230	613	ND	231	13.4	35.3	180	---	---	---	---	---
MW-6	11/30/1998	177.84	5.10	172.74	575	879	ND	148	8.71	6.94	91.2	---	---	---	---	---
MW-6	4/23/1999	177.84	5.23	172.61	409	---	---	37.9	5.84	1.32	37.6	---	---	---	---	---
MW-6	11/22/1999	177.84	6.05	171.79	351	---	---	47.4	3.98	<0.5	18.2	---	---	---	---	---
MW-6	5/22/2000	177.84	6.32	171.52	644	---	---	47.8	7.59	3.98	27.7	---	---	---	---	---
MW-6	10/19/2000	177.84	8.02	169.82	1,410	---	---	86.7	5.7	3	42.7	---	---	---	---	---
MW-6	5/9/2001	177.84	6.92	170.92	725	---	---	61.3	6.03	4.46	32.7	---	---	---	---	---
MW-6	10/23/2001	177.84	8.94	168.90	387	---	---	6.23	5.10	<0.5	14	---	---	<0.5	---	---
MW-6	8/20/2002	177.84	8.62	169.22	600	300	<500	<1	4	<1	10	---	---	---	---	---
MW-6	2/20/2003	177.84	6.34	171.50	710	<250	<500	8.7	<1	<1	<1	---	---	16	---	---
MW-6	7/21/2003	177.84	8.17	169.67	430	350	<500	5.4	4	<1	7	---	---	6.2	---	---
MW-6	2/17/2004	177.84	6.37	171.47	410	360	<500	3.7	1.8	<1	1.8	---	---	2.6	---	---
MW-6	8/12/2004	177.84	7.74	170.10	410	640	<500	<1	2.9	<1	4.3	---	---	4.2	---	---
MW-6	2/8/2005	177.84	6.46	171.38	560	310	<500	2.4	3.2	<1	4.9	---	---	<1	---	---
MW-6	8/30/2005	177.84	7.51	170.33	450	370	<500	<1	2.3	<1	4.9	---	---	---	---	---
MW-6	2/9/2006	177.84	5.86	171.98	116	<236	<472	<0.5	0.548	<0.5	<1.0	---	---	---	---	---
MW-6	11/7/2006	177.84	5.00	172.84	284	468	208	<0.500	0.950	<0.500	<3.00	---	---	<5.00	---	---
MW-6	3/20/2007	177.84	4.22	173.62	278	1,030 a	677	<0.500	0.850	<0.500	<3.00	---	---	---	---	---
MW-6	6/18/2007	177.84	6.41	171.43	477	541 e	<485	<0.500	1.60	<0.500	<3.00	---	---	---	---	---
MW-6	9/20/2007	177.84	7.81	170.03	135	915 a	829	<0.500	1.43	<0.500	<3.00	---	---	---	---	---

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-6	12/3/2007	177.84	5.96	171.88	<250	498 e,f	441	<1.00	<1.00	<1.00	<3.00	---	---	1.13	---	---
MW-6	2/27/2008	177.84	6.31	171.53	<311	976	866	<0.500	0.820	0.590	<3.00	---	---	---	---	---
MW-6	7/22/2008	177.84	6.60	171.24	400	430	<100	<0.50	<1.0	<1.0	0.89	---	---	---	---	---
MW-6	10/2/2008	177.84	8.28	169.56	210	270	<100	<0.50	<1	<1	<1	---	---	1.9	---	---
MW-6	1/21/2009	177.84	5.79	172.05	130	300	<100	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-6	4/8/2009	177.84	6.15	171.69	250	160	170	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-6	7/22/2009	177.84	6.63	171.21	---	410	120	---	---	---	---	---	---	1.6	---	---
MW-6	10/19/2009	177.84	6.71	171.13	230	120 h	<100	<0.5	<1.0	<1.0	<1.0	---	---	---	---	---
MW-6	1/6/2010	177.84	6.29	171.55	290	450	150	<0.5	<1.0	<1.0	<1.0	---	---	---	---	---
MW-6	4/23/2010	177.84	6.23	171.61	150	180	<100	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-6	7/2/2010	177.84	6.33	171.51	200 h	<100	<100	<0.50	<1.0	<1.0	<1.0	---	---	<1.0	---	---
MW-6	10/6/2010	177.84	6.50	171.34	230 h	450 h	340 h	<0.50	<1.0	<1.0	1.2	---	---	---	---	---
MW-6	1/11/2011	177.84	6.25	171.59	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	5/5/2011	177.84	6.03	171.81	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	8/1/2011	177.84	6.69	171.15	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	11/4/2011	177.84	9.69	168.15	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	1/10/2012	176.43	6.40	170.03	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	8/8/2012	176.43	9.34	167.09	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	1/10/2013	176.43	6.05	170.38	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	4/3/2013	176.43	6.94	169.49	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	9/16/2013	176.43	6.60	169.83	165	526 / 555	251 / 230	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	---	---
MW-6	12/18/2013	176.43	6.32	170.11	208	414 / 298	178 / 340	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-6	1/9/2014	176.43	6.50	169.93	194	538 / 381	254 / <105	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-6	3/4/2014	176.43	6.25	170.18	<100	463 / 482	207 / 231	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-6	6/11/2014	176.43	6.32	170.11	143	360 / 277	111 / 196	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-6	8/28/2014	176.43	7.79	168.64	103	525	247	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	---	---
MW-6	12/8/2014	176.43	6.16	170.27	160	288	94.2	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-6	3/17/2015	176.43	6.01	170.42	131	402	<93.5	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-6	6/8/2015	176.43	6.42	170.01	117	215	<94.3	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-6	8/27/2015	176.43	8.51	167.92	<100	538	114	<1.00	<1.00	<1.00	<3.00	<2.00	<1.00	1.10	<1.00	29.80

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-6	12/22/2015	176.43	5.57	170.86	57.2 J	371	298 J	<0.0320	<0.0380	<0.0860	0.247 J	---	---	---	---	---
MW-6	3/22/2016	176.43	6.25	170.18	47.0 J	451	102 J	<0.0320	<0.0380	<0.0860	<0.0160	---	---	---	---	---
MW-6	6/1/2016	176.43	6.52	169.91	151	249	<60.5	2.09	1.07	<0.198	0.773 J	---	---	---	---	---
MW-6	9/23/2016	176.43	6.77	169.66	139	246	<60.7	<0.200	0.605 J	<0.190	1.03 J	<0.170	0.235 J	0.839 J	<0.170	416
MW-6	12/16/2016	176.43	5.76	170.67	27.0 J	248	60.6 J	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-6	3/7/2017	176.43	6.31	170.12	78.1 J	464	<126	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-6	6/9/2017	176.43	6.41	170.02	129 J	439	<133	20.0	8.77	<0.198	1.84 J	---	---	---	---	---
MW-6	9/7/2017	176.43	7.90	168.53	98.1 J	679	145 J	<0.200	0.855 J	<0.190	0.942 J	<0.170	3.13	1.67	<0.170	396
MW-6	12/27/2017	176.43	6.39	170.04	186	513	<126	45.3	5.95	<0.198	2.15 J	---	---	---	---	---
MW-7	11/27/1995	179.95	7.78	172.17	210	<250	---	7.7	2.1	6	38	---	---	---	---	---
MW-7	2/20/1997	179.95	8.00	171.95	2,920	1,090	ND	347	11.80	256	183	---	---	---	---	---
MW-7	5/20/1997	179.95	8.40	171.55	2,680	ND	ND	272	6.80	207	93.6	---	---	---	---	---
MW-7	7/31/1997	179.95	9.20	170.75	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	8/20/1997	179.95	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	11/17/1997	179.95	8.43	171.52	2,830	1,170	ND	138	5.82	178	158	---	---	---	---	---
MW-7	2/19/1998	179.95	8.00	171.95	2,370	ND	ND	151	7.75	169	86.4	---	---	---	---	---
MW-7	5/22/1998	179.95	8.87	171.08	1,670	818	ND	122	ND	135	55.4	---	---	---	---	---
MW-7	8/26/1998	179.95	10.01	169.94	2,270	718	ND	77	6.50	121	133	---	---	---	---	---
MW-7	11/30/1998	179.95	7.71	172.24	2,420	874	ND	111	6.41	199	155	---	---	---	---	---
MW-7	4/23/1999	179.95	8.46	171.49	1,330	---	---	85.6	3.02	134	17	---	---	---	---	---
MW-7	11/22/1999	179.95	9.64	170.31	214	---	---	1.11	<0.5	<0.5	<1.0	---	---	---	---	---
MW-7	5/22/2000	179.95	9.17	170.78	332	---	---	2.01	1.93	8	1.07	---	---	---	---	---
MW-7	10/19/2000	179.95	10.81	169.14	242	---	---	2.91	3.03	<0.5	8.71	---	---	---	---	---
MW-7	5/9/2001	179.95	10.39	169.56	441	---	---	6.52	1.98	21	2.41	---	---	---	---	---
MW-7	10/23/2001	179.95	11.48	168.47	811	---	---	33.3	2.26	44.9	8.61	---	---	---	---	---
MW-7	8/20/2002	179.95	11.35	168.60	1,000	<250	<500	17	<1	37	27	---	---	---	---	---
MW-7	2/20/2003	179.95	9.05	170.90	650	<250	<500	29	<1	<1	<1	---	---	3.8	---	---
MW-7	7/21/2003	179.95	11.02	168.93	470	<250	<500	5	<1	11	9	---	---	18	---	---
MW-7	2/17/2004	179.95	9.32	170.63	430	500	<500	1.8	<1	2	2.2	---	---	16	---	---
MW-7	8/12/2004	179.95	11.24	168.71	350	600	<500	<1	<1	3.6	3.1	---	---	13	---	---

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-7	2/8/2005	179.95	9.14	170.81	360	<250	<500	3.8	<1	<1	2	---	---	6	---	---
MW-7	8/30/2005	179.95	10.72	169.23	390	<250	<500	<1	<1	<1	4.4	---	---	---	---	---
MW-7	2/9/2006	179.95	7.33	172.62	361	236	<472	4.69	0.785	2.8	11.9	---	---	---	---	---
MW-7	11/7/2006	179.95	10.36	169.59	447	428	290	1.27	<0.500	<0.500	4.10	---	---	8.49	---	---
MW-7	3/20/2007	179.95	8.55	171.40	425	716 a	612	<0.500	<0.500	0.780	<3.00	---	---	---	---	---
MW-7	6/18/2007	179.95	10.17	169.78	315	364 d	<500	<0.500	<0.500	<0.500	<3.00	---	---	---	---	---
MW-7	9/20/2007	179.95	11.44	168.51	301	1,020 a	1,060	<0.500	<0.500	0.640	8.51	---	---	---	---	---
MW-7	12/3/2007	179.95	9.11	170.84	295	514 e,f	481	<1.00	<1.00	<1.00	4.15	---	---	5.86	---	---
MW-7	2/27/2008	179.95	9.09	170.86	266	760	758	0.600	<0.50	1.58	3	---	---	---	---	---
MW-7	7/22/2008	179.95	10.04	169.91	330	260	<100	<0.50	0.29	4.5	1.4	---	---	---	---	---
MW-7	10/2/2008	179.95	10.85	169.10	280	230	<100	<0.50	<1	<1	<1	---	---	5.9	---	---
MW-7	1/21/2009	179.95	7.75	172.20	<100	230	140	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-7	4/8/2009	179.95	8.50	171.45	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-7	7/22/2009	179.95	10.10	169.85	---	---	---	---	---	---	---	---	---	6.3	---	---
MW-7	10/19/2009	179.95	10.73	169.22	130	<100	<100	<0.5	<1.0	<1.0	<1.0	---	---	---	---	---
MW-7	1/6/2010	179.95	8.83	171.12	<100	300	140	0.75	<1.0	<1.0	<1.0	---	---	---	---	---
MW-7	4/23/2010	179.95	8.55	171.40	<100	120	<100	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-7	7/2/2010	179.95	8.90	171.05	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	---	---	3.6	---	---
MW-7	10/6/2010	179.95	9.94	170.01	<100	280 h	220 h	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---
MW-7	1/11/2011	179.95	8.69	171.26	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	5/5/2011	179.95	8.60	171.35	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	8/1/2011	179.95	9.73	170.22	<100	<98.0	<245	<1.00	<1.00	<1.00	<3.00	---	---	3.05	---	---
MW-7	11/4/2011	179.95	9.83	170.12	<100	114	<240	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-7	1/10/2012	178.50	8.64	169.86	<100	<96.2	266	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-7	8/8/2012	178.50	9.67	168.83	<100	141	162	<1.00	<1.00	<1.00	<3.00	---	---	3.64	---	---
MW-7	1/10/2013	178.50	8.00	170.50	<100	103	<100	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-7	4/3/2013	178.50	8.36	170.14	<100	108	127	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-7	9/16/2013	178.50	9.55	168.95	<100	409 / 408	427 / 424	<1.00	<1.00	<1.00	<2.00	---	---	2.00	---	---
MW-7	12/18/2013	178.50	8.68	169.82	<100	222 / 338	459 / 288	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-7	1/9/2014	178.50	8.60	169.90	<100	487 / 243	501 / 198	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-7	3/4/2014	178.50	8.53	169.97	<100	320 / 307	211 / 167	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-7	6/11/2014	178.50	8.71	169.79	<100	277 / 285	440 / 122	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-7	8/28/2014	178.50	10.13	168.37	<100	337	99.8	<1.00	<1.00	<1.00	<2.00	---	---	2.01	---	---
MW-7	12/8/2014	178.50	8.47	170.03	<100	275	226	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-7	3/17/2015	178.50	8.34	170.16	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	6/8/2015	178.50	8.51	169.99	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	8/27/2015	178.50	10.62	167.88	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	12/22/2015	178.50	7.18	171.32	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	3/22/2016	178.50	7.75	170.75	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	6/1/2016	178.50	9.32	169.18	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	9/23/2016	178.50	9.49	169.01	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	12/16/2016	178.50	8.22	170.28	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	3/7/2017	178.50	7.79	170.71	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	6/9/2017	178.50	8.55	169.95	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	9/7/2017	178.50	--	--	Unable to access.											
MW-7	12/27/2017	178.50	8.54	169.96	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	7/31/1997	180.28	6.92	173.36	77	554	---	2.51	2.4	1.2	4.18	---	---	---	---	---
MW-8	8/20/1997	180.28	7.00	173.28	ND	513	ND	2.76	1.75	ND	2.24	---	---	---	---	---
MW-8	11/17/1997	180.28	7.24	173.04	61	650	ND	4.37	1.68	0.53	3.56	---	---	---	---	---
MW-8	2/19/1998	180.28	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	5/22/1998	180.28	7.32	172.96	58.3	844	ND	ND	ND	ND	ND	---	---	---	---	---
MW-8	8/26/1998	180.28	8.95	171.33	ND	311	ND	ND	ND	ND	1.35	---	---	---	---	---
MW-8	11/30/1998	180.28	6.29	173.99	ND	402	ND	0.627	ND	ND	ND	---	---	---	---	---
MW-8	4/23/1999	180.28	5.02	175.26	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	11/22/1999	180.28	6.69	173.59	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	5/22/2000	180.28	7.08	173.20	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	10/19/2000	180.28	7.91	172.37	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	5/9/2001	180.28	7.46	172.82	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	10/23/2001	180.28	7.91	172.37	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	7/22/2009	180.28	8.25	172.03	<100	320	120	<0.5	<1.0	<1.0	<1.0	---	---	2.8	---	---

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-8	10/19/2009	180.28	7.98	172.30	<100	<100	<100	<0.5	<1.0	<1.0	<1.0	---	---	---	---	---
MW-8	1/6/2010	180.28	6.69	173.59	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	4/23/2010	180.28	7.00	173.28	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	7/2/2010	180.28	7.00	173.28	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	10/6/2010	180.28	7.43	172.85	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	1/11/2011	180.28	6.70	173.58	<100	832	655	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-8	5/5/2011	180.28	6.84	173.44	<100	544	304	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-8	8/1/2011	180.28	7.67	172.61	<100	654	<240	<1.00	<1.00	<1.00	<3.00	---	---	1.18	---	---
MW-8	11/4/2011	180.28	7.46	172.82	<100	1,160	848	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-8	1/10/2012	178.69	7.05	171.64	<100	837	734	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-8	8/8/2012	178.69	8.06	170.63	<100	1,050	680	<1.00	<1.00	<1.00	<3.00	---	---	1.24	---	---
MW-8	1/10/2013	178.69	6.40	172.29	<100	485	162	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-8	4/3/2013	178.69	6.91	171.78	<100	976	517	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-8	9/16/2013	178.69	7.10	171.59	<100	979 / 875	850 / 740	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	---	---
MW-8	12/18/2013	178.69	7.20	171.49	<100	698 / 844	504 / 807	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-8	1/9/2014	178.69	6.51	172.18	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	3/4/2014	178.69	6.47	172.22	<100	588 / 614	310 / 376	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-8	6/11/2014	178.69	7.42	171.27	<100	820 / 741	360 / 1420	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-8	8/28/2014	178.69	8.41	170.28	<100	1,080	615	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	---	---
MW-8	12/8/2014	178.69	6.85	171.84	<100	664	428	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-8	3/17/2015	178.69	6.70	171.99	<100	540	109	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-8	6/8/2015	178.69	7.41	171.28	<100	519	151	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-8	8/27/2015	178.69	8.46	170.23	<100	671	203	<1.00	<1.00	<1.00	<3.00	<2.00	<1.00	<1.00	<1.00	<10.0
MW-8	12/22/2015	178.69	6.03	172.66	<52.0	265	<294	<0.0320	<0.0380	<0.0860	<0.0160	---	---	---	---	---
MW-8	3/22/2016	178.69	6.59	172.10	<17.8	288	108 J	<0.0320	<0.0380	<0.0860	<0.0160	---	---	---	---	---
MW-8	6/1/2016	178.69	7.70	170.99	24.9 J	373	131 J	<0.0930	<0.312	<0.198	<0.162	---	---	---	---	---
MW-8	9/23/2016	178.69	7.79	170.90	<17.8	413	114 J	<0.200	<0.170	<0.190	<0.580	<0.170	<0.210	0.395 J	<0.170	31.6
MW-8	12/16/2016	178.69	6.59	172.10	30.6 J	298	99.4 J	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-8	3/7/2017	178.69	6.60	172.09	<70.4	363	146 J	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-8	6/9/2017	178.69	7.14	171.55	<70.4	490	153 J	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-8	9/7/2017	178.69	8.56	170.13	129 J	624	254 J	5.12	6.73	0.554 J	<0.580	<0.170	<0.210	0.454 J	<0.170	4.70 J
MW-8	12/27/2017	178.69	6.94	171.75	726	724	131 J	65.3	198	9.03 J	47.6	---	---	---	---	---
MW-9	8/8/2012	177.83	10.35	167.48	208	970	263	<1.00	<1.00	1.46	11.1	---	---	5.28	---	---
MW-9	1/10/2013	177.83	5.83	172.00	151	1,010	121	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-9	4/3/2013	177.83	5.91	171.92	<100	894	317	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-9	9/16/2013	177.83	8.01	169.82	<100	1,040 / 1150	776 / 917	<1.00	<1.00	<1.00	<2.00	---	---	4.06	---	---
MW-9	12/18/2013	177.83	6.05	171.78	<100	894 / 748	736 / 939	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-9	1/9/2014	177.83	6.25	171.58	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	3/4/2014	177.83	6.01	171.82	<100	1,100 / 1080	643 / 399	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-9	6/11/2014	177.83	6.17	171.66	<100	879 / 881	1,240 / 272	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-9	8/28/2014	177.83	7.11	170.72	<100	1,100	438	<1.00	<1.00	<1.00	<2.00	---	---	4.83	---	---
MW-9	12/8/2014	177.83	6.05	171.78	<100	688	206	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-9	3/17/2015	177.83	6.55	171.28	<100	746	141	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-9	6/8/2015	177.83	6.28	171.55	<100	900	217	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-9	8/27/2015	177.83	6.91	170.92	<100	691	185	<1.00	<1.00	<1.00	<3.00	<2.00	<1.00	3.56	<1.00	12.50
MW-9	12/22/2015	177.83	5.64	172.19	<52.0	667	<285	<0.0320	<0.0380	<0.0860	<0.0160	---	---	---	---	---
MW-9	3/22/2016	177.83	5.78	172.05	18.4 J	713	201 J	<0.0320	<0.0380	<0.0860	<0.0160	---	---	---	---	---
MW-9	6/1/2016	177.83	6.41	171.42	23.8 J	457	144 J	<0.0930	<0.312	<0.198	<0.162	---	---	---	---	---
MW-9	9/23/2016	177.83	6.09	171.74	<17.8	481	125 J	<0.200	<0.170	<0.190	<0.580	<0.170	<0.210	3.73	<0.170	14.1
MW-9	12/16/2016	177.83	5.01	172.82	<17.8	212	83.8 J	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-9	3/7/2017	177.83	5.45	172.38	<70.4	242 J	<123	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-9	6/9/2017	177.83	6.03	171.80	<70.4	343	<122	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-9	9/7/2017	177.83	6.94	170.89	<70.4	519	198 J	<0.200	<0.170	<0.190	<0.580	<0.170	<0.210	3.06	<0.170	5.66 J
MW-9	12/27/2017	177.83	5.84	171.99	<70.4	294	<121	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-10	9/12/2013	179.34	7.58	171.76	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	9/16/2013	179.34	8.50	170.84	<100	469 / 804	418 / 810	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	---	---
MW-10	12/18/2013	179.34	7.72	171.62	<100	1,100 / 1,220	1,600 / 1,600	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-10	1/9/2014	179.34	8.04	171.30	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	3/4/2014	179.34	7.21	172.13	<100	862 / 997	999 / 1,200	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-10	6/11/2014	179.34	7.64	171.70	<100	1,530 / 1,110	698 / 1,540	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-10	8/28/2014	179.34	8.61	170.73	<100	909	714	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	---	---
MW-10	12/8/2014	179.34	7.41	171.93	<100	930	730	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-10	3/17/2015	179.34	7.88	171.46	<100	---	---	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-10	6/8/2015	179.34	7.82	171.52	<100	667	329	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-10	8/27/2015	179.34	8.70	170.64	<100	166	103	<1.00	<1.00	<1.00	<3.00	<2.00	<1.00	<1.00	<1.00	<10.0
MW-10	12/22/2015	179.34	6.82	172.52	<52.0	672	400 J	<0.0320	<0.0380	<0.0860	<0.0160	---	---	---	---	---
MW-10	3/22/2016	179.34	7.11	172.23	<17.8	297	345	<0.0320	<0.0380	<0.0860	<0.0160	---	---	---	---	---
MW-10	6/1/2016	179.34	7.99	171.35	24.0 J	310	247	<0.0930	<0.312	<0.198	<0.162	---	---	---	---	---
MW-10	9/23/2016	179.34	8.21	171.13	<17.8	328	176 J	<0.200	<0.170	<0.190	<0.580	<0.170	<0.210	<0.170	<0.170	<3.90
MW-10	12/16/2016	179.34	6.87	172.47	<17.8	426	364	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-10	3/7/2017	179.34	7.32	172.02	<70.4	559	338 J	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-10	6/9/2017	179.34	7.55	171.79	<70.4	624	378 J	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-10	9/7/2017	179.34	8.59	170.75	<70.4	712	377 J	<0.200	<0.170	<0.190	<0.580	<0.170	<0.210	<0.170	<0.170	<3.90
MW-10	12/27/2017	179.34	7.92	171.42	<70.4	490	264 J	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-11	9/12/2013	177.70	5.33	172.37	---	---	---	---	---	---	---	---	---	---	---	---
MW-11	9/16/2013	177.70	5.10	172.60	2,910	1,110 / 844	1,120 / 693	<1.00	<1.00	1.05	<2.00	---	---	<1.00	---	---
MW-11	12/18/2013	177.70	5.76	171.94	<100	<94.3 / <94.3	512 / 543	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-11	1/9/2014	177.70	5.81	171.89	<100	<100 / 165	<100 / 154	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-11	3/4/2014	177.70	5.38	172.32	187	<93.5 / <93.5	<93.5 / <93.5	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-11	6/11/2014	177.70	5.98	171.72	<100	<93.9 / <93.9	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-11	8/28/2014	177.70	6.61	171.09	104	156	338	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	---	---
MW-11	12/8/2014	177.70	5.52	172.18	<100	<93.9	222	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-11	3/17/2015	177.70	4.92	172.78	<100	---	---	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---
MW-11	6/8/2015	177.70	6.01	171.69	<100	---	---	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---
MW-11	8/27/2015	177.70	6.42	171.28	<100	---	---	<1.00	<1.00	<1.00	<3.00	<2.00	<1.00	<1.00	<1.00	<10.0
MW-11	12/22/2015	177.70	4.70	173.00	<52.0	---	---	<0.0320	<0.0380	<0.0860	<0.0160	---	---	---	---	---
MW-11	3/22/2016	177.70	5.03	172.67	<17.8	---	---	<0.0320	<0.0380	<0.0860	<0.0160	---	---	---	---	---
MW-11	6/1/2016	177.70	6.24	171.46	<17.8	---	---	<0.0930	<0.312	<0.198	<0.162	---	---	---	---	---
MW-11	9/23/2016	177.70	5.31	172.39	<17.8	---	---	<0.200	<0.170	<0.190	<0.580	<0.170	<0.210	<0.170	<0.170	<3.90
MW-11	12/16/2016	177.70	5.05	172.65	<17.8	---	---	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---


Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Sample ID	Date	TOC (feet)	DTW (feet btoc)	GWE (feet)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	DIPE	ETBE	MTBE	TAME	TBA
MTCA Method A Cleanup Levels					800/1000 ¹	500	500	5	1000	700	1000	NE	NE	20	NE	NE
MW-11	3/7/2017	177.70	4.90	172.80	<70.4	---	---	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-11	6/9/2017	177.70	5.81	171.89	<70.4	---	---	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---
MW-11	9/7/2017	177.70	6.71	170.99	73.2 J	---	---	<0.200	<0.170	<0.190	<0.580	<0.170	<0.210	<0.170	<0.170	<3.90
MW-11	12/27/2017	177.70	5.51	172.19	<70.4	---	---	<0.0930	<0.312	<0.198	<0.442	---	---	---	---	---

Table 1
Summary of Groundwater Monitoring Data
Former Shell-Branded Retail Service Station
1349 Northwest State Avenue
Chehalis, Washington

Notes:

All concentrations are reported in micrograms per liter (µg/L)

 = Recent groundwater sampling events

Bold = Concentrations exceed the MTCA Method A Cleanup Levels

Bold Italicized = Non-detect laboratory reporting limit exceeds MTCA Method A Cleanup Levels

--- = Not analyzed

< = Analyte was not detected at or above the indicated laboratory reporting limit. Non-detects prior to October, 2015 are reported as "ND" or "< [laboratory method reporting limits]". Non-detects following October, 2015 are reported as "< [laboratory method detection limits]"

btoc = below top of casing

DIPE = di-isopropyl ether

DTW = depth to water

ETBE = ethyl tertiary-butyl ether

GWE = groundwater elevation

MTBE = methyl tertiary-butyl ether

MTCA = Model Toxics Control Act

ND = non-detect

NE = not established

TAME = tertiary-amyl methyl ether

TBA = tertiary-butanol

TOC = top of casing

TPH-D = total petroleum hydrocarbons

TPH-G = total petroleum hydrocarbons as gasoline

TPH-O = total petroleum hydrocarbons as oil

J = the sample result is an estimated concentration

¹ = Cleanup levels for TPH-g are 800 µ/L if benzene is present and is 1,000 µ/L benzene is non-detect

* indicates the samples were additionally analyzed for carcinogenic polycyclic aromatic hydrocarbons (cPAHs) analyzed by EPA Method 8270C-SIM and for Polychlorinated biphenyls (PCBs) analyzed by EPA Method 8082; all of these analyte concentrations were below the laboratory reporting limits, except 1-Methylnaphthalene and Naphthalene in the sample from MW-5 at concentrations of 0.20 µg/L and 0.24 µg/L, respectively.

** indicates the samples were additionally analyzed for Halogenated Volatile Organic Compounds (HVOCs) analyzed by EPA Method 8260B; of the HVOCs regulated by MTCA all analyte concentrations were below the laboratory reporting/method detection limits. Please refer to the lab report for concentrations of HVOCs not regulated by MTCA.

a = Results in the diesel organics range are primarily due to overlap from a heavy oil range product.

b = Hydrocarbon pattern most closely resembles heavy gas/light diesel range components

c = Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel or possibly biogenic interference.

d = Hydrocarbon pattern most closely resembles a blend of heavy gas/light diesel range components as well as heavily weathered diesel and/or biogenic interference.

e = The primary contamination elutes between C8-C40, which is in the diesel fuel range.

f = The contamination did not match any standards in our library.

g = The primary contamination elutes between C16-C40, which is in the motor oil range.

h = The sample chromatographic pattern for TPH does not match the specified standard. Quantitation of the unknown hydrocarbons was based on the specified standard.

Appendix A: Groundwater Sampling Field Forms

WELL GAUGING DATA

Project # 170307-CPI Date 3/7/17 Client AECOM

Site 1349 NW State St. Chehalis WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-2	0811	4					7.72	27.40		
MW-3	0837	4					6.41	27.91		
MW-4	0815	4					5.21	20.12		
MW-5	0818	4					4.40	20.01		
MW-6	0821	4					6.31	19.95		
MW-7	0824	4					7.79	20.20		
MW-8	0827	4					6.60	19.52		
MW-9	0807	2					5.45	14.45		
MW-10	0830	2					7.32	11.40		
MW-11	0834	2					4.90	9.23		

LOW FLOW WELL MONITORING DATA SHEET

Project #: 170307-CPI	Client: AECOM
Sampler: CP	Gauging Date: 3/7/17
Well I.D.: MW-2	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 27.40	Depth to Water (ft.): 7.72
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: VSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0919 Flow Rate: 100 mL/min Pump Depth: 10'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0925	9.76	6.66	564	18	2.08	-9.3	600	7.72
0928	9.76	6.66	559	11	1.62	-7.7	900	7.72
0931	9.78	6.67	555	10	1.67	-7.7	1200	7.72
0934	9.81	6.66	558	9	1.70	-7.9	1500	7.72
0937	9.83	6.66	557	9	1.73	-8.5	1800	7.72

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 1.8L
Sampling Time: 0938	Sampling Date: 3/7/17
Sample I.D.: GW-241795-030717-CP-MW-2	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.:	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170307-CPI</u>	Client: <u>AECOM</u>
Sampler: <u>CP</u>	Gauging Date: <u>3/7/17</u>
Well I.D.: <u>MW-4</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>20.12</u>	Depth to Water (ft.): <u>5.21</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	Flow Cell Type: <u>457556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0947 Flow Rate: 100 mL/min Pump Depth: 8

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0953	10.17	6.72	539	5	1.36	-63.2	600	5.25
0956	10.16	6.72	537	9	1.36	-69.1	900	5.25
0959	10.27	6.71	536	10	1.27	-73.2	1200	5.25
1002	10.30	6.72	536	9	1.22	-78.4	1500	5.25
1005	10.33	6.72	534	11	1.20	-81.1	1800	5.25

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1000</u>	Sampling Date: <u>3/7/17</u>
Sample I.D.: <u>GW-241795-030717-CP-MW-4</u>	Laboratory: <u>TA</u>
Analyzed for: TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH-D <input checked="" type="checkbox"/>	Other: <u>See loc</u>
Equipment Blank I.D.: _____ Time _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170307-CP1</u>	Client: <u>AEOM</u>
Sampler: <u>0</u>	Gauging Date: <u>3/7/17</u>
Well I.D.: <u>MW-5</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>20.01</u>	Depth to Water (ft.): <u>4.40</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VS556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1015 Flow Rate: 100 ml/min Pump Depth: 7'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1021	10.78	6.66	569	13	1.88	-75.5	600	4.44
1024	10.88	6.67	568	21	1.87	-79.3	900	4.44
1027	10.90	6.66	568	10	1.82	-80.4	1200	4.44
1030	10.95	6.66	568	9	1.92	-84.8	1500	4.44
1033	10.97	6.65	569	9	1.44	-85.2	1800	4.44

Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1034</u>	Sampling Date: <u>3/7/17</u>
Sample I.D.: <u>GW-24795-030717-EP-MW-5</u>	Laboratory: <u>TA</u>
Analyzed for: TPEL <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH <input checked="" type="checkbox"/>	Other: <u>See Coc</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170307-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>CP</u>	Gauging Date: <u>3/7/17</u>
Well I.D.: <u>MW-6</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>19.95</u>	Depth to Water (ft.): <u>6.31</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VST 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1045 Flow Rate: 100 mL/min Pump Depth: 9'

Time	Temp. (<input checked="" type="checkbox"/> °C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
<u>1051</u>	<u>11.48</u>	<u>6.72</u>	<u>728</u>	<u>3</u>	<u>1.42</u>	<u>-53.3</u>	<u>600</u>	<u>6.31</u>
<u>1054</u>	<u>11.56</u>	<u>6.73</u>	<u>733</u>	<u>3</u>	<u>1.75</u>	<u>-51.5</u>	<u>900</u>	<u>6.31</u>
<u>1057</u>	<u>11.61</u>	<u>6.73</u>	<u>734</u>	<u>2</u>	<u>1.54</u>	<u>-50.0</u>	<u>1200</u>	<u>6.31</u>
<u>1100</u>	<u>11.63</u>	<u>6.73</u>	<u>736</u>	<u>2</u>	<u>1.47</u>	<u>-50.0</u>	<u>1500</u>	<u>6.31</u>
<u>1103</u>	<u>11.66</u>	<u>6.73</u>	<u>739</u>	<u>2</u>	<u>1.40</u>	<u>-48.2</u>	<u>1800</u>	<u>6.31</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1104</u>	Sampling Date: <u>3/7/17</u>
Sample I.D.: <u>GW-241795-030717-CP-MW-6</u>	Laboratory: <u>TA</u>
Analyzed for: <input checked="" type="checkbox"/> TPH-G <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH-D	Other: <u>See COC</u>
Equipment Blank I.D.:	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170307-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>Q</u>	Gauging Date: <u>3/7/17</u>
Well I.D.: <u>MW-8</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>19.52</u>	Depth to Water (ft.): <u>6.60</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VIS56</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1115 Flow Rate: 100 mL/min Pump Depth: 9'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
<u>1121</u>	<u>10.88</u>	<u>6.77</u>	<u>807</u>	<u>3</u>	<u>3.72</u>	<u>-71.7</u>	<u>600</u>	<u>6.61</u>
<u>1124</u>	<u>10.87</u>	<u>6.77</u>	<u>810</u>	<u>3</u>	<u>3.73</u>	<u>-77.1</u>	<u>900</u>	<u>6.61</u>
<u>1127</u>	<u>10.91</u>	<u>6.77</u>	<u>811</u>	<u>3</u>	<u>3.75</u>	<u>-77.9</u>	<u>1200</u>	<u>6.61</u>
<u>1130</u>	<u>10.93</u>	<u>6.79</u>	<u>814</u>	<u>3</u>	<u>3.78</u>	<u>-78.5</u>	<u>1500</u>	<u>6.61</u>
<u>1133</u>	<u>10.95</u>	<u>6.79</u>	<u>812</u>	<u>3</u>	<u>3.77</u>	<u>-79.2</u>	<u>1800</u>	<u>6.61</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1134</u>	Sampling Date: <u>3/7/17</u>
Sample I.D.: <u>6W-241795-030717-CP-MW-8</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH-C</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u>	Other: <u>See COC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170307-CPI</u>	Client: <u>AECOM</u>
Sampler: <u>CP</u>	Gauging Date: <u>3/7/17</u>
Well I.D.: <u>MW-9</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>14.45</u>	Depth to Water (ft.): <u>5.45</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0853 Flow Rate: 100 mL/min Pump Depth: 8'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0859	10.30	6.51	695	24	3.88	-11.6	600	5.49
0902	10.30	6.53	660	25	1.33	-32.9	900	5.50
0905	10.36	6.54	684	22	1.21	-32.0	1200	5.50
0908	10.46	6.54	680	20	1.19	-29.1	1500	5.51
0911	10.42	6.56	672	21	1.16	-27.2	1800	5.51

Did well dewater? Yes No Amount actually evacuated: 1.8L

Sampling Time: 0912 Sampling Date: 3/7/17

Sample I.D.: GW-241795-030716-CP-MW-9 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170307-CPI</u>	Client: <u>AE CON</u>
Sampler: <u>CP</u>	Gauging Date: <u>3/7/17</u>
Well I.D.: <u>MW-10</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>11.40</u>	Depth to Water (ft.): <u>7.32</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1140 Flow Rate: 100 mL/min Pump Depth: 16' 9.5'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1146	9.47	6.83	816	19	3.27	-78.2	600	7.35
1149	9.44	6.83	819	24	3.31	-74.1	900	7.39
1152	9.43	6.84	822	22	3.33	-73.2	1200	7.41
1155	9.42	6.84	823	20	3.34	-72.9	1500	7.45
1158	9.40	6.84	826	19	3.33	-73.0	1800	7.48

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1200</u>	Sampling Date: <u>3/7/17</u>
Sample I.D.: <u>60-241795-070717-CP-MW-10</u>	Laboratory: <u>TA</u>
Analyzed for: TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH-D <input checked="" type="checkbox"/>	Other: <u>See COC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170307-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>CP</u>	Gauging Date: <u>3/7/17</u>
Well I.D.: <u>MW-11</u>	Well Diameter (in.): <u>Ø</u> 3 4 6 8 <u> </u>
Total Well Depth (ft.): <u>9.23</u>	Depth to Water (ft.): <u>4.90</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1205 Flow Rate: 100 mL/min Pump Depth: 7'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ML</u>)	Depth to Water (ft.)
1211	8.14	6.76	155	16	2.13	36.5	600	4.93
1214	8.16	6.62	153	11	1.95	38.5	900	4.94
1217	8.17	6.60	151	9	1.90	41.3	1200	4.94
1220	8.17	6.56	148	7	1.98	43.1	1500	4.94
1223	8.19	6.51	145	7	1.92	43.5	1800	4.95

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1224</u>	Sampling Date: <u>3/7/17</u>
Sample I.D.: <u>60-241795-030717-CP-MW-11</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u>	Other: <u>See COC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

WELL GAUGING DATA

Project # 170609-CPI Date 6/9/17 Client AECOM

Site 1349 NW State St. Chehalis WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-2	0855	4					8.14	27.37		
MW-3	0859	4					7.41	27.88		
MW-4	0848	4	odor				6.31	20.15		
MW-5	0845	4					5.75	19.99		
MW-6	0851	4					6.41	20.00		
MW-7	0842	4					8.55	20.10		
MW-8	0907	4					7.14	19.55		
MW-9	0924	2					6.03	14.40		
MW-10	0904	2					7.55	11.41		
MW-11	0836	2					5.81	9.25		

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170609-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>OP</u>	Gauging Date: <u>6/9/17</u>
Well I.D.: <u>MW-2</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>27.37</u>	Depth to Water (ft.): <u>8.14</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>FVO</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0950 Flow Rate: 100 ml/min Pump Depth: 11'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
<u>0956</u>	<u>15.07</u>	<u>6.38</u>	<u>565</u>	<u>7</u>	<u>0.90</u>	<u>41.5</u>	<u>600</u>	<u>8.20</u>
<u>0959</u>	<u>15.07</u>	<u>6.31</u>	<u>568</u>	<u>3</u>	<u>0.73</u>	<u>37.3</u>	<u>900</u>	<u>8.20</u>
<u>1002</u>	<u>15.11</u>	<u>6.29</u>	<u>568</u>	<u>2</u>	<u>0.69</u>	<u>36.5</u>	<u>1200</u>	<u>8.20</u>
<u>1005</u>	<u>15.11</u>	<u>6.28</u>	<u>569</u>	<u>2</u>	<u>0.67</u>	<u>36.2</u>	<u>1500</u>	<u>8.20</u>
<u>1008</u>	<u>15.14</u>	<u>6.26</u>	<u>572</u>	<u>2</u>	<u>0.63</u>	<u>32.4</u>	<u>1800</u>	<u>8.20</u>

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: <u>1.86</u>
Sampling Time: <u>1009</u>	Sampling Date: <u>6/9/17</u>
Sample I.D.: <u>6W-241795-060917-CP-MW-2</u>	Laboratory: <u>TA</u>
Analyzed for: <input checked="" type="checkbox"/> TPH-G <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH-L	Other: <u>See ca</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170609-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>BY</u>	Gauging Date: <u>6/9/17</u>
Well I.D.: <u>MW-4</u>	Well Diameter (in.): 2 3 4 6 8 <u> </u>
Total Well Depth (ft.): <u>20.15</u>	Depth to Water (ft.): <u>6.31</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	Flow Cell Type: <u>VSI 556</u>

Purge Method: 2" Grundfos Pump	Peristaltic Pump <input checked="" type="checkbox"/>	Bladder Pump
Sampling Method: Dedicated Tubing	New Tubing	Other <u> </u>
Start Purge Time: <u>1020</u>	Flow Rate: <u>100 mL/min</u>	Pump Depth: <u>9'</u>

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1026	15.61	6.18	636	2	0.79	52.7	600	6.36
1029	15.71	6.16	638	2	0.71	49.0	900	6.36
1032	15.82	6.15	639	2	0.67	42.7	1200	6.36
1035	15.80	6.14	640	2	0.69	40.5	1500	6.36
1038	15.72	6.15	642	2	0.67	38.1	1800	6.36

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1039</u>	Sampling Date: <u>6/9/17</u>
Sample I.D.: <u>GW-24/795-060917-CP-MW-4</u>	Laboratory: <u>TA</u>
Analyzed for: TPH-C <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH-D <input checked="" type="checkbox"/>	Other: <u>See COC</u>
Equipment Blank I.D.: <u> </u> @ <u> </u> Time	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170609-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>CV</u>	Gauging Date: <u>6/9/17</u>
Well I.D.: <u>MW-5</u>	Well Diameter (in.): 2 3 <u>(4)</u> 6 8
Total Well Depth (ft.): <u>19.99</u>	Depth to Water (ft.): <u>5.75</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	Flow Cell Type: <u>VSI 556</u>

Purge Method: 2" Grundfos Pump	Peristaltic Pump	Bladder Pump
Sampling Method: Dedicated <u>(C)</u> Tubing	New Tubing	Other _____
Start Purge Time: <u>1056</u>	Flow Rate: <u>100 ml/min</u>	Pump Depth: <u>8'</u>

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1102	16.42	6.39	796	11	0.79	18.5	600	5.78
1105	16.44	6.35	801	9	0.43	8.2	900	5.78
1108	16.36	6.34	803	7	0.79	6.1	1200	5.78
1111	16.29	6.34	802	5	0.38	5.3	1500	5.78
1114	16.21	6.74	803	5	0.40	3.3	1800	5.78

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1115</u>	Sampling Date: <u>6/9/17</u>
Sample I.D.: <u>GW-241795-060917-CP-MW-5</u>	Laboratory: <u>TA</u>
Analyzed for: <u>(C)</u> TPH-C <u>(C)</u> BTEX <u>(C)</u> MTBE <u>(C)</u> TPH-D	Other: <u>See COC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170609-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>W</u>	Gauging Date: <u>6/9/17</u>
Well I.D.: <u>MW-6</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>20.00</u>	Depth to Water (ft.): <u>6.41</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	Flow Cell Type: <u>VSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1122 Flow Rate: 100 mL/min Pump Depth: 9'

Time	Temp. (C or F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1128	15.85	7.13	585	19	1.21	-3.7	600	6.45
1131	15.78	7.11	585	16	1.00	-5.7	900	6.45
1134	15.78	7.08	584	12	0.79	-10.5	1200	6.45
1137	15.85	7.07	584	10	0.73	-13.6	1500	6.45
1140	15.87	7.07	584	9	0.68	-13.1	1800	6.45

Did well dewater? Yes No Amount actually evacuated: 1.8L

Sampling Time: 1141 Sampling Date: 6/9/17

Sample I.D.: GW-241795-060917-CP-MW-6 Laboratory: TA

Analyzed for: TPH-C BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170609-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>ey</u>	Gauging Date: <u>6/9/17</u>
Well I.D.: <u>MW-8</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>19.55</u>	Depth to Water (ft.): <u>7.14</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	Flow Cell Type: <u>VSI 556</u>

Purge Method: 2" Grundfos Pump	Peristaltic Pump <input checked="" type="checkbox"/>	Bladder Pump
Sampling Method: Dedicated Tubing	New Tubing	Other _____
Start Purge Time: <u>1152</u>	Flow Rate: <u>100 mL/min</u>	Pump Depth: <u>10'</u>

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
<u>1158</u>	<u>14.90</u>	<u>6.94</u>	<u>910</u>	<u>4</u>	<u>1.03</u>	<u>-21.3</u>	<u>600</u>	<u>7.17</u>
<u>1201</u>	<u>14.88</u>	<u>6.88</u>	<u>917</u>	<u>4</u>	<u>0.83</u>	<u>-24.8</u>	<u>900</u>	<u>7.17</u>
<u>1204</u>	<u>14.80</u>	<u>6.84</u>	<u>925</u>	<u>2</u>	<u>0.51</u>	<u>-26.1</u>	<u>1200</u>	<u>7.17</u>
<u>1207</u>	<u>14.72</u>	<u>6.83</u>	<u>932</u>	<u>2</u>	<u>0.50</u>	<u>-26.0</u>	<u>1500</u>	<u>7.17</u>
<u>1210</u>	<u>14.65</u>	<u>6.82</u>	<u>935</u>	<u>2</u>	<u>0.47</u>	<u>-25.2</u>	<u>1800</u>	<u>7.17</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1211</u>	Sampling Date: <u>6/9/17</u>
Sample I.D.: <u>GW-241795-060917-CP-MW-8</u>	Laboratory: <u>TA</u>
Analyzed for: TPH-C <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH-D <input checked="" type="checkbox"/>	Other: <u>See COC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170609-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>CV</u>	Gauging Date: <u>6/9/17</u>
Well I.D.: <u>MW-9</u>	Well Diameter (in.): <u>2</u> 3 4 6 8 _____
Total Well Depth (ft.): <u>14.40</u>	Depth to Water (ft.): <u>6.03</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>NO</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0925 Flow Rate: 100ml/min Pump Depth: 9'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0931	16.18	7.16	701	9	1.98	7.9	600	6.10
0934	16.12	7.11	711	7	1.16	3.7	900	6.12
0937	16.09	7.08	711	7	0.97	3.2	1200	6.15
0940	15.98	7.04	720	5	1.01	3.7	1500	6.19
0943	15.95	6.99	724	4	1.09	4.9	1800	6.23

Did well dewater? Yes No Amount actually evacuated: 1.8L

Sampling Time: 0944 Sampling Date: 6/9/17

Sample I.D.: 6W-241795-060917-CP-MW-9 Laboratory: TA

Analyzed for: TPH-C BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170609-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>ey</u>	Gauging Date: <u>6/9/17</u>
Well I.D.: <u>MW-10</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>11.41</u>	Depth to Water (ft.): <u>7.55</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	Flow Cell Type: <u>VSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1217 Flow Rate: 100 mL/min Pump Depth: 10'

Time	Temp. (C or F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1223	14.52	6.90	890	54	0.81	-39.3	600	7.61
1226	14.50	6.92	899	33	0.99	-56.0	900	7.67
1229	14.31	6.91	906	51	1.03	-57.5	1200	7.75
1232	14.27	6.90	907	55	1.08	-58.2	1500	7.80
1235	14.25	6.92	912	60	1.10	-58.9	1800	7.84

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1236</u>	Sampling Date: <u>6/9/17</u>
Sample I.D.: <u>GW-241795-060917-CP-MW-10</u>	Laboratory: <u>TA</u>
Analyzed for: <input checked="" type="checkbox"/> TPH-C <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH-D	Other: <u>See COC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170609-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>ey</u>	Gauging Date: <u>6/9/17</u>
Well I.D.: <u>MW-11</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>9.25</u>	Depth to Water (ft.): <u>5.81</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: <u>2" Grundfos Pump</u>	<input checked="" type="radio"/> Peristaltic Pump	<input type="radio"/> Bladder Pump
Sampling Method: <u>Dedicated Tubing</u>	<input type="radio"/> New Tubing	<input type="radio"/> Other _____
Start Purge Time: <u>1239</u>	Flow Rate: <u>100 mL/min</u>	Pump Depth: <u>7.5</u>

Time	Temp. (<input checked="" type="radio"/> C or <input type="radio"/> F)	pH	Cond. (mS/cm or <input checked="" type="radio"/> µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <input checked="" type="radio"/> mL)	Depth to Water (ft.)
1245	14.53	7.36	282	22	1.74	40.2	606	5.90
1248	14.60	7.11	279	11	1.49	31.9	900	5.92
1251	14.65	7.05	282	9	1.52	30.8	1200	5.94
1254	14.70	6.97	282	6	1.40	30.1	1500	5.97
1257	14.72	6.93	283	6	1.35	29.0	1800	5.99

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1258</u>	Sampling Date: <u>6/9/17</u>
Sample I.D.: <u>GW-241795-060917-CP-MW-11</u>	Laboratory: <u>TA</u>
Analyzed for: <input checked="" type="radio"/> TPH-C <input checked="" type="radio"/> BTEX <input type="radio"/> MTBE <input checked="" type="radio"/> TPH-D	Other: <u>See COC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

WELL GAUGING DATA

Project # 170907-091 Date 9/7/17 Client AECOM

Site 1349 NW State Ave Chehalis WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-2	0831	4					9.20	27.41		
MW-3	0824	4					8.74	27.95		
MW-4	0834	4					7.99	20.11		
MW-5	0838	4					7.30	20.03		
MW-6	0841	4					7.90	19.97		
MW-7	-	unable to access (Parked over)								
MW-8	0845	4					8.56	19.50		
MW-9	0827	2					6.94	14.50		
MW-10	0849	2					8.59	11.44		
MW-11	0854	2					6.71	9.28		

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170907-0P1</u>	Client: <u>AECOM</u>
Sampler: <u>OP</u>	Gauging Date: <u>9/7/17</u>
Well I.D.: <u>MW-2</u>	Well Diameter (in.): 2 3 <u>(4)</u> 6 8
Total Well Depth (ft.): <u>27.41</u>	Depth to Water (ft.): <u>9.20</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VTS16</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0932 Flow Rate: 100 ml/min Pump Depth: 12

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
0938	22.19	6.23	575	20	0.79	-56.4	600	9.24
0941	22.31	6.27	576	15	0.66	-57.1	900	9.24
0944	22.38	6.27	575	12	0.61	-58.0	1200	9.24
0947	22.41	6.28	575	9	0.57	-57.8	1500	9.24
0950	22.44	6.29	574	7	0.60	-57.5	1800	9.24

Did well dewater? Yes No Amount actually evacuated: 1.8L

Sampling Time: 0951 Sampling Date: 9/7/17

Sample I.D.: GW-241795-090717-0P-MW-2 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SeoCOC

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170907-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>Q</u>	Gauging Date: <u>9/7/17</u>
Well I.D.: <u>MW-4</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>20.11</u>	Depth to Water (ft.): <u>7.99</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0955 Flow Rate: 100 mL/min Pump Depth: 10.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1001	22.70	6.00	578	18	0.69	-39.0	600	8.05
1004	22.75	5.98	587	12	0.54	-38.5	900	8.05
1007	22.80	5.98	592	9	0.50	-38.7	1200	8.05
1010	22.82	5.98	595	8	0.48	-38.2	1500	8.05
1013	22.82	5.96	597	8	0.45	-37.9	1800	8.05

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1014</u>	Sampling Date: <u>9/7/17</u>
Sample I.D.: <u>6W-241795-090717-Q-MW-4</u>	Laboratory: <u>TA</u>
Analyzed for: TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH-D <input checked="" type="checkbox"/>	Other: <u>See COC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170907-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>CP</u>	Gauging Date: <u>9/7/17</u>
Well I.D.: <u>MW-5</u>	Well Diameter (in.): 2 3 <u>(4)</u> 6 8 _____
Total Well Depth (ft.): <u>20.03</u>	Depth to Water (ft.): <u>7.30</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	Flow Cell Type: <u>VSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1020 Flow Rate: 100 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1026	22.27	6.11	827	20	0.79	-59.1	600	7.35
1029	22.21	6.11	828	16	0.67	-54.0	900	7.35
1032	22.16	6.11	831	10	0.66	-55.2	1200	7.35
1035	22.10	6.10	834	5	0.63	-54.7	1500	7.35
1038	22.06	6.10	834	5	0.60	-54.5	1800	7.35

Did well dewater? Yes No Amount actually evacuated: 1.8L

Sampling Time: 1039 Sampling Date: 9/7/17

Sample I.D.: GW-241795-090717-CP-MW-5 Laboratory: TA

Analyzed for: TPH BTEX MTBE THD Other: Se2 COC

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170907-CPI</u>	Client: <u>AECOM</u>
Sampler: <u>CP</u>	Gauging Date: <u>9/7/17</u>
Well I.D.: <u>MW-6</u>	Well Diameter (in.): 2 3 <u>(4)</u> 6 8
Total Well Depth (ft.): <u>19.97</u>	Depth to Water (ft.): <u>7.90</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>VST 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1047 Flow Rate: 100 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
<u>1053</u>	<u>23.66</u>	<u>6.33</u>	<u>730</u>	<u>12</u>	<u>0.51</u>	<u>-47.6</u>	<u>600</u>	<u>7.96</u>
<u>1056</u>	<u>23.71</u>	<u>6.32</u>	<u>737</u>	<u>9</u>	<u>0.40</u>	<u>-48.5</u>	<u>900</u>	<u>7.96</u>
<u>1059</u>	<u>23.76</u>	<u>6.32</u>	<u>739</u>	<u>5</u>	<u>0.38</u>	<u>-48.8</u>	<u>1200</u>	<u>7.96</u>
<u>1102</u>	<u>23.80</u>	<u>6.32</u>	<u>740</u>	<u>3</u>	<u>0.36</u>	<u>-49.2</u>	<u>1500</u>	<u>7.96</u>
<u>1105</u>	<u>23.84</u>	<u>6.33</u>	<u>740</u>	<u>3</u>	<u>0.35</u>	<u>-50.3</u>	<u>1800</u>	<u>7.96</u>

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1106</u>	Sampling Date: <u>9/7/17</u>
Sample I.D.: <u>6W-241795-090717-CP-MW-6</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH-C</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u>	Other: <u>See COC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170907-CPI</u>	Client: <u>AECOM</u>
Sampler: <u>CP</u>	Gauging Date: <u>9/7/17</u>
Well I.D.: <u>MW-8</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>19.50</u>	Depth to Water (ft.): <u>8.56</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>4 SF 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1119 Flow Rate: 100 mL/min Pump Depth: 11'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1125	21.41	6.20	771	12	0.60	-59.4	600	8.60
1128	21.44	6.23	776	10	0.51	-63.8	900	8.60
1131	21.50	6.25	781	7	0.44	-65.9	1200	8.60
1134	21.53	6.27	782	6	0.41	-66.8	1500	8.60
1137	21.57	6.28	782	4	0.40	-61.9	1800	8.60

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1138</u>	Sampling Date: <u>9/7/17</u>
Sample I.D.: <u>6W-241795-090717-CP-MW-8</u>	Laboratory: <u>TA</u>
Analyzed for: TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPHD <input checked="" type="checkbox"/>	Other: <u>See ca</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170907-CPI</u>	Client: <u>AECOM</u>
Sampler: <u>q</u>	Gauging Date: <u>9/7/17</u>
Well I.D.: <u>MW-9</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>14.50</u>	Depth to Water (ft.): <u>6.94</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VISI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0905 Flow Rate: 100 mL/min Pump Depth: 9

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0911	22.78	6.31	924	27	0.90	-85.2	600	7.01
0914	22.69	6.30	953	19	0.78	-104.5	900	7.01
0917	22.63	6.32	952	15	0.70	-107.4	1200	7.01
0920	22.70	6.34	950	12	0.68	-108.9	1500	7.01
0923	22.72	6.35	945	10	0.67	-109.7	1800	7.01

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>0924</u>	Sampling Date: <u>9/7/17</u>
Sample I.D.: <u>GW-241795-090717-CPI-MW-9</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPHD</u>	Other: <u>See ROC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>170907-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>CI</u>	Gauging Date: <u>9/7/17</u>
Well I.D.: <u>MW-10</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>11.44</u>	Depth to Water (ft.): <u>8.59</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1144 Flow Rate: 100 ml/min Pump Depth: ~~10.5~~ 10'

Time	Temp. °C or °F	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1150	22.37	6.47	838	61	0.85	-87.1	600	8.64
1153	22.04	6.46	836	45	0.44	-90.3	900	8.69
1156	21.97	6.47	837	37	0.42	-87.5	1200	8.73
1159	21.92	6.47	840	32	0.39	-89.1	1500	8.79
1202	21.90	6.48	842	28	0.37	-90.3	1800	8.83

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1203</u>	Sampling Date: <u>9/7/17</u>
Sample I.D.: <u>GW-241745-090717-CP-MW-10</u>	Laboratory: <u>TA</u>
Analyzed for: <input checked="" type="checkbox"/> TPH-G <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPHD	Other: <u>See ROC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 170907. CP1	Client: AECOM
Sampler: CP	Gauging Date: 9/7/17
Well I.D.: MW-11	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): 9.28	Depth to Water (ft.): 6.71
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>Y5I556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Piping New Tubing Other _____
 Start Purge Time: 1209 Flow Rate: 100 mL/min Pump Depth: 8'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1215	22.60	6.00	261	43	0.59	8.1	600	6.75
1218	22.63	5.99	261	22	0.54	8.0	900	6.78
1221	22.61	5.98	261	17	0.48	6.1	1200	6.82
1224	22.62	5.98	261	12	0.46	5.0	1500	6.88
1227	22.62	5.98	260	9	0.45	4.0	1800	6.92

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 1.8L
Sampling Time: 1228	Sampling Date: 9/7/17
Sample I.D.: GW-24175-090717-CP-MW-11	Laboratory: TA
Analyzed for: TPH-C <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE TPH-D Other: See COC	
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

WELL GAUGING DATA

Project # 171227-CPI Date 12/27/17 Client AECOM

Site 1349 NW State St. Chehalis WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <u>OC</u>	Notes
MW-2	0707	4	odor				10.15	27.37		
MW-3	0653	4					7.13	27.92		
MW-4	0712	4					6.12	20.15		
MW-5	0718	4					5.80	20.06		
MW-6	0724	4	odor				6.39	19.92		
MW-7	0745	4					8.54	20.35		
MW-8	0729	4					6.94	19.51		
MW-9	0700	2					5.84	14.53		
MW-10	0735	2					7.92	11.40		
MW-11	0742	2					5.51	9.30		
MW-12	0747	2					4.59	15.03		
MW-13	0751	2					4.03	14.68		
MW-14	0757	2					5.94	14.89		

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>17-227-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>CP</u>	Gauging Date: <u>12/27/17</u>
Well I.D.: <u>MW-2</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth (ft.): <u>27.37</u>	Depth to Water (ft.): <u>10.15</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(VC)</u> Grade	Flow Cell Type: <u>VSE 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0850 Flow Rate: 100 ml/min Pump Depth: 17'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
<u>0856</u>	<u>11.77</u>	<u>6.69</u>	<u>592</u>	<u>27</u>	<u>2.06</u>	<u>218.8</u>	<u>600</u>	<u>10.21</u>
<u>0859</u>	<u>11.71</u>	<u>6.64</u>	<u>591</u>	<u>17</u>	<u>2.19</u>	<u>210.3</u>	<u>900</u>	<u>10.21</u>
<u>0902</u>	<u>12.01</u>	<u>6.57</u>	<u>589</u>	<u>15</u>	<u>1.64</u>	<u>200.8</u>	<u>1200</u>	<u>10.21</u>
<u>0905</u>	<u>12.08</u>	<u>6.52</u>	<u>589</u>	<u>12</u>	<u>1.68</u>	<u>194.7</u>	<u>1500</u>	<u>10.21</u>
<u>0908</u>	<u>12.11</u>	<u>6.50</u>	<u>587</u>	<u>10</u>	<u>1.67</u>	<u>191.1</u>	<u>1800</u>	<u>10.21</u>

Did well dewater? Yes No Amount actually evacuated: 1.8L

Sampling Time: 0910 Sampling Date: 12/27/17

Sample I.D.: CW-241745-122717-CP-MW-2 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>171227-CPI</u>	Client: <u>AECOM</u>
Sampler: <u>OP</u>	Gauging Date: <u>12/27/17</u>
Well I.D.: <u>MW-4</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>20.15</u>	Depth to Water (ft.): <u>6.12</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VS2556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____

Start Purge Time: 0918 Flow Rate: 100 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0924	11.19	6.27	626	12	2.77	239.6	600	6.15
0927	11.23	6.29	635	9	2.76	240.3	900	6.19
0930	11.35	6.28	638	7	2.62	237.9	1200	6.21
0933	11.39	6.28	639	6	2.60	237.3	1500	6.25
0936	11.36	6.29	643	6	2.66	236.5	1800	6.28

Did well dewater? Yes Amount actually evacuated: 6.8L

Sampling Time: 0938 Sampling Date: ~~12/28~~ 12/27/17

Sample I.D.: GW-241795-122717-OP-MW-4 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>171227-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>CP</u>	Gauging Date: <u>12/27/17</u>
Well I.D.: <u>MW-5</u>	Well Diameter (in.): 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth (ft.): <u>20.06</u>	Depth to Water (ft.): <u>5.80</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0945 Flow Rate: 100 mL/min Pump Depth: 8'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0951	13.35	5.77	841	12	3.17	190.1	600	5.85
0954	13.49	5.79	842	12	2.77	180.5	900	5.85
0957	13.60	5.79	842	11	2.36	173.1	1200	5.85
1000	13.67	5.81	844	11	2.31	169.2	1500	5.85
1003	13.70	5.83	844	10	2.29	167.9	1800	5.85

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1004</u>	Sampling Date: <u>12/27/17</u>
Sample I.D.: <u>GW-241795-122717-CP-MW-5</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u>	Other: <u>See COC</u>
Equipment Blank I.D.: <u> </u> @ <u> </u> Time	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>171227-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>Q</u>	Gauging Date: <u>12/27/17</u>
Well I.D.: <u>MW-6</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>19.92</u>	Depth to Water (ft.): <u>6.39</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>457556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Q Other _____
 Start Purge Time: 1149 Flow Rate: 100 mL/min Pump Depth: 9'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1155	12.47	6.46	665	14	3.21	202.9	600	6.51
1158	12.57	6.47	666	10	2.71	192.4	900	6.51
1201	12.55	6.51	670	9	1.91	187.3	1200	6.51
1204	12.57	6.52	671	7	1.99	186.0	1500	6.51
1207	12.61	6.54	672	7	1.98	182.9	1800	6.51

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1209</u>	Sampling Date: <u>12/27/17</u>
Sample I.D.: <u>GW-241795-122717-CP-MW-6</u>	Laboratory: <u>TA</u>
Analyzed for: <input checked="" type="checkbox"/> TPH-G <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input checked="" type="checkbox"/> TRH-D	Other: <u>See COC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>171227-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>CP</u>	Gauging Date: <u>12/27/17</u>
Well I.D.: <u>MW-8</u>	Well Diameter (in.): 2 3 <u>(4)</u> 6 8
Total Well Depth (ft.): <u>19.51</u>	Depth to Water (ft.): <u>6.94</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: <u>2" Grundfos Pump</u>	<u>Peristaltic Pump</u>	Bladder Pump
Sampling Method: <u>Dedicated Tubing</u>	<u>New Tubing</u>	Other _____
Start Purge Time: <u>1216</u>	Flow Rate: <u>100 ml/min</u>	Pump Depth: <u>9.5'</u>

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1222	11.99	6.21	824	19	1.56	159.3	600	7.01
1225	12.18	6.24	819	15	1.54	154.0	900	7.01
1228	12.21	6.27	818	15	1.44	150.9	1200	7.01
1231	12.28	6.29	818	12	1.41	146.5	1500	7.01
1234	12.32	6.32	822	12	1.46	144.6	1800	7.01

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1235</u>	Sampling Date: <u>12/27/17</u>
Sample I.D.: <u>GW-241745-122717-CP-MW-8</u>	Laboratory: <u>TA</u>
Analyzed for: TPH <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH-D <input checked="" type="checkbox"/>	Other: <u>See COC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>171227-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>QP</u>	Gauging Date: <u>12/27/17</u>
Well I.D.: <u>MW-9</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>14.53</u>	Depth to Water (ft.): <u>5.84</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0818 Flow Rate: 100 mL/min Pump Depth: 8'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
<u>0824</u>	<u>11.03</u>	<u>7.65</u>	<u>827</u>	<u>35</u>	<u>3.65</u>	<u>227.5</u>	<u>600</u>	<u>5.92</u>
<u>0827</u>	<u>11.06</u>	<u>7.29</u>	<u>830</u>	<u>25</u>	<u>2.76</u>	<u>208.2</u>	<u>900</u>	<u>5.92</u>
<u>0870</u>	<u>11.10</u>	<u>7.22</u>	<u>829</u>	<u>20</u>	<u>2.88</u>	<u>207.0</u>	<u>1200</u>	<u>5.92</u>
<u>0833</u>	<u>11.13</u>	<u>7.17</u>	<u>826</u>	<u>17</u>	<u>2.92</u>	<u>201.7</u>	<u>1500</u>	<u>5.92</u>
<u>0836</u>	<u>11.17</u>	<u>7.14</u>	<u>821</u>	<u>15</u>	<u>2.94</u>	<u>192.2</u>	<u>1800</u>	<u>5.92</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>0837</u>	Sampling Date: <u>12/27/17</u>
Sample I.D.: <u>GW-241795-122717-CP-MW-9</u>	Laboratory: <u>TA</u>
Analyzed for: <input checked="" type="checkbox"/> TPH-G <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH-D	Other: <u>See COC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>171227-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>W</u>	Gauging Date: <u>12/27/17</u>
Well I.D.: <u>MW-10</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>11.40</u>	Depth to Water (ft.): <u>7.52</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>None</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1243 Flow Rate: 100 ml/min Pump Depth: 9.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to Water (ft.)
1249	11.76	6.19	800	52	1.70	149.6	600	7.56
1252	11.79	6.19	814	37	1.44	141.3	900	7.60
1255	11.82	6.21	821	29	1.38	139.9	1200	7.63
1258	11.85	6.21	825	29	1.35	137.2	1500	7.66
1301	11.84	6.23	832	21	1.33	135.1	1800	7.72

Did well dewater? Yes No Amount actually evacuated: 1.8L

Sampling Time: 1303 Sampling Date: 12/27/17

Sample I.D.: GW-241795-122717-CP-MW-10 Laboratory: TA

Analyzed for: TPH BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>171227-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>Q</u>	Gauging Date: <u>12/27/17</u>
Well I.D.: <u>MW-11</u>	Well Diameter (in.): <u>②</u> 3 4 6 8 _____
Total Well Depth (ft.): <u>9.30</u>	Depth to Water (ft.): <u>5.51</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VSI 556</u>

Purge Method: <u>2" Grundfos Pump</u>	<u>Peristaltic Pump</u>	Bladder Pump
Sampling Method: <u>Dedicated Tubing</u>	<u>New Tubing</u>	Other _____
Start Purge Time: <u>1318</u>	Flow Rate: <u>106 mL/min</u>	Pump Depth: <u>7.5</u>

Time	Temp. (C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1324	10.61	6.72	220	21	2.12	178.4	600	5.61
1327	10.82	6.57	215	16	1.87	175.3	900	5.64
1330	10.80	6.44	212	14	1.77	172.2	1200	5.68
1333	10.80	6.39	212	12	1.71	171.3	1500	5.71
1336	10.77	6.33	211	10	1.65	170.5	1800	5.75

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1337</u>	Sampling Date: <u>12/27/17</u>
Sample I.D.: <u>GW-241795-122717-CP-MW-11</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D	Other:
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>171227-CPI</u>	Client: <u>AECOM</u>
Sampler: <u>CP</u>	Gauging Date: <u>12/27/17</u>
Well I.D.: <u>MW-12</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>15.03</u>	Depth to Water (ft.): <u>4.59</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>USI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1018 Flow Rate: 100 mL/min Pump Depth: 7'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1024	10.71	5.53	854	42	2.98	189.6	600	4.65
1027	10.49	5.49	855	37	2.87	184.0	900	4.69
1030	10.45	5.47	854	32	3.00	183.4	1200	4.75
1033	10.42	5.46	854	29	3.12	180.6	1500	4.79
1036	10.39	5.46	854	27	3.07	181.5	1800	4.82

Did well dewater? Yes <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1038</u>	Sampling Date: <u>12/27/17</u>
Sample I.D.: <u>64-241795-122717-CP-MW-12</u> Laboratory: <u>TA</u>	
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u>	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>171227-CP1</u>	Client: <u>AECOM</u>
Sampler: <u>Q</u>	Gauging Date: <u>12/27/17</u>
Well I.D.: <u>MW. 13</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>14.68</u>	Depth to Water (ft.): <u>4.03</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSF 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1047 Flow Rate: 100 mL/min Pump Depth: 6.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1053	10.25	5.70	550	100	3.28	201.1	600	4.13
1056	10.23	5.67	549	75	2.66	196.2	900	4.17
1059	10.29	5.64	542	51	2.18	183.7	1200	4.20
1102	10.31	5.63	538	47	2.09	179.6	1500	4.22
1105	10.33	5.64	538	41	2.03	177.2	1800	4.25

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1107</u>	Sampling Date: <u>12/27/17</u>
Sample I.D.: <u>GW-241795-122717-CP-mw-13</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH-C</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u>	Other:
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>171227-CPI</u>	Client: <u>AECOM</u>
Sampler: <u>DP</u>	Gauging Date: <u>12/27/17</u>
Well I.D.: <u>MW-14</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>14.89</u>	Depth to Water (ft.): <u>5.94</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>FVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1120 Flow Rate: 100 mL/min Pump Depth: 8.5

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1126	10.96	5.40	549	31	1.94	184.9	600	6.01
1129	10.90	6.01	534	18	1.91	177.4	900	6.05
1132	10.85	6.05	530	15	1.84	170.6	1200	6.09
1135	10.81	6.08	527	12	1.82	166.1	1500	6.12
1138	10.78	6.09	522	10	1.76	165.2	1800	6.15

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1140</u>	Sampling Date: <u>12/27/17</u>
Sample I.D.: <u>GW-241795-122717-CP-MW-14</u>	Laboratory: <u>TA</u>
Analyzed for: <input checked="" type="checkbox"/> TPH-G <input checked="" type="checkbox"/> BTEX MTBE <input checked="" type="checkbox"/> TPH-D Other: _____	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

Appendix B: Analytical Reports and Chains of Custody

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Spokane

11922 East 1st Ave

Spokane, WA 99206

Tel: (509)924-9200

TestAmerica Job ID: 590-5656-1

Client Project/Site: 1349 NW State St. Chehalis (60482107)

Sampling Event: Gx/BTEX & Dx Event

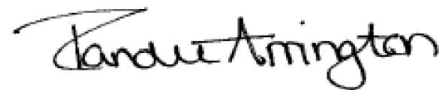
For:

AECOM, Inc.

111 SW Columbia Street, Suite 1500

Portland, Oregon 97201

Attn: Clifford Pearson



Authorized for release by:

3/15/2017 2:53:04 PM

Randee Arrington, Project Manager II

(509)924-9200

randee.arrington@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Sample Summary	4
Method Summary	5
Detection Summary	6
Client Sample Results	8
QC Sample Results	14
QC Association	16
Chronicle	17
Definitions	19
Certification Summary	20
Chain of Custody	21
Receipt Checklists	22

Case Narrative

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-5656-1

Job ID: 590-5656-1

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 3/9/2017 2:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.6° C.

Receipt Exceptions

The following Trip Blank sample was received with headspace in 2 of 2 vials: Trip Blank (590-5656-9).

GC/MS VOA

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

GC Semi VOA

Method NWTPH-Dx: Detected hydrocarbons appear to be due to heavily weathered diesel and/or biogenic interference in the following sample: GW-241795-030717-CP-MW-6 (590-5656-4).

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

Organic Prep

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

VOA Prep

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



Sample Summary

Client: AECOM, Inc.

TestAmerica Job ID: 590-5656-1

Project/Site: 1349 NW State St. Chehalis (60482107)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-5656-1	GW-241795-030717-CP-MW-2	Ground Water	03/07/17 09:38	03/09/17 14:50
590-5656-2	GW-241795-030717-CP-MW-4	Ground Water	03/07/17 10:06	03/09/17 14:50
590-5656-3	GW-241795-030717-CP-MW-5	Ground Water	03/07/17 10:34	03/09/17 14:50
590-5656-4	GW-241795-030717-CP-MW-6	Ground Water	03/07/17 11:04	03/09/17 14:50
590-5656-5	GW-241795-030717-CP-MW-8	Ground Water	03/07/17 11:34	03/09/17 14:50
590-5656-6	GW-241795-030717-CP-MW-9	Ground Water	03/07/17 09:12	03/09/17 14:50
590-5656-7	GW-241795-030717CP-MW-10	Ground Water	03/07/17 12:00	03/09/17 14:50
590-5656-8	GW-241795-030717-CP-MW-11	Ground Water	03/07/17 12:24	03/09/17 14:50
590-5656-9	Trip Blank	Water	03/07/17 08:00	03/09/17 14:50

Method Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-5656-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Detection Summary

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-5656-1

Client Sample ID: GW-241795-030717-CP-MW-2

Lab Sample ID: 590-5656-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	144		2.00	0.465	ug/L	5		8260C	Total/NA
Ethylbenzene	5.08		5.00	0.990	ug/L	5		8260C	Total/NA
m,p-Xylene	21.2		10.0	1.40	ug/L	5		8260C	Total/NA
o-Xylene	15.4		5.00	0.810	ug/L	5		8260C	Total/NA
Toluene	384		5.00	1.56	ug/L	5		8260C	Total/NA
Xylenes, Total	36.6		15.0	2.21	ug/L	5		8260C	Total/NA
Gasoline	1140		750	352	ug/L	5		NWTPH-Gx	Total/NA

Client Sample ID: GW-241795-030717-CP-MW-4

Lab Sample ID: 590-5656-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	0.266	J	1.00	0.162	ug/L	1		8260C	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.202	J	0.248	0.0828	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-030717-CP-MW-5

Lab Sample ID: 590-5656-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.209	J	0.246	0.0821	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-030717-CP-MW-6

Lab Sample ID: 590-5656-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m,p-Xylene	0.316	J	2.00	0.280	ug/L	1		8260C	Total/NA
Gasoline	78.1	J	150	70.4	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.464		0.252	0.0840	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-030717-CP-MW-8

Lab Sample ID: 590-5656-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.363		0.251	0.0838	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.146	J	0.419	0.126	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-030717-CP-MW-9

Lab Sample ID: 590-5656-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.242	J	0.246	0.0821	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-030717CP-MW-10

Lab Sample ID: 590-5656-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.559		0.253	0.0844	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.338	J	0.422	0.127	mg/L	1		NWTPH-Dx	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Spokane

Detection Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-5656-1

Client Sample ID: GW-241795-030717-CP-MW-11

Lab Sample ID: 590-5656-8

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 590-5656-9

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-5656-1

Client Sample ID: GW-241795-030717-CP-MW-2

Lab Sample ID: 590-5656-1

Date Collected: 03/07/17 09:38

Matrix: Ground Water

Date Received: 03/09/17 14:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	144		2.00	0.465	ug/L			03/10/17 17:27	5
Ethylbenzene	5.08		5.00	0.990	ug/L			03/10/17 17:27	5
m,p-Xylene	21.2		10.0	1.40	ug/L			03/10/17 17:27	5
o-Xylene	15.4		5.00	0.810	ug/L			03/10/17 17:27	5
Toluene	384		5.00	1.56	ug/L			03/10/17 17:27	5
Xylenes, Total	36.6		15.0	2.21	ug/L			03/10/17 17:27	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 125		03/10/17 17:27	5
4-Bromofluorobenzene (Surr)	104		69 - 120		03/10/17 17:27	5
Dibromofluoromethane (Surr)	103		80 - 120		03/10/17 17:27	5
Toluene-d8 (Surr)	93		80 - 120		03/10/17 17:27	5

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1140		750	352	ug/L			03/10/17 17:27	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		68.7 - 141		03/10/17 17:27	5

Client Sample ID: GW-241795-030717-CP-MW-4

Lab Sample ID: 590-5656-2

Date Collected: 03/07/17 10:06

Matrix: Ground Water

Date Received: 03/09/17 14:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			03/10/17 17:49	1
Ethylbenzene	ND		1.00	0.198	ug/L			03/10/17 17:49	1
m,p-Xylene	ND		2.00	0.280	ug/L			03/10/17 17:49	1
o-Xylene	0.266	J	1.00	0.162	ug/L			03/10/17 17:49	1
Toluene	ND		1.00	0.312	ug/L			03/10/17 17:49	1
Xylenes, Total	ND		3.00	0.442	ug/L			03/10/17 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 125		03/10/17 17:49	1
4-Bromofluorobenzene (Surr)	105		69 - 120		03/10/17 17:49	1
Dibromofluoromethane (Surr)	102		80 - 120		03/10/17 17:49	1
Toluene-d8 (Surr)	99		80 - 120		03/10/17 17:49	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			03/10/17 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		68.7 - 141		03/10/17 17:49	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.202	J	0.248	0.0828	mg/L		03/15/17 09:50	03/15/17 11:39	1
Residual Range Organics (RRO) (C25-C36)	ND		0.414	0.124	mg/L		03/15/17 09:50	03/15/17 11:39	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.

TestAmerica Job ID: 590-5656-1

Project/Site: 1349 NW State St. Chehalis (60482107)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	93		50 - 150	03/15/17 09:50	03/15/17 11:39	1
<i>n</i> -Triacontane-d62	93		50 - 150	03/15/17 09:50	03/15/17 11:39	1

Client Sample ID: GW-241795-030717-CP-MW-5

Lab Sample ID: 590-5656-3

Date Collected: 03/07/17 10:34

Matrix: Ground Water

Date Received: 03/09/17 14:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			03/10/17 18:11	1
Ethylbenzene	ND		1.00	0.198	ug/L			03/10/17 18:11	1
<i>m,p</i> -Xylene	ND		2.00	0.280	ug/L			03/10/17 18:11	1
<i>o</i> -Xylene	ND		1.00	0.162	ug/L			03/10/17 18:11	1
Toluene	ND		1.00	0.312	ug/L			03/10/17 18:11	1
Xylenes, Total	ND		3.00	0.442	ug/L			03/10/17 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2</i> -Dichloroethane-d4 (Surr)	109		70 - 125		03/10/17 18:11	1
<i>4</i> -Bromofluorobenzene (Surr)	107		69 - 120		03/10/17 18:11	1
Dibromofluoromethane (Surr)	97		80 - 120		03/10/17 18:11	1
Toluene-d8 (Surr)	100		80 - 120		03/10/17 18:11	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			03/10/17 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>4</i> -Bromofluorobenzene (Surr)	107		68.7 - 141		03/10/17 18:11	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.209	J	0.246	0.0821	mg/L		03/15/17 09:50	03/15/17 11:57	1
Residual Range Organics (RRO) (C25-C36)	ND		0.411	0.123	mg/L		03/15/17 09:50	03/15/17 11:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	94		50 - 150	03/15/17 09:50	03/15/17 11:57	1
<i>n</i> -Triacontane-d62	94		50 - 150	03/15/17 09:50	03/15/17 11:57	1

Client Sample ID: GW-241795-030717-CP-MW-6

Lab Sample ID: 590-5656-4

Date Collected: 03/07/17 11:04

Matrix: Ground Water

Date Received: 03/09/17 14:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			03/10/17 18:33	1
Ethylbenzene	ND		1.00	0.198	ug/L			03/10/17 18:33	1
<i>m,p</i>-Xylene	0.316	J	2.00	0.280	ug/L			03/10/17 18:33	1
<i>o</i> -Xylene	ND		1.00	0.162	ug/L			03/10/17 18:33	1
Toluene	ND		1.00	0.312	ug/L			03/10/17 18:33	1
Xylenes, Total	ND		3.00	0.442	ug/L			03/10/17 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2</i> -Dichloroethane-d4 (Surr)	111		70 - 125		03/10/17 18:33	1
<i>4</i> -Bromofluorobenzene (Surr)	108		69 - 120		03/10/17 18:33	1
Dibromofluoromethane (Surr)	108		80 - 120		03/10/17 18:33	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-5656-1

Client Sample ID: GW-241795-030717-CP-MW-6

Lab Sample ID: 590-5656-4

Date Collected: 03/07/17 11:04

Matrix: Ground Water

Date Received: 03/09/17 14:50

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		03/10/17 18:33	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	78.1	J	150	70.4	ug/L			03/10/17 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		68.7 - 141		03/10/17 18:33	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.464		0.252	0.0840	mg/L		03/15/17 09:50	03/15/17 12:15	1

Residual Range Organics (RRO) (C25-C36)	ND		0.420	0.126	mg/L		03/15/17 09:50	03/15/17 12:15	1
---	----	--	-------	-------	------	--	----------------	----------------	---

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	94		50 - 150	03/15/17 09:50	03/15/17 12:15	1
n-Triacontane-d62	94		50 - 150	03/15/17 09:50	03/15/17 12:15	1

Client Sample ID: GW-241795-030717-CP-MW-8

Lab Sample ID: 590-5656-5

Date Collected: 03/07/17 11:34

Matrix: Ground Water

Date Received: 03/09/17 14:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			03/10/17 19:17	1
Ethylbenzene	ND		1.00	0.198	ug/L			03/10/17 19:17	1
m,p-Xylene	ND		2.00	0.280	ug/L			03/10/17 19:17	1
o-Xylene	ND		1.00	0.162	ug/L			03/10/17 19:17	1
Toluene	ND		1.00	0.312	ug/L			03/10/17 19:17	1
Xylenes, Total	ND		3.00	0.442	ug/L			03/10/17 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 125		03/10/17 19:17	1
4-Bromofluorobenzene (Surr)	106		69 - 120		03/10/17 19:17	1
Dibromofluoromethane (Surr)	106		80 - 120		03/10/17 19:17	1
Toluene-d8 (Surr)	93		80 - 120		03/10/17 19:17	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			03/10/17 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		68.7 - 141		03/10/17 19:17	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.363		0.251	0.0838	mg/L		03/15/17 09:50	03/15/17 12:34	1

Residual Range Organics (RRO) (C25-C36)	0.146	J	0.419	0.126	mg/L		03/15/17 09:50	03/15/17 12:34	1
---	-------	---	-------	-------	------	--	----------------	----------------	---

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-5656-1

Client Sample ID: GW-241795-030717-CP-MW-8

Lab Sample ID: 590-5656-5

Date Collected: 03/07/17 11:34

Matrix: Ground Water

Date Received: 03/09/17 14:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	91		50 - 150	03/15/17 09:50	03/15/17 12:34	1
<i>n</i> -Triacontane-d62	94		50 - 150	03/15/17 09:50	03/15/17 12:34	1

Client Sample ID: GW-241795-030717-CP-MW-9

Lab Sample ID: 590-5656-6

Date Collected: 03/07/17 09:12

Matrix: Ground Water

Date Received: 03/09/17 14:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			03/10/17 19:39	1
Ethylbenzene	ND		1.00	0.198	ug/L			03/10/17 19:39	1
<i>m,p</i> -Xylene	ND		2.00	0.280	ug/L			03/10/17 19:39	1
<i>o</i> -Xylene	ND		1.00	0.162	ug/L			03/10/17 19:39	1
Toluene	ND		1.00	0.312	ug/L			03/10/17 19:39	1
Xylenes, Total	ND		3.00	0.442	ug/L			03/10/17 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2</i> -Dichloroethane-d4 (Surr)	105		70 - 125		03/10/17 19:39	1
<i>4</i> -Bromofluorobenzene (Surr)	101		69 - 120		03/10/17 19:39	1
<i>Dibromofluoromethane</i> (Surr)	104		80 - 120		03/10/17 19:39	1
<i>Toluene-d8</i> (Surr)	100		80 - 120		03/10/17 19:39	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			03/10/17 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>4</i> -Bromofluorobenzene (Surr)	101		68.7 - 141		03/10/17 19:39	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.242	J	0.246	0.0821	mg/L		03/15/17 09:50	03/15/17 12:52	1
Residual Range Organics (RRO) (C25-C36)	ND		0.411	0.123	mg/L		03/15/17 09:50	03/15/17 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	88		50 - 150	03/15/17 09:50	03/15/17 12:52	1
<i>n</i> -Triacontane-d62	89		50 - 150	03/15/17 09:50	03/15/17 12:52	1

Client Sample ID: GW-241795-030717CP-MW-10

Lab Sample ID: 590-5656-7

Date Collected: 03/07/17 12:00

Matrix: Ground Water

Date Received: 03/09/17 14:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			03/10/17 20:01	1
Ethylbenzene	ND		1.00	0.198	ug/L			03/10/17 20:01	1
<i>m,p</i> -Xylene	ND		2.00	0.280	ug/L			03/10/17 20:01	1
<i>o</i> -Xylene	ND		1.00	0.162	ug/L			03/10/17 20:01	1
Toluene	ND		1.00	0.312	ug/L			03/10/17 20:01	1
Xylenes, Total	ND		3.00	0.442	ug/L			03/10/17 20:01	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-5656-1

Client Sample ID: GW-241795-030717CP-MW-10

Lab Sample ID: 590-5656-7

Date Collected: 03/07/17 12:00

Matrix: Ground Water

Date Received: 03/09/17 14:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		70 - 125		03/10/17 20:01	1
4-Bromofluorobenzene (Surr)	100		69 - 120		03/10/17 20:01	1
Dibromofluoromethane (Surr)	110		80 - 120		03/10/17 20:01	1
Toluene-d8 (Surr)	101		80 - 120		03/10/17 20:01	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			03/10/17 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141		03/10/17 20:01	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.559		0.253	0.0844	mg/L		03/15/17 09:50	03/15/17 13:10	1
Residual Range Organics (RRO) (C25-C36)	0.338	J	0.422	0.127	mg/L		03/15/17 09:50	03/15/17 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	94		50 - 150	03/15/17 09:50	03/15/17 13:10	1
n-Triacontane-d62	93		50 - 150	03/15/17 09:50	03/15/17 13:10	1

Client Sample ID: GW-241795-030717-CP-MW-11

Lab Sample ID: 590-5656-8

Date Collected: 03/07/17 12:24

Matrix: Ground Water

Date Received: 03/09/17 14:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			03/10/17 20:23	1
Ethylbenzene	ND		1.00	0.198	ug/L			03/10/17 20:23	1
m,p-Xylene	ND		2.00	0.280	ug/L			03/10/17 20:23	1
o-Xylene	ND		1.00	0.162	ug/L			03/10/17 20:23	1
Toluene	ND		1.00	0.312	ug/L			03/10/17 20:23	1
Xylenes, Total	ND		3.00	0.442	ug/L			03/10/17 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 125		03/10/17 20:23	1
4-Bromofluorobenzene (Surr)	96		69 - 120		03/10/17 20:23	1
Dibromofluoromethane (Surr)	104		80 - 120		03/10/17 20:23	1
Toluene-d8 (Surr)	102		80 - 120		03/10/17 20:23	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			03/10/17 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		68.7 - 141		03/10/17 20:23	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-5656-1

Client Sample ID: Trip Blank

Lab Sample ID: 590-5656-9

Date Collected: 03/07/17 08:00

Matrix: Water

Date Received: 03/09/17 14:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			03/10/17 20:45	1
Ethylbenzene	ND		1.00	0.198	ug/L			03/10/17 20:45	1
m,p-Xylene	ND		2.00	0.280	ug/L			03/10/17 20:45	1
o-Xylene	ND		1.00	0.162	ug/L			03/10/17 20:45	1
Toluene	ND		1.00	0.312	ug/L			03/10/17 20:45	1
Xylenes, Total	ND		3.00	0.442	ug/L			03/10/17 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 125		03/10/17 20:45	1
4-Bromofluorobenzene (Surr)	106		69 - 120		03/10/17 20:45	1
Dibromofluoromethane (Surr)	115		80 - 120		03/10/17 20:45	1
Toluene-d8 (Surr)	103		80 - 120		03/10/17 20:45	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-5656-1

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

Lab Sample ID: MB 590-11026/5

Matrix: Water

Analysis Batch: 11026

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			03/10/17 11:09	1
Ethylbenzene	ND		1.00	0.198	ug/L			03/10/17 11:09	1
m,p-Xylene	ND		2.00	0.280	ug/L			03/10/17 11:09	1
o-Xylene	ND		1.00	0.162	ug/L			03/10/17 11:09	1
Toluene	ND		1.00	0.312	ug/L			03/10/17 11:09	1
Xylenes, Total	ND		3.00	0.442	ug/L			03/10/17 11:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 125		03/10/17 11:09	1
4-Bromofluorobenzene (Surr)	103		69 - 120		03/10/17 11:09	1
Dibromofluoromethane (Surr)	105		80 - 120		03/10/17 11:09	1
Toluene-d8 (Surr)	102		80 - 120		03/10/17 11:09	1

Lab Sample ID: LCS 590-11026/1003

Matrix: Water

Analysis Batch: 11026

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	9.469		ug/L		95	80 - 120
Ethylbenzene	10.0	10.11		ug/L		101	80 - 120
m,p-Xylene	10.0	9.976		ug/L		100	80 - 120
o-Xylene	10.0	10.23		ug/L		102	80 - 120
Toluene	10.0	9.730		ug/L		97	80 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 125
4-Bromofluorobenzene (Surr)	101		69 - 120
Dibromofluoromethane (Surr)	109		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-11027/5

Matrix: Water

Analysis Batch: 11027

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			03/10/17 11:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		68.7 - 141		03/10/17 11:09	1

TestAmerica Spokane

QC Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-5656-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCS 590-11027/1004

Matrix: Water

Analysis Batch: 11027

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	1000	931.3		ug/L		93	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		68.7 - 141

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-11086/1-A

Matrix: Water

Analysis Batch: 11085

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11086

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.240	0.0800	mg/L		03/15/17 09:50	03/15/17 10:44	1
Residual Range Organics (RRO) (C25-C36)	ND		0.400	0.120	mg/L		03/15/17 09:50	03/15/17 10:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	96		50 - 150	03/15/17 09:50	03/15/17 10:44	1
n-Triacontane-d62	94		50 - 150	03/15/17 09:50	03/15/17 10:44	1

Lab Sample ID: LCS 590-11086/2-A

Matrix: Water

Analysis Batch: 11085

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO) (C10-C25)	1.60	1.276		mg/L		80	50 - 150
Residual Range Organics (RRO) (C25-C36)	1.60	1.299		mg/L		81	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	104		50 - 150
n-Triacontane-d62	101		50 - 150

Lab Sample ID: LCSD 590-11086/3-A

Matrix: Water

Analysis Batch: 11085

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11086

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	1.60	1.104		mg/L		69	50 - 150	14	25
Residual Range Organics (RRO) (C25-C36)	1.60	1.174		mg/L		73	50 - 150	10	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	97		50 - 150
n-Triacontane-d62	93		50 - 150

TestAmerica Spokane

QC Association Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-5656-1

GC/MS VOA

Analysis Batch: 11026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-5656-1	GW-241795-030717-CP-MW-2	Total/NA	Ground Water	8260C	
590-5656-2	GW-241795-030717-CP-MW-4	Total/NA	Ground Water	8260C	
590-5656-3	GW-241795-030717-CP-MW-5	Total/NA	Ground Water	8260C	
590-5656-4	GW-241795-030717-CP-MW-6	Total/NA	Ground Water	8260C	
590-5656-5	GW-241795-030717-CP-MW-8	Total/NA	Ground Water	8260C	
590-5656-6	GW-241795-030717-CP-MW-9	Total/NA	Ground Water	8260C	
590-5656-7	GW-241795-030717CP-MW-10	Total/NA	Ground Water	8260C	
590-5656-8	GW-241795-030717-CP-MW-11	Total/NA	Ground Water	8260C	
590-5656-9	Trip Blank	Total/NA	Water	8260C	
MB 590-11026/5	Method Blank	Total/NA	Water	8260C	
LCS 590-11026/1003	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 11027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-5656-1	GW-241795-030717-CP-MW-2	Total/NA	Ground Water	NWTPH-Gx	
590-5656-2	GW-241795-030717-CP-MW-4	Total/NA	Ground Water	NWTPH-Gx	
590-5656-3	GW-241795-030717-CP-MW-5	Total/NA	Ground Water	NWTPH-Gx	
590-5656-4	GW-241795-030717-CP-MW-6	Total/NA	Ground Water	NWTPH-Gx	
590-5656-5	GW-241795-030717-CP-MW-8	Total/NA	Ground Water	NWTPH-Gx	
590-5656-6	GW-241795-030717-CP-MW-9	Total/NA	Ground Water	NWTPH-Gx	
590-5656-7	GW-241795-030717CP-MW-10	Total/NA	Ground Water	NWTPH-Gx	
590-5656-8	GW-241795-030717-CP-MW-11	Total/NA	Ground Water	NWTPH-Gx	
MB 590-11027/5	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-11027/1004	Lab Control Sample	Total/NA	Water	NWTPH-Gx	

GC Semi VOA

Analysis Batch: 11085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-5656-2	GW-241795-030717-CP-MW-4	Total/NA	Ground Water	NWTPH-Dx	11086
590-5656-3	GW-241795-030717-CP-MW-5	Total/NA	Ground Water	NWTPH-Dx	11086
590-5656-4	GW-241795-030717-CP-MW-6	Total/NA	Ground Water	NWTPH-Dx	11086
590-5656-5	GW-241795-030717-CP-MW-8	Total/NA	Ground Water	NWTPH-Dx	11086
590-5656-6	GW-241795-030717-CP-MW-9	Total/NA	Ground Water	NWTPH-Dx	11086
590-5656-7	GW-241795-030717CP-MW-10	Total/NA	Ground Water	NWTPH-Dx	11086
MB 590-11086/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	11086
LCS 590-11086/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	11086
LCSD 590-11086/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	11086

Prep Batch: 11086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-5656-2	GW-241795-030717-CP-MW-4	Total/NA	Ground Water	3510C	
590-5656-3	GW-241795-030717-CP-MW-5	Total/NA	Ground Water	3510C	
590-5656-4	GW-241795-030717-CP-MW-6	Total/NA	Ground Water	3510C	
590-5656-5	GW-241795-030717-CP-MW-8	Total/NA	Ground Water	3510C	
590-5656-6	GW-241795-030717-CP-MW-9	Total/NA	Ground Water	3510C	
590-5656-7	GW-241795-030717CP-MW-10	Total/NA	Ground Water	3510C	
MB 590-11086/1-A	Method Blank	Total/NA	Water	3510C	
LCS 590-11086/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 590-11086/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

TestAmerica Spokane

Lab Chronicle

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-5656-1

Client Sample ID: GW-241795-030717-CP-MW-2

Date Collected: 03/07/17 09:38

Date Received: 03/09/17 14:50

Lab Sample ID: 590-5656-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	43 mL	43 mL	11026	03/10/17 17:27	CBW	TAL SPK
Total/NA	Analysis	NWTPH-Gx		5	43 mL	43 mL	11027	03/10/17 17:27	CBW	TAL SPK

Client Sample ID: GW-241795-030717-CP-MW-4

Date Collected: 03/07/17 10:06

Date Received: 03/09/17 14:50

Lab Sample ID: 590-5656-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	11026	03/10/17 17:49	CBW	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	11027	03/10/17 17:49	CBW	TAL SPK
Total/NA	Prep	3510C			241.5 mL	2 mL	11086	03/15/17 09:50	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			11085	03/15/17 11:39	NMI	TAL SPK

Client Sample ID: GW-241795-030717-CP-MW-5

Date Collected: 03/07/17 10:34

Date Received: 03/09/17 14:50

Lab Sample ID: 590-5656-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	11026	03/10/17 18:11	CBW	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	11027	03/10/17 18:11	CBW	TAL SPK
Total/NA	Prep	3510C			243.6 mL	2 mL	11086	03/15/17 09:50	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			11085	03/15/17 11:57	NMI	TAL SPK

Client Sample ID: GW-241795-030717-CP-MW-6

Date Collected: 03/07/17 11:04

Date Received: 03/09/17 14:50

Lab Sample ID: 590-5656-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	11026	03/10/17 18:33	CBW	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	11027	03/10/17 18:33	CBW	TAL SPK
Total/NA	Prep	3510C			238.2 mL	2 mL	11086	03/15/17 09:50	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			11085	03/15/17 12:15	NMI	TAL SPK

Client Sample ID: GW-241795-030717-CP-MW-8

Date Collected: 03/07/17 11:34

Date Received: 03/09/17 14:50

Lab Sample ID: 590-5656-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	11026	03/10/17 19:17	CBW	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	11027	03/10/17 19:17	CBW	TAL SPK
Total/NA	Prep	3510C			238.7 mL	2 mL	11086	03/15/17 09:50	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			11085	03/15/17 12:34	NMI	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-5656-1

Client Sample ID: GW-241795-030717-CP-MW-9

Date Collected: 03/07/17 09:12

Date Received: 03/09/17 14:50

Lab Sample ID: 590-5656-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	11026	03/10/17 19:39	CBW	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	11027	03/10/17 19:39	CBW	TAL SPK
Total/NA	Prep	3510C			243.6 mL	2 mL	11086	03/15/17 09:50	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			11085	03/15/17 12:52	NMI	TAL SPK

Client Sample ID: GW-241795-030717CP-MW-10

Date Collected: 03/07/17 12:00

Date Received: 03/09/17 14:50

Lab Sample ID: 590-5656-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	11026	03/10/17 20:01	CBW	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	11027	03/10/17 20:01	CBW	TAL SPK
Total/NA	Prep	3510C			237 mL	2 mL	11086	03/15/17 09:50	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			11085	03/15/17 13:10	NMI	TAL SPK

Client Sample ID: GW-241795-030717-CP-MW-11

Date Collected: 03/07/17 12:24

Date Received: 03/09/17 14:50

Lab Sample ID: 590-5656-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	11026	03/10/17 20:23	CBW	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	11027	03/10/17 20:23	CBW	TAL SPK

Client Sample ID: Trip Blank

Date Collected: 03/07/17 08:00

Date Received: 03/09/17 14:50

Lab Sample ID: 590-5656-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	11026	03/10/17 20:45	CBW	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Definitions/Glossary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-5656-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Certification Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-5656-1

Laboratory: TestAmerica Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C569	01-06-18

Analysis Method	Prep Method	Matrix	Analyte
-----------------	-------------	--------	---------

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 590-5656-1

Login Number: 5656

List Source: TestAmerica Spokane

List Number: 1

Creator: Kratz, Sheila J

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	False	Headspace larger than 1/4".
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Spokane

11922 East 1st Ave

Spokane, WA 99206

Tel: (509)924-9200

TestAmerica Job ID: 590-6329-1

Client Project/Site: 1349 NW State St. Chehalis (60482107)

Sampling Event: Gx/BTEX & Dx Event

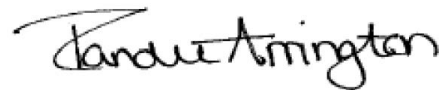
For:

AECOM, Inc.

111 SW Columbia Street, Suite 1500

Portland, Oregon 97201

Attn: Clifford Pearson



Authorized for release by:

6/15/2017 3:20:38 PM

Randee Arrington, Project Manager II

(509)924-9200

randee.arrington@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Sample Summary	4
Method Summary	5
Detection Summary	6
Client Sample Results	8
QC Sample Results	14
QC Association	18
Chronicle	20
Definitions	22
Certification Summary	23
Chain of Custody	24
Receipt Checklists	25

Case Narrative

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Job ID: 590-6329-1

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 6/12/2017 3:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

GC/MS VOA

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

GC Semi VOA

Method NWTPH-Dx: Detected hydrocarbons appear to be due to heavily weathered diesel as well as biogenic interference in the following samples: GW-241795-060817-CP-MW-4 (590-6329-2), GW-241795-060817-CP-MW-5 (590-6329-3), GW-241795-060817-CP-MW-6 (590-6329-4), GW-241795-060817-CP-MW-8 (590-6329-5), GW-241795-060817-CP-MW-9 (590-6329-6) and GW-241795-060817-CP-MW-10 (590-6329-7).

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

Organic Prep

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

VOA Prep

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



Sample Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-6329-1	GW-241795-060817-CP-MW-2	Ground Water	06/08/17 10:09	06/12/17 15:50
590-6329-2	GW-241795-060817-CP-MW-4	Ground Water	06/08/17 10:39	06/12/17 15:50
590-6329-3	GW-241795-060817-CP-MW-5	Ground Water	06/08/17 11:15	06/12/17 15:50
590-6329-4	GW-241795-060817-CP-MW-6	Ground Water	06/08/17 11:41	06/12/17 15:50
590-6329-5	GW-241795-060817-CP-MW-8	Ground Water	06/08/17 12:11	06/12/17 15:50
590-6329-6	GW-241795-060817-CP-MW-9	Ground Water	06/08/17 09:44	06/12/17 15:50
590-6329-7	GW-241795-060817-CP-MW-10	Ground Water	06/08/17 12:36	06/12/17 15:50
590-6329-8	GW-241795-060817-CP-MW-11	Ground Water	06/08/17 12:58	06/12/17 15:50
590-6329-9	Trip Blank	Water	06/08/17 08:00	06/12/17 15:50



Method Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Detection Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Client Sample ID: GW-241795-060817-CP-MW-2

Lab Sample ID: 590-6329-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	345		4.00	0.930	ug/L	10		8260C	Total/NA
Ethylbenzene	37.0		10.0	1.98	ug/L	10		8260C	Total/NA
m,p-Xylene	158		20.0	2.80	ug/L	10		8260C	Total/NA
o-Xylene	99.6		10.0	1.62	ug/L	10		8260C	Total/NA
Toluene	1210		100	31.2	ug/L	100		8260C	Total/NA
Xylenes, Total	258		30.0	4.42	ug/L	10		8260C	Total/NA
Gasoline	3390		1500	704	ug/L	10		NWTPH-Gx	Total/NA

Client Sample ID: GW-241795-060817-CP-MW-4

Lab Sample ID: 590-6329-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	0.471	J	1.00	0.162	ug/L	1		8260C	Total/NA
Xylenes, Total	0.471	J	3.00	0.442	ug/L	1		8260C	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.285		0.263	0.0878	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-060817-CP-MW-5

Lab Sample ID: 590-6329-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m,p-Xylene	0.369	J	2.00	0.280	ug/L	1		8260C	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.657		0.245	0.0816	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.158	J	0.408	0.122	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-060817-CP-MW-6

Lab Sample ID: 590-6329-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	20.0		0.400	0.0930	ug/L	1		8260C	Total/NA
m,p-Xylene	1.12	J	2.00	0.280	ug/L	1		8260C	Total/NA
o-Xylene	0.726	J	1.00	0.162	ug/L	1		8260C	Total/NA
Toluene	8.77		1.00	0.312	ug/L	1		8260C	Total/NA
Xylenes, Total	1.84	J	3.00	0.442	ug/L	1		8260C	Total/NA
Gasoline	129	J	150	70.4	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.439		0.266	0.0886	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-060817-CP-MW-8

Lab Sample ID: 590-6329-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.490		0.245	0.0817	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.153	J	0.408	0.123	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-060817-CP-MW-9

Lab Sample ID: 590-6329-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.343		0.244	0.0813	mg/L	1		NWTPH-Dx	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Spokane

Detection Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Client Sample ID: GW-241795-060817-CP-MW-10

Lab Sample ID: 590-6329-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.624		0.264	0.0879	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.378	J	0.439	0.132	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-060817-CP-MW-11

Lab Sample ID: 590-6329-8

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 590-6329-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m,p-Xylene	0.322	J	2.00	0.280	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Client Sample ID: GW-241795-060817-CP-MW-2

Lab Sample ID: 590-6329-1

Date Collected: 06/08/17 10:09

Matrix: Ground Water

Date Received: 06/12/17 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	345		4.00	0.930	ug/L			06/13/17 11:56	10
Ethylbenzene	37.0		10.0	1.98	ug/L			06/13/17 11:56	10
m,p-Xylene	158		20.0	2.80	ug/L			06/13/17 11:56	10
o-Xylene	99.6		10.0	1.62	ug/L			06/13/17 11:56	10
Toluene	1210		100	31.2	ug/L			06/13/17 14:06	100
Xylenes, Total	258		30.0	4.42	ug/L			06/13/17 11:56	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 125		06/13/17 11:56	10
1,2-Dichloroethane-d4 (Surr)	101		70 - 125		06/13/17 14:06	100
4-Bromofluorobenzene (Surr)	108		69 - 120		06/13/17 11:56	10
4-Bromofluorobenzene (Surr)	105		69 - 120		06/13/17 14:06	100
Dibromofluoromethane (Surr)	99		80 - 120		06/13/17 11:56	10
Dibromofluoromethane (Surr)	104		80 - 120		06/13/17 14:06	100
Toluene-d8 (Surr)	104		80 - 120		06/13/17 11:56	10
Toluene-d8 (Surr)	103		80 - 120		06/13/17 14:06	100

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	3390		1500	704	ug/L			06/13/17 11:56	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		68.7 - 141		06/13/17 11:56	10

Client Sample ID: GW-241795-060817-CP-MW-4

Lab Sample ID: 590-6329-2

Date Collected: 06/08/17 10:39

Matrix: Ground Water

Date Received: 06/12/17 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/13/17 12:18	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/13/17 12:18	1
m,p-Xylene	ND		2.00	0.280	ug/L			06/13/17 12:18	1
o-Xylene	0.471	J	1.00	0.162	ug/L			06/13/17 12:18	1
Toluene	ND		1.00	0.312	ug/L			06/13/17 12:18	1
Xylenes, Total	0.471	J	3.00	0.442	ug/L			06/13/17 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 125		06/13/17 12:18	1
4-Bromofluorobenzene (Surr)	107		69 - 120		06/13/17 12:18	1
Dibromofluoromethane (Surr)	110		80 - 120		06/13/17 12:18	1
Toluene-d8 (Surr)	101		80 - 120		06/13/17 12:18	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			06/12/17 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		68.7 - 141		06/12/17 20:06	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Client Sample ID: GW-241795-060817-CP-MW-4

Lab Sample ID: 590-6329-2

Date Collected: 06/08/17 10:39

Matrix: Ground Water

Date Received: 06/12/17 15:50

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.285		0.263	0.0878	mg/L		06/15/17 08:16	06/15/17 10:47	1
Residual Range Organics (RRO) (C25-C36)	ND		0.439	0.132	mg/L		06/15/17 08:16	06/15/17 10:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	107		50 - 150				06/15/17 08:16	06/15/17 10:47	1
<i>n</i> -Triacontane-d62	101		50 - 150				06/15/17 08:16	06/15/17 10:47	1

Client Sample ID: GW-241795-060817-CP-MW-5

Lab Sample ID: 590-6329-3

Date Collected: 06/08/17 11:15

Matrix: Ground Water

Date Received: 06/12/17 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/13/17 13:02	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/13/17 13:02	1
m,p-Xylene	0.369	J	2.00	0.280	ug/L			06/13/17 13:02	1
<i>o</i> -Xylene	ND		1.00	0.162	ug/L			06/13/17 13:02	1
Toluene	ND		1.00	0.312	ug/L			06/13/17 13:02	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/13/17 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>1,2</i> -Dichloroethane-d4 (Surr)	105		70 - 125					06/13/17 13:02	1
<i>4</i> -Bromofluorobenzene (Surr)	100		69 - 120					06/13/17 13:02	1
<i>Dibromofluoromethane</i> (Surr)	110		80 - 120					06/13/17 13:02	1
<i>Toluene-d8</i> (Surr)	105		80 - 120					06/13/17 13:02	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			06/12/17 20:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>4</i> -Bromofluorobenzene (Surr)	96		68.7 - 141					06/12/17 20:29	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.657		0.245	0.0816	mg/L		06/15/17 08:16	06/15/17 11:05	1
Residual Range Organics (RRO) (C25-C36)	0.158	J	0.408	0.122	mg/L		06/15/17 08:16	06/15/17 11:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	109		50 - 150				06/15/17 08:16	06/15/17 11:05	1
<i>n</i> -Triacontane-d62	105		50 - 150				06/15/17 08:16	06/15/17 11:05	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Client Sample ID: GW-241795-060817-CP-MW-6

Lab Sample ID: 590-6329-4

Date Collected: 06/08/17 11:41

Matrix: Ground Water

Date Received: 06/12/17 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	20.0		0.400	0.0930	ug/L			06/12/17 20:51	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/12/17 20:51	1
m,p-Xylene	1.12	J	2.00	0.280	ug/L			06/12/17 20:51	1
o-Xylene	0.726	J	1.00	0.162	ug/L			06/12/17 20:51	1
Toluene	8.77		1.00	0.312	ug/L			06/12/17 20:51	1
Xylenes, Total	1.84	J	3.00	0.442	ug/L			06/12/17 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 125		06/12/17 20:51	1
4-Bromofluorobenzene (Surr)	106		69 - 120		06/12/17 20:51	1
Dibromofluoromethane (Surr)	101		80 - 120		06/12/17 20:51	1
Toluene-d8 (Surr)	99		80 - 120		06/12/17 20:51	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	129	J	150	70.4	ug/L			06/12/17 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		68.7 - 141		06/12/17 20:51	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.439		0.266	0.0886	mg/L		06/15/17 08:16	06/15/17 11:24	1
Residual Range Organics (RRO) (C25-C36)	ND		0.443	0.133	mg/L		06/15/17 08:16	06/15/17 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	105		50 - 150	06/15/17 08:16	06/15/17 11:24	1
n-Triacontane-d62	102		50 - 150	06/15/17 08:16	06/15/17 11:24	1

Client Sample ID: GW-241795-060817-CP-MW-8

Lab Sample ID: 590-6329-5

Date Collected: 06/08/17 12:11

Matrix: Ground Water

Date Received: 06/12/17 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/12/17 21:13	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/12/17 21:13	1
m,p-Xylene	ND		2.00	0.280	ug/L			06/12/17 21:13	1
o-Xylene	ND		1.00	0.162	ug/L			06/12/17 21:13	1
Toluene	ND		1.00	0.312	ug/L			06/12/17 21:13	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/12/17 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 125		06/12/17 21:13	1
4-Bromofluorobenzene (Surr)	97		69 - 120		06/12/17 21:13	1
Dibromofluoromethane (Surr)	108		80 - 120		06/12/17 21:13	1
Toluene-d8 (Surr)	101		80 - 120		06/12/17 21:13	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Client Sample ID: GW-241795-060817-CP-MW-8

Lab Sample ID: 590-6329-5

Date Collected: 06/08/17 12:11

Matrix: Ground Water

Date Received: 06/12/17 15:50

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			06/12/17 21:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		68.7 - 141					06/12/17 21:13	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.490		0.245	0.0817	mg/L		06/15/17 08:16	06/15/17 11:42	1
Residual Range Organics (RRO) (C25-C36)	0.153	J	0.408	0.123	mg/L		06/15/17 08:16	06/15/17 11:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	105		50 - 150				06/15/17 08:16	06/15/17 11:42	1
n-Triacontane-d62	102		50 - 150				06/15/17 08:16	06/15/17 11:42	1

Client Sample ID: GW-241795-060817-CP-MW-9

Lab Sample ID: 590-6329-6

Date Collected: 06/08/17 09:44

Matrix: Ground Water

Date Received: 06/12/17 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/12/17 21:35	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/12/17 21:35	1
m,p-Xylene	ND		2.00	0.280	ug/L			06/12/17 21:35	1
o-Xylene	ND		1.00	0.162	ug/L			06/12/17 21:35	1
Toluene	ND		1.00	0.312	ug/L			06/12/17 21:35	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/12/17 21:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 125					06/12/17 21:35	1
4-Bromofluorobenzene (Surr)	103		69 - 120					06/12/17 21:35	1
Dibromofluoromethane (Surr)	111		80 - 120					06/12/17 21:35	1
Toluene-d8 (Surr)	103		80 - 120					06/12/17 21:35	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			06/12/17 21:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		68.7 - 141					06/12/17 21:35	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.343		0.244	0.0813	mg/L		06/15/17 08:16	06/15/17 12:00	1
Residual Range Organics (RRO) (C25-C36)	ND		0.406	0.122	mg/L		06/15/17 08:16	06/15/17 12:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	100		50 - 150				06/15/17 08:16	06/15/17 12:00	1
n-Triacontane-d62	97		50 - 150				06/15/17 08:16	06/15/17 12:00	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Client Sample ID: GW-241795-060817-CP-MW-10

Lab Sample ID: 590-6329-7

Date Collected: 06/08/17 12:36

Matrix: Ground Water

Date Received: 06/12/17 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/12/17 21:57	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/12/17 21:57	1
m,p-Xylene	ND		2.00	0.280	ug/L			06/12/17 21:57	1
o-Xylene	ND		1.00	0.162	ug/L			06/12/17 21:57	1
Toluene	ND		1.00	0.312	ug/L			06/12/17 21:57	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/12/17 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 125		06/12/17 21:57	1
4-Bromofluorobenzene (Surr)	99		69 - 120		06/12/17 21:57	1
Dibromofluoromethane (Surr)	110		80 - 120		06/12/17 21:57	1
Toluene-d8 (Surr)	106		80 - 120		06/12/17 21:57	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			06/12/17 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		68.7 - 141		06/12/17 21:57	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.624		0.264	0.0879	mg/L		06/15/17 08:16	06/15/17 12:19	1
Residual Range Organics (RRO) (C25-C36)	0.378	J	0.439	0.132	mg/L		06/15/17 08:16	06/15/17 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	99		50 - 150	06/15/17 08:16	06/15/17 12:19	1
n-Triacontane-d62	100		50 - 150	06/15/17 08:16	06/15/17 12:19	1

Client Sample ID: GW-241795-060817-CP-MW-11

Lab Sample ID: 590-6329-8

Date Collected: 06/08/17 12:58

Matrix: Ground Water

Date Received: 06/12/17 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/12/17 22:19	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/12/17 22:19	1
m,p-Xylene	ND		2.00	0.280	ug/L			06/12/17 22:19	1
o-Xylene	ND		1.00	0.162	ug/L			06/12/17 22:19	1
Toluene	ND		1.00	0.312	ug/L			06/12/17 22:19	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/12/17 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 125		06/12/17 22:19	1
4-Bromofluorobenzene (Surr)	103		69 - 120		06/12/17 22:19	1
Dibromofluoromethane (Surr)	110		80 - 120		06/12/17 22:19	1
Toluene-d8 (Surr)	104		80 - 120		06/12/17 22:19	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Client Sample ID: GW-241795-060817-CP-MW-11

Lab Sample ID: 590-6329-8

Date Collected: 06/08/17 12:58

Matrix: Ground Water

Date Received: 06/12/17 15:50

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			06/12/17 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		68.7 - 141		06/12/17 22:19	1

Client Sample ID: Trip Blank

Lab Sample ID: 590-6329-9

Date Collected: 06/08/17 08:00

Matrix: Water

Date Received: 06/12/17 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/12/17 23:04	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/12/17 23:04	1
m,p-Xylene	0.322	J	2.00	0.280	ug/L			06/12/17 23:04	1
o-Xylene	ND		1.00	0.162	ug/L			06/12/17 23:04	1
Toluene	ND		1.00	0.312	ug/L			06/12/17 23:04	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/12/17 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 125		06/12/17 23:04	1
4-Bromofluorobenzene (Surr)	99		69 - 120		06/12/17 23:04	1
Dibromofluoromethane (Surr)	106		80 - 120		06/12/17 23:04	1
Toluene-d8 (Surr)	102		80 - 120		06/12/17 23:04	1

QC Sample Results

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

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

Lab Sample ID: MB 590-12447/5
Matrix: Water
Analysis Batch: 12447

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/12/17 14:56	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/12/17 14:56	1
m,p-Xylene	ND		2.00	0.280	ug/L			06/12/17 14:56	1
o-Xylene	ND		1.00	0.162	ug/L			06/12/17 14:56	1
Toluene	ND		1.00	0.312	ug/L			06/12/17 14:56	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/12/17 14:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 125		06/12/17 14:56	1
4-Bromofluorobenzene (Surr)	94		69 - 120		06/12/17 14:56	1
Dibromofluoromethane (Surr)	108		80 - 120		06/12/17 14:56	1
Toluene-d8 (Surr)	104		80 - 120		06/12/17 14:56	1

Lab Sample ID: LCS 590-12447/1003
Matrix: Water
Analysis Batch: 12447

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	10.44		ug/L		104	80 - 120
Ethylbenzene	10.0	9.858		ug/L		99	80 - 120
m,p-Xylene	10.0	9.161		ug/L		92	80 - 120
o-Xylene	10.0	8.727		ug/L		87	80 - 120
Toluene	10.0	9.740		ug/L		97	80 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 125
4-Bromofluorobenzene (Surr)	90		69 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: MB 590-12457/7
Matrix: Water
Analysis Batch: 12457

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/13/17 11:34	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/13/17 11:34	1
m,p-Xylene	ND		2.00	0.280	ug/L			06/13/17 11:34	1
o-Xylene	ND		1.00	0.162	ug/L			06/13/17 11:34	1
Toluene	ND		1.00	0.312	ug/L			06/13/17 11:34	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/13/17 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 125		06/13/17 11:34	1
4-Bromofluorobenzene (Surr)	104		69 - 120		06/13/17 11:34	1
Dibromofluoromethane (Surr)	108		80 - 120		06/13/17 11:34	1
Toluene-d8 (Surr)	104		80 - 120		06/13/17 11:34	1

TestAmerica Spokane

QC Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Lab Sample ID: LCS 590-12457/1003
Matrix: Water
Analysis Batch: 12457

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	11.05		ug/L		110	80 - 120
Ethylbenzene	10.0	10.90		ug/L		109	80 - 120
m,p-Xylene	10.0	9.855		ug/L		99	80 - 120
o-Xylene	10.0	9.808		ug/L		98	80 - 120
Toluene	10.0	10.87		ug/L		109	80 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 125
4-Bromofluorobenzene (Surr)	97		69 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 590-6329-C-2 DU
Matrix: Ground Water
Analysis Batch: 12457

Client Sample ID: GW-241795-060817-CP-MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Benzene	ND		ND		ug/L		NC	20
Ethylbenzene	ND		ND		ug/L		NC	20
m,p-Xylene	ND		ND		ug/L		NC	20
o-Xylene	0.471	J	ND		ug/L		NC	20
Toluene	ND		ND		ug/L		NC	20
Xylenes, Total	0.471	J	ND		ug/L		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 125
4-Bromofluorobenzene (Surr)	104		69 - 120
Dibromofluoromethane (Surr)	106		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-12448/5
Matrix: Water
Analysis Batch: 12448

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			06/12/17 14:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		68.7 - 141		06/12/17 14:56	1

Lab Sample ID: LCS 590-12448/1004
Matrix: Water
Analysis Batch: 12448

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	1000	902.7		ug/L		90	80 - 120

TestAmerica Spokane

QC Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCS 590-12448/1004
Matrix: Water
Analysis Batch: 12448

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		68.7 - 141

Lab Sample ID: MB 590-12458/7
Matrix: Water
Analysis Batch: 12458

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			06/13/17 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		68.7 - 141		06/13/17 11:34	1

Lab Sample ID: LCS 590-12458/1006
Matrix: Water
Analysis Batch: 12458

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	1000	938.0		ug/L		94	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		68.7 - 141

Lab Sample ID: 590-6329-C-2 DU
Matrix: Ground Water
Analysis Batch: 12458

Client Sample ID: 590-6329-C-2 DU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Gasoline	ND		ND		ug/L		NC	35

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		68.7 - 141

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-12501/1-A
Matrix: Water
Analysis Batch: 12506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.240	0.0800	mg/L		06/15/17 08:16	06/15/17 09:56	1
Residual Range Organics (RRO) (C25-C36)	ND		0.400	0.120	mg/L		06/15/17 08:16	06/15/17 09:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	99		50 - 150	06/15/17 08:16	06/15/17 09:56	1
n-Triacontane-d62	88		50 - 150	06/15/17 08:16	06/15/17 09:56	1

TestAmerica Spokane

QC Sample Results

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Lab Sample ID: LCS 590-12501/2-A
Matrix: Water
Analysis Batch: 12506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO) (C10-C25)	1.60	1.522		mg/L		95	50 - 150
Residual Range Organics (RRO) (C25-C36)	1.60	1.901		mg/L		119	50 - 150
Surrogate		LCS %Recovery	LCS Qualifier				Limits
<i>o</i> -Terphenyl		111					50 - 150
<i>n</i> -Triacontane-d62		107					50 - 150

Lab Sample ID: LCSD 590-12501/3-A
Matrix: Water
Analysis Batch: 12506

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 12501

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	1.60	1.345		mg/L		84	50 - 150	12	25
Residual Range Organics (RRO) (C25-C36)	1.60	1.857		mg/L		116	50 - 150	2	25
Surrogate		LCSD %Recovery	LCSD Qualifier				Limits		
<i>o</i> -Terphenyl		104					50 - 150		
<i>n</i> -Triacontane-d62		107					50 - 150		

QC Association Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

GC/MS VOA

Analysis Batch: 12447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-6329-4	GW-241795-060817-CP-MW-6	Total/NA	Ground Water	8260C	
590-6329-5	GW-241795-060817-CP-MW-8	Total/NA	Ground Water	8260C	
590-6329-6	GW-241795-060817-CP-MW-9	Total/NA	Ground Water	8260C	
590-6329-7	GW-241795-060817-CP-MW-10	Total/NA	Ground Water	8260C	
590-6329-8	GW-241795-060817-CP-MW-11	Total/NA	Ground Water	8260C	
590-6329-9	Trip Blank	Total/NA	Water	8260C	
MB 590-12447/5	Method Blank	Total/NA	Water	8260C	
LCS 590-12447/1003	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 12448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-6329-2	GW-241795-060817-CP-MW-4	Total/NA	Ground Water	NWTPH-Gx	
590-6329-3	GW-241795-060817-CP-MW-5	Total/NA	Ground Water	NWTPH-Gx	
590-6329-4	GW-241795-060817-CP-MW-6	Total/NA	Ground Water	NWTPH-Gx	
590-6329-5	GW-241795-060817-CP-MW-8	Total/NA	Ground Water	NWTPH-Gx	
590-6329-6	GW-241795-060817-CP-MW-9	Total/NA	Ground Water	NWTPH-Gx	
590-6329-7	GW-241795-060817-CP-MW-10	Total/NA	Ground Water	NWTPH-Gx	
590-6329-8	GW-241795-060817-CP-MW-11	Total/NA	Ground Water	NWTPH-Gx	
MB 590-12448/5	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-12448/1004	Lab Control Sample	Total/NA	Water	NWTPH-Gx	

Analysis Batch: 12457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-6329-1	GW-241795-060817-CP-MW-2	Total/NA	Ground Water	8260C	
590-6329-1	GW-241795-060817-CP-MW-2	Total/NA	Ground Water	8260C	
590-6329-2	GW-241795-060817-CP-MW-4	Total/NA	Ground Water	8260C	
590-6329-3	GW-241795-060817-CP-MW-5	Total/NA	Ground Water	8260C	
MB 590-12457/7	Method Blank	Total/NA	Water	8260C	
LCS 590-12457/1003	Lab Control Sample	Total/NA	Water	8260C	
590-6329-C-2 DU	GW-241795-060817-CP-MW-4	Total/NA	Ground Water	8260C	

Analysis Batch: 12458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-6329-1	GW-241795-060817-CP-MW-2	Total/NA	Ground Water	NWTPH-Gx	
MB 590-12458/7	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-12458/1006	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
590-6329-C-2 DU	590-6329-C-2 DU	Total/NA	Ground Water	NWTPH-Gx	

GC Semi VOA

Prep Batch: 12501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-6329-2	GW-241795-060817-CP-MW-4	Total/NA	Ground Water	3510C	
590-6329-3	GW-241795-060817-CP-MW-5	Total/NA	Ground Water	3510C	
590-6329-4	GW-241795-060817-CP-MW-6	Total/NA	Ground Water	3510C	
590-6329-5	GW-241795-060817-CP-MW-8	Total/NA	Ground Water	3510C	
590-6329-6	GW-241795-060817-CP-MW-9	Total/NA	Ground Water	3510C	
590-6329-7	GW-241795-060817-CP-MW-10	Total/NA	Ground Water	3510C	
MB 590-12501/1-A	Method Blank	Total/NA	Water	3510C	
LCS 590-12501/2-A	Lab Control Sample	Total/NA	Water	3510C	

TestAmerica Spokane

QC Association Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

GC Semi VOA (Continued)

Prep Batch: 12501 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 590-12501/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 12506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-6329-2	GW-241795-060817-CP-MW-4	Total/NA	Ground Water	NWTPH-Dx	12501
590-6329-3	GW-241795-060817-CP-MW-5	Total/NA	Ground Water	NWTPH-Dx	12501
590-6329-4	GW-241795-060817-CP-MW-6	Total/NA	Ground Water	NWTPH-Dx	12501
590-6329-5	GW-241795-060817-CP-MW-8	Total/NA	Ground Water	NWTPH-Dx	12501
590-6329-6	GW-241795-060817-CP-MW-9	Total/NA	Ground Water	NWTPH-Dx	12501
590-6329-7	GW-241795-060817-CP-MW-10	Total/NA	Ground Water	NWTPH-Dx	12501
MB 590-12501/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	12501
LCS 590-12501/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	12501
LCSD 590-12501/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	12501

Lab Chronicle

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Client Sample ID: GW-241795-060817-CP-MW-2
Date Collected: 06/08/17 10:09
Date Received: 06/12/17 15:50

Lab Sample ID: 590-6329-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	43 mL	43 mL	12457	06/13/17 11:56	MRS	TAL SPK
Total/NA	Analysis	8260C		100	43 mL	43 mL	12457	06/13/17 14:06	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		10	43 mL	43 mL	12458	06/13/17 11:56	MRS	TAL SPK

Client Sample ID: GW-241795-060817-CP-MW-4
Date Collected: 06/08/17 10:39
Date Received: 06/12/17 15:50

Lab Sample ID: 590-6329-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	12457	06/13/17 12:18	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	12448	06/12/17 20:06	MRS	TAL SPK
Total/NA	Prep	3510C			227.9 mL	2 mL	12501	06/15/17 08:16	SJB	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			12506	06/15/17 10:47	NMI	TAL SPK

Client Sample ID: GW-241795-060817-CP-MW-5
Date Collected: 06/08/17 11:15
Date Received: 06/12/17 15:50

Lab Sample ID: 590-6329-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	12457	06/13/17 13:02	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	12448	06/12/17 20:29	MRS	TAL SPK
Total/NA	Prep	3510C			245.2 mL	2 mL	12501	06/15/17 08:16	SJB	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			12506	06/15/17 11:05	NMI	TAL SPK

Client Sample ID: GW-241795-060817-CP-MW-6
Date Collected: 06/08/17 11:41
Date Received: 06/12/17 15:50

Lab Sample ID: 590-6329-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	12447	06/12/17 20:51	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	12448	06/12/17 20:51	MRS	TAL SPK
Total/NA	Prep	3510C			225.7 mL	2 mL	12501	06/15/17 08:16	SJB	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			12506	06/15/17 11:24	NMI	TAL SPK

Client Sample ID: GW-241795-060817-CP-MW-8
Date Collected: 06/08/17 12:11
Date Received: 06/12/17 15:50

Lab Sample ID: 590-6329-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	12447	06/12/17 21:13	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	12448	06/12/17 21:13	MRS	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Client Sample ID: GW-241795-060817-CP-MW-8

Lab Sample ID: 590-6329-5

Date Collected: 06/08/17 12:11

Matrix: Ground Water

Date Received: 06/12/17 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			244.8 mL	2 mL	12501	06/15/17 08:16	SJB	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			12506	06/15/17 11:42	NMI	TAL SPK

Client Sample ID: GW-241795-060817-CP-MW-9

Lab Sample ID: 590-6329-6

Date Collected: 06/08/17 09:44

Matrix: Ground Water

Date Received: 06/12/17 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	12447	06/12/17 21:35	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	12448	06/12/17 21:35	MRS	TAL SPK
Total/NA	Prep	3510C			246.1 mL	2 mL	12501	06/15/17 08:16	SJB	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			12506	06/15/17 12:00	NMI	TAL SPK

Client Sample ID: GW-241795-060817-CP-MW-10

Lab Sample ID: 590-6329-7

Date Collected: 06/08/17 12:36

Matrix: Ground Water

Date Received: 06/12/17 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	12447	06/12/17 21:57	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	12448	06/12/17 21:57	MRS	TAL SPK
Total/NA	Prep	3510C			227.6 mL	2 mL	12501	06/15/17 08:16	SJB	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			12506	06/15/17 12:19	NMI	TAL SPK

Client Sample ID: GW-241795-060817-CP-MW-11

Lab Sample ID: 590-6329-8

Date Collected: 06/08/17 12:58

Matrix: Ground Water

Date Received: 06/12/17 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	12447	06/12/17 22:19	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	12448	06/12/17 22:19	MRS	TAL SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-6329-9

Date Collected: 06/08/17 08:00

Matrix: Water

Date Received: 06/12/17 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	12447	06/12/17 23:04	MRS	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

TestAmerica Spokane

Definitions/Glossary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

Glossary

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

Accreditation/Certification Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-6329-1

Laboratory: TestAmerica Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C569	01-06-18

Analysis Method	Prep Method	Matrix	Analyte
-----------------	-------------	--------	---------

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

LAB (LOCATION)

ACUTEST
 CALSCIENCE
 ESTAMERICA
 Other

Lab Vendor # 1364589 (Testimonial)



Equilon Enterprises LLC dba Shell Oil P

Print Bill To Contact:

Clifford Pearson

PO #

590-6329 Chain of Custody



AECOM

CHECK IF NO INCIDENT # APPLIES

DATE: 6/9/17

PAGE: 1 of 1

Blaine Tech Services
1680 Rogers Ave., San Jose, CA

Clifford Pearson
206-438-2371
clifford.pearson@aecom.com

1349 NW State St., Chehalis

Clifford Pearson, AECOM, Portland, OR 503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

Blaine Tech Services

Clifford Pearson

Clifford Pearson, AECOM, Portland, OR

503-243-3121

60482107

AECOM Project / Task Number

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE				NO. OF CONT.	LAB-55 BTEX	LAB-35 MTBE	LAB-36 TBA	LAB-37 DIPE	LAB-38 TAME	LAB-39 ETBE	WA - NWTPH-Gx	Total Lead	NON-UNIT COST	FIELD NOTES:	
		DATE	TIME		HCL	HNO3	H2SO4	NONE												OTHER
	6W-241795-060817-Q-NW-2	6/9/17	1009	W6	X				4	X										
	6W-241795-060817-Q-NW-4		1039	W6	X				4	X										
	6W-241795-060817-Q-NW-5		1115	W6	X				4	X										
	6W-241795-060817-Q-NW-6		1141	W6	X				4	X										
	6W-241795-060817-Q-NW-8		1211	W6	X				4	X										
	6W-241795-060817-Q-NW-9		0944	W6	X				4	X										
	6W-241795-060817-Q-NW-10		1236	W6	X				4	X										
	6W-241795-060817-Q-NW-11		1258	W6	X				4	X										
	7TB		0800	W6	X				2	X										

Requested by (Signature)
Clifford Pearson

Received by (Signature)
Clifford Pearson

Date: 6/12/17
Time: 1550

Date: 6/13/17
Time: 1550

TEMPERATURE ON RECEIPT C°
1.4 CT/POC

Container PID Readings or Laboratory Notes

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 590-6329-1

Login Number: 6329

List Source: TestAmerica Spokane

List Number: 1

Creator: Kratz, Sheila J

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Spokane

11922 East 1st Ave

Spokane, WA 99206

Tel: (509)924-9200

TestAmerica Job ID: 590-7029-1

Client Project/Site: 1349 NW State St. Chehalis (60482107)

Sampling Event: Gx/BTEX + 5 Oxys & Dx Event

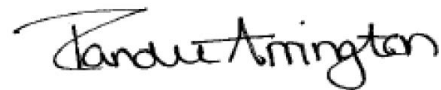
For:

AECOM, Inc.

111 SW Columbia Street, Suite 1500

Portland, Oregon 97201

Attn: Clifford Pearson



Authorized for release by:

9/18/2017 1:07:16 PM

Randee Arrington, Project Manager II

(509)924-9200

randee.arrington@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Sample Summary	4
Method Summary	5
Detection Summary	6
Client Sample Results	8
QC Sample Results	15
QC Association	20
Chronicle	22
Definitions	24
Certification Summary	25
Chain of Custody	27
Receipt Checklists	28

Case Narrative

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Job ID: 590-7029-1

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 9/8/2017 2:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9° C.

GC/MS VOA

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

GC Semi VOA

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to heavily weathered diesel and/or biogenic interference in the following samples: GW-241795-090717-CP-MW-4 (590-7029-2), GW-241795-090717-CP-MW-5 (590-7029-3), GW-241795-090717-CP-MW-6 (590-7029-4), GW-241795-090717-CP-MW-8 (590-7029-5), GW-241795-090717-CP-MW-9 (590-7029-6) and GW-241795-090717-CP-MW-10 (590-7029-7).

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

Organic Prep

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

VOA Prep

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



Sample Summary

Client: AECOM, Inc.

TestAmerica Job ID: 590-7029-1

Project/Site: 1349 NW State St. Chehalis (60482107)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-7029-1	GW-241795-090717-CP-MW-2	Ground Water	09/07/17 09:51	09/08/17 14:30
590-7029-2	GW-241795-090717-CP-MW-4	Ground Water	09/07/17 10:14	09/08/17 14:30
590-7029-3	GW-241795-090717-CP-MW-5	Ground Water	09/07/17 10:39	09/08/17 14:30
590-7029-4	GW-241795-090717-CP-MW-6	Ground Water	09/07/17 11:06	09/08/17 14:30
590-7029-5	GW-241795-090717-CP-MW-8	Ground Water	09/07/17 11:38	09/08/17 14:30
590-7029-6	GW-241795-090717-CP-MW-9	Ground Water	09/07/17 09:24	09/08/17 14:30
590-7029-7	GW-241795-090717-CP-MW-10	Ground Water	09/07/17 12:03	09/08/17 14:30
590-7029-8	GW-241795-090717-CP-MW-11	Ground Water	09/07/17 12:28	09/08/17 14:30
590-7029-9	Trip Blank	Water	09/07/17 08:15	09/08/17 14:30

Method Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL NSH
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Detection Summary

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Client Sample ID: GW-241795-090717-CP-MW-2

Lab Sample ID: 590-7029-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
TBA	1060		10.0	3.90	ug/L	1		8260C	Total/NA
Benzene	304		10.0	2.00	ug/L	10		8260C	Total/NA
Ethylbenzene	23.4		1.00	0.190	ug/L	1		8260C	Total/NA
MTBE	10.1		1.00	0.170	ug/L	1		8260C	Total/NA
m,p-Xylene	98.2		2.00	0.380	ug/L	1		8260C	Total/NA
o-Xylene	47.2		1.00	0.200	ug/L	1		8260C	Total/NA
Toluene	33.5		1.00	0.170	ug/L	1		8260C	Total/NA
Xylenes, Total	145		3.00	0.580	ug/L	1		8260C	Total/NA
DIPE	0.325	J	2.00	0.170	ug/L	1		8260C	Total/NA
Ethyl tert-Butyl Ether (ETBE)	13.6		1.00	0.210	ug/L	1		8260C	Total/NA
Gasoline	1040		150	70.4	ug/L	1		NWTPH-Gx	Total/NA

Client Sample ID: GW-241795-090717-CP-MW-4

Lab Sample ID: 590-7029-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.195	J	0.244	0.0812	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-090717-CP-MW-5

Lab Sample ID: 590-7029-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.801		0.245	0.0815	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.200	J	0.408	0.122	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-090717-CP-MW-6

Lab Sample ID: 590-7029-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
TBA	396		10.0	3.90	ug/L	1		8260C	Total/NA
MTBE	1.67		1.00	0.170	ug/L	1		8260C	Total/NA
m,p-Xylene	0.594	J	2.00	0.380	ug/L	1		8260C	Total/NA
o-Xylene	0.348	J	1.00	0.200	ug/L	1		8260C	Total/NA
Toluene	0.855	J	1.00	0.170	ug/L	1		8260C	Total/NA
Xylenes, Total	0.942	J	3.00	0.580	ug/L	1		8260C	Total/NA
Ethyl tert-Butyl Ether (ETBE)	3.13		1.00	0.210	ug/L	1		8260C	Total/NA
Gasoline	98.1	J	150	70.4	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.679		0.244	0.0812	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.145	J	0.406	0.122	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-090717-CP-MW-8

Lab Sample ID: 590-7029-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
TBA	4.70	J	10.0	3.90	ug/L	1		8260C	Total/NA
Benzene	5.12		1.00	0.200	ug/L	1		8260C	Total/NA
Ethylbenzene	0.554	J	1.00	0.190	ug/L	1		8260C	Total/NA
MTBE	0.454	J	1.00	0.170	ug/L	1		8260C	Total/NA
Toluene	6.73		1.00	0.170	ug/L	1		8260C	Total/NA
Gasoline	129	J	150	70.4	ug/L	1		NWTPH-Gx	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Spokane

Detection Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Client Sample ID: GW-241795-090717-CP-MW-8 (Continued)

Lab Sample ID: 590-7029-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.624		0.244	0.0812	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.254	J	0.406	0.122	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-090717-CP-MW-9

Lab Sample ID: 590-7029-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
TBA	5.66	J	10.0	3.90	ug/L	1		8260C	Total/NA
MTBE	3.06		1.00	0.170	ug/L	1		8260C	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.519		0.259	0.0863	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.198	J	0.431	0.129	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-090717-CP-MW-10

Lab Sample ID: 590-7029-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.712		0.248	0.0825	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.377	J	0.413	0.124	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-090717-CP-MW-11

Lab Sample ID: 590-7029-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	73.2	J	150	70.4	ug/L	1		NWTPH-Gx	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 590-7029-9

No Detections.

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Client Sample ID: GW-241795-090717-CP-MW-2

Lab Sample ID: 590-7029-1

Date Collected: 09/07/17 09:51

Matrix: Ground Water

Date Received: 09/08/17 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TBA	1060		10.0	3.90	ug/L			09/12/17 16:44	1
Benzene	304		10.0	2.00	ug/L			09/10/17 12:11	10
Ethylbenzene	23.4		1.00	0.190	ug/L			09/12/17 16:44	1
MTBE	10.1		1.00	0.170	ug/L			09/12/17 16:44	1
m,p-Xylene	98.2		2.00	0.380	ug/L			09/12/17 16:44	1
o-Xylene	47.2		1.00	0.200	ug/L			09/12/17 16:44	1
Toluene	33.5		1.00	0.170	ug/L			09/12/17 16:44	1
Xylenes, Total	145		3.00	0.580	ug/L			09/12/17 16:44	1
DIPE	0.325	J	2.00	0.170	ug/L			09/12/17 16:44	1
TAME	ND		1.00	0.170	ug/L			09/12/17 16:44	1
Ethyl tert-Butyl Ether (ETBE)	13.6		1.00	0.210	ug/L			09/12/17 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		70 - 130		09/10/17 12:11	10
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		09/12/17 16:44	1
4-Bromofluorobenzene (Surr)	113		70 - 130		09/10/17 12:11	10
4-Bromofluorobenzene (Surr)	99		70 - 130		09/12/17 16:44	1
Dibromofluoromethane (Surr)	95		70 - 130		09/10/17 12:11	10
Dibromofluoromethane (Surr)	100		70 - 130		09/12/17 16:44	1
Toluene-d8 (Surr)	104		70 - 130		09/10/17 12:11	10
Toluene-d8 (Surr)	97		70 - 130		09/12/17 16:44	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1040		150	70.4	ug/L			09/13/17 23:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		68.7 - 141		09/13/17 23:58	1

Client Sample ID: GW-241795-090717-CP-MW-4

Lab Sample ID: 590-7029-2

Date Collected: 09/07/17 10:14

Matrix: Ground Water

Date Received: 09/08/17 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TBA	ND		10.0	3.90	ug/L			09/10/17 07:43	1
Benzene	ND		1.00	0.200	ug/L			09/10/17 07:43	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/10/17 07:43	1
MTBE	ND		1.00	0.170	ug/L			09/10/17 07:43	1
m,p-Xylene	ND		2.00	0.380	ug/L			09/10/17 07:43	1
o-Xylene	ND		1.00	0.200	ug/L			09/10/17 07:43	1
Toluene	ND		1.00	0.170	ug/L			09/10/17 07:43	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/10/17 07:43	1
DIPE	ND		2.00	0.170	ug/L			09/10/17 07:43	1
TAME	ND		1.00	0.170	ug/L			09/10/17 07:43	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			09/10/17 07:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 130		09/10/17 07:43	1
4-Bromofluorobenzene (Surr)	115		70 - 130		09/10/17 07:43	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Client Sample ID: GW-241795-090717-CP-MW-4

Lab Sample ID: 590-7029-2

Date Collected: 09/07/17 10:14

Matrix: Ground Water

Date Received: 09/08/17 14:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		70 - 130		09/10/17 07:43	1
Toluene-d8 (Surr)	103		70 - 130		09/10/17 07:43	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			09/14/17 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		68.7 - 141		09/14/17 00:20	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.195	J	0.244	0.0812	mg/L		09/11/17 13:32	09/11/17 18:42	1
Residual Range Organics (RRO) (C25-C36)	ND		0.406	0.122	mg/L		09/11/17 13:32	09/11/17 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150	09/11/17 13:32	09/11/17 18:42	1
n-Triacontane-d62	89		50 - 150	09/11/17 13:32	09/11/17 18:42	1

Client Sample ID: GW-241795-090717-CP-MW-5

Lab Sample ID: 590-7029-3

Date Collected: 09/07/17 10:39

Matrix: Ground Water

Date Received: 09/08/17 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TBA	ND		10.0	3.90	ug/L			09/10/17 08:10	1
Benzene	ND		1.00	0.200	ug/L			09/10/17 08:10	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/10/17 08:10	1
MTBE	ND		1.00	0.170	ug/L			09/10/17 08:10	1
m,p-Xylene	ND		2.00	0.380	ug/L			09/10/17 08:10	1
o-Xylene	ND		1.00	0.200	ug/L			09/10/17 08:10	1
Toluene	ND		1.00	0.170	ug/L			09/10/17 08:10	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/10/17 08:10	1
DIPE	ND		2.00	0.170	ug/L			09/10/17 08:10	1
TAME	ND		1.00	0.170	ug/L			09/10/17 08:10	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			09/10/17 08:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 130		09/10/17 08:10	1
4-Bromofluorobenzene (Surr)	111		70 - 130		09/10/17 08:10	1
Dibromofluoromethane (Surr)	94		70 - 130		09/10/17 08:10	1
Toluene-d8 (Surr)	106		70 - 130		09/10/17 08:10	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			09/14/17 00:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		68.7 - 141		09/14/17 00:41	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Client Sample ID: GW-241795-090717-CP-MW-5

Lab Sample ID: 590-7029-3

Date Collected: 09/07/17 10:39

Matrix: Ground Water

Date Received: 09/08/17 14:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.801		0.245	0.0815	mg/L		09/11/17 13:32	09/11/17 19:00	1
Residual Range Organics (RRO) (C25-C36)	0.200	J	0.408	0.122	mg/L		09/11/17 13:32	09/11/17 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	96		50 - 150				09/11/17 13:32	09/11/17 19:00	1
<i>n</i> -Triacontane-d62	94		50 - 150				09/11/17 13:32	09/11/17 19:00	1

Client Sample ID: GW-241795-090717-CP-MW-6

Lab Sample ID: 590-7029-4

Date Collected: 09/07/17 11:06

Matrix: Ground Water

Date Received: 09/08/17 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TBA	396		10.0	3.90	ug/L			09/10/17 08:37	1
Benzene	ND		1.00	0.200	ug/L			09/10/17 08:37	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/10/17 08:37	1
MTBE	1.67		1.00	0.170	ug/L			09/10/17 08:37	1
<i>m,p</i> -Xylene	0.594	J	2.00	0.380	ug/L			09/10/17 08:37	1
<i>o</i> -Xylene	0.348	J	1.00	0.200	ug/L			09/10/17 08:37	1
Toluene	0.855	J	1.00	0.170	ug/L			09/10/17 08:37	1
Xylenes, Total	0.942	J	3.00	0.580	ug/L			09/10/17 08:37	1
DIPE	ND		2.00	0.170	ug/L			09/10/17 08:37	1
TAME	ND		1.00	0.170	ug/L			09/10/17 08:37	1
Ethyl tert-Butyl Ether (ETBE)	3.13		1.00	0.210	ug/L			09/10/17 08:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 130					09/10/17 08:37	1
4-Bromofluorobenzene (Surr)	114		70 - 130					09/10/17 08:37	1
Dibromofluoromethane (Surr)	94		70 - 130					09/10/17 08:37	1
Toluene-d8 (Surr)	104		70 - 130					09/10/17 08:37	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	98.1	J	150	70.4	ug/L			09/14/17 01:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141					09/14/17 01:02	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.679		0.244	0.0812	mg/L		09/11/17 13:32	09/11/17 19:18	1
Residual Range Organics (RRO) (C25-C36)	0.145	J	0.406	0.122	mg/L		09/11/17 13:32	09/11/17 19:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	99		50 - 150				09/11/17 13:32	09/11/17 19:18	1
<i>n</i> -Triacontane-d62	99		50 - 150				09/11/17 13:32	09/11/17 19:18	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Client Sample ID: GW-241795-090717-CP-MW-8

Lab Sample ID: 590-7029-5

Date Collected: 09/07/17 11:38

Matrix: Ground Water

Date Received: 09/08/17 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TBA	4.70	J	10.0	3.90	ug/L			09/10/17 09:04	1
Benzene	5.12		1.00	0.200	ug/L			09/10/17 09:04	1
Ethylbenzene	0.554	J	1.00	0.190	ug/L			09/10/17 09:04	1
MTBE	0.454	J	1.00	0.170	ug/L			09/10/17 09:04	1
m,p-Xylene	ND		2.00	0.380	ug/L			09/10/17 09:04	1
o-Xylene	ND		1.00	0.200	ug/L			09/10/17 09:04	1
Toluene	6.73		1.00	0.170	ug/L			09/10/17 09:04	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/10/17 09:04	1
DIPE	ND		2.00	0.170	ug/L			09/10/17 09:04	1
TAME	ND		1.00	0.170	ug/L			09/10/17 09:04	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			09/10/17 09:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 130					09/10/17 09:04	1
4-Bromofluorobenzene (Surr)	118		70 - 130					09/10/17 09:04	1
Dibromofluoromethane (Surr)	95		70 - 130					09/10/17 09:04	1
Toluene-d8 (Surr)	103		70 - 130					09/10/17 09:04	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	129	J	150	70.4	ug/L			09/14/17 01:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		68.7 - 141					09/14/17 01:23	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.624		0.244	0.0812	mg/L		09/11/17 13:32	09/11/17 19:36	1
Residual Range Organics (RRO) (C25-C36)	0.254	J	0.406	0.122	mg/L		09/11/17 13:32	09/11/17 19:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150				09/11/17 13:32	09/11/17 19:36	1
n-Triacontane-d62	69		50 - 150				09/11/17 13:32	09/11/17 19:36	1

Client Sample ID: GW-241795-090717-CP-MW-9

Lab Sample ID: 590-7029-6

Date Collected: 09/07/17 09:24

Matrix: Ground Water

Date Received: 09/08/17 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TBA	5.66	J	10.0	3.90	ug/L			09/10/17 09:30	1
Benzene	ND		1.00	0.200	ug/L			09/10/17 09:30	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/10/17 09:30	1
MTBE	3.06		1.00	0.170	ug/L			09/10/17 09:30	1
m,p-Xylene	ND		2.00	0.380	ug/L			09/10/17 09:30	1
o-Xylene	ND		1.00	0.200	ug/L			09/10/17 09:30	1
Toluene	ND		1.00	0.170	ug/L			09/10/17 09:30	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/10/17 09:30	1
DIPE	ND		2.00	0.170	ug/L			09/10/17 09:30	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Client Sample ID: GW-241795-090717-CP-MW-9

Lab Sample ID: 590-7029-6

Date Collected: 09/07/17 09:24

Matrix: Ground Water

Date Received: 09/08/17 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TAME	ND		1.00	0.170	ug/L			09/10/17 09:30	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			09/10/17 09:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 130					09/10/17 09:30	1
4-Bromofluorobenzene (Surr)	118		70 - 130					09/10/17 09:30	1
Dibromofluoromethane (Surr)	93		70 - 130					09/10/17 09:30	1
Toluene-d8 (Surr)	105		70 - 130					09/10/17 09:30	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			09/14/17 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		68.7 - 141					09/14/17 01:44	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	0.519		0.259	0.0863	mg/L		09/11/17 13:32	09/11/17 19:53	1
(C10-C25)									
Residual Range Organics (RRO)	0.198	J	0.431	0.129	mg/L		09/11/17 13:32	09/11/17 19:53	1
(C25-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150				09/11/17 13:32	09/11/17 19:53	1
n-Triacontane-d62	92		50 - 150				09/11/17 13:32	09/11/17 19:53	1

Client Sample ID: GW-241795-090717-CP-MW-10

Lab Sample ID: 590-7029-7

Date Collected: 09/07/17 12:03

Matrix: Ground Water

Date Received: 09/08/17 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TBA	ND		10.0	3.90	ug/L			09/10/17 09:57	1
Benzene	ND		1.00	0.200	ug/L			09/10/17 09:57	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/10/17 09:57	1
MTBE	ND		1.00	0.170	ug/L			09/10/17 09:57	1
m,p-Xylene	ND		2.00	0.380	ug/L			09/10/17 09:57	1
o-Xylene	ND		1.00	0.200	ug/L			09/10/17 09:57	1
Toluene	ND		1.00	0.170	ug/L			09/10/17 09:57	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/10/17 09:57	1
DIPE	ND		2.00	0.170	ug/L			09/10/17 09:57	1
TAME	ND		1.00	0.170	ug/L			09/10/17 09:57	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			09/10/17 09:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		70 - 130					09/10/17 09:57	1
4-Bromofluorobenzene (Surr)	112		70 - 130					09/10/17 09:57	1
Dibromofluoromethane (Surr)	95		70 - 130					09/10/17 09:57	1
Toluene-d8 (Surr)	107		70 - 130					09/10/17 09:57	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Client Sample ID: GW-241795-090717-CP-MW-10

Lab Sample ID: 590-7029-7

Date Collected: 09/07/17 12:03

Matrix: Ground Water

Date Received: 09/08/17 14:30

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			09/14/17 02:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141					09/14/17 02:06	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.712		0.248	0.0825	mg/L		09/11/17 13:32	09/11/17 20:11	1
Residual Range Organics (RRO) (C25-C36)	0.377	J	0.413	0.124	mg/L		09/11/17 13:32	09/11/17 20:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	94		50 - 150				09/11/17 13:32	09/11/17 20:11	1
n-Triacontane-d62	95		50 - 150				09/11/17 13:32	09/11/17 20:11	1

Client Sample ID: GW-241795-090717-CP-MW-11

Lab Sample ID: 590-7029-8

Date Collected: 09/07/17 12:28

Matrix: Ground Water

Date Received: 09/08/17 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TBA	ND		10.0	3.90	ug/L			09/10/17 10:24	1
Benzene	ND		1.00	0.200	ug/L			09/10/17 10:24	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/10/17 10:24	1
MTBE	ND		1.00	0.170	ug/L			09/10/17 10:24	1
m,p-Xylene	ND		2.00	0.380	ug/L			09/10/17 10:24	1
o-Xylene	ND		1.00	0.200	ug/L			09/10/17 10:24	1
Toluene	ND		1.00	0.170	ug/L			09/10/17 10:24	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/10/17 10:24	1
DIPE	ND		2.00	0.170	ug/L			09/10/17 10:24	1
TAME	ND		1.00	0.170	ug/L			09/10/17 10:24	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			09/10/17 10:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		70 - 130					09/10/17 10:24	1
4-Bromofluorobenzene (Surr)	108		70 - 130					09/10/17 10:24	1
Dibromofluoromethane (Surr)	94		70 - 130					09/10/17 10:24	1
Toluene-d8 (Surr)	104		70 - 130					09/10/17 10:24	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	73.2	J	150	70.4	ug/L			09/14/17 02:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141					09/14/17 02:27	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Client Sample ID: Trip Blank

Lab Sample ID: 590-7029-9

Date Collected: 09/07/17 08:15

Matrix: Water

Date Received: 09/08/17 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			09/14/17 02:48	1
Ethylbenzene	ND		1.00	0.198	ug/L			09/14/17 02:48	1
m,p-Xylene	ND		2.00	0.280	ug/L			09/14/17 02:48	1
o-Xylene	ND		1.00	0.162	ug/L			09/14/17 02:48	1
Toluene	ND		1.00	0.312	ug/L			09/14/17 02:48	1
Xylenes, Total	ND		3.00	0.442	ug/L			09/14/17 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 125		09/14/17 02:48	1
4-Bromofluorobenzene (Surr)	103		69 - 120		09/14/17 02:48	1
Dibromofluoromethane (Surr)	106		80 - 120		09/14/17 02:48	1
Toluene-d8 (Surr)	100		80 - 120		09/14/17 02:48	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

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

Lab Sample ID: MB 590-13775/6

Matrix: Water

Analysis Batch: 13775

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			09/13/17 19:22	1
Ethylbenzene	ND		1.00	0.198	ug/L			09/13/17 19:22	1
m,p-Xylene	ND		2.00	0.280	ug/L			09/13/17 19:22	1
o-Xylene	ND		1.00	0.162	ug/L			09/13/17 19:22	1
Toluene	ND		1.00	0.312	ug/L			09/13/17 19:22	1
Xylenes, Total	ND		3.00	0.442	ug/L			09/13/17 19:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 125		09/13/17 19:22	1
4-Bromofluorobenzene (Surr)	100		69 - 120		09/13/17 19:22	1
Dibromofluoromethane (Surr)	103		80 - 120		09/13/17 19:22	1
Toluene-d8 (Surr)	100		80 - 120		09/13/17 19:22	1

Lab Sample ID: LCS 590-13775/1004

Matrix: Water

Analysis Batch: 13775

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	10.41		ug/L		104	80 - 120
Ethylbenzene	10.0	9.910		ug/L		99	80 - 120
m,p-Xylene	10.0	9.766		ug/L		98	80 - 120
o-Xylene	10.0	9.616		ug/L		96	80 - 120
Toluene	10.0	9.751		ug/L		98	80 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 125
4-Bromofluorobenzene (Surr)	102		69 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 590-13775/7

Matrix: Water

Analysis Batch: 13775

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	10.29		ug/L		103	80 - 120	1	25
Ethylbenzene	10.0	10.51		ug/L		105	80 - 120	6	25
m,p-Xylene	10.0	10.20		ug/L		102	80 - 120	4	25
o-Xylene	10.0	10.01		ug/L		100	80 - 120	4	25
Toluene	10.0	10.32		ug/L		103	80 - 123	6	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 125
4-Bromofluorobenzene (Surr)	101		69 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	101		80 - 120

TestAmerica Spokane

QC Sample Results

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

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

Lab Sample ID: MB 490-458850/7

Matrix: Water

Analysis Batch: 458850

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TBA	ND		10.0	3.90	ug/L			09/10/17 04:10	1
Benzene	ND		1.00	0.200	ug/L			09/10/17 04:10	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/10/17 04:10	1
MTBE	ND		1.00	0.170	ug/L			09/10/17 04:10	1
m,p-Xylene	ND		2.00	0.380	ug/L			09/10/17 04:10	1
o-Xylene	ND		1.00	0.200	ug/L			09/10/17 04:10	1
Toluene	ND		1.00	0.170	ug/L			09/10/17 04:10	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/10/17 04:10	1
DIPE	ND		2.00	0.170	ug/L			09/10/17 04:10	1
TAME	ND		1.00	0.170	ug/L			09/10/17 04:10	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			09/10/17 04:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		70 - 130		09/10/17 04:10	1
4-Bromofluorobenzene (Surr)	117		70 - 130		09/10/17 04:10	1
Dibromofluoromethane (Surr)	95		70 - 130		09/10/17 04:10	1
Toluene-d8 (Surr)	104		70 - 130		09/10/17 04:10	1

Lab Sample ID: LCS 490-458850/4

Matrix: Water

Analysis Batch: 458850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TBA	200	200.0		ug/L		100	54 - 150
Benzene	20.0	19.63		ug/L		98	80 - 121
Ethylbenzene	20.0	21.37		ug/L		107	80 - 130
MTBE	20.0	21.98		ug/L		110	72 - 133
m,p-Xylene	20.0	21.33		ug/L		107	80 - 141
o-Xylene	20.0	21.63		ug/L		108	80 - 127
Toluene	20.0	19.86		ug/L		99	80 - 126
DIPE	20.0	23.92		ug/L		120	61 - 142
TAME	20.0	20.98		ug/L		105	63 - 135
Ethyl tert-Butyl Ether (ETBE)	20.0	21.78		ug/L		109	63 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	129		70 - 130
4-Bromofluorobenzene (Surr)	115		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	106		70 - 130

Lab Sample ID: MB 490-459339/5

Matrix: Water

Analysis Batch: 459339

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TBA	ND		10.0	3.90	ug/L			09/12/17 13:26	1
Benzene	ND		1.00	0.200	ug/L			09/12/17 13:26	1

TestAmerica Spokane

QC Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

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

Lab Sample ID: MB 490-459339/5

Matrix: Water

Analysis Batch: 459339

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00	0.190	ug/L			09/12/17 13:26	1
MTBE	ND		1.00	0.170	ug/L			09/12/17 13:26	1
m,p-Xylene	ND		2.00	0.380	ug/L			09/12/17 13:26	1
o-Xylene	ND		1.00	0.200	ug/L			09/12/17 13:26	1
Toluene	ND		1.00	0.170	ug/L			09/12/17 13:26	1
Xylenes, Total	ND		3.00	0.580	ug/L			09/12/17 13:26	1
DIPE	ND		2.00	0.170	ug/L			09/12/17 13:26	1
TAME	ND		1.00	0.170	ug/L			09/12/17 13:26	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			09/12/17 13:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		09/12/17 13:26	1
4-Bromofluorobenzene (Surr)	97		70 - 130		09/12/17 13:26	1
Dibromofluoromethane (Surr)	102		70 - 130		09/12/17 13:26	1
Toluene-d8 (Surr)	98		70 - 130		09/12/17 13:26	1

Lab Sample ID: LCS 490-459339/3

Matrix: Water

Analysis Batch: 459339

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TBA	200	262.1		ug/L		131	54 - 150
Benzene	20.0	17.60		ug/L		88	80 - 121
Ethylbenzene	20.0	16.88		ug/L		84	80 - 130
MTBE	20.0	20.33		ug/L		102	72 - 133
m,p-Xylene	20.0	16.78		ug/L		84	80 - 141
o-Xylene	20.0	16.69		ug/L		83	80 - 127
Toluene	20.0	16.91		ug/L		85	80 - 126
DIPE	20.0	17.36		ug/L		87	61 - 142
TAME	20.0	17.67		ug/L		88	63 - 135
Ethyl tert-Butyl Ether (ETBE)	20.0	18.63		ug/L		93	63 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-13776/6

Matrix: Water

Analysis Batch: 13776

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			09/13/17 19:22	1

TestAmerica Spokane

QC Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: MB 590-13776/6
Matrix: Water
Analysis Batch: 13776

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	100		68.7 - 141		09/13/17 19:22	1

Lab Sample ID: LCS 590-13776/1005
Matrix: Water
Analysis Batch: 13776

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		68.7 - 141

Lab Sample ID: LCSD 590-13776/1016
Matrix: Water
Analysis Batch: 13776

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

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		68.7 - 141

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-13729/1-A
Matrix: Water
Analysis Batch: 13713

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13729

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (DRO) (C10-C25)	ND		0.240	0.0800	mg/L		09/11/17 13:32	09/11/17 15:23	1
Residual Range Organics (RRO) (C25-C36)	ND		0.400	0.120	mg/L		09/11/17 13:32	09/11/17 15:23	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
o-Terphenyl	86		50 - 150	09/11/17 13:32	09/11/17 15:23	1
n-Triacontane-d62	85		50 - 150	09/11/17 13:32	09/11/17 15:23	1

Lab Sample ID: LCS 590-13729/2-A
Matrix: Water
Analysis Batch: 13713

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Residual Range Organics (RRO) (C25-C36)	1.60	1.638		mg/L		102	50 - 150

TestAmerica Spokane

QC Sample Results

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 590-13729/2-A
Matrix: Water
Analysis Batch: 13713

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13729

<i>Surrogate</i>	<i>LCS LCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>o-Terphenyl</i>	91		50 - 150
<i>n-Triacontane-d62</i>	93		50 - 150

Lab Sample ID: LCSD 590-13729/3-A
Matrix: Water
Analysis Batch: 13713

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 13729

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD LCSD</i>		<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. RPD</i>		<i>Limit</i>
		<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>	<i>RPD</i>	
Diesel Range Organics (DRO) (C10-C25)	1.60	1.455		mg/L		91	50 - 150	4	25
Residual Range Organics (RRO) (C25-C36)	1.60	1.679		mg/L		105	50 - 150	3	25

<i>Surrogate</i>	<i>LCSD LCSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>o-Terphenyl</i>	96		50 - 150
<i>n-Triacontane-d62</i>	98		50 - 150

QC Association Summary

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

GC/MS VOA

Analysis Batch: 13775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-7029-9	Trip Blank	Total/NA	Water	8260C	
MB 590-13775/6	Method Blank	Total/NA	Water	8260C	
LCS 590-13775/1004	Lab Control Sample	Total/NA	Water	8260C	
LCSD 590-13775/7	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 13776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-7029-1	GW-241795-090717-CP-MW-2	Total/NA	Ground Water	NWTPH-Gx	
590-7029-2	GW-241795-090717-CP-MW-4	Total/NA	Ground Water	NWTPH-Gx	
590-7029-3	GW-241795-090717-CP-MW-5	Total/NA	Ground Water	NWTPH-Gx	
590-7029-4	GW-241795-090717-CP-MW-6	Total/NA	Ground Water	NWTPH-Gx	
590-7029-5	GW-241795-090717-CP-MW-8	Total/NA	Ground Water	NWTPH-Gx	
590-7029-6	GW-241795-090717-CP-MW-9	Total/NA	Ground Water	NWTPH-Gx	
590-7029-7	GW-241795-090717-CP-MW-10	Total/NA	Ground Water	NWTPH-Gx	
590-7029-8	GW-241795-090717-CP-MW-11	Total/NA	Ground Water	NWTPH-Gx	
MB 590-13776/6	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-13776/1005	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 590-13776/1016	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

Analysis Batch: 458850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-7029-1	GW-241795-090717-CP-MW-2	Total/NA	Ground Water	8260C	
590-7029-2	GW-241795-090717-CP-MW-4	Total/NA	Ground Water	8260C	
590-7029-3	GW-241795-090717-CP-MW-5	Total/NA	Ground Water	8260C	
590-7029-4	GW-241795-090717-CP-MW-6	Total/NA	Ground Water	8260C	
590-7029-5	GW-241795-090717-CP-MW-8	Total/NA	Ground Water	8260C	
590-7029-6	GW-241795-090717-CP-MW-9	Total/NA	Ground Water	8260C	
590-7029-7	GW-241795-090717-CP-MW-10	Total/NA	Ground Water	8260C	
590-7029-8	GW-241795-090717-CP-MW-11	Total/NA	Ground Water	8260C	
MB 490-458850/7	Method Blank	Total/NA	Water	8260C	
LCS 490-458850/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 459339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-7029-1	GW-241795-090717-CP-MW-2	Total/NA	Ground Water	8260C	
MB 490-459339/5	Method Blank	Total/NA	Water	8260C	
LCS 490-459339/3	Lab Control Sample	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 13713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-7029-2	GW-241795-090717-CP-MW-4	Total/NA	Ground Water	NWTPH-Dx	13729
590-7029-3	GW-241795-090717-CP-MW-5	Total/NA	Ground Water	NWTPH-Dx	13729
590-7029-4	GW-241795-090717-CP-MW-6	Total/NA	Ground Water	NWTPH-Dx	13729
590-7029-5	GW-241795-090717-CP-MW-8	Total/NA	Ground Water	NWTPH-Dx	13729
590-7029-6	GW-241795-090717-CP-MW-9	Total/NA	Ground Water	NWTPH-Dx	13729
590-7029-7	GW-241795-090717-CP-MW-10	Total/NA	Ground Water	NWTPH-Dx	13729
MB 590-13729/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	13729
LCS 590-13729/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	13729

TestAmerica Spokane

QC Association Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

GC Semi VOA (Continued)

Analysis Batch: 13713 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 590-13729/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	13729

Prep Batch: 13729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-7029-2	GW-241795-090717-CP-MW-4	Total/NA	Ground Water	3510C	
590-7029-3	GW-241795-090717-CP-MW-5	Total/NA	Ground Water	3510C	
590-7029-4	GW-241795-090717-CP-MW-6	Total/NA	Ground Water	3510C	
590-7029-5	GW-241795-090717-CP-MW-8	Total/NA	Ground Water	3510C	
590-7029-6	GW-241795-090717-CP-MW-9	Total/NA	Ground Water	3510C	
590-7029-7	GW-241795-090717-CP-MW-10	Total/NA	Ground Water	3510C	
MB 590-13729/1-A	Method Blank	Total/NA	Water	3510C	
LCS 590-13729/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 590-13729/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Lab Chronicle

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Client Sample ID: GW-241795-090717-CP-MW-2

Date Collected: 09/07/17 09:51

Date Received: 09/08/17 14:30

Lab Sample ID: 590-7029-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	5 mL	5 mL	458850	09/10/17 12:11	SW1	TAL NSH
Total/NA	Analysis	8260C		1	5 mL	5 mL	459339	09/12/17 16:44	RP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	13776	09/13/17 23:58	MRS	TAL SPK

Client Sample ID: GW-241795-090717-CP-MW-4

Date Collected: 09/07/17 10:14

Date Received: 09/08/17 14:30

Lab Sample ID: 590-7029-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	458850	09/10/17 07:43	SW1	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	13776	09/14/17 00:20	MRS	TAL SPK
Total/NA	Prep	3510C			246.3 mL	2 mL	13729	09/11/17 13:32	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			13713	09/11/17 18:42	NMI	TAL SPK

Client Sample ID: GW-241795-090717-CP-MW-5

Date Collected: 09/07/17 10:39

Date Received: 09/08/17 14:30

Lab Sample ID: 590-7029-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	458850	09/10/17 08:10	SW1	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	13776	09/14/17 00:41	MRS	TAL SPK
Total/NA	Prep	3510C			245.3 mL	2 mL	13729	09/11/17 13:32	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			13713	09/11/17 19:00	NMI	TAL SPK

Client Sample ID: GW-241795-090717-CP-MW-6

Date Collected: 09/07/17 11:06

Date Received: 09/08/17 14:30

Lab Sample ID: 590-7029-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	458850	09/10/17 08:37	SW1	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	13776	09/14/17 01:02	MRS	TAL SPK
Total/NA	Prep	3510C			246.3 mL	2 mL	13729	09/11/17 13:32	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			13713	09/11/17 19:18	NMI	TAL SPK

Client Sample ID: GW-241795-090717-CP-MW-8

Date Collected: 09/07/17 11:38

Date Received: 09/08/17 14:30

Lab Sample ID: 590-7029-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	458850	09/10/17 09:04	SW1	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	13776	09/14/17 01:23	MRS	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Client Sample ID: GW-241795-090717-CP-MW-8

Lab Sample ID: 590-7029-5

Date Collected: 09/07/17 11:38

Matrix: Ground Water

Date Received: 09/08/17 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			246.3 mL	2 mL	13729	09/11/17 13:32	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			13713	09/11/17 19:36	NMI	TAL SPK

Client Sample ID: GW-241795-090717-CP-MW-9

Lab Sample ID: 590-7029-6

Date Collected: 09/07/17 09:24

Matrix: Ground Water

Date Received: 09/08/17 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	458850	09/10/17 09:30	SW1	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	13776	09/14/17 01:44	MRS	TAL SPK
Total/NA	Prep	3510C			231.8 mL	2 mL	13729	09/11/17 13:32	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			13713	09/11/17 19:53	NMI	TAL SPK

Client Sample ID: GW-241795-090717-CP-MW-10

Lab Sample ID: 590-7029-7

Date Collected: 09/07/17 12:03

Matrix: Ground Water

Date Received: 09/08/17 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	458850	09/10/17 09:57	SW1	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	13776	09/14/17 02:06	MRS	TAL SPK
Total/NA	Prep	3510C			242.3 mL	2 mL	13729	09/11/17 13:32	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			13713	09/11/17 20:11	NMI	TAL SPK

Client Sample ID: GW-241795-090717-CP-MW-11

Lab Sample ID: 590-7029-8

Date Collected: 09/07/17 12:28

Matrix: Ground Water

Date Received: 09/08/17 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	458850	09/10/17 10:24	SW1	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	13776	09/14/17 02:27	MRS	TAL SPK

Client Sample ID: Trip Blank

Lab Sample ID: 590-7029-9

Date Collected: 09/07/17 08:15

Matrix: Water

Date Received: 09/08/17 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	13775	09/14/17 02:48	MRS	TAL SPK

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177
TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Definitions/Glossary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

Glossary

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

Accreditation/Certification Summary

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Laboratory: TestAmerica Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C569	01-06-18

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Nashville

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
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	6	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2L A)	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-17
Kentucky (UST)	State Program	4	19	06-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-18
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-18
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2963	10-09-17
New Jersey	NELAP	2	TN965	06-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-18
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-17 *
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-18
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-18
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-17 *
Virginia	NELAP	3	460152	06-14-18
Washington	State Program	10	C789	07-19-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis (60482107)

TestAmerica Job ID: 590-7029-1

Laboratory: TestAmerica Nashville (Continued)

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
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-17 *
Wyoming (UST)	A2LA	8	453.07	12-31-17

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 590-7029-1

Login Number: 7029

List Source: TestAmerica Spokane

List Number: 1

Creator: Arrington, Randee E

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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	Preservation labels on samples match COC
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 590-7029-1

Login Number: 7029
List Number: 2
Creator: Gundi, Hozar K

List Source: TestAmerica Nashville
List Creation: 09/09/17 05:34 PM

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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Spokane

11922 East 1st Ave

Spokane, WA 99206

Tel: (509)924-9200

TestAmerica Job ID: 590-7796-1

Client Project/Site: 1349 NW State St. Chehalis/60527997.0700

Sampling Event: Gx/BTEX & Dx Event

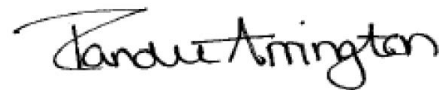
For:

AECOM, Inc.

111 SW Columbia Street, Suite 1500

Portland, Oregon 97201

Attn: Clifford Pearson



Authorized for release by:

1/4/2018 2:23:55 PM

Randee Arrington, Project Manager II

(509)924-9200

randee.arrington@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Sample Summary	4
Method Summary	5
Detection Summary	6
Client Sample Results	8
QC Sample Results	14
QC Association	18
Chronicle	20
Definitions	22
Certification Summary	23
Chain of Custody	24
Receipt Checklists	25

Case Narrative

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

Job ID: 590-7796-1

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 12/29/2017 2:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

GC/MS VOA

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

GC Semi VOA

Method NWTPH-Dx: Detected hydrocarbons appear to be due to heavily weathered diesel and/or biogenic interference in the following samples: GW-241795-122717-CP-MW-4 (590-7796-2), GW-241795-122717-CP-MW-5 (590-7796-3), GW-241795-122717-CP-MW-9 (590-7796-6) and GW-241795-122717-CP-MW-10 (590-7796-7).

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to gasoline range overlap as well as heavily weathered diesel and/or biogenic interference in the following samples: GW-241795-122717-CP-MW-6 (590-7796-4) and GW-241795-122717-CP-MW-8 (590-7796-5).

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

Organic Prep

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

VOA Prep

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



Sample Summary

Client: AECOM, Inc.

TestAmerica Job ID: 590-7796-1

Project/Site: 1349 NW State St. Chehalis/60527997.0700

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-7796-1	GW-241795-122717-CP-MW-2	Ground Water	12/27/17 09:10	12/29/17 14:55
590-7796-2	GW-241795-122717-CP-MW-4	Ground Water	12/27/17 09:38	12/29/17 14:55
590-7796-3	GW-241795-122717-CP-MW-5	Ground Water	12/27/17 10:04	12/29/17 14:55
590-7796-4	GW-241795-122717-CP-MW-6	Ground Water	12/27/17 12:09	12/29/17 14:55
590-7796-5	GW-241795-122717-CP-MW-8	Ground Water	12/27/17 12:35	12/29/17 14:55
590-7796-6	GW-241795-122717-CP-MW-9	Ground Water	12/27/17 08:37	12/29/17 14:55
590-7796-7	GW-241795-122717-CP-MW-10	Ground Water	12/27/17 13:03	12/29/17 14:55
590-7796-8	GW-241795-122717-CP-MW-11	Ground Water	12/27/17 13:37	12/29/17 14:55
590-7796-9	Trip Blank	Water	12/27/17 06:30	12/29/17 14:55

Method Summary

Client: AECOM, Inc.

TestAmerica Job ID: 590-7796-1

Project/Site: 1349 NW State St. Chehalis/60527997.0700

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Detection Summary

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

Client Sample ID: GW-241795-122717-CP-MW-2

Lab Sample ID: 590-7796-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	562		8.00	1.86	ug/L	20		8260C	Total/NA
Ethylbenzene	43.2		20.0	3.96	ug/L	20		8260C	Total/NA
m,p-Xylene	247		40.0	5.60	ug/L	20		8260C	Total/NA
o-Xylene	87.3		20.0	3.24	ug/L	20		8260C	Total/NA
Toluene	80.8		20.0	6.24	ug/L	20		8260C	Total/NA
Xylenes, Total	334		60.0	8.84	ug/L	20		8260C	Total/NA
Gasoline	1970		150	70.4	ug/L	1		NWTPH-Gx	Total/NA

Client Sample ID: GW-241795-122717-CP-MW-4

Lab Sample ID: 590-7796-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.285		0.254	0.116	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-122717-CP-MW-5

Lab Sample ID: 590-7796-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.786		0.248	0.114	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.138	J	0.414	0.124	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-122717-CP-MW-6

Lab Sample ID: 590-7796-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	45.3		0.400	0.0930	ug/L	1		8260C	Total/NA
m,p-Xylene	1.53	J	2.00	0.280	ug/L	1		8260C	Total/NA
o-Xylene	0.620	J	1.00	0.162	ug/L	1		8260C	Total/NA
Toluene	5.95		1.00	0.312	ug/L	1		8260C	Total/NA
Xylenes, Total	2.15	J	3.00	0.442	ug/L	1		8260C	Total/NA
Gasoline	186		150	70.4	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.513		0.253	0.116	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-122717-CP-MW-8

Lab Sample ID: 590-7796-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	65.3		4.00	0.930	ug/L	10		8260C	Total/NA
Ethylbenzene	9.03	J	10.0	1.98	ug/L	10		8260C	Total/NA
m,p-Xylene	32.0		20.0	2.80	ug/L	10		8260C	Total/NA
o-Xylene	15.6		10.0	1.62	ug/L	10		8260C	Total/NA
Toluene	198		10.0	3.12	ug/L	10		8260C	Total/NA
Xylenes, Total	47.6		30.0	4.42	ug/L	10		8260C	Total/NA
Gasoline	726		150	70.4	ug/L	1		NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.724		0.242	0.111	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.131	J	0.404	0.121	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-122717-CP-MW-9

Lab Sample ID: 590-7796-6

This Detection Summary does not include radiochemical test results.

TestAmerica Spokane

Detection Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

Client Sample ID: GW-241795-122717-CP-MW-9 (Continued)

Lab Sample ID: 590-7796-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.294		0.242	0.111	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-122717-CP-MW-10

Lab Sample ID: 590-7796-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.490		0.242	0.111	mg/L	1		NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.264	J	0.403	0.121	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-241795-122717-CP-MW-11

Lab Sample ID: 590-7796-8

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 590-7796-9

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

Client Sample ID: GW-241795-122717-CP-MW-2

Lab Sample ID: 590-7796-1

Date Collected: 12/27/17 09:10

Matrix: Ground Water

Date Received: 12/29/17 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	562		8.00	1.86	ug/L			01/03/18 15:51	20
Ethylbenzene	43.2		20.0	3.96	ug/L			01/03/18 15:51	20
m,p-Xylene	247		40.0	5.60	ug/L			01/03/18 15:51	20
o-Xylene	87.3		20.0	3.24	ug/L			01/03/18 15:51	20
Toluene	80.8		20.0	6.24	ug/L			01/03/18 15:51	20
Xylenes, Total	334		60.0	8.84	ug/L			01/03/18 15:51	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		70 - 125		01/03/18 15:51	20
4-Bromofluorobenzene (Surr)	91		69 - 120		01/03/18 15:51	20
Dibromofluoromethane (Surr)	111		80 - 120		01/03/18 15:51	20
Toluene-d8 (Surr)	99		80 - 120		01/03/18 15:51	20

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1970		150	70.4	ug/L			01/03/18 10:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		68.7 - 141		01/03/18 10:23	1

Client Sample ID: GW-241795-122717-CP-MW-4

Lab Sample ID: 590-7796-2

Date Collected: 12/27/17 09:38

Matrix: Ground Water

Date Received: 12/29/17 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			01/03/18 11:06	1
Ethylbenzene	ND		1.00	0.198	ug/L			01/03/18 11:06	1
m,p-Xylene	ND		2.00	0.280	ug/L			01/03/18 11:06	1
o-Xylene	ND		1.00	0.162	ug/L			01/03/18 11:06	1
Toluene	ND		1.00	0.312	ug/L			01/03/18 11:06	1
Xylenes, Total	ND		3.00	0.442	ug/L			01/03/18 11:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		70 - 125		01/03/18 11:06	1
4-Bromofluorobenzene (Surr)	90		69 - 120		01/03/18 11:06	1
Dibromofluoromethane (Surr)	110		80 - 120		01/03/18 11:06	1
Toluene-d8 (Surr)	100		80 - 120		01/03/18 11:06	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			01/03/18 11:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		68.7 - 141		01/03/18 11:06	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.285		0.254	0.116	mg/L		01/02/18 12:36	01/02/18 14:56	1
Residual Range Organics (RRO) (C25-C36)	ND		0.423	0.127	mg/L		01/02/18 12:36	01/02/18 14:56	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.

TestAmerica Job ID: 590-7796-1

Project/Site: 1349 NW State St. Chehalis/60527997.0700

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	100		50 - 150	01/02/18 12:36	01/02/18 14:56	1
<i>n</i> -Triacontane-d62	98		50 - 150	01/02/18 12:36	01/02/18 14:56	1

Client Sample ID: GW-241795-122717-CP-MW-5

Lab Sample ID: 590-7796-3

Date Collected: 12/27/17 10:04

Matrix: Ground Water

Date Received: 12/29/17 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			01/03/18 11:50	1
Ethylbenzene	ND		1.00	0.198	ug/L			01/03/18 11:50	1
<i>m,p</i> -Xylene	ND		2.00	0.280	ug/L			01/03/18 11:50	1
<i>o</i> -Xylene	ND		1.00	0.162	ug/L			01/03/18 11:50	1
Toluene	ND		1.00	0.312	ug/L			01/03/18 11:50	1
Xylenes, Total	ND		3.00	0.442	ug/L			01/03/18 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2</i> -Dichloroethane-d4 (Surr)	120		70 - 125		01/03/18 11:50	1
<i>4</i> -Bromofluorobenzene (Surr)	89		69 - 120		01/03/18 11:50	1
Dibromofluoromethane (Surr)	113		80 - 120		01/03/18 11:50	1
<i>Toluene-d8</i> (Surr)	100		80 - 120		01/03/18 11:50	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			01/03/18 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>4</i> -Bromofluorobenzene (Surr)	89		68.7 - 141		01/03/18 11:50	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.786		0.248	0.114	mg/L		01/02/18 12:36	01/02/18 15:14	1
Residual Range Organics (RRO) (C25-C36)	0.138	J	0.414	0.124	mg/L		01/02/18 12:36	01/02/18 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	101		50 - 150	01/02/18 12:36	01/02/18 15:14	1
<i>n</i> -Triacontane-d62	97		50 - 150	01/02/18 12:36	01/02/18 15:14	1

Client Sample ID: GW-241795-122717-CP-MW-6

Lab Sample ID: 590-7796-4

Date Collected: 12/27/17 12:09

Matrix: Ground Water

Date Received: 12/29/17 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	45.3		0.400	0.0930	ug/L			01/03/18 12:11	1
Ethylbenzene	ND		1.00	0.198	ug/L			01/03/18 12:11	1
<i>m,p</i>-Xylene	1.53	J	2.00	0.280	ug/L			01/03/18 12:11	1
<i>o</i>-Xylene	0.620	J	1.00	0.162	ug/L			01/03/18 12:11	1
Toluene	5.95		1.00	0.312	ug/L			01/03/18 12:11	1
Xylenes, Total	2.15	J	3.00	0.442	ug/L			01/03/18 12:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2</i> -Dichloroethane-d4 (Surr)	116		70 - 125		01/03/18 12:11	1
<i>4</i> -Bromofluorobenzene (Surr)	91		69 - 120		01/03/18 12:11	1
Dibromofluoromethane (Surr)	109		80 - 120		01/03/18 12:11	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

Client Sample ID: GW-241795-122717-CP-MW-6

Lab Sample ID: 590-7796-4

Date Collected: 12/27/17 12:09

Matrix: Ground Water

Date Received: 12/29/17 14:55

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		01/03/18 12:11	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	186		150	70.4	ug/L			01/03/18 12:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		68.7 - 141		01/03/18 12:11	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.513		0.253	0.116	mg/L		01/02/18 12:36	01/02/18 15:32	1

Residual Range Organics (RRO) (C25-C36)	ND		0.421	0.126	mg/L		01/02/18 12:36	01/02/18 15:32	1
---	----	--	-------	-------	------	--	----------------	----------------	---

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	101		50 - 150	01/02/18 12:36	01/02/18 15:32	1
n-Triacontane-d62	101		50 - 150	01/02/18 12:36	01/02/18 15:32	1

Client Sample ID: GW-241795-122717-CP-MW-8

Lab Sample ID: 590-7796-5

Date Collected: 12/27/17 12:35

Matrix: Ground Water

Date Received: 12/29/17 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	65.3		4.00	0.930	ug/L			01/03/18 16:35	10
Ethylbenzene	9.03	J	10.0	1.98	ug/L			01/03/18 16:35	10
m,p-Xylene	32.0		20.0	2.80	ug/L			01/03/18 16:35	10
o-Xylene	15.6		10.0	1.62	ug/L			01/03/18 16:35	10
Toluene	198		10.0	3.12	ug/L			01/03/18 16:35	10
Xylenes, Total	47.6		30.0	4.42	ug/L			01/03/18 16:35	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		70 - 125		01/03/18 16:35	10
4-Bromofluorobenzene (Surr)	87		69 - 120		01/03/18 16:35	10
Dibromofluoromethane (Surr)	111		80 - 120		01/03/18 16:35	10
Toluene-d8 (Surr)	103		80 - 120		01/03/18 16:35	10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	726		150	70.4	ug/L			01/03/18 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		68.7 - 141		01/03/18 12:33	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.724		0.242	0.111	mg/L		01/02/18 12:36	01/02/18 15:50	1

Residual Range Organics (RRO) (C25-C36)	0.131	J	0.404	0.121	mg/L		01/02/18 12:36	01/02/18 15:50	1
---	-------	---	-------	-------	------	--	----------------	----------------	---

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

Client Sample ID: GW-241795-122717-CP-MW-8

Lab Sample ID: 590-7796-5

Date Collected: 12/27/17 12:35

Matrix: Ground Water

Date Received: 12/29/17 14:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	101		50 - 150	01/02/18 12:36	01/02/18 15:50	1
<i>n</i> -Triacontane-d62	101		50 - 150	01/02/18 12:36	01/02/18 15:50	1

Client Sample ID: GW-241795-122717-CP-MW-9

Lab Sample ID: 590-7796-6

Date Collected: 12/27/17 08:37

Matrix: Ground Water

Date Received: 12/29/17 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			01/03/18 12:55	1
Ethylbenzene	ND		1.00	0.198	ug/L			01/03/18 12:55	1
<i>m,p</i> -Xylene	ND		2.00	0.280	ug/L			01/03/18 12:55	1
<i>o</i> -Xylene	ND		1.00	0.162	ug/L			01/03/18 12:55	1
Toluene	ND		1.00	0.312	ug/L			01/03/18 12:55	1
Xylenes, Total	ND		3.00	0.442	ug/L			01/03/18 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		70 - 125		01/03/18 12:55	1
4-Bromofluorobenzene (Surr)	90		69 - 120		01/03/18 12:55	1
Dibromofluoromethane (Surr)	111		80 - 120		01/03/18 12:55	1
Toluene-d8 (Surr)	102		80 - 120		01/03/18 12:55	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			01/03/18 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		68.7 - 141		01/03/18 12:55	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.294		0.242	0.111	mg/L		01/02/18 12:36	01/02/18 16:08	1
Residual Range Organics (RRO) (C25-C36)	ND		0.403	0.121	mg/L		01/02/18 12:36	01/02/18 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	100		50 - 150	01/02/18 12:36	01/02/18 16:08	1
<i>n</i> -Triacontane-d62	99		50 - 150	01/02/18 12:36	01/02/18 16:08	1

Client Sample ID: GW-241795-122717-CP-MW-10

Lab Sample ID: 590-7796-7

Date Collected: 12/27/17 13:03

Matrix: Ground Water

Date Received: 12/29/17 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			01/03/18 13:17	1
Ethylbenzene	ND		1.00	0.198	ug/L			01/03/18 13:17	1
<i>m,p</i> -Xylene	ND		2.00	0.280	ug/L			01/03/18 13:17	1
<i>o</i> -Xylene	ND		1.00	0.162	ug/L			01/03/18 13:17	1
Toluene	ND		1.00	0.312	ug/L			01/03/18 13:17	1
Xylenes, Total	ND		3.00	0.442	ug/L			01/03/18 13:17	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

Client Sample ID: GW-241795-122717-CP-MW-10

Lab Sample ID: 590-7796-7

Date Collected: 12/27/17 13:03

Matrix: Ground Water

Date Received: 12/29/17 14:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		70 - 125		01/03/18 13:17	1
4-Bromofluorobenzene (Surr)	88		69 - 120		01/03/18 13:17	1
Dibromofluoromethane (Surr)	109		80 - 120		01/03/18 13:17	1
Toluene-d8 (Surr)	100		80 - 120		01/03/18 13:17	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			01/03/18 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		68.7 - 141		01/03/18 13:17	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.490		0.242	0.111	mg/L		01/02/18 12:36	01/02/18 16:26	1
Residual Range Organics (RRO) (C25-C36)	0.264	J	0.403	0.121	mg/L		01/02/18 12:36	01/02/18 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	102		50 - 150	01/02/18 12:36	01/02/18 16:26	1
n-Triacontane-d62	103		50 - 150	01/02/18 12:36	01/02/18 16:26	1

Client Sample ID: GW-241795-122717-CP-MW-11

Lab Sample ID: 590-7796-8

Date Collected: 12/27/17 13:37

Matrix: Ground Water

Date Received: 12/29/17 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			01/03/18 13:39	1
Ethylbenzene	ND		1.00	0.198	ug/L			01/03/18 13:39	1
m,p-Xylene	ND		2.00	0.280	ug/L			01/03/18 13:39	1
o-Xylene	ND		1.00	0.162	ug/L			01/03/18 13:39	1
Toluene	ND		1.00	0.312	ug/L			01/03/18 13:39	1
Xylenes, Total	ND		3.00	0.442	ug/L			01/03/18 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		70 - 125		01/03/18 13:39	1
4-Bromofluorobenzene (Surr)	89		69 - 120		01/03/18 13:39	1
Dibromofluoromethane (Surr)	111		80 - 120		01/03/18 13:39	1
Toluene-d8 (Surr)	101		80 - 120		01/03/18 13:39	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			01/03/18 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		68.7 - 141		01/03/18 13:39	1

TestAmerica Spokane

Client Sample Results

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

Client Sample ID: Trip Blank

Lab Sample ID: 590-7796-9

Date Collected: 12/27/17 06:30

Matrix: Water

Date Received: 12/29/17 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			01/03/18 14:24	1
Ethylbenzene	ND		1.00	0.198	ug/L			01/03/18 14:24	1
m,p-Xylene	ND		2.00	0.280	ug/L			01/03/18 14:24	1
o-Xylene	ND		1.00	0.162	ug/L			01/03/18 14:24	1
Toluene	ND		1.00	0.312	ug/L			01/03/18 14:24	1
Xylenes, Total	ND		3.00	0.442	ug/L			01/03/18 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		70 - 125		01/03/18 14:24	1
4-Bromofluorobenzene (Surr)	92		69 - 120		01/03/18 14:24	1
Dibromofluoromethane (Surr)	110		80 - 120		01/03/18 14:24	1
Toluene-d8 (Surr)	100		80 - 120		01/03/18 14:24	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

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

Lab Sample ID: MB 590-15237/6

Matrix: Water

Analysis Batch: 15237

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			01/03/18 09:39	1
Ethylbenzene	ND		1.00	0.198	ug/L			01/03/18 09:39	1
m,p-Xylene	ND		2.00	0.280	ug/L			01/03/18 09:39	1
o-Xylene	ND		1.00	0.162	ug/L			01/03/18 09:39	1
Toluene	ND		1.00	0.312	ug/L			01/03/18 09:39	1
Xylenes, Total	ND		3.00	0.442	ug/L			01/03/18 09:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		70 - 125		01/03/18 09:39	1
4-Bromofluorobenzene (Surr)	89		69 - 120		01/03/18 09:39	1
Dibromofluoromethane (Surr)	109		80 - 120		01/03/18 09:39	1
Toluene-d8 (Surr)	102		80 - 120		01/03/18 09:39	1

Lab Sample ID: LCS 590-15237/1004

Matrix: Water

Analysis Batch: 15237

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	9.927		ug/L		99	80 - 120
Ethylbenzene	10.0	9.677		ug/L		97	80 - 120
m,p-Xylene	10.0	9.626		ug/L		96	80 - 120
o-Xylene	10.0	9.603		ug/L		96	80 - 120
Toluene	10.0	9.368		ug/L		94	80 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	116		70 - 125
4-Bromofluorobenzene (Surr)	93		69 - 120
Dibromofluoromethane (Surr)	107		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 590-15237/7

Matrix: Water

Analysis Batch: 15237

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	10.47		ug/L		105	80 - 120	5	25
Ethylbenzene	10.0	10.85		ug/L		108	80 - 120	11	25
m,p-Xylene	10.0	10.87		ug/L		109	80 - 120	12	25
o-Xylene	10.0	10.46		ug/L		105	80 - 120	9	25
Toluene	10.0	10.48		ug/L		105	80 - 123	11	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		70 - 125
4-Bromofluorobenzene (Surr)	90		69 - 120
Dibromofluoromethane (Surr)	109		80 - 120
Toluene-d8 (Surr)	102		80 - 120

TestAmerica Spokane

QC Sample Results

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

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

Lab Sample ID: 590-7796-1 DU
Matrix: Ground Water
Analysis Batch: 15237

Client Sample ID: GW-241795-122717-CP-MW-2
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Benzene	562		556.8		ug/L		1	20
Ethylbenzene	43.2		43.86		ug/L		2	20
m,p-Xylene	247		240.4		ug/L		3	20
o-Xylene	87.3		83.53		ug/L		4	20
Toluene	80.8		77.44		ug/L		4	20
Xylenes, Total	334		323.9		ug/L		3	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	117		70 - 125
4-Bromofluorobenzene (Surr)	94		69 - 120
Dibromofluoromethane (Surr)	111		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: 590-7796-2 DU
Matrix: Ground Water
Analysis Batch: 15237

Client Sample ID: GW-241795-122717-CP-MW-4
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Benzene	ND		ND		ug/L		NC	20
Ethylbenzene	ND		ND		ug/L		NC	20
m,p-Xylene	ND		ND		ug/L		NC	20
o-Xylene	ND		ND		ug/L		NC	20
Toluene	ND		ND		ug/L		NC	20
Xylenes, Total	ND		ND		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	114		70 - 125
4-Bromofluorobenzene (Surr)	89		69 - 120
Dibromofluoromethane (Surr)	111		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-15239/6
Matrix: Water
Analysis Batch: 15239

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline	ND		150	70.4	ug/L			01/03/18 09:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	89		68.7 - 141		01/03/18 09:39	1

TestAmerica Spokane

QC Sample Results

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCS 590-15239/1005

Matrix: Water
Analysis Batch: 15239

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	1000	1110		ug/L		111	80 - 120
Surrogate	%Recovery	LCS Qualifier	LCS Qualifier	Limits			
4-Bromofluorobenzene (Surr)	94			68.7 - 141			

Lab Sample ID: LCSD 590-15239/1018

Matrix: Water
Analysis Batch: 15239

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	1000	1083		ug/L		108	80 - 120	2	20
Surrogate	%Recovery	LCSD Qualifier	LCSD Qualifier	Limits					
4-Bromofluorobenzene (Surr)	91			68.7 - 141					

Lab Sample ID: 590-7796-1 DU

Matrix: Ground Water
Analysis Batch: 15239

Client Sample ID: GW-241795-122717-CP-MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Gasoline	1970		1813		ug/L		8	35
Surrogate	%Recovery	DU Qualifier	DU Qualifier	Limits				
4-Bromofluorobenzene (Surr)	97			68.7 - 141				

Lab Sample ID: 590-7796-2 DU

Matrix: Ground Water
Analysis Batch: 15239

Client Sample ID: GW-241795-122717-CP-MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Gasoline	ND		ND		ug/L		NC	35
Surrogate	%Recovery	DU Qualifier	DU Qualifier	Limits				
4-Bromofluorobenzene (Surr)	89			68.7 - 141				

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-15228/1-A

Matrix: Water
Analysis Batch: 15227

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.240	0.110	mg/L		01/02/18 12:36	01/02/18 13:44	1
Residual Range Organics (RRO) (C25-C36)	ND		0.400	0.120	mg/L		01/02/18 12:36	01/02/18 13:44	1

TestAmerica Spokane

QC Sample Results

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 590-15228/1-A

Matrix: Water

Analysis Batch: 15227

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15228

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	98		50 - 150	01/02/18 12:36	01/02/18 13:44	1
<i>n</i> -Triacontane-d62	95		50 - 150	01/02/18 12:36	01/02/18 13:44	1

Lab Sample ID: LCS 590-15228/2-A

Matrix: Water

Analysis Batch: 15227

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Residual Range Organics (RRO) (C25-C36)	1.60	1.413		mg/L		88	50 - 150

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	102		50 - 150
<i>n</i> -Triacontane-d62	102		50 - 150

Lab Sample ID: LCSD 590-15228/3-A

Matrix: Water

Analysis Batch: 15227

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15228

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Diesel Range Organics (DRO) (C10-C25)	1.60	1.215		mg/L		76	50 - 150	6	25
Residual Range Organics (RRO) (C25-C36)	1.60	1.382		mg/L		86	50 - 150	2	25

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	98		50 - 150
<i>n</i> -Triacontane-d62	97		50 - 150

QC Association Summary

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

GC/MS VOA

Analysis Batch: 15237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-7796-1	GW-241795-122717-CP-MW-2	Total/NA	Ground Water	8260C	
590-7796-2	GW-241795-122717-CP-MW-4	Total/NA	Ground Water	8260C	
590-7796-3	GW-241795-122717-CP-MW-5	Total/NA	Ground Water	8260C	
590-7796-4	GW-241795-122717-CP-MW-6	Total/NA	Ground Water	8260C	
590-7796-5	GW-241795-122717-CP-MW-8	Total/NA	Ground Water	8260C	
590-7796-6	GW-241795-122717-CP-MW-9	Total/NA	Ground Water	8260C	
590-7796-7	GW-241795-122717-CP-MW-10	Total/NA	Ground Water	8260C	
590-7796-8	GW-241795-122717-CP-MW-11	Total/NA	Ground Water	8260C	
590-7796-9	Trip Blank	Total/NA	Water	8260C	
MB 590-15237/6	Method Blank	Total/NA	Water	8260C	
LCS 590-15237/1004	Lab Control Sample	Total/NA	Water	8260C	
LCSD 590-15237/7	Lab Control Sample Dup	Total/NA	Water	8260C	
590-7796-1 DU	GW-241795-122717-CP-MW-2	Total/NA	Ground Water	8260C	
590-7796-2 DU	GW-241795-122717-CP-MW-4	Total/NA	Ground Water	8260C	

Analysis Batch: 15239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-7796-1	GW-241795-122717-CP-MW-2	Total/NA	Ground Water	NWTPH-Gx	
590-7796-2	GW-241795-122717-CP-MW-4	Total/NA	Ground Water	NWTPH-Gx	
590-7796-3	GW-241795-122717-CP-MW-5	Total/NA	Ground Water	NWTPH-Gx	
590-7796-4	GW-241795-122717-CP-MW-6	Total/NA	Ground Water	NWTPH-Gx	
590-7796-5	GW-241795-122717-CP-MW-8	Total/NA	Ground Water	NWTPH-Gx	
590-7796-6	GW-241795-122717-CP-MW-9	Total/NA	Ground Water	NWTPH-Gx	
590-7796-7	GW-241795-122717-CP-MW-10	Total/NA	Ground Water	NWTPH-Gx	
590-7796-8	GW-241795-122717-CP-MW-11	Total/NA	Ground Water	NWTPH-Gx	
MB 590-15239/6	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-15239/1005	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 590-15239/1018	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
590-7796-1 DU	GW-241795-122717-CP-MW-2	Total/NA	Ground Water	NWTPH-Gx	
590-7796-2 DU	GW-241795-122717-CP-MW-4	Total/NA	Ground Water	NWTPH-Gx	

GC Semi VOA

Analysis Batch: 15227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-7796-2	GW-241795-122717-CP-MW-4	Total/NA	Ground Water	NWTPH-Dx	15228
590-7796-3	GW-241795-122717-CP-MW-5	Total/NA	Ground Water	NWTPH-Dx	15228
590-7796-4	GW-241795-122717-CP-MW-6	Total/NA	Ground Water	NWTPH-Dx	15228
590-7796-5	GW-241795-122717-CP-MW-8	Total/NA	Ground Water	NWTPH-Dx	15228
590-7796-6	GW-241795-122717-CP-MW-9	Total/NA	Ground Water	NWTPH-Dx	15228
590-7796-7	GW-241795-122717-CP-MW-10	Total/NA	Ground Water	NWTPH-Dx	15228
MB 590-15228/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	15228
LCS 590-15228/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	15228
LCSD 590-15228/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	15228

Prep Batch: 15228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-7796-2	GW-241795-122717-CP-MW-4	Total/NA	Ground Water	3510C	
590-7796-3	GW-241795-122717-CP-MW-5	Total/NA	Ground Water	3510C	
590-7796-4	GW-241795-122717-CP-MW-6	Total/NA	Ground Water	3510C	

TestAmerica Spokane

QC Association Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

GC Semi VOA (Continued)

Prep Batch: 15228 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-7796-5	GW-241795-122717-CP-MW-8	Total/NA	Ground Water	3510C	
590-7796-6	GW-241795-122717-CP-MW-9	Total/NA	Ground Water	3510C	
590-7796-7	GW-241795-122717-CP-MW-10	Total/NA	Ground Water	3510C	
MB 590-15228/1-A	Method Blank	Total/NA	Water	3510C	
LCS 590-15228/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 590-15228/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Lab Chronicle

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

Client Sample ID: GW-241795-122717-CP-MW-2

Date Collected: 12/27/17 09:10

Date Received: 12/29/17 14:55

Lab Sample ID: 590-7796-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	43 mL	43 mL	15237	01/03/18 15:51	CBW	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	15239	01/03/18 10:23	CBW	TAL SPK

Client Sample ID: GW-241795-122717-CP-MW-4

Date Collected: 12/27/17 09:38

Date Received: 12/29/17 14:55

Lab Sample ID: 590-7796-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	15237	01/03/18 11:06	CBW	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	15239	01/03/18 11:06	CBW	TAL SPK
Total/NA	Prep	3510C			236.6 mL	2 mL	15228	01/02/18 12:36	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			15227	01/02/18 14:56	NMI	TAL SPK

Client Sample ID: GW-241795-122717-CP-MW-5

Date Collected: 12/27/17 10:04

Date Received: 12/29/17 14:55

Lab Sample ID: 590-7796-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	15237	01/03/18 11:50	CBW	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	15239	01/03/18 11:50	CBW	TAL SPK
Total/NA	Prep	3510C			241.6 mL	2 mL	15228	01/02/18 12:36	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			15227	01/02/18 15:14	NMI	TAL SPK

Client Sample ID: GW-241795-122717-CP-MW-6

Date Collected: 12/27/17 12:09

Date Received: 12/29/17 14:55

Lab Sample ID: 590-7796-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	15237	01/03/18 12:11	CBW	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	15239	01/03/18 12:11	CBW	TAL SPK
Total/NA	Prep	3510C			237.4 mL	2 mL	15228	01/02/18 12:36	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			15227	01/02/18 15:32	NMI	TAL SPK

Client Sample ID: GW-241795-122717-CP-MW-8

Date Collected: 12/27/17 12:35

Date Received: 12/29/17 14:55

Lab Sample ID: 590-7796-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	43 mL	43 mL	15237	01/03/18 16:35	CBW	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	15239	01/03/18 12:33	CBW	TAL SPK
Total/NA	Prep	3510C			247.6 mL	2 mL	15228	01/02/18 12:36	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			15227	01/02/18 15:50	NMI	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: AECOM, Inc.
 Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

Client Sample ID: GW-241795-122717-CP-MW-9

Date Collected: 12/27/17 08:37

Date Received: 12/29/17 14:55

Lab Sample ID: 590-7796-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	15237	01/03/18 12:55	CBW	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	15239	01/03/18 12:55	CBW	TAL SPK
Total/NA	Prep	3510C			248.4 mL	2 mL	15228	01/02/18 12:36	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			15227	01/02/18 16:08	NMI	TAL SPK

Client Sample ID: GW-241795-122717-CP-MW-10

Date Collected: 12/27/17 13:03

Date Received: 12/29/17 14:55

Lab Sample ID: 590-7796-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	15237	01/03/18 13:17	CBW	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	15239	01/03/18 13:17	CBW	TAL SPK
Total/NA	Prep	3510C			248.2 mL	2 mL	15228	01/02/18 12:36	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			15227	01/02/18 16:26	NMI	TAL SPK

Client Sample ID: GW-241795-122717-CP-MW-11

Date Collected: 12/27/17 13:37

Date Received: 12/29/17 14:55

Lab Sample ID: 590-7796-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	15237	01/03/18 13:39	CBW	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	15239	01/03/18 13:39	CBW	TAL SPK

Client Sample ID: Trip Blank

Date Collected: 12/27/17 06:30

Date Received: 12/29/17 14:55

Lab Sample ID: 590-7796-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	15237	01/03/18 14:24	CBW	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Definitions/Glossary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

Glossary

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

Accreditation/Certification Summary

Client: AECOM, Inc.
Project/Site: 1349 NW State St. Chehalis/60527997.0700

TestAmerica Job ID: 590-7796-1

Laboratory: TestAmerica Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C569	01-06-18

Analysis Method	Prep Method	Matrix	Analyte
-----------------	-------------	--------	---------

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

LAB (LOCATION)

ACUTEST ()
 BAUCENTRE ()
 ESTAMERICA ()
 Other ()

Lab Vendor # 1364589 (TestAgency)

Please Check Appropriate Box:

BGM FOS
 CHEMICALS
 TRANSPORTATION
 PIPELINE
 CONSULTANT
 OTHER
 RETAIL
 LUBES

Equion Enterprises LLC dba Shell Oil Products US Chain Of Custody Record



Print Bill To Contact Name: Clifford Pearson

Planet Site or Project ID

DATE: 12/27/17
 PAGE: 1 of 2

PO #

GSAP Project ID

Blaine Tech Services
 1680 Rogers Ave., San Jose, CA

LOG CODE: BTSS

SITE ADDRESS, Street and City
 1349 NW State St., Chehalis

State: WA

AECOM Project / Task Number: 60482107

PROJECT CONTACT (Primary or PCF Report by): Clifford Pearson

clifford.pearson@aecom.com

Clifford Pearson, AECOM, Portland, OR 503-243-3121

PHONE NO

clifford.pearson@aecom.com

LAB USE ONLY

TELEPHONE: 206-438-2371

FAX:

clifford.pearson@aecom.com

Clifford Pearson, AECOM, Portland, OR 503-243-3121

PHONE NO

clifford.pearson@aecom.com

LAB USE ONLY

TURNDOWN TIME (CALENDAR DAYS):
 STANDARD (1-4 DAY) DAYS DAYS 24 HOURS

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°: Cooler #1: Cooler #2: Cooler #3:

UNIT COST

REQUESTED ANALYSIS: TPH-0

NON-UNIT COST

SPECIAL INSTRUCTIONS OR NOTES:

SHELL CONTRACT RATE APPLIES
 STATE REIMBURSEMENT RATE APPLIES
 EPO NOT NEEDED
 RECEIPT VERIFICATION REQUESTED
 PROVIDE LEAD DISK

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

Field Sample Identification

SAMPLING DATE TIME

MATRIX HEL. HMO3 H2SO4 NONE OTHER

NO. OF CONT.

LAB-55 BTEX
 St LAB-123 - WA NW Dx Water
 LAB-35 MTBE
 LAB-36 TBA
 LAB-36 TBA
 LAB-37 DIPE
 LAB-38 TAME
 LAB-39 ETBE
 WA - NWTPH-Gx
 Total Lead

LAB USE ONLY	Field Sample Identification	SAMPLING DATE TIME	MATRIX	PRESERVATIVE	NO. OF CONT.	LAB-55 BTEX	St LAB-123 - WA NW Dx Water	LAB-35 MTBE	LAB-36 TBA	LAB-36 TBA	LAB-37 DIPE	LAB-38 TAME	LAB-39 ETBE	WA - NWTPH-Gx	Total Lead
	GW-241 795-122277-01-MW-2	12/27/17 0910	WL6		4	X									X
	GW-241 795-122277-02-MW-4	0908	WL6		6	X									X
	GW-241 795-122277-03-MW-5	1004	WL6		6	X									X
	GW-241 795-122277-04-MW-6	1209	WL6		6	X									X
	GW-241 795-122277-05-MW-8	1235	WL6		6	X									X
	GW-241 795-122277-06-MW-9	0837	WL6		6	X									X
	GW-241 795-122277-07-MW-10	1903	WL6		6	X									X
	GW-241 795-122277-08-MW-11	1337	WL6		4	X									X
	TR	0630	WL6		2	X									X



Requested by (Signature): *[Signature]*

Received by (Signature): *[Signature]*

Shipped via FedEx

OS: 421421

Date: 12/27/17

Time:

Requested by (Signature): *[Signature]*

Received by (Signature): *[Signature]*

7A-5PD

4.1% (Raw) ICE

Date: 12/29/17

Time: 1455

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 590-7796-1

Login Number: 7796

List Source: TestAmerica Spokane

List Number: 1

Creator: Arrington, Randee E

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	#421421
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	Preservation labels on samples match COC
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	