2017 Annual Groundwater Monitoring Report

Shell-Branded Service Station 210 NE 45th Street Seattle, Washington

April 19, 2018

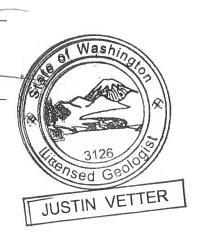
2017 Annual Groundwater Monitoring Report Shell-Branded Service Station 210 NE 45th Street Seattle, Washington

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List of Acronyms

BTEX CUL	benzene, toluene, ethylbenzene, and total xylenes
	cleanup level
DIPE	diisopropyl ether
EPA	Environmental Protection Agency
ETBE	ethyl tert-butyl ether
MDC	maximum detected concentration
MTBE	methyl tert-butyl ether
MTCA	Model Toxics Control Act
SOPUS	Shell Oil Products US
TAME	tert-amyl methyl ether
TBA	tert-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
- μg/L micrograms per liter

1. Introduction

AECOM was retained by Equilon Enterprises LLC dba Shell Oil Products US (SOPUS) to prepare this Annual Groundwater Monitoring Report for the Shell-branded service station located at 210 NE 45th Street, Seattle, Washington (the Site, Figure 1). This report summarizes groundwater gauging and sampling activities and analytical results during the 2017 monitoring period.

2. Site Description and Background

2.1 Site Information

Address:	210 Northeast 45 th Street Seattle, Washington
Facility Site ID:	14577491
VCP#:	NW2033

2.2 Current Site Conditions

The Site is an active Shell-branded service station property located at 210 NE 45th Street on the northern side of Northeast 45th St between Thackeray Place Northeast and 2nd Avenue Northeast. The facility consists of a station building located on the northern portion of the Site, two centrally-located fuel dispenser islands, three 10,000 gallon gasoline underground storage tanks (USTs), and one 10,000 gallon diesel UST; all located within a common area on the western portion of the Site (CRA 2015). One 1,000 gallon heating oil UST, and one 500 gallon waste oil UST were removed from the Site in January 1991. The current and former facilities are presented on Figure 2.

Currently, there are nine groundwater monitoring wells and nine vapor extraction wells associated with this Site (Figures 2 and 3): six monitoring wells and nine vapor extraction wells are located on the Site property and three monitoring wells are located off the property.

3. Field Activities

This section describes the sample collection methods and field observations during the semi-annual monitoring field activities. Field activities were conducted during the first and third quarters of 2017 included gauging all 18 wells present on Site, and collection of groundwater samples from 9 wells (MW-2, MW-3, MW-6, MW- 9, VP-1, VP-2, VP-3, VP-7, and VP-8). MW-9 was not sampled during the third quarter event due to insufficient water. Samples were not collected from MW-9 during the third quarter event due to insufficient water in the well¹. Monitoring well locations are illustrated in Figures 2 and 3. Well screen details and monitoring objectives are summarized in Table 1.

Groundwater samples collected from the wells during the 2017 monitoring period were analyzed for total petroleum hydrocarbons (TPH), TPH as gasoline range (TPH-G), TPH as diesel range (TPH-D), TPH as oil range (TPH-O), and volatile organic compounds (VOCs): benzene, toluene, ethylbenzene, and total xylenes (BTEX). Additionally, wells sampled during the first quarter monitoring event were analyzed for five oxygenates: methyl tert-butyl ether (MTBE), tert-amyl methyl ether (TAME), tert-butyl alcohol (TBA), diisopropyl ether (DIPE), and ethyl tert-butyl ether (ETBE). A summary of sample analytical data is presented in Table 2.

3.1 Fluid Level Gauging

Prior to purging and sampling, depth to groundwater was measured from nine monitoring wells, MW-1 through MW-9, and nine vapor extraction wells, VP-1 through VP-9. Groundwater levels were measured from the monitoring well top of casing (TOC) using an electronic water level meter and were recorded on the Groundwater Level Form, which is included in Appendix A.

¹ MW-9 groundwater depth was recorded from top of casing to a depth of 19.90 feet. The depth to the bottom of the well screen from ground surface is 20 feet.

Groundwater elevations (Table 3) were calculated from the surveyed TOC elevations. Using the calculated groundwater elevations, a groundwater elevation contour map was prepared based on available data (Figures 2 and 3). The groundwater flow direction across the Site during 2017 is generally to the south.

3.2 Groundwater Sampling

Blaine Tech Services, Inc. (subcontractor to AECOM) collected groundwater samples using standard low-flow sampling techniques. Low-flow sampling was accomplished using a peristaltic pump and disposable tubing. The wells were purged at a rate of 0.1 to 0.5 liters per minute. Water quality measurements, including pH, conductivity, oxidation/reduction potential, turbidity, temperature, and dissolved oxygen, were collected during the purging process of each well. Water quality parameters were measured to ensure a representative sample was taken from the groundwater formation. Stabilization of water quality parameters was determined by observing three consecutive measurements at least three to five minutes apart within ten percent of the previous measurements for specific conductance, +/- one degree Celsius for temperature, and plus or minus 0.2 standard units for pH. Samples were collected from the discharge tube into the appropriate sample containers, tightly sealed, uniquely labeled, chilled in a cooler filled with ice, and shipped to TestAmerica in in Spokane, Washington under proper chain-of-custody procedures. Copies of the monitoring well sampling field logs, which include field-measured water quality parameters, are included in Appendix A and copies of the chain of custody 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 and silicone tubing. Single-use sampling equipment included nitrile gloves and laboratory-provided sample containers. Reusable sampling equipment consisted of a water level indicator, peristaltic pump, water quality parameter meters (pH, conductivity, oxidation/reduction potential, turbidity, temperature, and dissolved oxygen) which were decontaminated prior to and after use, using non-phosphate soap and deionized water solution followed by a deionized water rinse. Additionally, decontamination of the water level indicator using the above described method was performed between each well.

3.4 Investigation Derived Waste

Investigation derived waste included purge and decontamination water generated during gauging and sampling activities. The water was disposed of in accordance to the Shell Residual Management Plan (SOPUS 2017) at an approved waste disposal facility.

4. Analytical Methods and Results

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

4.1 Laboratory Data Review

Data obtained from previous consultants (i.e., pre-Oct 2015) has not been independently reviewed or verified by AECOM, unless otherwise stated in the Report. The data review included review of the chain-of-custody to ensure sample integrity was maintained by verifying that the sample receipt temperature was within an acceptable range, no evident gaps were in the custody chain, and the correct analysis was requested per the scope of work. Holding times, blanks, surrogate recoveries, matrix spike/matrix spike duplicate recoveries, laboratory duplicate results, laboratory control sample recoveries, and reporting limits were reviewed to assess compliance with applicable methods. If data qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in EPA guidance documentation (EPA 2017). Laboratory reports which include case narratives are provided in Appendix B.

Analyte concentrations detected between the method detection limits (MDLs) and the reporting limits (RLs) were qualified by the laboratory with 'J' flags. 'J' flagged results indicate that the result is an estimated value. Diesel was detected in the method blank associated with the third quarter data at a concentration above the MDL but below the RL. Diesel was detected in samples MW-3, VP-1, and VP-2 at concentrations above the MDL and below the RL; therefore, the results were qualified as not detected and flagged '<' at the reported result. Analytical results are summarized in Table 2.

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4.2 Analytical Methods

Groundwater samples were analyzed for the one or more of the following:

- TPH-G by Method NWTPH-Gx;
- TPH-D and TPH-O by Method NWTPH-Dx;
- VOCs: BTEX by Environmental Protection Agency (EPA) Method 8260C;
- VOCs: (Oxygenates) MTBE, TAME, TBA, DIPE, ETBE by Environmental Protection Agency (EPA) Method 8260C.

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 173-340. Results for groundwater analytical data from samples collected during 2017 are summarized below and included in Table 2. The laboratory analytical reports are included in Appendix B.

- Toluene and ethylbenzene were not reported above their respective MTCA Method A CULs of 1,000 micrograms per liter (µg/L) and 700 µg/L. The maximum detected concentration (MDC) for toluene was 385 µg/L reported in VP-7 during the third quarter event. The MDC for ethylbenzene was 677 µg/L reported in VP-7 during the third quarter event.
- TPH-O was reported above the MTCA Method A CUL of 500 µg/L at a concentration of 580 µg/L in VP-7 during the third quarter. TPH-O in all other samples collected during 2017 was either not detected above the laboratory method detection limit (MDL) or detected at concentrations below the MTCA Method A CUL.
- Total xylenes were reported above the MTCA Method A CUL of 1,000 µg/L during the third quarter event in VP-7 at a concentration of 1,600 µg/L. Total xylenes in all other samples were either not detected above the MDL or detected at concentrations below the MTCA Method A CUL.
- TPH-G was reported above the MTCA Method A CUL of 800 µg/L in sample MW-6 during the first quarter sampling event and in MW-2, MW-6, and VP-7 during the third quarter event. The MDC for TPH-G was 12,100 µg/L reported in VP-7 during the third quarter event. TPH-G in all other samples was either not detected above the MDL or detected at concentrations below the MTCA Method A CUL.
- TPH-D was reported above the MTCA Method A CUL of 500 μg/L in sample MW-6 during the first quarter event and in samples MW-2, MW-6, VP-3, VP-7, and VP-8 during the third quarter event. The MDC for TPH-D was 3,120 μg/L reported in VP-8 during the third quarter event. TPH-D in all other samples was either not detected above the MDL or detected at concentrations below the MTCA Method A CUL.
- Benzene was reported above the MTCA Method A CUL of 5 µg/L in samples from MW-6 and VP-7 during both the first and third quarter events. The MDC for benzene during 2017 was 1,840 µg/L reported in VP-7 during the third quarter event. Benzene in all other samples was either not detected above the MDL or detected at concentrations below the MTCA Method A CUL.

5. Summary

Based on sampling results from the current monitoring well network, exceedances continue to be limited to the central portion of the Site near the UST basin and dispenser islands, with the exception of one off-Site well, MW-6, located downgradient across Northeast 45th Street in the right-of-way. Groundwater concentrations continue to exceed MTCA Method A CULs for gasoline- and diesel-range petroleum hydrocarbons, as well as benzene and total xylenes.

6. Limitations

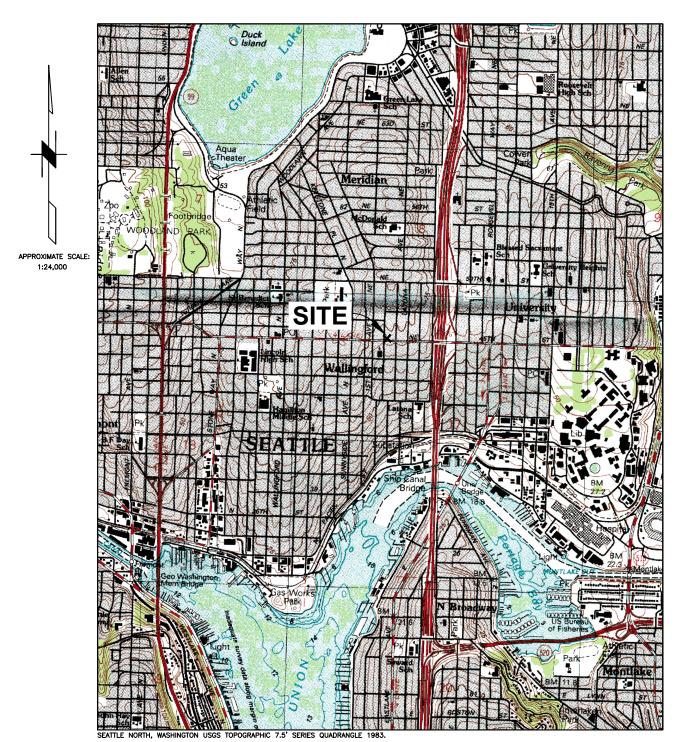
AECOM has prepared this Report for the sole use of Shell in accordance with the Agreement under which our services were performed. No other warranty, expressed or implied, is made as to the professional advice included in this Report or any other services provided by us. This Report may not be relied 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

- CRA 2015 Site Investigation Work Plan, Shell-Branded Service Station, 210 Northeast 45th Street, Seattle, Washington, SAP Code 120877, March 2015.
- SOPUS 2017 Residual Management Program. June 1.
- EPA 2017 National Functional Guidelines for Organic Superfund Methods Data Review. EPA 540-R-2017-002. January.

Figures



SITE VICINITY MAP

SHELL-BRANDED WHOLESALE FACILITY 210 NORHEAST 45TH STREET SEATTLE, WASHINGTON

JANUARY 2018 60527984



AECOM

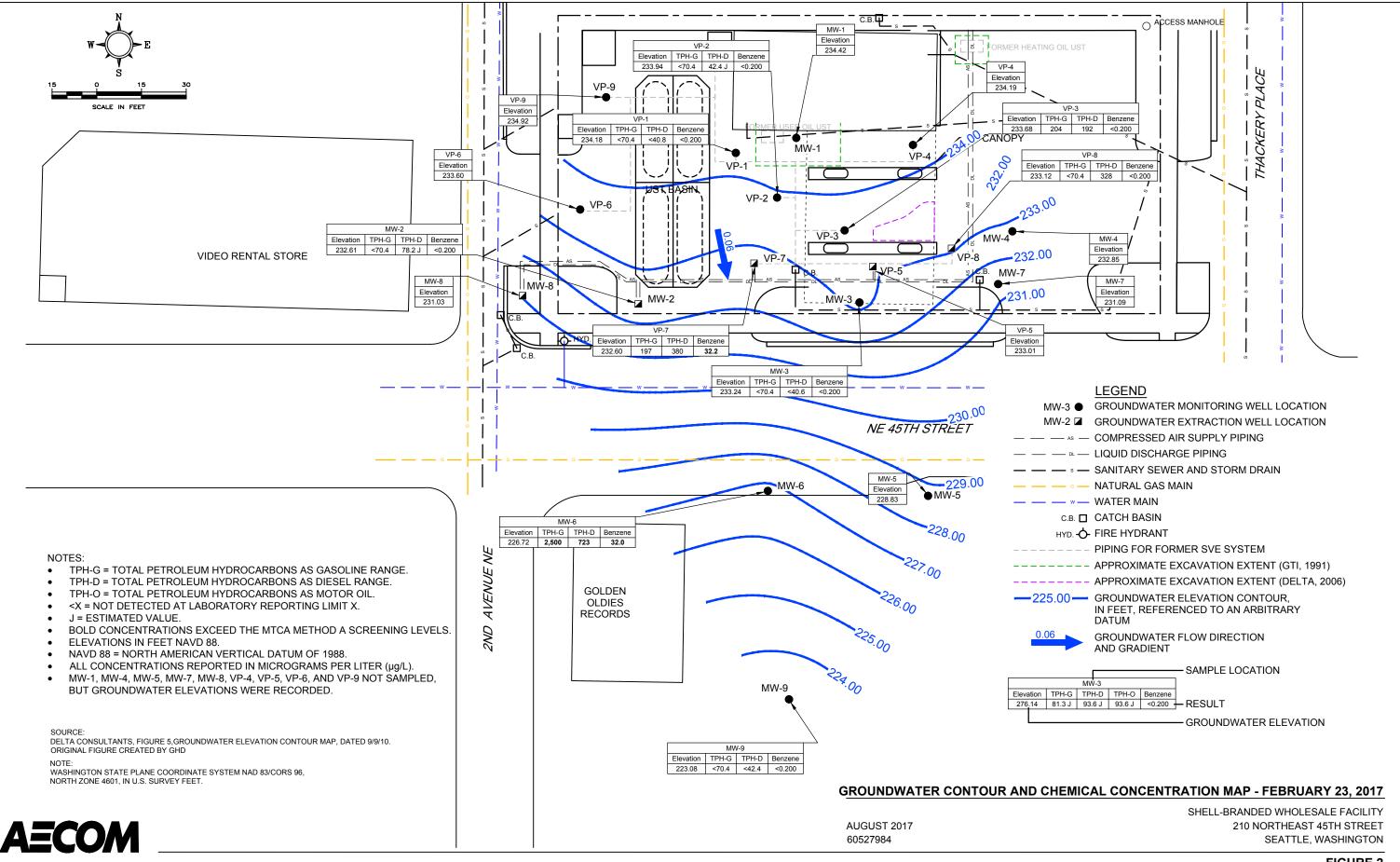


FIGURE 2

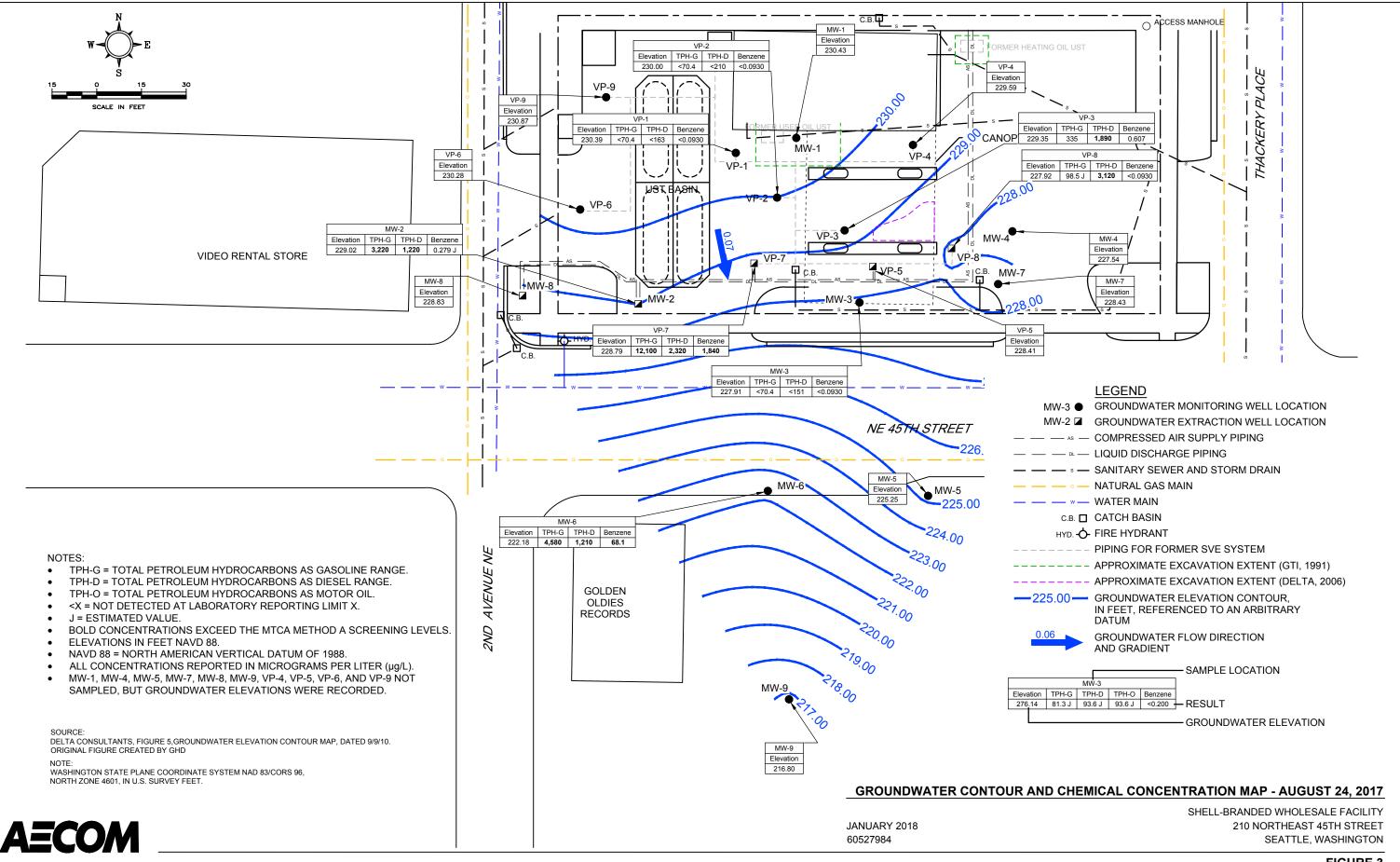


FIGURE 3

Monitoring Well Details Shell-Branded Wholesale Facility 210 Northeast 45th Street Seattle, Washington

Monitoring Well	Status	Gauged/Sampled	Installation Date	Measuring Point Elevation (ft) NAVD 88	Well Screen Interval (ft bgs)
MW-1	Active	G	02/1991	238.63	5 - 15
MW-2	Active	G,S	10/22/91	237.51	5 - 25
MW-3	Active	G,S	10/22/91	238.26	5 - 15
MW-4	Active	G	10/22/91	238.33	5 - 15
MW-5	Active	G	10/23/91	235.98	5 - 20
MW-6	Active	G,S	10/23/91	236.37	5 - 20
MW-7	Active	G	_	237.54	-
MW-8	Active	G	-	238.04	-
MW-9	Active	G,S ¹	07/25/14	236.70	5 - 20
VP-1	Active	G,S	02/07/91	239.33	5 - 15
VP-2	Active	G,S	02/07/91	238.59	5 - 15
VP-3	Active	G,S	02/08/91	237.86	5 - 15
VP-4	Active	G	02/08/91	238.29	5 - 15
VP-5	Active	G	02/08/91	237.93	5 - 25
VP-6	Active	G	02/08/91	238.72	5 - 15
VP-7	Active	G,S	02/11/91	237.80	5 - 15
VP-8	Active	G,S	02/11/91	237.56	5 - 15
VP-9	Active	G	02/11/91	240.67	5 - 15

Notes:

G -Well gauged

S - Well sampled

- - Well detail unknown

ft - feet

bgs - Below ground surface

¹ Scheduled for gauging and/or sampling, but insufficient water was available to collect sample in one or more quarters.

		Total Pe	troleum Hydroca	rbons (μg/L)			Primary VOCs (µg/L)	1	1	1		Oxy	/genates (µ	g/L)		Total Metals (µg/L)		Secondary V	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	ТВА	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
MW-1	04/10/97																		
	11/08/00																		
	02/14/01																		
	04/19/01																		
	08/07/01																		
	11/01/01																		
	03/20/02	195	3,440	577	3.13	< 0.5	< 0.5	< 1											
	05/14/02																		
	08/22/02																		
	12/03/02																		
	03/06/03																		
	06/12/03																		
	09/16/03																		
	12/17/03																		
	03/23/04																		
	07/07/04																		
	09/15/04																		
	12/13/04																		
	03/15/05																		
	06/13/05																		
	09/27/05																		
	12/19/05																		
	03/20/06																		
	05/02/06																		
	12/08/06																		
	03/08/07																		
	06/27/07	279	34,600	4,610	7.18	< 0.500	< 0.500	< 3.00											
	09/26/07																		
	12/27/07																		
	03/27/08	140	6,400	< 1,000	< 1	< 1	< 1	< 1			< 1	< 1	7.4	< 1	< 1				
	06/25/08	160	6,100	< 1,000	< 1	< 1	< 1	< 1			< 1								
		Not Sampled - Wel	Dry																
	12/11/08	83	400	< 500	< 1	< 1	< 1	< 1											
	03/10/09	< 100	220	< 100	< 0.50	< 1.0	< 1.0	< 1.0			< 1.0	< 2.0	< 10	< 2.0	< 2.0				
	05/27/09	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0											
	09/01/09	920	1,200	110	< 0.50	< 1.0	< 1.0	< 1.0											
	12/03/09	< 100	410	< 100	< 0.50	< 1.0	< 1.0	< 1.0	< 0.010	0.5									
	02/18/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0	< 0.010	< 0.50	< 1.0	< 2.0	< 10	< 2.0	< 2.0			< 0.10	< 0.10
	05/04/10	< 100	130	< 100	< 0.50	< 1.0	< 1.0	< 1.0			< 1.0								
	08/17/10	< 100	210	< 100	< 0.50	< 1.0	< 1.0	< 1.0											
	12/16/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0											
	02/25/11	< 100	189	< 96.2	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 20.0	< 1.00	< 1.00				
	08/11/11	< 100	1,470	< 250	< 1.00	< 1.00	< 1.00	< 3.00											

		Total Pe	troleum Hydroca	rbons (µg/L)			Primary VOCs (μg/L)					Oxy	/genates (µ	ıg/L)		Total Metals (µg/L)		Secondary V	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	ТВА	DIPE	ЕТВЕ	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Mathad		000/40001	500	E00	5	1000	700	1000	0.01	F	20			NE		15	NE	160	0.1
MICA Method	A Cleanup Levels	800/1000 ¹	500	500	-	1000	700	1000	0.01	5	20	NE	NE		NE	15		160	0.1
	02/07/12	< 100	< 96.2	< 240	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 1.00	< 1.00				
	07/31/12	< 100	224	< 94.3	< 1.00	< 1.00	< 1.00	< 3.00											
	01/22/13	< 100	191	< 95.2	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/07/13	< 100	644	165	< 1.00	< 1.00	< 1.00	< 2.00											
	03/24/14	< 100	1,920	287	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/27/14	< 100	153	< 93.9	< 1.00	< 1.00	< 1.00	< 2.00											
	01/21/15	< 100	< 93.9	< 93.9	< 1.00	< 1.00	< 1.00	< 2.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	06/29/15	< 100	103	< 93.0	< 1.00	< 1.00	< 1.00	< 3.00											
	02/04/16	< 17.8	< 190	< 285	< 0.0320	< 0.0380	< 0.0860	< 0.0160											
	08/02/16	21.5 J	136	< 60.6	< 0.0930	< 0.312	< 0.198	0.683 J											
	02/23/17																		
	08/24/17																		
	02/07/18																		
MW-2	04/10/97	61,900	9,520		21600	17,600	905	5,920											
	07/24/97	46,400	546		8250	4,920	791	4,500											
	01/27/98	14,400	3,070		1610	1,340	114	1,380											
	04/29/98	656	2,160		16	17	1.7	26											
	07/28/98	7,790	583		247	31	217	1,330											
	10/21/98	17,100	6,930		1990	1,350	406	2,600											
	01/20/99	3,680	1,310		75.5	36	145	292											
	04/22/99	8,560	3,760		423	383	140	565											
	07/21/99	1,370	2,810		71.5	3.3	19	46											
	10/26/99	3,070	3,440		112	47	49	124											
	02/23/00	10,500	68,900		191	586	180	889											
	05/31/00	807	2,930		14.5	75	8.1	96											
	08/22/00	195	1,040		12.5	1.7	7.2	7.4											
	11/08/00	8,960	16,000	< 500	58.2	1,190	120	1,490											
	02/14/01	2,180	3,850	< 500	3.92	125	6.61	427											
	04/19/01	1,110	3,570	< 500	10.9	64	18	111											
	08/07/01	9,260	5,320	759	60.4	1,390	121	1,460											
	11/01/01	100	672	< 500	< 0.5	2.9	0.85	6.1											
	03/20/02	148	367	< 500	1.8	18	3.0	15											
	05/14/02	655	< 284	< 568	1.87	1.7	0.65	3.4											
	08/22/02	6,800	500	< 750	9	500	110	710											
	12/03/02	< 250	< 250	< 750	< 1	< 1	< 1	< 1											
	03/06/03	270	< 250	< 500	4.2	2	8.6	7.5											
	06/11/03	< 250	< 250	< 500	< 1	< 1	< 1	< 1											
	09/16/03	< 250	< 250	< 500	< 1	< 1	< 1	< 1											
	12/17/03	7,500	< 250	< 500	6.3	920	150	1,050											
	03/23/04	16,000	1,000	< 500	5.3	1,300	380	2,330											
	07/07/04	11,000	2,900	< 500	< 5	880	280	2,590											
	09/15/04	6,400	1,900	< 500	12	380	150	1,470											
	12/13/04	720	370	< 500	6	15	2.5	230											
	03/15/05	14,000	810	< 1,500	170	560	760	4,400											
	06/13/05	< 50	< 250	< 500	< 1	< 1	2.5	7.4											

		Total Pe	troleum Hydroca	rbons (μg/L)			Primary VOCs (µg/L)					Oxy	/genates (µ	g/L)		Total Metals (µg/L)		Secondary V	OCs (μg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	МТВЕ	ТАМЕ	ТВА	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
		Caccinic Hange	June 1		Bonzono	Toldono			200	200			1 Bitt			Loud	Ethanor	Tapitalaioneo	017110
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	09/27/05	6,400	620	< 510	530	60	360	1,550											
	12/19/05	< 50.0	414	< 481	0.916	0.525	1.79	11.0											
	03/20/06	769	< 236	< 472	47	7.34	31.1	161											
	05/02/06	6,860 / 6,860	671 / 524	478 / < 476	143 / 147	39.6 / 39.9	326 / 334	1,840 / 1,850	/	/	/	/	/	/	/	/	/	/	/
	12/08/06	16,800	976	< 476	309	56.0	846	4,540											
	03/08/07	3,900	< 243	< 485	62.7	5.95	30.8	780											
	06/27/07	26,900	1,100	< 481	175	48.1	1,360	6,690											
	09/26/07	3,130	< 236	< 472	119	17.7	350	489			< 5.00	< 1.00	< 50.0	< 1.00	< 1.00		< 250		
	12/27/07	1,030 b	< 238	< 476	4.62	2.83	36	292											
	03/27/08	620			1.1	< 1	10	169			< 1	< 1	< 5	< 1	< 1				
	06/25/08	5,800	1,100	< 1,000	25	34	880	3,400			< 1								
	10/01/08	2,200	2,500	< 1,000	16	6.6	220	138			< 1								
	12/11/08	2,300	2,800	< 2,000	4.3	4.6	130	490											
	03/10/09	1,100	240	< 100	1.1	2.7	38	430			< 1.0	< 2.0	< 10	< 2.0	< 2.0				
	05/27/09	3,500	< 100	< 100	0.72	5.4	300	1,200											
	09/01/09	2,600	670	< 100	2.4	4.7	300	410											
	12/03/09	620	220	< 100	< 0.50	< 1.0	35	170	< 0.010	< 0.50									
	02/18/10	< 100	< 100	< 100	< 0.50	< 1.0	2.4	6.6	< 0.010	< 0.50	< 1.0	< 2.0	< 10	< 2.0	< 2.0			< 0.10	< 0.10
	05/04/10	1,900	1,200	< 100	< 0.50	1.7	250	680			< 1.0					< 1.00		19.7	< 0.50
	08/17/10	4,200	3,300	< 100	< 2.5	< 5.0	500	760											
	12/16/10	200	160	< 100	< 0.50	< 1.0	6.3	15											
	02/25/11	636	378	141	< 1.00	< 1.00	14.3	17.9			< 1.00	< 1.00	< 20.0	< 1.00	< 1.00				
	08/11/11	4,100	804	< 250	< 1.00	2.05	401	227											
	02/07/12	600	331	< 240	< 1.00	< 1.00	14.0	34.1			< 1.00	< 1.00	< 10.0	< 1.00	< 1.00				
	07/31/12																		
	08/01/12	2,440	878	< 94.3	< 1.00	1.81	324	146											
	01/22/13	< 100	< 95.2	< 95.2	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/07/13	1,680	432	< 100	< 1.00	1.54	235	22.0											
	03/24/14	130	419	166	< 1.00	< 1.00	9.41	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/27/14	2,910	966	< 93.9	< 1.00	1.6	358	59.3											
	01/21/15	148	180	< 93.9	< 1.00	< 1.00	3.28	< 2.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	06/29/15	2,480	609	< 93.5	< 1.00	1.94	294	27.7											
	02/04/16	< 17.8	< 190	< 285	< 0.0320	< 0.0380	< 0.0860	< 0.0160											
	08/02/16	1,120	658	< 61.0	0.396	1.71	190	31.7											
	02/23/17	< 70.4	78.2 J	< 62.1	< 0.200	< 0.170	< 0.190	< 0.580			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
	08/24/17	3,220	1,220	< 126	0.279 J	1.84	288	39.4											
	02/07/18	< 70.4	< 109	< 119	< 0.200	< 0.170	< 0.190	< 0.580			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
MW-3	04/10/97	< 50	< 250		0.559	< 0.5	< 0.5	< 1											
	07/24/97	56	281		34.4	0.66	< 0.5	< 1											
	11/06/97	89	261		606	< 0.5	< 0.5	3.36											
	01/27/98	< 50	273		52.3	< 0.5	< 0.5	< 1											
	04/29/98	178	< 250		786	1.12	< 0.5	< 1											
	07/28/98	175	< 250		193	< 0.5	< 0.5	< 1											
	10/21/98	< 50	< 250		47.5	< 0.5	< 0.5	< 1											
	01/20/99	< 50	< 250		< 0.5	< 0.5	< 0.5	< 1											

		Total Pe	troleum Hydroca	rbons (μg/L)			Primary VOCs (µg/L)		1	1		Oxy	/genates (µ	ug/L)		Total Metals (µg/L)		Secondary V	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	МТВЕ	TAME	TBA	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	04/22/99	< 50	< 250		2.16	< 0.5	< 0.5	< 1											
	07/21/99	< 50	< 250		< 0.5	< 0.5	< 0.5	< 1											
	10/26/99	< 50	< 371		< 0.5	< 0.5	< 0.5	< 1											
	02/23/00	< 50	< 250		< 0.5	< 0.5	< 0.5	< 1											
	05/31/00	< 1	< 250		< 0.5	< 0.5	< 0.5	< 1											
	08/22/00	158	< 294		9.36	< 0.5	< 0.5	1.14											
	11/08/00	< 50	< 250	< 500	< 0.5	< 0.5	< 0.5	< 1											
	02/14/01	< 50	< 250	< 500	2.66	< 0.5	< 0.5	< 1											
	04/19/01	< 50	< 250	< 500	1.45	< 0.5	< 0.5	< 1											
	08/07/01	< 50	< 250	< 500	< 0.5	< 0.5	< 0.5	< 1											
	11/01/01	< 50	< 250	< 500	< 0.5	< 0.5	< 0.5	< 1											
<u> </u>	03/20/02	< 50	< 250	< 500	0.661	< 0.5	< 0.5	< 1											
	05/14/02	< 50	< 250	< 500	0.868	0.664	< 0.5	1.41											
	08/22/02	< 250	< 250	< 750	< 1	< 1	< 1	< 1											
	12/03/02	< 250	< 250	< 750	<1	< 1	<1	< 1											
	03/06/03	< 250	< 250	< 500	<1	< 1	<1	< 1											
	06/12/03	< 250	< 250	< 500	< 1	< 1	< 1	< 1											
	09/16/03	< 250	< 250	< 500	< 1	< 1	< 1	< 1											
	12/17/03	< 250	330	< 500	< 1	< 1	< 1	< 1											
	03/23/04	< 250	< 250	< 500	< 1	< 1	< 1	< 1											
	07/07/04	< 250	1,500	< 500	< 1	< 1	< 1	< 1											
	09/15/04	< 250	1,300	< 500	< 1	< 1	< 1	< 1											
	12/13/04	< 250	530	< 500	< 1	< 1	< 1	< 1											
	03/15/05	< 250	< 250	< 500	< 1	< 1	< 1	< 1											
	06/13/05	< 50	< 250	< 500	< 1	< 1	< 1	< 1											
	09/27/05	< 50	440	< 500	< 1	< 1	< 1	< 1											
	12/19/05	< 50.0	396	< 481	< 0.500	< 0.500	< 0.500	< 1.00											
	03/20/06	< 50.0	< 236	< 472	< 0.500	< 0.500	< 0.500	< 1.00											
	05/02/06	< 50.0	< 238	< 476	< 0.500	< 0.500	< 0.500	< 1.00											
	12/08/06	< 50.0	< 245	< 490	0.68	< 0.500	< 0.500	< 3.00											
	03/08/07	< 50.0	< 243	< 485	< 0.500	< 0.500	< 0.500	< 3.00											
	06/27/07	< 50.0	< 240	< 481	< 0.500	< 0.500	< 0.500	< 3.00											
	09/26/07	< 50.0	< 236	< 472	< 0.500	< 0.500	< 0.500	< 3.00			< 5.00	< 1.00	< 50.0	< 1.00	< 1.00		< 250		
	12/27/07	< 50.0	< 238	< 476	< 0.500	< 0.500	< 0.500	< 3.00											
	03/27/08	< 50	< 250	< 500	< 1	< 1	< 1	< 1			< 1	< 1	< 5	< 1	< 1				
	06/25/08	< 50	< 250	< 500	< 1	< 1	< 1	< 1			< 1								
	10/01/08	< 50	< 250	< 500	< 1	< 1	< 1	< 1			< 1								
	12/11/08	< 50	< 250	< 500	< 1	< 1	< 1	1.6											
	03/10/09																		
	05/27/09																		
	09/01/09																		
	12/03/09																		
	02/18/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0	< 0.010	< 0.50	< 1.0	< 2.0	< 10	< 2.0	< 2.0			< 0.10	< 0.10
	05/05/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0			< 1.0					< 1.00		< 0.10	< 0.10
	08/17/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0											

		Total Pe	troleum Hydroca	rbons (μg/L)			Primary VOCs (μg/L)		-			Oxy	/genates (µ	ıg/L)	_	Total Metals (µg/L)		Secondary V	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	ТВА	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	12/16/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0											
	02/25/11	< 100	< 96.2	< 96.2	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 20.0	< 1.00	< 1.00				
	08/11/11	< 100	< 100	< 250	< 1.00	< 1.00	< 1.00	< 3.00					~ 20.0						
	02/07/12	< 100	< 96.2	< 240	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 1.00	< 1.00				
	07/31/12	< 100	< 94.3	< 94.3	< 1.00	< 1.00	< 1.00	< 3.00				< 1.00 	< 10.0 	< 1.00 					
	01/22/13	< 100	< 94.3	< 95.2	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/07/13	< 100	207	< 100	< 1.00	< 1.00	< 1.00	< 2.00					< 10.0 	< 2.00					
	03/24/14	< 100	< 93.9	< 93.9	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/27/14	< 100	< 93.9	< 93.9	< 1.00	< 1.00	< 1.00	< 2.00				< 1.00		< 2.00					
	01/21/15	< 100	< 93.9	< 93.9	< 1.00	< 1.00	< 1.00	< 2.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	06/29/15	< 100	< 93.0	< 93.0	< 1.00	< 1.00	< 1.00	< 3.00						~ 2.00					
	02/04/16	< 17.8	< 190	< 284	< 0.0320	< 0.0380	< 0.0860	< 0.0160											
	08/02/16	< 17.8	149	< 61.4	< 0.0930	< 0.312	< 0.198	< 0.162											
	02/23/17	< 70.4	< 40.6	< 60.9	< 0.200	< 0.170	< 0.198	< 0.580			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
	08/24/17	< 70.4	< 40.0	< 126	< 0.0930	< 0.312	0.417 J	< 0.442					< 3.90						
	02/07/18	< 70.4	< 109	< 119	< 0.200	< 0.312	< 0.190	< 0.442			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
MW-4	04/10/97		1					1											
10100-4																			
	07/24/97																		
	01/27/98																		
	04/29/98																		
	07/28/98																		
	10/21/98																		
	01/20/99																		
	04/22/99																		
	07/21/99																		
	10/26/99																		
	02/23/00																		
	05/31/00																		
	08/22/00																		
	11/08/00																		
	02/14/01																		
	04/19/01																		
	08/07/01																		
	11/01/01																		
	03/20/02	< 50	< 250	< 500	< 0.5	< 0.5	< 0.5	< 1											
	05/14/02																		
	08/22/02																		
	12/03/02																		
	03/06/03																		
	06/12/03																		
	09/16/03																		
	12/17/03																		
	03/23/04																		
	07/07/04																		
	09/15/04																		

		Total Pe	troleum Hydroca	rbons (μg/L)			Primary VOCs (µg/L)					Ox	ygenates (j	ıg/L)		Total Metals (µg/L)		Secondary V	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	ТВА	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method A	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	12/13/04																		
	03/15/05																		
	06/13/05																		
	09/27/05																		
	12/19/05																		
	03/20/06																		
	05/02/06																		
	12/08/06																		
	03/08/07																		
	06/27/07	< 50.0	< 240	< 481	< 0.500	< 0.500	< 0.500	< 3.00											
	09/26/07																		
	12/27/07																		
	03/27/08	< 50	< 250	< 500	< 1	< 1	< 1	< 1			< 1	< 1	< 5	< 1	< 1				
	06/25/08	< 50	< 250	< 500	< 1	< 1	< 1	< 1			< 1								
	10/01/08	< 50	< 250	< 500	< 1	< 1	< 1	< 1			< 1								
	12/11/08	< 50	< 250	< 500	< 1	< 1	< 1	< 1											
	03/10/09																		
	05/27/09																		
	09/01/09																		
	12/03/09																		
	02/18/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0	< 0.010	< 0.50	< 1.0	< 2.0	< 10	< 2.0	< 2.0			< 0.10	< 0.10
	05/05/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0			< 1.0					< 1.00		< 0.10	< 0.10
	08/17/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0											
	12/16/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0											
	02/25/11	< 100	< 97.1	383	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 20.0	< 1.00	< 1.00				
	08/11/11	< 100	< 96.2	< 240	< 1.00	< 1.00	< 1.00	< 3.00											
	02/07/12	< 100	< 96.2	< 240	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 1.00	< 1.00				
	07/31/12	< 100	< 94.3	< 94.3	< 1.00	< 1.00	< 1.00	< 3.00											
	01/22/13	< 100	< 95.2	< 95.2	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/07/13	< 100	< 100	< 100	< 1.00	< 1.00	< 1.00	< 2.00											
	03/24/14	< 100	< 93.9	< 93.9	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/27/14																		
	01/21/15																		
	06/29/15																		
	02/04/16																		
	08/02/16																		
	02/23/17																		
	08/24/17																		
	02/07/18																		
MW-5	04/10/97																		
	07/24/97																		
	01/27/98																		
	04/29/98																		
	07/28/98																		
	10/21/98	< 50	< 250	NA	< 0.5	< 0.5	< 0.5	< 1											

		Total Pe	troleum Hydroca	rbons (μg/L)			Primary VOCs (µg/L)		1	1		Oxy	ygenates (j	ug/L)		Total Metals (µg/L)		Secondary V	′OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	ТВА	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	01/20/99																		
	01/20/99																		
	07/21/99																		
	10/26/99																		
	02/23/00																		
	05/31/00																		
	08/22/00																		
	11/08/00																		
	02/14/01																		
	04/19/01																		
	08/07/01																		
	11/01/01																		
	03/20/02	< 50	< 250	< 500	< 0.5	< 0.5	< 0.5	< 1											
	05/14/02																		
	08/22/02																		
	12/03/02																		
	03/06/03	< 250	< 250	< 500	< 1	< 1	< 1	< 1											
	06/12/03	< 250	< 250	< 500	< 1	< 1	< 1	< 1											
	09/16/03																		
	12/17/03	< 250	< 250	< 500	< 1	< 1	< 1	< 1											
	03/23/04																		
	07/07/04																		
	09/15/04																		
	12/13/04																		
	03/15/05																		
	06/13/05																		
	09/27/05																		
	12/19/05																		
	03/20/06																		
	05/02/06																		
	12/08/06																		
	03/08/07																		
	06/27/07	< 50.0	< 240	< 481	< 0.500	< 0.500	< 0.500	< 3.00											
	09/26/07																		
	12/27/07																		
	03/27/08	< 50	< 250	< 500	< 1	< 1	< 1	< 1			< 1	< 1	< 5	< 1	< 1				
	06/25/08	< 50	< 250	590	< 1	< 1	< 1	< 1			< 1								
	10/01/08	< 50	310	< 500	< 1	< 1	< 1	< 1			< 1								
	12/11/08	< 50	< 250	< 500	< 1	< 1	< 1	< 1											
	03/10/09																		
	05/27/09																		
	09/01/09																		
	12/03/09	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0	< 0.010	< 0.50									
	02/18/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0	< 0.010	< 0.50	< 1.0	< 2.0	< 10	< 2.0	< 2.0			< 0.10	< 0.10
	05/05/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0			< 1.0					2.63		< 0.10	< 0.10

		Total Pe	troleum Hydroca	rbons (μg/L)			Primary VOCs (µg/L)	-				Oxy	/genates (µ	ig/L)		Total Metals (µg/L)		Secondary V	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	ТВА	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	08/17/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0											
	12/16/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0											
	02/25/11	< 100	< 95.2	1,790	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 20.0	< 1.00	< 1.00				
	08/11/11	< 100	< 100	< 250	< 1.00	< 1.00	< 1.00	< 3.00											
	02/07/12	< 100	< 95.2	< 238	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 1.00	< 1.00				
	07/31/12	< 100	< 94.3	489	< 1.00	< 1.00	< 1.00	< 3.00											
	01/22/13	< 100	< 95.2	< 95.2	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/07/13	< 100	< 100	< 100	< 1.00	< 1.00	< 1.00	< 2.00						~ 2.00					
	03/24/14	< 100	< 93.9	136	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/27/14																		
	01/21/15																		
	06/29/15																		
	02/04/16																		
	08/02/16																		
	02/23/17																		
	08/24/17																		
	02/07/18																		
MW-6	04/10/97	55.1	< 250		28.1	< 0.5	< 0.5	< 1											
10100-0	07/24/97	354	348		49.4	0.78	< 0.5	1.85											
	11/06/97	24,100	462		6870	4,870	342	1,970											
	01/27/98	18,200	373		4660	3,670	304	1,600											
	04/29/98	33,700	1,970		4730	5,190	496	2,600											
	07/28/98	58.200	400		6160	8,230	1,190	6,200											
	10/21/98	7,050	< 250		1780	946	256	849											
	01/20/99	2,300	< 250		868	222	102	226											
	04/22/99	18,000	299		3600	3,490	488	2,330											
	07/21/99	41,200	299		6840	6,590	1,090	5,300											
	10/26/99	55,400	405		7780	8,270	1,350	6,970											
	02/23/00	5,970	< 250		1370	416	280	838											
	05/31/00	34,500	295		3250	4,430	1,020	4,990											
	08/22/00	50,300	318		5500	6,900	1,440	7,450											
	11/08/00	22,400	836	< 500	3480	2,990	778	3,750											
	02/14/01	12,200	< 250	< 500	1660	1,260	463	1,980											
	04/19/01	18,500	301	< 500	3230	2,020	691	2,990											
	08/07/01	21,100	923	< 500	3580	1,810	841	3,920											
	11/01/01 03/20/02	19,700 12,800	< 250 295	< 500 < 500	2860 2510	1,050 1,130	841 458	3,000 1,240											
	03/20/02	21,100	295 330	< 500	3930	2,100	458 759	3,300											
	03/14/02	14,000 / 15,000	700 / 700	< 750 / < 750	2,300 / 2,300	1,100 / 1,100	400 / 410	2,030 / 2,040	/	/	/	/	/	/	/	/	/	/	/
	12/03/02	24,000	< 250	< 750 / < 750	2,30072,300	910	710	2,03072,040	/	/	/	/	/	/	/	/	/	/	/
	03/06/03	4,200	< 250 370	< 1,000	1100	48	280	2,030 600											
		32,000			5500														
	06/12/03	,	530 720	< 500		1,200 340	1,300 990	4,820											
	09/16/03 12/17/03	19,000	440	< 500	3100 1400		320	3,350 621											
		4,700		< 500		51													
	03/23/04	19,000	570	< 500	3200	1,000	790	2,930											

		Total Pe	troleum Hydroca	rbons (µg/L)			Primary VOCs (μg/L)					Oxy	ygenates (µ	ig/L)		Total Metals (µg/L)		Secondary V	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	ТАМЕ	ТВА	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	07/07/04	29,000	1,800	< 500	3900	860	1,000	4,060											
	09/15/04	29,000	4,800	< 1,000	4600	350	1,300	4,500											
	12/13/04	16,000	< 250	< 500	2100	160	960	2,460											
	03/15/05	14,000 / 14,000	260 / 260	< 500 / < 500	1,300 / 1,300	210 / 200	1,100 / 1,100	2,310 / 2,210											
	06/13/05	20,000	< 250	< 500	1800	390	1,500	3,790											
	09/27/05	19,000 / 19,000	< 250 / 280	< 500 / < 520	2,100 / 2,000	320 / 320	1,500 / 1,400	3,800 / 3,580	/	/	/	/	/	/	/	/	/	/	/
	12/19/05	18,600	425	< 485	1790	194	1,410	2,680											
	03/20/06 05/02/06	8,980 21,400	< 236 246	< 472 < 476	522 1300	109 557	745 1,500	961 3.230											
	12/08/06			< 470															
	03/08/07																		
	06/27/07	26,900	2,000	490	1480	323	1,730	3,760											
	09/26/07	16,700	257	< 472	1400	289	2,060	< 300			< 5.00	< 1.00	< 50.0	< 1.00	< 1.00		< 250		
	12/27/07	7,870	681	1,300	417	88.7	603	989											
	03/27/08	12,000	< 250	< 500	340	120	930	1,365			< 1	< 1	8.6	< 1	< 1				
	06/25/08	13,000	450	510	320	140	920	1,762			< 10								
	10/01/08	11,000	410	< 500	330	100	810	1,323			< 20								
	12/11/08	7,500	< 250	< 500	130	61	540	892											
	03/10/09	6,000	< 100	< 100	85	23	370	480			< 1.0	< 2.0	< 10	< 2.0	< 2.0				
	05/27/09	4,900	< 100	< 100	110	41	390	500											
	09/01/09	6,800	1,600	< 100	130	25	300	440											
	12/03/09	4,400	1,700	< 100	76	17	270	270	< 0.010	< 1.0									
	02/18/10	4,100	1,700	< 100	100	25	400	410	< 0.010	< 1.0	< 2.0	< 4.0	< 20	< 4.0	< 4.0			111	< 2.5
	05/05/10	5,200	1,700	150	140	36	610	930			< 1.0					4.51		38	< 1.0
	08/17/10	4,900	2,300	< 100	150	32	450	610											
	12/16/10	4,100	1,800	170	120	20	470	470											
	02/25/11	7,650	1,720	8,160	81.5	16.9	557	509			< 1.00	< 1.00	< 20.0	< 1.00	< 1.00				
	08/11/11	13,400	1,170	834	418	45.4	816	1,140											
	02/07/12	4,880	1,100	362	83.8	11.9	451	459			< 1.00	< 1.00	< 10.0	< 1.00	< 1.00				
	07/31/12																		
	08/01/12	12,000	1,880	408	184	34.9	857	1,140											
	01/22/13	5,240	826	165	89.0	8.35	360	169			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/07/13	2,090	1,230	513	171	22.2	792	1,130											
	03/24/14	6,160	1,150	1,900	52.2	8.56	407	198			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/27/14	7,990	1,780	1,570	167	25.4	923	885											
	01/21/15	5,010	1,160	285	68.1	8.82	292	124			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	06/29/15	9,510	1,210	236	148	20.9	543	589											
	02/04/16	2,600	689	< 285	41.6	4.51	197	49.9											
	08/09/16	5,180	1,180	372	162	17.4	493	437											
	02/23/17 08/24/17	2,500	723	65.2 J	32.0	5.21	183	104			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
		4,580	1,210 629	481	68.1	11.9 4.98	284	272			< 0.170								
MW-7	02/07/18 04/10/97	2,780 < 50	629 < 250	< 119	30.2 < 0.5	<u>4.98</u> < 1	132 < 0.5	44.9 < 1			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
10100-7	07/24/97	< 50	< 250 < 250		< 0.5	<1	< 0.5	<1											
	11/06/97	< 50	< 250		< 0.5	< 1	< 0.5	< 1											

		Total Pe	troleum Hydroca	rbons (µg/L)			Primary VOCs (μg/L)			-		Oxy	/genates (µ	ig/L)		Total Metals (µg/L)		Secondary V	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	TBA	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	01/27/98	< 50	< 250		< 0.5	< 1	< 0.5	< 1											
	04/29/98	< 50	< 250		< 0.5	0.56	< 0.5	< 1											
	07/28/98	< 50	< 250		< 0.5	< 0.5	< 0.5	< 1											
	10/21/98	< 50	< 250		< 0.5	< 0.5	< 0.5	<1											
	01/20/99	< 50	< 250		< 0.5	< 0.5	< 0.5	< 1											
	04/22/99	< 50	< 250		< 0.5	< 0.5	< 0.5	<1											
	07/21/99	< 50	< 250		< 0.5	< 0.5	< 0.5	< 1											
	10/26/99	< 50	< 311		< 0.5	< 0.5	< 0.5	< 1											
	02/23/00	< 50	< 509		< 0.5	< 0.5	< 0.5	< 1											
	05/31/00	< 50	< 250		< 0.5	0.79	< 0.5	1.48											
	08/22/00	< 50	< 494		< 0.5	< 0.5	< 0.5	< 1											
	11/08/00	< 50	< 295	< 590	< 0.5	< 0.5	< 0.5	< 1											
	02/14/01	< 50	< 250	< 500	< 0.5	< 0.5	< 0.5	<1											
	04/19/01	< 50	< 250	< 500	< 0.5	< 0.5	< 0.5	< 1											
	08/07/01	< 50	< 250	< 500	< 0.5	< 0.5	< 0.5	< 1											
	11/01/01	< 50	< 250	< 500	< 0.5	< 0.5	< 0.5	< 1											
	03/20/02	< 50	< 250	< 500	< 0.5	< 0.5	< 0.5	< 1											
	05/14/02	< 50	< 250	< 500	< 0.5	< 0.5	< 0.5	< 1											
	08/22/02	< 250	< 250	< 750	< 1	< 1	< 1	< 1											
	12/03/02	< 250	< 250	< 750	<1	<1	<1	< 1											
	03/06/03	< 250	< 250	< 500	<1	< 1	<1	< 1											
	06/12/03	< 250	< 250	< 500	<1	< 1	<1	< 1											
	09/16/03	< 250	< 250	< 500	<1	< 1	<1	< 1											
	12/17/03	< 250	< 250	< 500	<1	< 1	< 1	< 1											
	03/23/04	< 250	< 250	< 500	<1	< 1	<1	< 1											
	07/07/04	< 250	< 250	< 500	<1	< 1	< 1	< 1											
	09/15/04	< 250	< 250	< 500	<1		< 1	< 1											
	12/13/04	< 250	< 250	< 500	<1	<1	<1	2.4											
	03/15/05	< 250	< 250	< 500	<1	< 1	< 1	< 1											
	06/13/05 09/27/05	< 50 < 50	< 250 < 250	< 500 < 500	<1 <1	<1	<1	< 1 < 1											
	12/19/05	< 50	< 250	< 481	< 0.500	< 0.500	< 0.500	< 1.00											
	03/20/06 05/02/06	< 50.0 < 50.0	< 236 < 238	< 472 < 476	< 0.500 < 0.500	< 0.500 < 0.500	< 0.500 < 0.500	< 1.00 < 1.00											
	12/08/06	< 50.0	< 245	< 490	< 0.500	< 0.500	< 0.500	< 3.00											
	03/08/07	< 50.0	< 250	< 500	< 0.500	< 0.500	< 0.500	< 3.00											
	06/27/07	< 50.0	< 240	< 481	< 0.500	< 0.500	< 0.500	< 3.00											
	09/26/07	< 50.0	< 236	< 472	< 0.500	< 0.500	< 0.500	< 3.00			< 5.00	< 1.00	< 50.0	< 1.00	< 1.00		< 250		
	12/27/07	< 50.0 Not Sampled - Too	< 236	< 472	< 0.500	< 0.500	< 0.500	< 3.00											
	06/25/08																		
	10/01/08																		
	12/11/08																		
	03/10/09																		
	05/27/09																		

		Total Pe	troleum Hydroca	rbons (μg/L)			Primary VOCs (µg/L)		1	1		Oxy	/genates (j	ug/L)		Total Metals (µg/L)		Secondary V	′OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	ТВА	DIPE	ЕТВЕ	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	09/01/09																		
	12/03/09																		
	02/18/10																		
	05/04/10																		
	12/16/10																		
	02/25/11																		
	08/11/11																		
	02/07/12																		
	07/31/12																		
	01/22/13																		
	08/07/13																		
	03/24/14																		
	08/27/14																		
	01/21/15																		
	06/29/15																		
	02/04/16																		
	08/02/16																		
	02/23/17																		
	08/24/17																		
	02/07/18																		
MW-8	04/10/97	1,140	 < 250		854	365	22.3	115											
10100-0	07/24/97	78,300	< 230 7,330		16,900	14,100	1,020	5,130											
	11/06/97	61,500	7,330		11,400			6,390											
	01/27/98	35,100	3,560		2150	15,100	1,110	,											
	01/27/98	,	,		6230	3,700	398 283	3,790											
		36,300	4,390			1,470		2,920											
	07/28/98	209,000	172,000		3380	663	247	2,270											
	10/21/98	13,100	23,200		764	109	53	287											
	01/20/99	4,410	3,010		135	9.5	71	136											
	04/22/99	2,040	2,460		299	76	19	252											
	07/21/99	2,430	1,670		462	41	91	147											
	10/26/99	2,000	2,140		309	34	81	108											
	02/23/00	858	2,040		9.09	5.5	3.6	22											
	05/31/00	1,290	2,570		46.6	4.4	4.8	19											
	08/22/00	1,230	1,360		368	19	40	40											
	11/08/00	898	2,210	< 622	172	14	56	54											
	02/14/01	388	1,720	< 500	38.6	4.2	2.4	12											
	04/19/01	302	1,200	< 500	33.4	2.2	7.6	6.9											
	08/07/01	511	397	< 500	195	1.4	16	6.1											
	11/01/01	273	5,630	2,320	61.5	< 0.5	4.3	< 1											
	03/20/02	1,860	5,160	1,030	369	147	52	238											
	05/14/02	106	362	< 500	9.75	3.1	6.4	16											
	08/22/02	1,000	3,300	< 7,500	25	2.0	46	21											
	12/03/02	< 250	270	< 750	3	< 1	12	< 1											
	03/06/03	< 250	< 250	< 500	19	< 1	< 1	< 1											
	06/11/03	300	< 250	< 500	83	6.1	12	34											

		Total Pe	troleum Hydroca	rbons (μg/L)			Primary VOCs (µg/L)		1	1		Oxy	/genates (µ	ıg/L)		Total Metals (µg/L)		Secondary V	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	TBA	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	09/16/03	< 250	< 250	< 500	15	< 1	6.7	6.2											
	12/17/03	< 250	< 250	< 500	5	<1	1.2	< 1											
	03/23/04	< 250	< 250	< 500	<1	<1	< 1	< 1											
	07/07/04	< 250	< 250	< 500	<1	< 1	<1	< 1											
	09/15/04	< 250	< 250	< 500	<1	<1	<1	< 1											
	12/13/04	< 250	< 250	< 500	<1	<1	<1	< 1											
			< 250	< 500	10														
	03/15/05	< 250				< 1	19	5.1											
	06/13/05	140	< 250	< 500	3.2	2.7	3	24.2											
	09/27/05	800	< 250	< 500	28	8.3	52	46											
	12/19/05	2,910	552	< 481	331	25.3	221	276											
	03/20/06	< 50.0 / < 50.0	< 236 / < 236	< 472 / < 472	< 0.500 / < 0.500	< 0.500 / < 0.500	< 0.500 / < 0.500	< 1.00 / < 1.00	/	/	/	/	/	/	/	/	/	/	/
	05/02/06	< 50.0	< 236	< 472	0.887	< 0.500	< 0.500	< 1.00											
	12/08/06	< 50.0	< 263	< 526	< 0.500	< 0.500	< 0.500	< 3.00											
	03/08/07	< 50.0	< 245	< 490	< 0.500	< 0.500	< 0.500	< 3.00											
	06/27/07	< 50.0	< 240	< 481	< 0.500	< 0.500	< 0.500	< 3.00											
	09/26/07	50.4	< 236	< 472	0.84	< 0.500	< 0.500	< 3.00			< 5.00	< 1.00	< 50.0	< 1.00	< 1.00		< 250		
	12/27/07	< 50.0	< 236	< 472	0.65	< 0.500	1.48	< 3.00											
	03/27/08	< 50	< 250	< 500	< 1	< 1	< 1	< 1			< 1	< 1	< 5	< 1	< 1				
	06/25/08	< 50	790	< 1,000	< 1	< 1	< 1	< 1			< 1								
	10/01/08	< 50	1,100	< 500	< 1	< 1	< 1	< 1			< 1								
	12/11/08	< 50	< 250	< 500	< 1	< 1	< 1	< 1											
	03/10/09	< 100	150	< 100	< 0.50	< 1.0	< 1.0	< 1.0			< 1.0	< 2.0	< 10	< 2.0	< 2.0				
	05/27/09	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0											
	09/01/09	2,400	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0											
	12/03/09	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0	< 0.01	< 0.50									
	02/18/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0	< 0.010	< 0.50	< 1.0	< 2.0	< 10	< 2.0	< 2.0			< 0.10	< 0.10
	05/05/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0			< 1.0					1.01		< 0.10	< 0.10
	08/17/10																		
	12/16/10																		
	02/25/11																		
	08/11/11																		
	02/07/12																		
	07/31/12																		
	01/22/13																		
	08/07/13																		
	03/24/14																		
<u> </u>	08/27/14	< 100	472	< 93.9	< 1.00	< 1.00	< 1.00	< 2.00											
	01/21/15																		
<u> </u>	01/22/15	< 100	< 93.9	< 93.9	< 1.00	< 1.00	1.28	2.66			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
<u> </u>	06/29/15	< 100	< 93.0	< 93.0	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00		< 2.00	< 1.00				
<u> </u>	02/04/16	< 17.8	< 189	< 284	< 0.0320	< 0.0380	< 0.0860	< 0.0160											
	02/04/18	< 17.8	48.5 J	< 60.8	< 0.0930	< 0.312	< 0.198	< 0.162											
	02/23/17																		
	02/23/17 08/24/17																		
	02/07/18																		

		Total Pe	troleum Hydroca	rbons (µg/L)		I	Primary VOCs (µg/L)					Оху	/genates (µ	ig/L)		Total Metals (µg/L)		Secondary V	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	ТВА	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
											ſ								
MW-9	07/31/14																		
	08/25/14																		
	08/27/14																		
	01/21/15																		
	02/18/15																		
	03/05/15																		
	03/17/15																		
	06/29/15																		
	02/04/16	< 17.8	< 190	< 285	< 0.0320	0.146 J	< 0.0860	< 0.0160											
		Insufficient water to	· ·																
	02/23/17	< 70.4	< 42.4	< 63.7	< 0.200	< 0.170	< 0.190	< 0.580			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
	08/24/17																		
	02/07/18	< 70.4	< 109	< 119	< 0.200	< 0.170	< 0.190	< 0.580			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
VP-1	12/03/02																		
	03/06/03																		
	06/12/03																		
	09/16/03	260	620	< 500	2.4	< 1	1.2	6.6											
	12/17/03																		
	03/23/04																		
	07/07/04																		
	09/15/04																		
	12/13/04																		
	03/15/05																		
	06/13/05																		
	09/27/05																		
	12/19/05																		
	03/20/06																		
	05/02/06																		
	12/08/06																		
	03/08/07																		
	06/27/07	< 50.0	< 240	< 481	< 0.500	< 0.500	< 0.500	< 3.00											
	09/26/07																		

		Total Pe	troleum Hydroca	rbons (μg/L)			Primary VOCs (µg/L)	1				Oxy	/genates (µ	ıg/L)		Total Metals (µg/L)		Secondary V	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	TBA	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method A C	Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	12/27/07																		
	03/27/08																		
	06/25/08																		
	10/01/08																		
	12/11/08																		
	03/10/09																		
	05/27/09																		
	09/01/09																		
	12/03/09																		
	02/18/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0	< 0.010	< 0.50	< 1.0	< 2.0	< 10	< 2.0	< 2.0			< 0.10	< 0.10
	05/04/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0										< 0.10	< 0.10
	08/17/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0											
	12/16/10	< 100	100	< 100	< 0.50	< 1.0	< 1.0	< 1.0											
	02/25/11	< 100	< 96.2	< 96.2	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 20.0	< 1.00	< 1.00				
	08/11/11	< 100	< 97.1	< 243	< 1.00	< 1.00	< 1.00	< 3.00											
	02/07/12	< 100	< 98.0	< 245	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 1.00	< 1.00				
	07/31/12	< 100	613	< 94.3	< 1.00	< 1.00	< 1.00	< 3.00											
	01/22/13	< 100	109	< 95.2	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/07/13	< 100	285	233	< 1.00	< 1.00	< 1.00	< 2.00											
	03/24/14	< 100	3,460	455	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/27/14	< 100	195	< 93.9	< 1.00	< 1.00	< 1.00	< 2.00											
	01/21/15	< 100	115	< 93.9	< 1.00	< 1.00	< 1.00	< 2.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	06/29/15	< 100	837	122	< 1.00	< 1.00	< 1.00	< 3.00											
	02/04/16	< 17.8	292	< 286	< 0.0320	< 0.0380	< 0.0860	< 0.0160											
	08/02/16	< 17.8	85.0 J	< 60.7	< 0.0930	< 0.312	< 0.198	< 0.162											
	02/23/17	< 70.4	< 40.8	< 61.2	< 0.200	< 0.170	< 0.190	< 0.580			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
	08/24/17	< 70.4	< 163	< 130	< 0.0930	< 0.312	< 0.198	< 0.442											
	02/07/18																		
VP-2	04/10/97																		
	07/24/97																		
	01/27/98																		
	04/29/98																		
	07/28/98																		
	10/21/98																		
	01/20/99																		
	04/22/99																		
	07/21/99																		
	10/26/99																		
	02/23/00																		
	05/31/00																		
	08/22/00																		

		Total Pe	troleum Hydroca	rbons (μg/L)			Primary VOCs (µg/L)					Oxy	/genates (µ	ıg/L)		Total Metals (µg/L)		Secondary V	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	TBA	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	11/08/00																		
	02/14/01																		
	04/19/01																		
	08/07/01																		
	11/01/01																		
	03/20/02	202	2,560	< 500	41.3	3.5	1.2	4.6											
	05/14/02																		
	08/22/02																		
	12/03/02																		
	03/06/03																		
	06/11/03																		
	09/16/03																		
	12/17/03																		
	03/23/04																		
	07/07/04																		
	09/15/04																		
	12/13/04																		
	03/15/05																		
	06/13/05																		
	09/27/05																		
	12/19/05																		
	03/20/06																		
	05/02/06																		
	12/08/06																		
	03/08/07																		
	06/27/07	334	< 240	< 481	19.4	0.520	1.13	< 3.00											
	09/26/07																		
	12/27/07																		
	03/27/08																		
	06/25/08																		
	10/01/08																		
	12/11/08																		
	03/10/09																		
	05/27/09																		
	09/01/09																		
	12/03/09																		
	02/18/10																		
	05/04/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0											
	08/17/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0											
	12/16/10	< 100	160	< 100	< 0.50	< 1.0	< 1.0	< 1.0											
	02/25/11	< 100	136	120	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 20.0	< 1.00	< 1.00				
	08/11/11	< 100	< 100	< 250	< 1.00	< 1.00	< 1.00	< 3.00											
	02/07/12	< 100	166	< 240	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 1.00	< 1.00				
	07/31/12																		
	08/01/12	< 100	195	< 94.3	< 1.00	< 1.00	< 1.00	< 3.00											
	01/22/13	< 100	262	< 95.2	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/07/13	< 100	139	< 100	< 1.00	< 1.00	< 1.00	< 2.00											

		Total Pe	troleum Hydroca	rbons (μg/L)			Primary VOCs (μg/L)		1	1		Oxy	ygenates (µ	ıg/L)		Total Metals (µg/L)		Secondary V	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	ТВА	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Mathad	A Cleanup Levels	202/40221	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
WITCA Method		800/1000 ¹			-	1000			0.01	5	-				-	15			0.1
	03/24/14	< 100	139	322	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/27/14	< 100	115	< 93.9	< 1.00	< 1.00	< 1.00	< 2.00											
	01/21/15	< 100	140	< 93.9	< 1.00	< 1.00	< 1.00	< 2.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	06/29/15	< 100	6,290	808	< 1.00	< 1.00	< 1.00	< 3.00											
	02/04/16	< 17.8	455	< 284	< 0.0320	< 0.0380	< 0.0860	< 0.0160											
	08/02/16	< 17.8	124	< 60.8	< 0.0930	< 0.312	< 0.198	< 0.162											
	02/23/17	< 70.4	42.4 J	< 61.5	< 0.200	< 0.170	< 0.190	< 0.580			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
	08/24/17	< 70.4	< 210	< 127	< 0.0930	< 0.312	< 0.198	< 0.442											
VP-3	02/07/18	< 70.4	< 108	< 118	< 0.200	< 0.170	< 0.190	< 0.580			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
VP-3	04/10/97	821	1,100		26.7	5.5	1.05	10.6											
	07/24/97	1,380	5,040		25	3.58	1.32	8.6											
	11/06/97	1,130	1,760		436	7.89	1.82	11.7											
	01/27/98	1,950	2,230		968	10.3	3.32	17.4											
	04/29/98	3,860	2,100		1,820	74.3	7.51	18.9											
	07/28/98	1,670	4,460		729	< 10	< 10	< 20											
	10/21/98	6,280	9,910		817	46.8	13.8	29.3											
	01/20/99	2,890	1,340		259	31.8	5.82	34.2											
	04/22/99	604	< 250		10.5	1.22	< 0.62	< 3.5											
	07/21/99	568	371		12.5	< 0.5	< 0.56	< 2.76											
	10/26/99	2,970	521		92.9	3.28	2.5	10.3											
	02/23/00	7,950	4,840		1100	32.2	< 25	< 50											
	05/31/00	4,310	3,680		301	8.74	17.3	26.1											
	08/22/00	4,360	887		271	< 5	8.49	11.7											
	11/08/00	8,920	2,820	< 597	1,610	1,040	53.2	222											
	02/14/01	3,640	2,390	< 500	179	24.2	8.55	< 26											
	04/19/01	2,590	5,690	1,040	186	< 2.5	5.76	7.8											
	08/07/01	1,190	8,960	1,640	150	13.4	< 2.5	6.5											
	11/01/01	594	3,010	729	31.6	0.718	< 0.50	1.81											
	03/20/02	4,520	6,790	1,270	233	< 5	16.9	15.2											
	05/14/02	3,220	8,730	2,310	46.2	3.82	6.11	17.3											
	08/22/02	6,700	2,000	< 750	230	3	10	9											
	12/03/02	700	< 250	< 750	35	< 1	< 1	< 1											
	03/06/03	4,200	520	< 500	290	5.2	18	5.5											
	06/12/03	6,300	670	< 500	340	< 1	17	5.2											
	09/16/03	1,700	< 250	< 500	320	190	1.5	29											
	12/17/03	1,000	2,200	< 500	75	12	< 1	20.1											
	03/23/04	2,900 / 2,800	3,100 / 3,700	< 500 / < 500	280 / 280	15 / 14	4.7 / 4.4	15.5 / 17	/	/	/	/	/	/	/	/	/	/	/
	07/07/04	710	3,700	< 500	51	< 1	< 1	< 1											
	09/15/04	830	11,000	< 2,500	160	< 1	< 1	3											
	12/13/04	510	860	< 500	120	< 1	< 1	< 1											
	03/15/05	2,400	1,400	550	250	1.5	10	7.8											
	06/13/05	2,100	1,100	< 500	330	1.5	9.1	4.5											
	09/27/05	1,400	550	< 500	300	2.1	7.4	< 1											
	12/19/05	2,370 / 2,140	3,720 / 4,120	< 485 / < 476	178 / 173	11.1 / 10.4	9.06 / 8.48	8.66 / 8.14	/	/	/	/	/	/	/	/	/	/	/
	03/20/06	2,440	6,360	< 943	160	22.3	2.99	13											
		Sheen present in w																	
	12/08/06																		

		Total Pe	troleum Hydroca	rbons (µg/L)			Primary VOCs (µg/L)	1				Oxy	/genates (µ	ıg/L)		Total Metals (µg/L)		Secondary V	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	TBA	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method 4	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
init of timethod /	03/08/07				-	1	1												
	06/27/07	3,630	795	 < 481	229	1.24	11.4	< 3.00											
	09/26/07	3,980	2,980	1,960	229	0.580	11.4	< 3.00			< 5.00	 < 1.00	< 50.0	 < 1.00	 < 1.00		 < 250		
	12/27/07	1,010	1,030	873	< 0.500	< 0.500	< 0.500	< 3.00		-				< 1.00					
	03/27/08		1,030		< 0.500		< 0.300												
	06/25/08																		
	10/01/08																		
	12/11/08																		
	03/10/09																		
	05/27/09																		
	09/01/09																		
	12/03/09																		
	02/18/10																		
	05/05/10	610	760	< 100	85	< 1.0	< 1.0	< 1.0										2.3	< 0.10
	08/17/10	1,500	1,100	< 100	120	< 1.0	3.9	< 1.0											
	12/16/10	610	590	< 100	42	< 1.0	< 1.0	< 1.0											
	02/25/11	1,440	2,070	918	55.4	< 1.00	1.15	< 3.00			< 1.00	< 1.00	< 20.0	< 1.00	< 1.00				
	08/11/11	2,490	1,410	< 250	129	< 1.00	2.46	< 3.00											
	02/07/12	1,730	2,270	< 243	50.3	< 1.00	2.11	< 3.00			< 1.00	< 1.00	< 10.0	< 1.00	< 1.00				
	07/31/12																		
	08/01/12	1,980	1,980	198	70.2	< 1.00	3.81	< 3.00											
	01/22/13	1,260	1,430	110	26.0	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/07/13																		
	03/24/14	1,300	1,950	166	13.9	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/27/14	1,500	1,670	< 93.9	23.3	< 1.00	1.47	< 2.00											
	01/21/15	908	2,500	112	13.2	< 1.00	< 1.00	< 2.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	06/29/15	868	2,040	111	17.6	< 1.00	1.72	< 3.00											
	02/04/16	318	433	< 284	0.137 J	0.260 J	< 0.0860	< 0.0160											
	08/02/16	453	3,300	154 J	9.57	0.541 J	0.780 J	0.564 J											
	02/23/17	204	192	105 J	< 0.200	< 0.170	< 0.190	< 0.580			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
	08/24/17	335	1,890	173 J	0.607	3.12	< 0.198	< 0.442											
	02/07/18	100 J	156 J	< 121	< 0.200	< 0.170	< 0.190	< 0.580			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
VP-4	12/03/02																		
	03/06/03																		
	06/12/03																		
	09/16/03																		
	12/17/03																		
	03/23/04																		
	07/07/04																		
	09/15/04																		
	12/13/04																		
	03/15/05																		
	06/13/05																		
	09/27/05																		
	12/19/05																		
	03/20/06																		
	05/02/06																		

		Total Pe	troleum Hydroca	rbons (μg/L)			Primary VOCs (μg/L)					Оху	/genates (µ	ıg/L)		Total Metals (µg/L)		Secondary VC	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	TBA	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	12/08/06																		
	03/08/07																		
	06/27/07	< 50.0	< 240	< 481	< 0.500	< 0.500	< 0.500	< 3.00											
	09/26/07																		
	12/27/07																		
	03/27/08	< 50	< 250	< 500	< 1	< 1	< 1	< 1			< 1	< 1	< 5	< 1	< 1				
	06/25/08	< 50	< 250	< 500	<1	<1	<1	< 1			<1								
	10/01/08	< 50	< 250	< 500	<1		<1	< 1	-		<1	-							
	12/11/08	< 50	< 250	< 500	<1	< 1	<1	< 1											
			-					1											
	03/10/09 05/27/09																		
	09/01/09																		
	12/03/09																		
	02/18/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0	< 0.010	< 0.50	< 1.0	< 2.0	< 10	< 2.0	< 2.0			< 0.10	< 0.10
	05/04/10																		
	12/16/10																		
	02/25/11																		
	08/11/11																		
	02/07/12																		
	07/31/12																		
	01/22/13																		
	08/07/13	1,070	2,150	100	38.0	< 1.00	1.17	< 2.00											
	03/24/14																		
	08/27/14																		
	09/02/14	< 100	< 94.3	< 94.3	< 1.00	< 1.00	< 1.00	< 2.00											
	01/21/15																		
	01/22/15	< 100	97.5	< 93.9	< 1.00	< 1.00	< 1.00	< 2.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	06/29/15	< 100	< 93.0	< 93.0	< 1.00	< 1.00	< 1.00	< 3.00											
	02/04/16	< 17.8	< 190	< 285	< 0.0320	< 0.0380	< 0.0860	< 0.0160											
	08/03/16	< 17.8	40.8 J	< 60.9	< 0.0930	< 0.312	< 0.198	< 0.162											
	02/23/17																		
	08/24/17																		
	02/07/18																		
VP-5	04/10/97	1,170	666		1.99	0.569	2.41	2.93											
	07/24/97	174	< 250		7.13	1.85	< 0.5	1											
	11/06/07	111	< 250		88.5	1.63	< 0.5	3.14											
	01/27/98	96.3	< 250		4.81	< 0.5	< 0.5	< 1											
	04/29/98	< 50	< 250		23.5	< 0.5	< 0.5	< 1											
	07/28/98	< 50	< 250		5.17	< 0.5	< 0.5	< 1											
	10/21/98	< 50	2,660		74.7	< 0.5	< 0.5	< 1											
	01/20/99	< 50	2,460		1.99	< 0.5	< 0.5	< 1											
	04/22/99	< 50	755		1.18	< 0.5	< 0.5	< 1											
	07/21/99	< 50	673		4.91	< 0.5	< 0.5	< 1											
	10/26/99	< 50	< 306		1.16	< 0.5	< 0.5	< 1											
	02/23/00	< 50	1,330		1.51	< 0.5	< 0.5	< 1											
	05/31/00	152	3,410		6.86	0.93	< 0.5	2.09											
	08/22/00	< 50	< 250		< 0.5	< 0.5	< 0.5	< 1											

		Total Pe	troleum Hydroca	rbons (µg/L)			Primary VOCs (µg/L)					Оху	/genates (µ	ıg/L)		Total Metals (µg/L)		Secondary V	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	TBA	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	11/08/00	< 50	< 295	< 590	2.06	< 0.5	< 0.5	< 1											
	02/14/01	< 50	< 295 481	< 500	1.34	< 0.5	< 0.5	< 1											
	02/14/01	< 50	1,360	< 500	2.8	< 0.5	< 0.5	< 1											
	04/19/01	< 50	< 250	< 500	< 0.5	< 0.5	< 0.5	< 1											
	11/01/01	< 50	< 250	< 500	< 0.5	1.56	< 0.5	1.79											
	03/20/02	< 50	< 250	< 500	< 0.5	< 0.5	< 0.5	< 1											
	05/14/02	< 50	< 250 1,100	< 500	< 0.5	< 0.5	< 0.5	1.36											
	05/14/02	< 250	< 250	< 750															
					< 1	<1	<1	< 1											
	12/03/02	< 250	< 250	< 750	< 1	< 1	< 1	< 1											
	03/06/03	< 250	< 250	< 500	< 1	<1	< 1	< 1											
	06/11/03	< 250	< 250	< 500	< 1	< 1	< 1	< 1											
	09/16/03	< 250	< 250	< 500	< 1	< 1	< 1	< 1											
	12/17/03	< 250	< 250	< 500	< 1	< 1	< 1	< 1											
	03/23/04	< 250	260	< 500	< 1	< 1	< 1	< 1											
	07/07/04	1,100	1,100	< 500	< 1	< 1	< 1	1.5											
	09/15/04	550 / 530	4,800 / 1,100	< 1,500 / < 500	< 1 / < 1	< 1 / < 1	< 1 / < 1	< 1 / < 1	/	/	/	/	/	/	/	/	/	/	/
	12/13/04	< 250 / < 250	770 / 710	2,400 / 2,100	< 1 / < 1	< 1 / < 1	< 1 / < 1	< 1 / < 1	/	/	/	/	/	/	/	/	/	/	/
	03/15/05	< 250	< 250	< 500	< 1	< 1	< 1	< 1											
	06/13/05	59 / 55	360 / 340	< 500 / < 500	< 1 / < 1	< 1 / < 1	< 1 / < 1	< 1 / < 1	/	/	/	/	/	/	/	/	/	/	/
	09/27/05	< 50	< 250	< 500	< 1	< 1	< 1	< 1											
	12/19/05	< 50.0	< 240	< 481	< 0.500	< 0.500	< 0.500	< 1.00											
	03/20/06	< 50.0	< 236	< 472	< 0.500	< 0.500	< 0.500	< 1.00											
	05/02/06	< 50.0	< 238	< 476	< 0.500	< 0.500	< 0.500	< 1.00											
	12/08/06																		
	03/08/07																		
	06/27/07	50.9	< 240	< 481	< 0.500	< 0.500	< 0.500	< 3.00											
	09/26/07	< 50.0	< 238	< 476	1.81	< 0.500	< 0.500	< 3.00			< 5.00	< 1.00	< 50.0	< 1.00	< 1.00		< 250		
	12/27/07	< 50.0	< 236	< 472	78.4	36.0	2.21	9.49											
	03/27/08																		
	06/25/08																		
	10/01/08																		
	12/11/08																		
	03/10/09																		
	05/27/09																		
	09/01/09																		
	12/03/09																		
	02/18/10																		
	05/04/10																		
	12/16/10																		
	02/25/11																		
	08/11/11																		
	02/07/12																		
	07/31/12																		
	01/22/13																		
	08/07/13	< 100	915	509	< 1.00	< 1.00	< 1.00	< 2.00											
	03/24/14																		
	03/25/14	< 100	695	< 93.9	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				

		Total Pe	troleum Hydroca	ırbons (μg/L)	Primary VOCs (µg/L)							Oxygenates (µg/L)						Secondary VOCs (µg/L)		
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	ТВА	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs	
MTCA Method A Cleanup Levels		800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1	
INT CA Method	-				-															
	08/27/14	< 100	< 93.9	< 93.9	< 1.00	< 1.00	< 1.00	< 2.00												
	01/21/15																			
	01/22/15	< 100	< 93.9	< 93.9	< 1.00	6.34	1.17	5.01			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00					
	06/29/15	< 100	< 93.0	< 93.0	< 1.00	< 1.00	< 1.00	< 3.00												
	02/04/16	< 17.8	< 189	< 284	< 0.0320	< 0.0380	< 0.0860	< 0.0160												
	08/03/16	< 17.8	51.1 J	< 62.2	< 0.0930	< 0.312	0.398 J	< 0.162												
	02/23/17																			
	08/24/17																			
	02/07/18																			
VP-6	04/10/97																			
	07/24/97																			
	01/27/98																			
	04/29/98																			
	07/28/98																			
	10/21/98																			
	01/20/99																			
	04/22/99																			
	07/21/99																			
	10/26/99																			
	02/23/00																			
	05/31/00																			
	08/22/00																			
	11/08/00																			
	02/14/01																			
	04/19/01																			
	08/07/01																			
	11/01/01																			
	03/20/02	16,900	3,290	< 500	39.9	379	43	2,670												
	05/14/02																			
l	08/22/02																			
	12/03/02																			
	03/06/03																			
	06/12/03																			
	09/16/03																			
	12/17/03																			
	03/23/04																			
	03/23/04									-		-		-						
	09/15/04																			
	12/13/04																			
	03/15/05																			
	06/13/05																			
	09/27/05																			
	12/19/05																			
	03/20/06																			
	05/02/06																			
	12/08/06																			
	03/08/07																			

		Total Pe	troleum Hydroca	rbons (μg/L)	Primary VOCs (µg/L)							Oxy	/genates (µ	ıg/L)	-	Total Metals (µg/L)		Secondary VOCs (µg/L)		
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	ТВА	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs	
MTCA Method 4	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1	
INT OA WELLIOU /	06/27/07	<u>994</u>	< 240	< 481	3.71			40.8												
	09/26/07					0.770	7.27													
	12/27/07 03/27/08	< 50	 < 250	< 500	< 1		< 1						 < 5	< 1	< 1					
	06/25/08	4,200	< 250	< 500	< 1	< 1	69	< 1 450			< 1	< 1	< 5		< 1					
	10/01/08	4,200	< 250	< 500	1.8	4.4	75	280			< 1 < 1									
	12/11/08	6,400	< 250 510	< 500	1.0	9.7	370	1,580												
	03/10/09	< 100	< 100				< 1.0	< 1.0												
	05/27/09	< 100	< 100	< 100	< 0.50	< 1.0 < 1.0	< 1.0	< 1.0			< 1.0	< 2.0	< 10	< 2.0	< 2.0					
				< 100	< 0.50															
	09/01/09	5,100	970	< 100	1.5	5.5	180	630												
	12/03/09	< 100	< 100	190	< 0.50	< 1.0	< 1.0	< 1.0	< 0.010	< 0.50										
	02/25/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0	< 0.010	< 0.50	< 1.0	< 2.0	< 10	< 2.0	< 2.0			< 0.10	< 0.10	
	05/04/10	< 100	< 100	< 100	< 0.50	< 1.0	6.0	7.5										< 0.10	< 0.10	
	08/17/10	5,800	3,600	< 100	1.1	3.8	330	950												
	12/16/10	< 100	< 100	< 100	< 0.50	< 1.0	< 1.0	< 1.0												
	02/25/11	< 100	< 97.1	110	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 20.0	< 1.00	< 1.00					
	08/11/11	4,200	1,060	< 240	< 1.00	2.14	96.8	239												
	02/07/12	< 100	143	< 243	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 1.00	< 1.00					
	07/31/12																			
	08/01/12	660	676	< 94.3	< 1.00	< 1.00	32.9	125												
	01/22/13	< 100	< 95.2	< 95.2	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00					
	08/07/13	4,580	1,280	< 100	< 1.00	1.58	95.6	303												
	03/24/14	< 100	< 93.9	< 93.9	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00					
	08/27/14	173	155	< 93.9	< 1.00	< 1.00	< 1.00	< 2.00												
	01/21/15																			
	01/22/15	< 100	< 93.9	< 93.9	< 1.00	< 1.00	1.05	< 2.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00					
	06/29/15	242	179	< 93.5	< 1.00	< 1.00	< 1.00	< 3.00												
	02/04/16	< 17.8	< 190	< 285	< 0.0320	< 0.0380	< 0.0860	< 0.0160												
	08/02/16	197	209	< 60.7	0.289	< 0.312	1.78	2.17 J												
	02/23/17																			
	08/24/17																			
	02/07/18																			
VP-7	04/10/97	3,240,000	15,800		20,600	41,700	6,700	44,300												
	07/24/97																			
	01/27/98																			
	04/29/98																			
	07/28/98																			
	10/21/98																			
	01/20/99	67,600	26,900		2,590	3,680	894	8,830												
	04/22/99	83,100	15,900		9,260	8,550	303	8,380												
	07/21/99	704,000	94,700		557	< 420	1,470	11,100												
	10/26/99	38,400	14,300		3,300	1,480	79	4,550												
	02/23/00	30,900	68,200		6,070	2,530	127	2,350												
	05/31/00	56,200	4,460		9,630	5,970	294	5,740												
	08/22/00	22,800	24,600		1,460	984	103	1,740												
	11/08/00	74,800	27,700	< 7,680	11,800	10,100	495	10,600												
	02/14/01	19,500	16,100	< 2,500	1,310	1,470	93	3,000												

	Total Petroleum Hydrocarbons (μg/L)		Primary VOCs (µg/L)					Oxygenates (µg/L) Total Metals (µg/L)					Total Metals (µg/L)	Secondary VOCs (µg/L)					
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	ТВА	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	04/19/01	40,200	10,900	< 5,500	6,140	4,780	140	6,250											
	08/07/01	61,900	41,000	25,700	11,200	7,790	264	7,690											
	11/01/01	74,200	NA	NA	623	169	173	1,200											
	03/20/02	14,900	44,400	< 5,000	1,840	1,270	85	1,210											
	05/14/02	46,200	58,600	4,040	2,270	1,840	171	2,080											
	08/22/02	67,000	8,800	< 3,800	1,100	12,000	590	5,800											
	12/03/02	28,000	520	< 750	1,900	1,800	60	2,150											
	03/06/03	2,600	< 250	< 500	750	180	41	310											
	06/11/03	1,500	300	< 500	1,500	110	23	141											
	09/16/03	590	560	< 500	650	14	7.6	50											
	12/17/03	2,800	4,900	< 500	5,800	5,600	220	3,100											
	03/23/04																		
	07/07/04	120,000 / 130,000	16,000 / 8,300	< 2,500 / < 2,500	19,000 / 19,000	18,000 / 17,000	1,200 / 1,100	11,200 / 11,200	/	/	/	/	/	/	/	/	/	/	/
	09/15/04	66,000	16,000	< 2,500	11,000	4,100	470	8,300											
	12/13/04	26,000	6,000	< 10,000	2,700	2,500	160	3,500											
	03/15/05																		
	06/13/05																		
	09/27/05	32,000	4.000	< 1,000	6,500	1,600	410	5,300											
		Sheen present in w	,																
		Sheen present in w																	
		Sheen present in w	•																
	12/08/06	39,500	7,600	935	2,980	3,070	650	5,400											
	03/08/07	29,500	1,170	< 500	1,790	1,270	325	2,800											
	06/27/07	87,800	4,850	498	9,300	8,430	1,210	10,200											
	09/26/07	58,000	5,600	1,780	6,640	464	1,160	10,300			< 5.00	< 1.00	< 50.0	< 1.00	< 1.00		< 250		
	12/27/07	10,900	1,200	< 472	< 0.500	< 0.500	< 0.500	< 3.00			< <u>5.00</u>	< 1.00 	< 50.0	< 1.00 	< 1.00 		~ 200		
	03/27/08				< 0.300			< 3.00											
	06/25/08																		
	10/01/08																		
	12/11/08																		
	03/10/09																		
	05/27/09																		
	09/01/09																		
	12/03/09																		
	02/18/10	2,500	1,100	< 100	60	90	32	380	< 0.010	< 0.50	< 1.0	< 2.0	< 10	< 2.0	< 2.0			15.3	< 0.50
	05/05/10	2,500	1,200	< 100	370	49	62	460										18.7	< 0.50
	08/17/10	18,000	6,100	< 100	2,900	1,600	490	4,400											
	12/16/10	1,900	600	< 100	250	27	29	230											
	02/25/11	5,370	8,330	3,670	451	58.2	93.5	245			< 1.00	< 1.00	< 20.0	< 1.00	< 1.00				
	08/11/11	33,300	2,130	271	4,520	1,680	541	2,800											
	02/07/12	1,550	2,950	< 240	29.0	14.2	6.42	88.5			< 1.00	< 1.00	11.0	< 1.00	< 1.00				
	07/31/12																		
	08/01/12	8,820	2,550	< 94.3	873	547	125	1,270											
	01/22/13	3,440	1,210	< 95.2	283	40.0	61.3	256			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/07/13	14,200	8,950	4,670	1,570	466	154	1,060											
	03/24/14	2,470	1,610	1,890	98.3	9.80	35.6	122			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/27/14	8,510	2,890	< 93.9	1,810	1,020	138	941											

		Total Pe	troleum Hydroca	rbons (μg/L)		I	Primary VOCs (µg/L)					Oxy	/genates (µ	g/L)		Total Metals (µg/L)		Secondary V	OCs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	ТВА	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	01/21/15				-					-									
	01/22/15	 1,630	 1,480	 < 93.9	 64.3	51.1	47.5	 146			< 1.00	< 1.00	 < 10.0	< 2.00	< 1.00				
	06/29/15	11,600	2,530	< 93.5	1,820	568	339	2,180			< 1.00 			< 2.00					
	02/04/16	565	420	335 J	84.4	18.3	18.6	21.1											
	08/03/16	8,350 J	2,620	271	1,990	341	408	1,460											
		197	380																
	02/23/17 08/24/17		2,320	375 580	32.2 1,840	3.58 385	12.2 677	10.7 1,600			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
	02/07/18	12,100 488	2,320 223 J	< 121	41.0	4.04	31.1	16.0			 < 0.170	 < 0.170	 < 3.90	< 0.170	< 0.210				
VP-8	02/07/18	284	1,800	< 121	< 0.5	<u> </u>	< 0.5	16.0			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
VF-0	07/24/97	977	3,720		< 0.5 8.63	8.5	2.3	1.4											
	11/06/97	1,730	8,110		5.48	4.6	2.3	16											
	01/27/98	1,730	2,920		5.28	0.68	1.8	8.4											
	04/29/98	2,060	2,920		< 0.5	< 0.5	< 0.5	< 1.0											
	07/28/98	2,000	NA		< 0.5	< 0.5	< 0.5	< 1.0											
	10/21/98	2,610	7,430		9.64	1.3	< 0.5	< 1.0											
	01/20/99	< 50	1,530		< 0.5	< 0.5	< 0.5	< 1.0											
	04/22/99	600	1,250		1.1	< 0.5	< 0.9	< 2.90											
	07/21/99	103	1,410		< 0.5	< 0.5	< 0.5	< 1.0											
	10/26/99	360	1,650		< 0.5	< 0.5	< 0.5	< 1.54											
	02/23/00	788	2,350		0.695	< 0.5	< 0.5	< 3.20											
	05/31/00	159	2,650		2.73	1.2	< 0.5	2.5											
	08/22/00	393	4,640		< 0.64	< 0.5	< 0.5	< 2.16											
	11/08/00	254	3,550	< 5,500	9.23	0.9	< 0.5	1.6											
	02/14/01	180	3,070	< 2,500	1	< 0.5	< 0.5	< 1.05											
	04/19/01	60	18,600	< 5,500	0.681	< 0.5	< 0.5	< 1.00											
	08/07/01	317	2,570	3,320	2.25	< 0.5	< 0.5	1.1											
	11/01/01	619	NA	NA	< 1.25	< 1.25	< 1.25	3.9											
	03/20/02	574	5,000	8,280	1.13	< 0.5	< 0.5	2.4											
	05/14/02	981	4,390	7,740	3.37	3.7	1.5	10											
	08/22/02	2,000	2,300	< 3,800	< 1	< 1	<1	6.0											
	12/03/02	< 250	< 250	< 750	< 1	< 1	< 1	< 1											
	03/06/03	< 250	< 250	< 500	< 1	< 1	< 1	< 1											
	06/11/03	< 250	< 250	< 500	< 1	< 1	< 1	< 1											
	09/16/03	< 250	260	< 500	< 1	< 1	< 1	< 1											
	12/17/03	< 250	1,400	< 500	1.9	< 1	< 1	3.1											
	03/23/04	< 250	1,400	910	< 1	< 1	< 1	1.7											
	07/07/04	250	2,500	< 500	6.9	< 1	< 1	2.9											
	09/15/04	410	2,000	< 500	9.1	< 1	< 1	2.6											
	12/13/04	< 250	1,200	710	4	< 1	< 1	< 1											
	03/15/05	< 250	< 750	< 1,500	2.6	< 1	< 1	< 1											
	06/13/05																		
	09/27/05	590	880	< 500	11	2	2.1	4.2											
	12/19/05	91.2	312	< 490	2.85	< 0.500	< 0.500	< 1.00											
	03/20/06	< 50.0	855	720	< 0.500	< 0.500	< 0.500	< 1.00											
	05/02/06	< 50.0	1,040	924	< 0.500	< 0.500	< 0.500	< 1.00											
	12/08/06	< 50.0	< 248	< 495	< 0.500	< 0.500	< 0.500	< 3.00											
	03/08/07	< 50.0	< 245	< 490	< 0.500	< 0.500	< 0.500	< 3.00											

		Total Pe	troleum Hydroca	rbons (µg/L)			Primary VOCs (µg/L)	1				Оху	genates (µ	ıg/L)		Total Metals (µg/L)		Secondary VC	⊃Cs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	ТВА	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
	06/27/07	98.9	< 240	< 481	< 0.500	< 0.500	< 0.500	< 3.00											
	09/26/07	222	412	580	7.15	0.660	0.550	< 3.00			< 5.00	< 1.00	< 50.0	< 1.00	< 1.00		< 250		
	12/27/07	< 50.0	< 238	< 476	355	171	79.8	909											
	03/27/08																		
	06/25/08																		
	10/01/08																		
	12/11/08																		
	03/10/09																		
	05/27/09																		
		Possible obstrucior	n in well																
	12/03/09																		
	02/18/10																		
	05/04/10																		
	12/16/10																		
	02/25/11																		
	08/11/11																		
	02/07/12																		
	07/31/12																		
	01/22/13																		
	08/07/13	114	4,180	4,970	< 1.00	< 1.00	< 1.00	< 2.00											
	03/24/14																		
	03/25/14	< 100	742	365	< 1.00	< 1.00	< 1.00	< 3.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	08/27/14	< 100	1,040	146	< 1.00	< 1.00	< 1.00	< 2.00											
	01/21/15																		
	01/22/15	< 100	805	407	< 1.00	< 1.00	< 1.00	< 2.00			< 1.00	< 1.00	< 10.0	< 2.00	< 1.00				
	06/29/15	< 100	1,200	211	< 1.00	< 1.00	< 1.00	< 3.00											
	02/04/16	< 17.8	263	< 284	< 0.0320	< 0.0380	< 0.0860	< 0.0160											
	08/03/16	36.5 J	1,820	185 J	0.546	< 0.312	0.427 J	1.14 J											
	02/23/17	< 70.4	328	147 J	< 0.200	0.188 J	< 0.190	< 0.580			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
	08/24/17	98.5 J	3,120	243 J	< 0.0930	< 0.312	0.240 J	0.715 J											

	[Total Pe	troleum Hydroca	rbons (μg/L)			Primary VOCs (µg/L)					Оху	genates (µ	ıg/L)		Total Metals (µg/L)		Secondary VC	Cs (µg/L)
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	MTBE	TAME	TBA	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1
WITCA Method /	-				-														
VP-9	02/07/18 12/03/02	< 70.4	888	189 J	< 0.200	< 0.170	< 0.190	< 0.580			< 0.170	< 0.170	< 3.90	< 0.170	< 0.210				
VP-9																			
	03/06/03 06/12/03																		
	09/16/03	< 250	 < 250	< 500	 < 1	< 1	 < 1	 < 1											
	12/1703	< 250	< 250	< 500	< 1	< 1	<1	< 1											
	03/23/04		< 230 																
	07/07/04																		
	09/15/04																		
	12/13/04																		
	03/15/05																		
	06/13/05																		
	09/27/05																		
	12/19/05																		
	03/20/06																		
	05/02/06																		
	12/08/06																		
	03/08/07																		
	06/27/07	< 50.0	< 240	< 481	< 0.500	< 0.500	< 0.500	< 3.00											
	09/26/07																		
	12/27/07																		
	03/27/08																		
	06/25/08																		
	10/01/08																		
	12/11/08																		
	03/10/09																		
	05/27/09																		
	09/01/09																		
	12/03/09																		
	02/18/10																		
	05/04/10																		
	12/16/10																		
	02/25/11																		
	08/11/11																		
	02/07/12																		
	07/31/12																		
	01/22/13																		
	08/07/13																		
	03/24/14																		
	08/27/14																		
	01/21/15																		
	06/29/15																		
	02/04/16																		
	08/02/16																		
	02/23/17																		
	08/24/17																		
	02/07/18																		

Summary of Groundwater Monitoring Analytical Data Shell-Branded Service Station 210 NE 45th Street Seattle, Washington

	Total Petroleum Hydrocarbons (µg/L)		Primary VOCs (µg/L)				Oxygenates (µg/L)					Total Metals (µg/L)		Secondary VOCs (µg/L)					
Well ID	Date	Gasoline Range	Diesel Range	Motor Oil Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	МТВЕ	TAME	ТВА	DIPE	ETBE	Lead	Ethanol	Naphthalenes	cPAHs
MTCA Method	A Cleanup Levels	800/1000 ¹	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15	NE	160	0.1

Notes:

Model Toxics Control Act (MTCA) Cleanup Regulation, WAC 173-340. MTCA values are from Ecology website CLARC tables dated August 2015. (https://fortress.wa.gov/ecy/clarc/CLARCDataTables.aspx). Cleanup levels are used as screening levels. Values in **bold** font indicate that the result reported meets or exceeds the MTCA Method A cleanup level.

Values underlined indicate that the laboratory reporting limit or, after October 2015, the laboratory method detection limit, exceeds MTCA Method A cleanup level.

Duplicate samples are identified in the same row separated by a slash.

Additional laboratory qualifiers may be found in reports from the laboratory.

--- - 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]".</p>

b - Sample container contained headspace.

J - estimated value

cPAH-carcinogenic Polycyclic Aromatic Hydrocarbons

DIPE - di-isopropyl ether	NE - not established
EDB - 1,2-dibromoethane	TAME - tertiary-amyl methyl ether
EDC - 1,2-dichloroethane	TBA - tertiary-butanol
ETBE - ethyl tertiary-butyl ether	µg/L - micrograms per liter
MTBE - methyl tertiary-butyl ether	VOCs - volatile organic compounds

ND - non-detect

¹ - The cleanup level is 1000 ug/L if benzene is not present and 800 ug/L if benzene is present.

Data obtained from previous consultants (i.e., pre-Oct 2015) has not been independently reviewed or verified by AECOM, unless otherwise stated.

Well ID TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
()		(3)	· · · · · · · · · · · · · · · · · · ·
MW-1	04/10/97	5.65	88.15
93.80	11/08/00	8.99	84.81
97.77	02/14/01	8.89	88.88
01111	04/19/01	8.24	89.53
	08/07/01	9.26	88.51
	11/01/01	9.74	88.03
	03/20/02	7.33	90.44
	05/14/02	7.46	90.31
	08/22/02	8.45	89.32
	12/03/02	9.70	88.07
	03/06/03	8.55	89.22
	06/12/03	8.87	88.90
	09/16/03	9.76	88.01
	12/17/03	7.52	90.25
	03/23/04	6.38	91.39
	07/07/04	7.88	89.89
	09/15/04	8.64	89.13
	12/13/04	8.15	89.62
	03/15/05	7.67	90.10
	06/13/05	7.68	90.09
	09/27/05	8.90	88.87
	12/19/05	8.29	89.48
	03/20/06	5.93	91.84
	05/02/06	6.72	91.05
	12/08/06	6.15	91.62
	03/08/07	7.71	90.06
	06/27/07	7.48	90.29
L	09/26/07	8.83	88.94
	12/27/07	6.49	91.28
	03/27/08	6.72	91.05
	06/25/08	7.40	90.37
	10/01/08		
	12/11/08	7.81	89.96
	03/10/09	6.81	90.96
	05/27/09	6.57	91.20
	09/01/09	8.47	89.30
	12/03/09	6.61	91.16

Well ID			
TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
	02/18/10	6.52	91.25
	05/04/10	7.19	90.58
	08/17/10	7.70	90.07
	12/16/10	6.10	91.67
	02/25/11	5.67	92.10
	08/11/11	7.72	90.05
	02/07/12	6.89	90.88
	07/31/12	7.62	90.15
	01/22/13	5.17	92.60
	08/07/13	8.00	89.77
	03/24/14	5.14	92.63
	08/27/14	8.32	89.45
238.63	01/21/15	6.31	232.32
	06/29/15	7.82	230.81
	02/04/16	4.42	234.21
	08/02/16	8.20	230.43
	02/23/17	4.21	234.42
	08/24/17	8.20	230.43
	02/07/18	5.03	233.60
MW-2	04/10/97	11.51	80.65
92.16	07/24/97	7.38	84.78
96.51	01/27/98	5.84	90.67
	04/29/98	8.53	87.98
	07/28/98	18.10	78.41
	10/21/98	9.36	87.15
	01/20/99	17.00	79.51
	04/22/99	12.50	84.01
	07/21/99	13.37	83.14
	10/26/99	10.35	86.16
	02/23/00	8.22	88.29
	05/31/00	8.15	88.36
	08/22/00	17.71	78.80
	11/08/00	9.00	87.51
96.67	02/14/01	8.80	87.87
	04/19/01	8.14	88.53
	08/07/01	9.24	87.43
	11/01/01	9.85	86.82
	03/20/02	12.62	84.05

Well ID TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
(1001)	Duic	(ICCL DG3)	
	05/14/02	13.87	82.80
	08/22/02	8.62	88.05
	12/03/02	17.60	79.07
	03/06/03	17.10	79.57
	06/11/03	17.50	79.17
	09/16/03	15.25	81.42
	12/17/03	7.45	89.22
	03/23/04	6.70	89.97
	07/07/04	8.12	88.55
	09/15/04	8.73	87.94
	12/13/04	7.94	88.73
	03/15/05	7.75	88.92
	06/13/05	7.88	88.79
	09/27/05	9.15	87.52
	12/19/05	8.36	88.31
	03/20/06	6.20	90.47
	05/02/06	6.90	89.77
MW-2	12/08/06	7.22	89.45
	03/08/07	7.78	88.89
	06/27/07	7.53	89.14
	09/26/07	10.20	86.47
	12/27/07	6.66	90.01
	03/27/08	6.88	89.79
	06/25/08	9.49	87.18
	10/01/08	10.43	86.24
	12/11/08	9.58	87.09
	03/10/09	9.02	87.65
	05/27/09	6.82	89.85
	09/01/09	8.67	88.00
	12/03/09	6.90	89.77
	02/18/10	5.80	90.87
	05/04/10	6.66	90.01
	08/17/10	7.90	88.77
	12/16/10	5.79	90.88
	02/25/11	6.09	90.58
	08/11/11	7.96	88.71

Well ID TOC		DTW	OWE
(feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
	02/07/12	6.92	89.75
	07/31/12	7.72	88.95
	08/01/12		
	01/22/13	5.52	91.15
	08/07/13	8.20	88.47
	03/24/14	6.84	89.83
	08/27/14	8.58	88.09
237.51	01/21/15	6.45	231.06
	06/29/15	8.19	229.32
	02/04/16	5.41	232.10
	08/02/16	8.40	229.11
	02/23/17	4.90	232.61
	08/24/17	8.49	229.02
	02/07/18	5.42	232.09
MW-3	04/10/97	7.83	85.60
93.43	07/24/97	9.51	83.92
	11/06/97		
97.23	01/27/98	7.71	89.52
	04/29/98	9.70	87.53
	07/28/98	11.67	85.56
	10/21/98	11.18	86.05
	01/20/99	9.58	87.65
	04/22/99	8.54	88.69
	07/21/99	10.32	86.91
	10/26/99	12.13	85.10
	02/23/00	9.84	87.39
	05/31/00	9.63	87.60
	08/22/00	11.34	85.89
	11/08/00	10.85	86.38
97.39	02/14/01	10.55	86.84
	04/19/01	9.96	87.43
	08/07/01	11.36	86.03
	11/01/01	11.90	85.49
	03/20/02	9.64	87.75
L	05/14/02	9.51	87.88
L	08/22/02	10.39	87.00
	12/03/02	11.75	85.64
	03/06/03	10.67	86.72

Well ID TOC		DTW	GWE
(feet) ¹	Date	(feet bgs)	(feet NAVD 88)
	06/12/03	12.29	85.10
	09/16/03	12.27	85.12
	12/17/03	9.62	87.77
	03/23/04	8.32	89.07
	07/07/04	9.88	87.51
	09/15/04	10.58	86.81
	12/13/04	10.12	87.27
	03/15/05	9.44	87.95
	06/13/05	9.61	87.78
	09/27/05	10.86	86.53
	12/19/05	10.23	87.16
	03/20/06	7.63	89.76
	05/02/06	8.50	88.89
	12/08/06	7.80	89.59
	03/08/07	9.40	87.99
	06/27/07	9.34	88.05
	09/26/07	10.72	86.67
	12/27/07	8.25	89.14
	03/27/08	8.33	89.06
	06/25/08	9.28	88.11
	10/01/08	10.49	86.90
	12/11/08	9.57	87.82
	03/10/09	8.33	89.06
	05/27/09	8.49	88.90
	09/01/09	10.44	86.95
	12/03/09	8.62	88.77
	02/18/10	7.13	90.26
	05/05/10	8.23	89.16
	08/17/10	9.69	87.70
	12/16/10	7.44	89.95
	02/25/11	7.61	89.78
	08/11/11	9.70	87.69
	02/07/12	8.71	88.68
	07/31/12	9.46	87.93
	01/22/13	7.10	90.29
	08/07/13	10.00	87.39
	03/24/14	7.04	90.35
	08/27/14	10.31	87.08

Well ID TOC		DTW	GWE
(feet) ¹	Date	(feet bgs)	(feet NAVD 88)
238.26	01/21/15	7.99	230.27
	06/29/15	9.90	228.36
	02/04/16	6.21	232.05
	08/02/16	10.35	227.91
	02/23/17	5.02	233.24
	08/24/17	10.35	227.91
	02/07/18	5.94	232.32
MW-4	04/10/97	6.58	86.92
93.50	07/24/97	9.50	84.00
97.31	01/27/98	7.61	89.70
	04/29/98	9.46	87.85
	07/28/98	11.66	85.65
	10/21/98	12.01	85.30
	01/20/99	9.69	87.62
	04/22/99	7.92	89.39
	07/21/99	10.33	86.98
	10/26/99	12.96	84.35
	02/23/00	10.02	87.29
	05/31/00	10.16	87.15
	08/22/00	11.47	85.84
	11/08/00	11.41	85.90
97.47	02/14/01	11.19	86.28
	04/19/01	10.60	86.87
	08/07/01	11.89	85.58
	11/01/01	12.66	84.81
	03/20/02	8.80	88.67
	05/14/02	9.03	88.44
	08/22/02	6.29	91.18
	12/03/02	11.75	85.72
	03/06/03	10.95	86.52
	06/12/03	13.06	84.41
	09/16/03	12.82	84.65
	12/17/03	10.50	86.97
	03/23/04	8.20	89.27
	07/07/04	10.36	87.11
	09/15/04	11.38	86.09
	12/13/04	11.12	86.35
	03/15/05	9.94	87.53

Well ID TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
	06/13/05	10.07	87.40
	09/27/05	11.55	85.92
	12/19/05	11.12	86.35
	03/20/06	7.08	90.39
	05/02/06	8.37	89.10
	12/08/06	6.88	90.59
	03/08/07	10.10	87.37
	06/27/07	9.58	87.89
	09/26/07	11.34	86.13
	12/27/07	8.31	89.16
	03/27/08	7.92	89.55
	06/25/08	9.56	87.91
	10/01/08	10.50	86.97
	12/11/08	9.66	87.81
	03/10/09	7.40	90.07
	05/27/09	8.78	88.69
	09/01/09	11.19	86.28
	12/03/09	8.80	88.67
	02/18/10	7.26	90.21
	05/05/10	8.33	89.14
	08/17/10	10.38	87.09
	12/16/10	7.92	89.55
	02/25/11	7.35	90.12
	08/11/11	10.30	87.17
	02/07/12	9.51	87.96
	07/31/12	10.06	87.41
	01/22/13	6.67	90.80
	08/07/13	10.60	86.87
	03/24/14	7.04	90.43
	08/27/14	11.19	86.28
238.33	01/21/15	8.70	229.63
	06/29/15	10.61	227.72
	02/04/16	7.88	230.45
	08/02/16	10.83	227.50
	02/23/17	5.48	232.85
	08/24/17	10.79	227.54
	02/07/18	6.75	231.58

Well ID TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
MW-5	04/10/97	8.14	83.02
91.16	07/24/97	9.84	81.32
94.97	01/27/98	8.56	86.41
	04/29/98	10.40	84.57
	07/28/98	11.97	83.00
	10/21/98	11.78	83.19
	01/20/99	9.14	85.83
	04/22/99	9.71	85.26
	07/21/99	11.42	83.55
	10/26/99	12.65	82.32
	02/23/00	10.30	84.67
	05/31/00	10.53	84.44
	08/22/00	11.75	83.22
	11/08/00	11.11	83.86
95.11	02/14/01	10.77	84.34
	04/19/01	10.34	84.77
	08/07/01	11.94	83.17
	11/01/01	12.46	82.65
	03/20/02	9.92	85.19
	05/14/02	9.63	85.48
	08/22/02	10.81	84.30
	12/03/02	12.11	83.00
	03/06/03	11.16	83.95
	06/12/03	12.72	82.39
L	09/16/03	12.70	82.41
	12/17/03	10.31	84.80
L	03/23/04	9.00	86.11
	07/07/04	10.49	84.62
	09/15/04	11.22	83.89
L	12/13/04	10.80	84.31
	03/15/05	10.09	85.02
	06/13/05	10.12	84.99
	09/27/05	11.34	83.77
	12/19/05	10.81	84.30
	03/20/06	8.25	86.86
	05/02/06	9.00	86.11
	12/08/06	7.80	87.31

Well ID TOC		DTW	GWE
(feet) ¹	Date	(feet bgs)	(feet NAVD 88)
	03/08/07	10.22	84.89
	06/27/07	9.77	85.34
	09/26/07	11.14	83.97
	12/27/07	8.89	86.22
	03/27/08	8.87	86.24
	06/25/08	12.58	82.53
	10/01/08	13.69	81.42
	12/11/08	9.87	85.24
	03/10/09	8.92	86.19
	05/27/09	9.10	86.01
	09/01/09	10.99	84.12
	12/03/09	9.24	85.87
	02/18/10	8.26	86.85
	05/05/10	9.00	86.11
	08/17/10	10.42	84.69
	12/16/10	8.61	86.50
	02/25/11	8.51	86.60
	08/11/11	10.44	84.67
	02/07/12	9.53	85.58
	07/31/12	10.16	84.95
	01/22/13	7.88	87.23
	08/07/13	10.50	84.61
	03/24/14	8.08	87.03
	08/27/14	10.82	84.29
235.98	01/21/15	8.97	227.01
	06/29/15	10.59	225.39
	02/04/16	7.51	228.47
	08/02/16	10.78	225.20
	02/23/17	7.15	228.83
	08/24/17	10.73	225.25
	02/07/18	8.12	227.86

Well ID TOC		DTW	GWE
(feet) ¹	Date	(feet bgs)	(feet NAVD 88)
MW-6	04/10/97	10.85	80.70
91.55	07/24/97	12.93	78.62
	11/06/97		
95.36	01/27/98	11.48	83.88
	04/29/98	12.91	82.45
	07/28/98	15.59	79.77
	10/21/98	15.78	79.58
	01/20/99	12.10	83.26
	04/22/99	12.90	82.46
	07/21/99	15.36	80.00
	10/26/99	16.45	78.91
	02/23/00	13.06	82.30
	05/31/00	13.88	81.48
	08/22/00	15.06	80.30
	11/08/00	15.40	79.96
94.51	02/14/01	14.22	80.29
	04/19/01	13.60	80.91
	08/07/01	15.02	79.49
	11/01/01	15.77	78.74
	03/20/02	12.34	82.17
	05/14/02	13.05	81.46
	08/22/02	14.51	80.00
	12/03/02	16.13	78.38
	03/06/03	13.68	80.83
	06/12/03	15.60	78.91
	09/16/03	16.08	78.43
	12/17/03	13.30	81.21
	03/23/04	11.79	82.72
	07/07/04	14.00	80.51
	09/15/04	14.81	79.70
	12/13/04	14.35	80.16
	03/15/05	13.11	81.40
	06/13/05	13.09	81.42
	09/27/05	14.89	79.62
	12/19/05	14.09	80.42
	03/20/06	10.93	83.58
	05/02/06	11.96	82.55
	12/08/06	11.37	83.14

	DTW	GWE
Date	(feet bgs)	(feet NAVD 88)
	((******************
03/08/07	13 25	81.26
		81.85
		80.13
		82.98
		81.78
	-	81.99
		80.88
		81.22
		82.15
		82.71
		80.12
		82.29
		83.57
		82.63
		80.93
		82.70
		83.50
08/11/11	13.51	81.00
02/07/12	12.03	82.48
07/31/12	12.92	81.59
08/01/12		
01/22/13	10.20	84.31
08/07/13	13.60	80.91
03/24/14	10.07	84.44
08/27/14	14.04	80.47
01/21/15	11.65	224.72
06/29/15	13.71	222.66
02/04/16	9.92	226.45
08/09/16	14.20	222.17
02/23/17	9.65	226.72
08/24/17	14.19	222.18
02/07/18	10.49	225.88
	03/08/07 06/27/07 12/27/07 03/27/08 06/25/08 10/01/08 12/11/08 03/10/09 05/27/09 09/01/09 02/18/10 05/05/10 02/18/10 02/25/11 08/11/11 02/07/12 07/31/12 08/01/12 01/22/13 08/07/13 03/24/14 01/21/15 06/29/15 02/04/16 08/07/16 02/23/17 08/07/13	03/08/07 13.25 06/27/07 12.66 09/26/07 14.38 12/27/07 11.53 03/27/08 12.73 06/25/08 12.52 10/01/08 13.63 12/11/08 13.29 03/10/09 12.36 05/27/09 11.80 09/01/09 14.39 12/03/09 12.22 02/18/10 10.94 05/05/10 11.88 08/17/10 13.58 12/16/10 11.81 02/25/11 11.01 08/11/11 13.51 02/07/12 12.03 07/31/12 12.92 08/01/12 01/22/13 10.20 08/07/13 13.60 03/24/14 10.07 08/07/13 13.60 03/24/14 10.07 08/27/14 14.04 01/21/15 11.65 06/29/15 13.71 02/04/16 9.92 <tr< td=""></tr<>

Well ID TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
()		()	, , , , , , , , , , , , , , , , , , ,
MW-7	04/10/97	7.32	85.41
92.73	07/24/97	9.55	83.18
02.10	11/06/97		
96.23	01/27/98	7.83	88.40
00.20	04/29/98	9.63	86.60
	07/28/98	11.01	85.22
	10/21/98	11.58	84.65
	01/20/99	9.55	86.68
	04/22/99	8.27	87.96
	07/21/99	10.22	86.01
	10/26/99	12.41	83.82
	02/23/00	9.87	86.36
	05/31/00	10.26	85.97
	08/22/00	10.96	85.27
	11/08/00	11.18	85.05
96.67	02/14/01	10.54	86.13
	04/19/01	10.11	86.56
	08/07/01	11.23	85.44
	11/01/01	11.76	84.91
	03/20/02	8.79	87.88
	05/14/02	9.12	87.55
	08/22/02	10.55	86.12
	12/03/02	11.93	84.74
	03/06/03	10.37	86.30
	06/12/03	11.93	84.74
	09/16/03	11.86	84.81
	12/17/03	10.02	86.65
	03/23/04	8.53	88.14
	07/07/04	10.23	86.44
	09/15/04	10.99	85.68
	12/13/04	10.69	85.98
	03/15/05	9.97	86.70
	06/13/05	10.02	86.65
	09/27/05	11.25	85.42
	12/19/05	10.79	85.88
	03/20/06	7.67	89.00
	05/02/06	8.67	88.00
	12/08/06	7.86	88.81

Well ID TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
	03/08/07	10.05	86.62
	06/27/07	9.65	87.02
	09/26/07	11.08	85.59
	12/27/07	8.83	87.84
	03/27/08		
	06/25/08	8.73	87.94
	10/01/08	9.42	87.25
	12/11/08	9.50	87.17
	03/10/09	8.59	88.08
	05/27/09	8.91	87.76
	09/01/09	Dry	
	12/03/09	8.93	87.74
	02/18/10	7.78	88.89
	05/04/10	8.66	88.01
	12/16/10	8.12	88.55
	02/25/11	7.87	88.80
	08/11/11	10.20	86.47
	02/07/12	9.47	87.20
	07/31/12	9.96	86.71
	01/22/13	7.48	89.19
	08/07/13	9.57	87.10
	03/24/14	8.62	88.05
	08/27/14	10.81	85.86
237.54	01/21/15	8.71	228.83
	06/29/15	8.99	228.55
	02/04/16	7.32	230.22
	08/02/16	10.61	226.93
	02/23/17	6.45	231.09
	08/24/17	9.11	228.43
	02/07/18	7.33	230.21

Well ID TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
(ieel)	Dale	(leet bys)	(IEELINAVD 88)
MW-8	04/10/97	8.20	85.30
93.50	07/24/97	9.60	83.90
	11/06/97		
97.03	01/27/98	7.51	89.52
	04/29/98	22.43	74.60
	07/28/98	22.45	74.58
	10/21/98	9.53	87.50
	01/20/99	9.19	87.84
	04/22/99	8.35	88.68
L	07/21/99	10.43	86.60
	10/26/99	10.85	86.18
	02/23/00	9.47	87.56
	05/31/00	9.51	87.52
	08/22/00	21.61	75.42
	11/08/00	9.69	87.34
97.19	02/14/01	9.39	87.80
	04/19/01	8.81	88.38
	08/07/01	21.25	75.94
	11/01/01	20.72	76.47
	03/20/02	19.51	77.68
	05/14/02	8.87	88.32
	08/22/02	9.18	88.01
	12/03/02	10.90	86.29
	03/06/03	20.70	76.49
	06/11/03	21.20	75.99
	09/16/03	20.80	76.39
	12/17/03	8.38	88.81
	03/23/04	7.95	89.24
	07/07/04	8.83	88.36
	09/15/04	9.15	88.04
	12/13/04	8.66	88.53
	03/15/05	8.62	88.57
	06/13/05	9.23	87.96
	09/27/05	9.49	87.70
	12/19/05	10.12	87.07
	03/20/06	7.74	89.45
	05/02/06	8.10	89.09
	12/08/06	7.98	89.21

Well ID TOC		DTM	014/5
(feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
(ieel)	Dale	(leet bys)	(IEELINAVD 88)
	03/08/07	8.69	88.50
	06/27/07	8.51	88.68
	09/26/07	10.00	87.19
	12/27/07	7.84	89.35
	03/27/08	8.04	89.15
	06/25/08	9.24	87.95
	10/01/08	10.43	86.76
	12/11/08	9.79	87.40
	03/10/09	9.01	88.18
	05/27/09	8.11	89.08
	09/01/09	9.26	87.93
	12/03/09	8.14	89.05
	02/18/10	15.45	81.74
	05/05/10	7.97	89.22
	08/17/10	8.74	88.45
	12/16/10	7.60	89.59
	02/25/11	7.73	89.46
	08/11/11	8.88	88.31
	02/07/12	8.19	89.00
	07/31/12	8.67	88.52
	01/22/13	6.39	90.80
	08/07/13	9.30	87.89
	03/24/14	8.33	88.86
	08/27/14	9.85	87.34
238.04	01/21/15	7.84	230.20
	01/22/15		
	06/29/15	8.99	229.05
	02/04/16	7.35	230.69
	08/02/16	9.11	228.93
	02/23/17	7.01	231.03
	08/24/17	9.21	228.83
	02/07/18	7.29	230.75
L			

Well ID			
TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
-			
MW-9	07/31/14	DRY	
94.84	08/25/14	DRY	
	08/27/14	DRY	
236.70	01/21/15	DRY	
	02/18/15	DRY	
	03/05/15	DRY	
	03/17/15	DRY	
	06/29/15	DRY	
	02/04/16	16.85	219.85
	08/02/16	19.88	216.82
	02/23/17	13.62	223.08
	08/24/17	19.90	216.80
	02/07/18	14.55	222.15
VP-1	12/03/02	10.72	87.73
98.45	03/06/03	9.26	89.19
	06/12/03	9.64	88.81
	09/16/03	11.02	87.43
	12/17/03	8.08	90.37
	03/23/04	7.14	91.31
	07/07/04	8.54	89.91
	09/15/04	9.25	89.20
	12/13/04	8.40	90.05
	03/15/05	8.36	90.09
	06/13/05	8.37	90.08
	09/27/05	9.63	88.82
	12/19/05	8.97	89.48
	03/20/06	6.66	91.79
	05/02/06	7.43	91.02
	12/08/06	6.22	92.23
	03/08/07	8.40	90.05
	06/27/07	8.22	90.23
	09/26/07	9.55	88.90
	12/27/07	7.20	91.25
	03/27/08	7.36	91.09
	06/25/08	6.52	91.93
	10/01/08	8.93	89.52
	12/11/08	8.44	90.01
	03/10/09	7.48	90.97
	05/27/09	7.29	91.16
	09/01/09	9.18	89.27

Well ID TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
	12/03/09	14.19	84.26
	02/18/10	6.14	92.31
	05/04/10	7.81	90.64
	08/17/10	8.39	90.06
	12/16/10	6.33	92.12
	02/25/11	6.51	91.94
	08/11/11	8.51	89.94
	02/07/12	7.46	90.99
	07/31/12	8.26	90.19
	01/22/13	6.01	92.44
	08/07/13	8.71	89.74
	03/24/14	5.98	92.47
	08/27/14	9.04	89.41
239.33	01/21/15	7.01	232.32
	06/29/15	8.69	230.64
	02/04/16	5.01	234.32
	08/02/16	8.90	230.43
	02/23/17	5.15	234.18
	08/24/17	8.94	230.39
	02/07/18	14.20	225.13
VP-2	04/10/97	6.31	87.46
93.77	07/24/97	7.85	85.92
97.58	01/27/98	9.00	88.58
	04/29/98	9.55	88.03
	07/28/98	10.07	87.51
	10/21/98	9.86	87.72
	01/20/99	8.12	89.46
	04/22/99	7.09	90.49
	07/21/99	8.92	88.66
	10/26/99	12.67	84.91
	02/23/00	8.24	89.34
	05/31/00	8.46	89.12
	08/22/00	9.94	87.64
	11/08/00	9.47	88.11
97.73	02/14/01	9.19	88.54
	04/19/01	8.51	89.22
	08/07/01	9.82	87.91
	11/01/01	10.32	87.41
	03/20/02	8.07	89.66
	05/14/02	8.06	89.67

Well ID TOC		DTW	GWE
(feet) ¹	Date	(feet bgs)	(feet NAVD 88)
	08/22/02	8.91	88.82
	12/03/02	10.45	87.28
	03/06/03	9.10	88.63
	06/11/03	9.38	88.35
	09/16/03	10.82	86.91
	12/17/03	7.89	89.84
	03/23/04	6.85	90.88
	07/07/04	8.28	89.45
	09/15/04	9.02	88.71
	12/13/04	8.41	89.32
	03/15/05	8.04	89.69
	06/13/05	8.09	89.64
	09/27/05	9.34	88.39
	12/19/05	8.70	89.03
	03/20/06	6.31	91.42
	05/02/06	7.09	90.64
	12/08/06	6.18	91.55
	03/08/07	8.14	89.59
	06/27/07	7.88	89.85
	09/26/07	9.23	88.50
	12/27/07	6.80	90.93
	03/27/08	7.02	90.71
	06/25/08	6.63	91.10
	10/01/08	9.45	88.28
	12/11/08	8.14	89.59
	03/10/09	7.16	90.57
	05/27/09	6.99	90.74
	09/01/09	8.89	88.84
	12/03/09	7.01	90.72
	02/18/10	6.12	91.61
	05/04/10	6.78	90.95
	08/17/10	8.09	89.64
	12/16/10	6.00	91.73
	02/25/11	6.11	91.62
	08/11/11	8.12	89.61
	02/07/12	7.19	90.54
	07/31/12	7.92	89.81
	08/01/12		

Well ID TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
	01/22/13	5.69	92.04
	08/07/13	8.40	89.33
	03/24/14	5.60	92.13
	08/27/14	8.78	88.95
238.59	01/21/15	6.62	231.97
	06/29/15	8.29	230.30
	02/04/16	5.00	233.59
	08/02/16	8.59	230.00
	02/23/17	4.65	233.94
	08/24/17	8.59	230.00
	02/07/18	5.42	233.17
VP-3	04/10/97	6.72	87.08
93.80	07/24/97	8.50	85.30
00.00	11/06/97		
97.61	01/27/98	6.66	90.95
07.01	04/29/98	9.37	88.24
	07/28/98	11.47	86.14
	10/21/98	10.55	87.06
	01/20/99	8.66	88.95
	04/22/99	7.63	89.98
	07/21/99	9.48	88.13
	10/26/99	11.41	86.20
	02/23/00	8.88	88.73
	05/31/00	9.06	88.55
	08/22/00	11.03	86.58
	11/08/00	10.24	87.37
97.75	02/14/01	9.85	87.90
	04/19/01	9.21	88.54
	08/07/01	10.99	86.76
	11/01/01	11.52	86.23
	03/20/02	9.08	88.67
	05/14/02	8.56	89.19
	08/22/02	9.55	88.20
	12/03/02	11.14	86.61
	03/06/03	10.23	87.52
	06/12/03	10.72	87.03
	09/16/03	11.90	85.85
	12/17/03	8.66	89.09
	03/23/04	7.44	90.31
	07/07/04	8.99	88.76

Well ID TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
, , 		()	, , , , , , , , , , , , , , , , , , ,
	09/15/04	9.79	87.96
	12/13/04	9.24	88.51
	03/15/05	8.70	89.05
	06/13/05	8.70	89.05
	09/27/05	10.05	87.70
	12/19/05	10.27	87.48
	03/20/06	6.81	90.94
	05/02/06	7.67	90.08
	12/08/06		
	03/08/07		
	06/27/07	7.76	89.99
	09/26/07	9.24	88.51
	12/27/07	6.60	91.15
	03/27/08	6.87	90.88
	06/25/08	6.05	91.70
	10/01/08	9.63	88.12
	12/11/08	7.94	89.81
	03/10/09	6.98	90.77
	05/27/09	6.90	90.85
	09/01/09	8.84	88.91
	12/03/09	6.93	90.82
	02/18/10	5.65	92.10
	05/05/10	6.68	91.07
	08/17/10	8.09	89.66
	12/16/10	5.96	91.79
	02/25/11	5.90	91.85
	08/11/11	8.20	89.55
	02/07/12	7.16	90.59
	07/31/12	7.88	89.87
	08/01/12		
	01/22/13	5.42	92.33
	08/07/13	8.30	89.45
	03/24/14	5.45	92.30
	08/27/14	8.74	89.01
237.86	01/21/15	6.51	231.35
	06/29/15	8.35	229.51
	02/04/16	4.81	233.05
	08/02/16	8.61	229.25
	02/23/17	4.18	233.68
	08/24/17	8.51	229.35
	02/07/18	4.72	233.14

Well ID TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
,		(0)	· · · ·
VP-4	12/03/02	10.64	86.60
97.24	03/06/03	9.05	88.19
07.21	06/12/03	9.29	87.95
	09/16/03	10.98	86.26
	12/17/03	8.18	89.06
	03/23/04	6.57	90.67
	07/07/04	8.38	88.86
	09/15/04	9.31	87.93
	12/13/04	8.84	88.40
	03/15/05	8.08	89.16
	06/13/05	8.15	89.09
	09/27/05	8.56	88.68
	12/19/05	8.96	88.28
	03/20/06	5.79	91.45
	05/02/06	6.83	90.41
	12/08/06	5.90	91.34
	03/08/07	8.18	89.06
	06/27/07	7.80	89.44
	09/26/07	9.41	87.83
	12/27/07	6.70	90.54
	03/27/08	6.68	90.56
	06/25/08	7.70	89.54
	10/01/08	9.14	88.10
	12/11/08	8.01	89.23
	03/10/09	6.80	90.44
	05/27/09	6.95	90.29
	09/01/09	9.14	88.10
	12/03/09	6.83	90.41
	02/18/10	5.67	91.57
	05/04/10	6.68	90.56
	12/16/10	6.11	91.13
	02/25/11	5.83	91.41
	08/11/11	8.35	88.89
	02/07/12	7.02	90.22
	07/31/12	8.12	89.12
	01/22/13	5.83	91.41
	08/07/13	9.52	87.72

Well ID			
TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
		, ,	, ,
	03/24/14	9.04	88.20
	08/27/14	9.01	88.23
	09/02/14		
238.29	01/21/15	6.72	231.57
	01/22/15		
	06/29/15	8.47	229.82
	02/04/16	4.33	233.96
	08/03/16	8.80	229.49
	02/23/17	4.10	234.19
	08/24/17	8.70	229.59
	02/07/18	5.22	233.07
VP-5	04/10/97	6.72	86.38
93.10	07/24/97	8.81	84.29
	11/06/07		
96.91	01/27/98	6.89	90.02
	04/29/98	17.92	78.99
	07/28/98	17.80	79.11
	10/21/98	10.92	85.99
	01/20/99	8.90	88.01
	04/22/99	8.89	88.02
	07/21/99	10.21	86.70
	10/26/99	11.85	85.06
	02/23/00	9.27	87.64
	05/31/00	9.32	87.59
	08/22/00	13.22	83.69
	11/08/00	10.65	86.26
97.07	02/14/01	10.15	86.92
	04/19/01	10.45	86.62
	08/07/01	17.37	79.70
	11/01/01	17.67	79.40
	03/20/02	15.56	81.51
	05/14/02	8.63	88.44
	08/22/02	9.94	87.13
	12/03/02	13.00	84.07
	03/06/03	17.20	79.87
	06/11/03	17.60	79.47
	09/16/03	14.00	83.07
	12/17/03	9.22	87.85

Well ID TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
(ioot)	Bato	(1001.590)	
	03/23/04	7.72	89.35
	07/07/04	9.43	87.64
	09/15/04	10.25	86.82
	12/13/04	9.75	87.32
	03/15/05	9.05	88.02
	06/13/05	9.30	87.77
	09/27/05	10.23	86.84
	12/19/05	8.89	88.18
	03/20/06	6.83	90.24
	05/02/06	7.70	89.37
	12/08/06		
	03/08/07		
	06/27/07	8.56	88.51
	09/26/07	11.61	85.46
	12/27/07	7.42	89.65
	03/27/08	7.47	89.60
	06/25/08	6.55	90.52
	10/01/08	10.01	87.06
	12/11/08	8.70	88.37
	03/10/09	8.49	88.58
	05/27/09	7.71	89.36
	09/01/09	9.84	87.23
	12/03/09	7.72	89.35
	02/18/10	6.34	90.73
	05/04/10	7.48	89.59
	12/16/10	6.84	90.23
	02/25/11	6.78	90.29
	08/11/11	9.11	87.96
	02/07/12	8.09	88.98
	07/31/12	8.82	88.25
	01/22/13	6.17	90.90
	08/07/13	9.30	87.77
	03/24/14	6.84	90.23
	03/25/14		
	08/27/14	9.75	87.32

Well ID TOC		DTW	GWE
(feet) ¹	Date	(feet bgs)	(feet NAVD 88)
237.93	01/21/15	7.50	230.43
	01/22/15		
	06/29/15	9.31	228.62
	02/04/16	5.38	232.55
	08/03/16	9.55	228.38
	02/23/17	4.92	233.01
	08/24/17	9.52	228.41
	02/07/18	6.02	231.91
VP-6	04/10/97	6.51	87.38
93.89	07/24/97	7.74	86.15
97.69	01/27/98	6.70	90.99
	04/29/98	8.30	89.39
	07/28/98	11.10	86.59
	10/21/98	9.52	88.17
	01/20/99	6.98	90.71
	04/22/99	7.10	90.59
	07/21/99	9.60	88.09
	10/26/99	10.24	87.45
	02/23/00	8.11	89.58
	05/31/00	8.33	89.36
	08/22/00	9.88	87.81
	11/08/00	8.92	88.77
97.85	02/14/01	8.91	88.94
	04/19/01	8.14	89.71
	08/07/01	9.58	88.27
	11/01/01	9.72	88.13
	03/20/02	7.97	89.88
	05/14/02	7.86	89.99
	08/22/02	8.58	89.27
	12/03/02	9.95	87.90
	03/06/03	8.97	88.88
	06/12/03	9.23	88.62
	09/16/03	9.36	88.49
	12/17/03	7.44	90.41
	03/23/04	6.78	91.07
	07/07/04	8.05	89.80
	09/15/04	8.61	89.24
	12/13/04	7.74	90.11

Well ID TOC	Dete	DTW	GWE
(feet) ¹	Date	(feet bgs)	(feet NAVD 88)
	03/15/05	7.79	90.06
	06/13/05	7.86	89.99
	09/27/05	8.95	88.90
	12/19/05	8.26	89.59
	03/20/06	6.39	91.46
	05/02/06	6.99	90.86
	12/08/06	6.13	91.72
	03/08/07	7.82	90.03
	06/27/07	7.64	90.21
	09/26/07	8.84	89.01
	12/27/07	7.03	90.82
	03/27/08	7.03	90.82
	06/25/08	7.68	90.17
	10/01/08	8.65	89.20
	12/11/08	7.98	89.87
	03/10/09	7.19	90.66
	05/27/09	6.98	90.87
	09/01/09	8.62	89.23
	12/03/09	6.93	90.92
	02/25/10	6.00	91.85
	05/04/10	6.83	91.02
	08/17/10	7.93	89.92
	12/16/10	6.00	91.85
	02/25/11	6.30	91.55
	08/11/11	8.01	89.84
	02/07/12	7.03	90.82
	07/31/12	7.79	90.06
	08/01/12		
	01/22/13	6.00	91.85
	08/07/13	8.20	89.65
	03/24/14	5.87	91.98
	08/27/14	8.34	89.51
238.72	01/21/15	6.71	232.01
	01/22/15		
	06/29/15	8.17	230.55
	02/04/16	5.30	233.42
	08/02/16	8.37	230.35
	02/23/17	5.12	233.60
	08/24/17	8.44	230.28
	02/07/18	5.72	233.00
	02/01/10	0.12	200.00

Well ID			
TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
VP-7	04/10/97	13.32	79.84
93.16	07/24/97	10.60	82.56
96.79	01/27/98	7.69	89.10
	04/29/98	13.21	83.58
	07/28/98	13.14	83.65
	10/21/98	10.27	86.52
	01/20/99	12.75	84.04
	04/22/99	9.95	86.84
	07/21/99	12.62	84.17
	10/26/99	11.20	85.59
	02/23/00	8.80	87.99
	05/31/00	9.08	87.71
	08/22/00	12.81	83.98
	11/08/00	9.40	87.39
96.92	02/14/01	9.58	87.34
	04/19/01	8.86	88.06
	08/07/01	11.38	85.54
	11/01/01	12.10	84.82
	03/20/02	12.18	84.74
	05/14/02	12.75	84.17
	08/22/02	9.42	87.50
	12/03/02	12.10	84.82
	03/06/03	12.75	84.17
	06/11/03	12.85	84.07
	09/16/03	11.42	85.50
	12/17/03	8.37	88.55
	03/23/04	7.17	89.75
	07/07/04	8.78	88.14
	09/15/04	9.58	87.34
	12/13/04	8.74	88.18
	03/15/05	8.45	88.47
	06/13/05	10.31	86.61
	09/27/05	9.81	87.11
	12/19/05	12.29	84.63
	03/20/06	6.61	90.31
	05/02/06	7.45	89.47
	12/08/06	6.81	90.11
	03/08/07	8.56	88.36

Well ID			
TOC		DTW	
(feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
(ieel)	Date	(leet bys)	
	06/27/07	8.30	88.62
	09/26/07	10.91	86.01
	12/27/07	7.48	89.44
	03/27/08	7.36	89.56
	06/25/08	6.54	90.38
	10/01/08	9.72	87.20
	12/11/08	9.36	87.56
	03/10/09	8.60	88.32
	05/27/09	7.32	89.60
	09/01/09		
	12/03/09	10.02	86.90
	02/18/10	6.12	90.80
	05/05/10	7.18	89.74
	08/17/10	8.52	88.40
	12/16/10	6.50	90.42
	02/25/11	6.51	90.41
	08/11/11	8.59	88.33
	02/07/12	7.51	89.41
	07/31/12	8.26	88.66
	08/01/12		
	01/22/13	6.01	90.91
	08/07/13	9.39	87.53
	03/24/14	6.54	90.38
	08/27/14	9.21	87.71
237.80	01/21/15	6.81	230.99
	01/22/15		
	06/29/15	8.73	229.07
	02/04/16	5.53	232.27
	08/03/16	9.10	228.70
	02/23/17	5.20	232.60
	08/24/17	9.01	228.79
	02/07/18	5.69	232.11
L	_		

Well ID			
TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
· · · ·		、 U U	· · · ·
VP-8	04/10/97	12.77	79.95
92.72	07/24/97	8.31	84.41
52.12	11/06/97		
96.52	01/27/98	7.16	89.36
00.02	04/29/98	11.93	84.59
	07/28/98	12.41	84.11
	10/21/98	10.91	85.61
	01/20/99	8.30	88.22
	04/22/99	11.35	85.17
	07/21/99	12.41	84.11
	10/26/99	11.61	84.91
	02/23/00	12.65	83.87
	05/31/00	8.77	87.75
	08/22/00	11.79	84.73
	11/08/00	10.40	86.12
96.67	02/14/01	10.01	86.66
	04/19/01	9.35	87.32
	08/07/01	11.02	85.65
	11/01/01	12.95	83.72
	03/20/02	12.85	83.82
	05/14/02	12.89	83.78
	08/22/02	9.52	87.15
	12/03/02	12.50	84.17
	03/06/03	17.20	79.47
	06/11/03	12.80	83.87
	09/16/03	12.78	83.89
	12/17/03	9.17	87.50
	03/23/04	7.15	89.52
	07/07/04	9.06	87.61
	09/15/04	10.04	86.63
	12/13/04	9.74	86.93
	03/15/05	8.72	87.95
	06/13/05	DRY	
	09/27/05	10.24	86.43
	12/19/05	11.13	85.54
	03/20/06	6.17	90.50
	05/02/06	7.31	89.36
	12/08/06	6.40	90.27

Well ID			
TOC		DTW	GWE
(feet) ¹	Date	(feet bgs)	(feet NAVD 88)
(1001)	Duto	(1001 090)	
	00/00/07	0.00	07.70
	03/08/07	8.88	87.79
	06/27/07	8.34	88.33
	09/26/07	11.20	85.47
	12/27/07	7.13	89.54
	03/27/08	6.84	89.83
	06/25/08	6.03	90.64
	10/01/08	9.12	87.55
	12/11/08	9.36	87.31
	03/10/09	7.35	89.32
	05/27/09	7.50	89.17
	09/01/09		
	12/03/09	7.45	89.22
	02/18/10	6.04	90.63
	05/04/10	7.11	89.56
	12/16/10	6.71	89.96
	02/25/11	6.18	90.49
	08/11/11	9.00	87.67
	02/07/12	7.94	88.73
	07/31/12	8.76	87.91
	01/22/13	6.25	90.42
	08/07/13	9.20	87.47
	03/24/14	6.40	90.27
	03/25/14		
	08/27/14	9.76	86.91
237.56	01/21/15	7.35	230.21
	01/22/15		
	06/29/15	9.25	228.31
	02/04/16	4.81	232.75
	08/03/16	9.55	228.01
	02/23/17	4.44	233.12
	08/24/17	9.64	227.92
	02/07/18	5.79	231.77

Well ID TOC		DTW	GWE
(feet) ¹	Date	(feet bgs)	(feet NAVD 88)
VP-9	12/03/02	11.22	88.59
99.81	03/06/03	9.70	90.11
	06/12/03	10.09	89.72
	09/16/03	11.42	88.39
	12/1703	8.63	91.18
	03/23/04	7.93	91.88
	07/07/04	9.31	90.50
	09/15/04	9.93	89.88
	12/13/04	9.01	90.80
	03/15/05	9.01	90.80
	06/13/05	9.01	90.80
	09/27/05	10.23	89.58
	12/19/05	9.40	90.41
	03/20/06	7.50	92.31
	05/02/06	8.15	91.66
	12/08/06	7.39	92.42
	03/08/07	9.67	90.14
	06/27/07	8.89	90.92
	09/26/07	10.11	89.70
	12/27/07	7.94	91.87
	03/27/08	8.13	91.68
	06/25/08	7.44	92.37
	10/01/08	9.51	90.30
	12/11/08	9.20	90.61
	03/10/09	8.29	91.52
	05/27/09	8.12	91.69
	09/01/09	9.87	89.94
	12/03/09	8.00	91.81
	02/18/10	7.02	92.79
	05/04/10	7.93	91.88
	12/16/10	6.94	92.87
	02/25/11	7.30	92.51
	08/11/11	9.27	90.54
	02/07/12	8.21	91.60
	07/31/12	9.04	90.77
	01/22/13	6.47	93.34
	08/07/13	9.29	90.52
	03/24/14	8.72	91.09
	08/27/14	9.65	90.16

Summary of Groundwater Monitoring Elevation Data Shell-Branded Service Station 210 NE 45th Street Seattle, Washington

Well ID TOC (feet) ¹	Date	DTW (feet bgs)	GWE (feet NAVD 88)
240.67	01/21/15	7.71	232.96
	06/29/15	9.41	231.26
	02/04/16	6.31	234.36
	08/02/16	9.69	230.98
	02/23/17	5.75	234.92
	08/24/17	9.80	230.87
	02/07/18	5.78	234.89

Notes:

Groundwater elevations are calculated based on reported depth to water and the corresponding surveyed evelation of top of casing (TOC).

--- - not measured

ft - feet

bgs - below ground surface

DTW - depth to water

GWE - groundwater elevation

¹ - Wells were resurveyed on January 27, 1998, February 14, 2001, and January 21, 2015

Data obtained from previous consultants (i.e., pre-Oct 2015) has not been independently reviewed or verified by AECOM, unless otherwise stated.

Appendix A Groundwater Sampling Field Forms

1/2

WELL GAUGING DATA

Project # 170223-CP1 Date 2/23/17 Client AECOM

Site 210 NE 45th 5+ 5eatthe 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	Notes
mw-1	0904						4.21	9.85		
MW-2	0932	ч					4.90	16.4Z		6×7 545.
mW-3	0945	ч					5.02	13.30		
MW-4	0909	Ч					5.48 4.200	14.50		
mw-5	0845	Ч					7.15	19.57		
mw-6	(140	4					9.65	19.40		
MW-7	0914	7					6.45	24.20		
mw-8	0852	Ч					7.01	19.37		Ex+ 545.
mw-9	0840	2					13.62	20.00		
VP-1	0901	4					5.15	14.21		
	0929	4					4.65	13.64		
VP-3	0925	ч					4.18	13.43		
VP-4	0907	Ч					4.10	13.58		
VP-5	0919	Ч					4.92	16.62		Ext S45.
VP-6	0857	Ч					5.12	13.75		
VP7	0921	y					5.20	10.98		Ext SUC
	916	Y					4.44	10.71		

2/2

WELL GAUGING DATA

Project #	17027	23-CP	Date	2/23/1	7	Client <u>A</u>	com
Site	210	Ne	15世	5+	Sea +H.	, wA	

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)		Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or	Notes
VP-9	0832	4					5.75	14.23		
	-									
	<u> </u>							·		
	1					-				
						~				
	1									

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		LOW F	LUW WE	LL MONI	TOURING	DAIAO			
Project #:	12022	23-CP	"	Client: AECOM					
Sampler:	af)		Gauging D	ate: 21-	23/17			
Well I.D.:	M	W-2		Well Diam	eter (in.)	2 3	(4) 6 8		
Total Wel	ll Depth (f	t.): /	6.42	Depth to W	Vater (ft.)	: 4.	90		
Depth to]	Free Produ	ict:		Thickness	of Free Pr	oduct (fe	et):		
Reference		PVC)	Grade	Flow Cell Type: YSI 556					
Purge Metho Sampling M		2" Grundfo Dedicated	- 1 -		Peristatic Pump Bladder Pump New Tubing Other				
_	Гіте: <u>12 ч</u>	15	Flow Rate: _	100 ml/min Pump Depth: 7'					
Time	Temp. (Cor°F)	pН	Cond. (mS/cm or	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (nL))	Depth to Water (ft.)	
1251	10.18	8.28	140	40	3.25	-174.2	600	4.97	
1254	11.11	8.04	123	17	3.41	-207.1	906	4.97	
1257	11.27	8.03	121	12	3.52	-201.9	1200	4.97	
1300	(1.33	7.99	120	9	3.49	-207.0	1500	4.97	
1303	11.37	7.95	120	9	3.52	-207.5	1800	4.97	
				L					
					<u> </u>				
			\square	<u> </u>			vacuated: [81	
Did well	dewater?	Yes (No)					.06	
Sampling		130	14				2/23/17		
Sample I	.D.: GW-Cl	0493-0	22317-C	P-MW-2	Laborato	ory: T	4		
	Analyzed for: TPH-O FTEX M					Other:	See CoC		
	nt Blank I	.D.:	@ Time		Duplicat	e I.D.:			
1 - 1 - 1 - 1 - 1							05442 (408)	573-0555	

		LOW F	LOW WE	LL MONI	IUKING	DAIAG			
Project #:	17022	23- CP	1	Client: /	4600	m			
Sampler:	4	-		Gauging D	ate: 21-	23/17			
Well I.D.:	MU	v.3		Well Diam	eter (in.) :		<u>(4)</u> 6 8		
Total Wel	l Depth (f	t.): 13	.30	Depth to Water (ft.): 5.02					
	Free Produ			Thickness	of Free Pr	oduct (fe	et):		
Reference		NC)	Grade	Flow Cell	Type:	YSI	556		
Purge Metho Sampling Metho	od:	2" Grundfo Dedicated	TIGing		Peristatic Pump Bladder Pump New Tubing Other				
Start Purge 7	Fime: 09	47	Flow Rate:	100 ml	min		Pump Depth:	2	
Time	Temp. $(7C \text{ or }^{\circ}F)$	pH	Cond. (mS/cm or	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (nL))	Depth to Water (ft.)	
00153	9.15	9.80	488	12	0.62	-305-7	600	5.09	
0956	9.45	9.31	432	9	0.46	-370.9	900	3.09	
0959	9.65	9.12	413	2	0.40	-374.1	1200	5.09	
1002	9.71	9.09	410	5	0.39	-374.5	1500	5.03	
1005	9.74	9.05	402	5	0.37	-375.0	1800	5.09	
								ļ	
			·						
				<u></u>					
					<u> </u>	<u> </u>	<u> </u>	01	
Did well	dewater?	Yes	Nò '		Amount		evacuated: 1	.86	
Sampling Time: 1006					Samplin	g Date:	2/23/17		
Sample I.D.: GW-060493-022317-CP-				P-MW-3	Laborate	ory: T	4		
	Analyzed for: TPH-O ETEX MTB				- <u></u>	Other:	See CoC		
		$- \bigcirc$	@		Duplicat	te I.D.:			
Equipme	nt Blank I	<i>.</i>	Time	······	I		05442 (408)	573-0555	

		LOW F.	LOW WE	LL MONI	TORING	DAIAS	SHEE I			
Project #:	17022	23-CF	7	Client: 🦯						
Sampler:	04	2		Gauging D	ate: 21	23/17				
Well I.D.	: M	W-6		Well Diam	eter (in.)	: 2 3	<u>(</u> 4) 6 8			
Total We	ll Depth (f	t.): 19	. 40	Depth to Water (ft.): 9.65						
Depth to]	Free Produ	ıct:		Thickness	Thickness of Free Product (feet):					
Reference	ed to:	Ń	Grade	Flow Cell	Type:	YSI	556			
Purge Method:2" Grundfos PumpSampling Method:Dedicated Dubing					Peristatic Pump Bladder Pump New Tubing Other					
Start Purge Time: <u>1145</u> Flow Rate:				100 ml	100 ml/min Pump Depth: 12					
Time	Temp.	рН	Cond. (mS/cm or	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (nL))	Depth to Water (ft.)		
1151	10.02	8.28	290	7	0.87	-396.6	600	9.70		
1154	10.21	8.23	288	5	0-71	-407.3	900	9.70		
1157	10.25	8.18	287	5	0.68	-4020	1200	9-70		
1200	10.29	8.15	287	Ś	0.66	-409.1	1500	9.70		
1203	10.30	8.12	286	4	0.69	-406.7	1800	9.70		
								<u> </u>		
Did well	dewater?	Yes (Nò	L	Amount	actually e	vacuated: [.	86		
Sampling	; Time:	1204			Sampling	g Date:	2/23/17			
Sample I.	.D.: GW-06	0493-0	22317-Cl	D_MW-6	Laborato	ory: T	4			
Analyzed		TPH-9	FTER MTI	-)			See CoC			
Equipme	nt Blank I.	D.:	@ Time		Duplicat	e I.D.:				

CONTRODINC DATA SUFET

		LUW LI]	
Project #:	17022	23-CP	1	Client: AECOM					
Sampler:	af			Gauging D	ate: 21-	23/17			
Well I.D.:	mi	w. 9		Well Diam		\sim	4 6 8		
Total Wel	l Depth (fi		7.00	Depth to Water (ft.): 13.62					
Depth to I	Free Produ	ict:		Thickness of Free Product (feet):					
Reference		rvc)	Grade	Flow Cell	Type:	YSI	556		
Purge Method:2" Grundfos PumpSampling Method:Dedicated Tubing				Peristatic Pump Bladder Pump New Tubing Other					
	Time: 12	Flow Rate:	100 ml	min	·	Pump Depth:	<u>'u</u>		
Time	Temp. (*C or °F)	pН	Cond. (mS/cm or	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (nL))	Depth to Water (ft.)	
1226	10.45	7.54	709	16	1.43	-215.5	600	13.75	
1229	10.47	7.53	715	10	1.38	-222.1	900	13.80	
1232	10.56	7.54	711	9	1-41	-224.6	1200	13.86	
1235	10.61	7.54	-710	6	1.43	-224.9	1500	13.91	
1230	10.65		707	6	1.37	-224.1	1800	13.98	
1.9.2-									
	-								
								·	
Did well	dewaiter?	Yes (No '		Amount	actually e	evacuated: [.86	
Sampling		123	9		Samplin	g Date:	2/23/17		
				P- MIJ-9	Laborato	ory: T	4		
Sample I.D.: 600-000493-022317-C			BE TPHD		Other:	See CoC			
					Dunlicat				
Equipme	Equipment Blank I.D.: Time				Duplicate I.D.:				

		LUW F	LOW WE			Dittic			
Project #:	17022	23-CP	"	Client:	4600	M			
Sampler:	af)		Gauging D	ate: 21	23/17			
Well I.D.	: V	P-1		Well Diam	eter (in.)	: 2 3	₫ 6 8		
Total We	ll Depth (f	t.): /	4.21	Depth to Water (ft.): 5.15					
	Free Produ			Thickness of Free Product (feet):					
Reference		NC)	Grade	Flow Cell	Type:	VSI	556		
Purge Metho Sampling M	lethod:	2" Grundfo Dedicated	Tubing	Peristatic Pump Bladder Pump New Tubing Other					
Start Purge	Time: 1015			100 ml	min	 TI	Pump Depth: 8	, 	
Time	Temp. $(7 \circ r^{\circ}F)$	pН	Cond. (mS/cm or ptS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (nL))	Depth to Water (ft.)	
1021	9.74	9.07	104	7	1.29	-3900	600	5.20	
1024	9.76	8.81	105	5	1.07	-388.1	900	5.20	
1027	9.97	8.74	105	5	0.94	-383.2	1200	5.20	
1030	10.02	8.72	105	4	0.90	-379.5	1500	5.20	
1033	10.09	8.68	105	4	0.87	-377.2	1800	5.20	
					<u></u>			ļ	
					<u>_</u>				
		<u> </u>		<u></u>	<u> </u>			81	
Did well	Did well dewater? Yes No						evacuated: [.	.06	
Sampling Time: 1034					Samplin	g Date:	2/23/17		
Sample I.D.: 6W-000493-022317-CF				P-VP-1	Laborato		4		
	Analyzed for: TH-2 TEX MTB					Other:	See CoC		
	ent Blank I	.D.:	@. Time		Duplicate I.D.:				
Inderhund							05442 (408)	573-0555	

		LUW F	LUW WE	LL MONI	IUMINO	DAIAC]		
Project #:	17022	23- CP	"	Client: AECOM						
Sampler:	af			Gauging D	ate: 21	23/17				
Well I.D.:	V	P-2		Well Diam	eter (in.)	: 2 3	Q 6 8			
Total Wel	ll Depth (f	řt.): /3		Depth to Water (ft.): 4.65						
Depth to I	Free Produ	ıct:			Thickness of Free Product (feet):					
Reference	ed to:	PVC)	Grade	Flow Cell	Type:	YSI	556			
Purge Method: 2" Grundfos Pump Sampling Method: Dedicated Tuding					Peristatic Pump Bladder Pump New Tubing Other					
Start Purge	Time: 105	10	Flow Rate: _	100 ml	min		Pump Depth:	7		
Time	Temp.	pН	Cond. (mS/cm or	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)		
1046	10.10	8.16	375	9	1.35	-333.2	600	4.69		
1049	10.12	8.16	375	7	1.50	-332.1	900	4.69		
1052	10.17	8.17	379	5	1.24	-326.2	1200	4.69		
1055	10.18	8.17	380	5	1.19	.326.0	1500	4.69		
1058	10.17	8.19	379	5	1.12	-325.9	1800	4.69		
								_		
								· · · · · · · · · · · · · · · · · · ·		
					<u> </u>					
	<u> </u>	<u> </u>		<u> </u>	<u> </u>			01		
Did well	dewater?	Yes	Nò '		Amount		evacuated: [.	OL		
Sampling	g Time:	1100			Samplin	g Date:	2/23/17			
Sample I.D.: GW-060493-022317-C				P-VP-2	Laborato		4	<u>. </u>		
	Analyzed for: TPH-9 FTEX MT					Other:	See CoC	. <u></u>		
	nt Blank I	$- \smile$	@ Time		Duplicat	te I.D.:				
1 your the								572_0555		

		LOW F	LOW WE	LL MONI	IUKING	DATAS				
Project #:	17022	23- CP	71	Client: /	4600	M				
Sampler:	af			Gauging D	ate: 21	23/17				
Well I.D.:	V	P-3		Well Diam	eter (in.)	: 2 3	4 6 8			
Total Wel	ll Depth (f	ť.): / '	3-43	Depth to W	Depth to Water (ft.): 4.18					
Depth to]	Free Produ	ict:			Thickness of Free Product (feet):					
Reference		RVC)	Grade	Flow Cell	Type:	YSI	556			
Purge Method: 2" Grundfos Pump Sampling Method: Dedicated Tubing				.	Peristatic ump Bladder Pump New Tubing Other					
	Start Purge Time: <u>///4</u> Flow Rate: _				min	 	Pump Depth:	1'		
Time	Temp.	pН	Cond. (mS/cm or	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (ml))	Depth to Water (ft.)		
1120	10.19	7.57	447	16	1.35	-400.2	600	4.22		
1123	10.25	7.01	447	17	0.94	-4126	900	4.22		
1126	10.29	7.04	445	20	0.89	-412.0	1200	4.22		
1129	10.32	7.65	442	21	0.81	-417.2	1500	4.22		
1132	10.38	7.65	440	21	0.79	-420.1	1800	J.22		
					<u> </u>	<u> </u>				
	<u> </u>				<u></u>			0/		
Did well	dewater?	Yes	Nò '		Amount		evacuated: [.OL		
Sampling	Sampling Time: //33				Samplin	g Date:	2/23/17			
	Sample I.D.: 6W-060493-027317-C				Laborate	ory: T	4			
	Analyzed for: TPH-O ETEX MTH					Other:	See CoC			
		$- \bigcirc$	@ Time		Duplicat	te I.D.:				
LEquipme	nt Blank I		1 une		<u> </u>		05442 (408)	573-0555		

	LOW F	LOW WE	LL MONI	TORING	DATA S	SHEET		
Project #: 170	1223-CP	?(Client:	4600	M			
Sampler:	ap		Gauging D	ate: 21	23/17			
Well I.D.:	VP-7		Well Diam			<u>(4)</u> 6 8		
Total Well Dept	h (ft.) : (0.98	Depth to W	Vater (ft.)	: 4	44 q. 5	. 20	
Depth to Free Pi			Thickness of Free Product (feet):					
Referenced to:	rvc)	Grade	Flow Cell	Type:	YSI	556		
Purge Method: Sampling Method:	2" Grundfo Dedicated	Tubing		Peristatic) New Tubin	g	Bladder Pump Other_		
Start Purge Time:	1312	Flow Rate:	100 ml	min		Pump Depth:	· · · · · · · · · · · · · · · · · · ·	
Time (Cor	-	Cond. (mS/cm or nS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	
1318 10.6		150	32	2.69	-217.0	600	5.29	
1321 10.6		151	25	1.85	-230.1	9,00	5.29	
1324 10.5	55 7.92	151	19	1.62	-229.3	1200	5.29	
1327 10.5		151	15	1.74	-237.1	1500	S. 29	
1330 10.5	10 7.87	150	12	1.72	-239.9	1800	5.29	
· · · · · · · · · · · · · · · · · · ·								
							8	
Did well dewate	er? Yes	No)'		Amount	actually e	evacuated: 1	.86	
Sampling Time	: 1331			Samplin	g Date:	2/23/17		
Sample I.D.:64		22317-01	P-VP-7	Laborato	ory: T	4		
Analyzed for:	BE TPHD		Other:	See CaC				
Equipment Blar	nk I.D.:	@ Time		Duplicat	e I.D.:		573-0555	

		LOW F	LUW WE	LL MONI	IUNING	DAIAO				
Project #:	17022	23- CP	1	Client:	4600	m				
Sampler:	af	_		Gauging D	ate: 21-	23/17				
Well I.D.:		1P-8		Well Diam	eter (in.) :	2 3	<u>(4)</u> 6 8			
Total Wel	l Depth (f	t.): /	0.71	Depth to W	Depth to Water (ft.): 4.44					
	Free Produ			Thickness	Thickness of Free Product (feet):					
Reference		WC)	Grade	Flow Cell	Type:	VSI	556			
Purge Metho Sampling M	od:	2" Grundfo Dedicated	Tubing		Peristatic Pump Bladder Pump New Tubing Other					
Start Purge	Time: <u>30</u>	1(Flow Rate: _	100 ml	min		Pump Depth:	/		
Time	Temp.	pН	Cond. (mS/cm or	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (nL))	Depth to Water (ft.)		
1347	10.74	7.01	793	35	1.13	-210.3	600	4.48		
1350	10.68	7.03	737	29	0.86	-241.2	900	4.48		
1353	10.60	7.15	752	20	0.43	-247.1	1200	4.48		
1356	10.58	7.19	755	17	0.40	-249.9	1500	4.48		
1359	10.55	7.22	756	15	0.39	-251.2	1800	4.48		
					<u> </u>					
. <u>.</u>					<u> </u>	<u> </u>				
				<u></u>	<u> </u>			Q/		
Did well dewater? Yes No							evacuated: [.06		
Sampling Time: 1400					Samplin	g Date:	2/23/17			
Sample I.D.: 6W-060493-622317-CP-VP				P-VP-8	8 Laboratory: TA					
				\sim		Other:	See CaC			
	nt Blank I	 .D.:	@ Time		Duplicat	e I.D.:				
LAmburg	ARU AN AMERICA A						05442 (408)	573-0555		

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B (LOCATION) IT IT ILab Vendor # 1364689 (текАлпенса) BELCA (

					ш	ENVIRONMENTAL	MENTAI	- WELL, I	REMED	IATION	COMPO	UND, AN	ID SITE I	VSPECI	WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM		Page	7	^{of} Z
INCIDENT #	918	91880622	290	2							AI	ADDRESS	•	210	SNO	2	US the St		
DATE:	2/2	-1/22,	7								0	CITY & STATE	ATE	S	sea t the	wh	A		
						Observations Upor	tions Upr							H		Note Ren	Note Repairs Made	Photos of	of Repair Date
Well ID	Manway	Manway Cover, Type, Condition & Size	/pe, Con	dition &		Well Labeled / Painted Properly*	eled / sd ty*	Well Cap (Gripper) Condition	da Ju	Well Loc	Well Lock Condition	tion	Well Pad / Surface Condition	-	betailed Explana	tion of Ma and Pe	Detailed Explanation of Maintenance Recommended and Performed	Well	
mw-)	Standpipe	F@	0	с. «	Size (inch)	B	z	6	۲	0	۲ ۲	ער <u> </u>	60)					×	(2)
mu-2	Standpipe	Fues	٩	» م	Size (inch)	છ	z	6	R A	୍ଚ	œ	V F	$\left(\circ \right)$	٩				\mathbf{x}	
E-MM	Standpipe	Elus (୦	ه د	Size (inch)	େ	z	Ì	۲	(P	æ	N	٢	8 0 4	aly Tabr		str: ppal	> >	٢
p-win	Standpipe	Fldsb	Ø	e S	Size (Inch)	0	z	Q	R	ତ	R	NL	Q	е С	ola Tahr		str: oped	>	Ð
NW-5	Standpipe	Fley	٢	s d	Size (Inch) /2	Ì	z	0	ĸ	ଡ଼	œ	, NL	Q	٩				×	3
J-WW	Standpipe	Elien	0	» د	Size (Inch)	Ð	z	D	ĸ	0	æ	NL	୕ୄ	٩				× (, Q
MW-7	Standpipe	Fids	6	٩	Size (Inch)	ତ	z	0	æ	୭	œ	v v	0	с /-	3/3 70.	Tabr	Str. part	ý	4
B-UM	Standpipe	ţ.	୭	<u>ه</u>	Size (inch)	Ø	z	ଡ	ď	9	œ	J.	ଡ଼	٩				~ ~	ন্থ
MW-9	Standpipe	Filesh	٢	٩	Size (Inch)	Ø	z	9	œ	9	œ	, z	୭	۵.				~	Ø
VP-1	Standpipe	Flee	0	<u>م</u> ر	Size (inch)	\oslash	z	Q	R	E/	æ	NL N	0	٩				~ ~	(Z)
VP-2	Standpipe	9	Q	<u>م</u>	Size (inch) 36	0	z	٩	R	ଡ	R	NL	٩	Ч				>	(Z)
					тота	TOTAL # CAPS REPLACED =	S REPLA	CED =	0		"		TOTAL # OF LOCKS REPLACED	(S REPL	ACED				
Condition o Aband	Condition of Soil Boring Patches o Abandoned Monitoring Wells	atches of ng Wetis	 о	۹.	NIA	If PG	JOR, Borl	If POOR, Borings/Well IDs or Location Description)s or Loc	ation Des	cription							>	z
Remediatio (Check b	Remediation Compound Type (Check boxes that apply)	Type y)	Conditi	Condition of Enclosure	losure	Conditio	Condition of Area Inside Enclosure	Inside	Compc	Compound Security	Allin	Emergen	Emergency Contact Info Visible	lufo	Cleaning / Re	pairs Reco	Cleaning / Repairs Recommended and Conducted	Photos of Condition	a of Repair Date and tion PM Initials
NA Building	Bu	×																	
Building w/ Fence Comp. Fenced Compound	ance Comp. mpound		o	٩	N/A	თ	۵.	NIA		۵.	N/A	≻	- z	NA				~	
Trailer	er																		
Number of Drums On-site		Does the Label Reveal the Source of the Contents		abeled C	Labeled Correctly and Writing Legible	id Writing	myd.	m Condition	c	Confirm Drums Related to Environmental	Drums d to nental	Drums Busines	Drums Located to Min Business Interference	Min Nce	Detailed E	xplanation	Detailed Explanation of Any Issues Resolved	Photos of Drum Condition	s of Date Drums m Site tion and PM Initials
0	7	z	N/A	7	z	N/A	U	٩	N/A	7	z	7	z	N/A				×	Z
G = Good (Acceptable) R = Replaced P = Poor (needs attention) NL = No Lock Required <u>Note: All repairs other than locks and grippers require Shell PM approval prior to repair</u> . * = Groundwater monitoring well covers must be painted and tabeled in accordance with applicable regulations. Version 2.4, March 2008	eptable) Is attention) other than locks onitoring well cov 2008	R = Replaced NL = No Lock Required and grippers require Shell P	aced -ock Req. s require 5 painted and	uired hell PM ap labeled in a	proval prior	to repair, /ith applicable	s regulation:	ń						₹ 2 ₫	II environmenta ocked, and secu <i>Q.a.'g</i> int or type Name	l wells an red upon	All environmental wells and the remediation compound were in good condition. locked, and secured upon my departure (unless otherwise noted above). <i>Ora</i> , <i>a Partur</i> Print or type Name of Field Personnel & Consultant Company	d were i wise not	i good condition, sd above).

G = Good (Acceptable) R = Replaced P = Poor (needs attention) NL = No Lock Required Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

= Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

Print or type Name of Field Personnel & Consultant Company 34 Uvaig geton

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

WELL I.D. GALS.	VP-8 1 0.5								any other adjustments <u>/</u>	loaded onto BTS vehicle # q_0	time date date 2123/17		time date 1530 21 23117	L L	
WELL I.D. GALS.	MW-210.5	MW-3 1 6.5	MW-6 1 0.5	MW-9 1 0:5	UP-1 10.5	VP-2 1 6.5	5.0 1 8-00	5.0 1 L-d	added equip.	TOTAL GALS. 5.0 RECOVERED	BTS event # 770223-09/ signature	**************	RECEIVED AT BTS Kent	unloaded by signature	
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	100	ď.	6.92	7.01	7.10	7.17					
ON LOG	PROJECT NUMBER 170223-091	CALIBRATED TO: OR WITHIN 10%:	///								
TEST EQUIPMENT CALIBRATION LOG	PROJECT NUN	EQUIPMENT READING	3-45	0262	2.2.52	2.001					
r Equipmen	e wA	STANDARDS USED	0.4 HQ	conquet 3900	020.024.0	D.O. 1001.				-	
TEST	14 as . Ks	DATE/TIME OF TEST	2/23/17 0830								
	PROJECT NAME ZIO NE 45 TO SOUTH UN A	EQUIPMENT NUMBER	096100 101								
	PROJECT NAM	EQUIPMENT NAME	AST SSC								



AECOM Equilon Enterprises LLC dba Shell Oil Products (Equilon) US SGW (US) Daily Tailgate Meeting & Job Clearance Form

Job Location:	210 DEUSEN St. Seattle WA	Date:	2/23/07)			
AECOM Site Supervisor:	Craig Peter	AECOM PM:	Renee	Knecht			
	01-10/1						
List activities to be performed today:		homitoring					
Permitted Activities (specif permit to be competed):	Hoisting/Rigging (any lifting with	pace Entry Excava equipment, excluding c	drill rigs) 🗌 Nat	ural Gas System Maintenance			
The above	Permit-required activities require onsite	AECOM supervision	uniess approved	by Regional Operations.			
Muster Point:	Taco Stand	Spill Kit Location:		Rear of Van Rear of Van			
First Aid Kit Location:	Rear of Van	Fire Extinguisher Loo	cation:	Rea- of Van			
Emergency cut-off switche	s: Front of Station	Designated cell phor		In ap			
Has the Site Manager/Own	ner been notified of the work activities a	and/or participated in a	pre-work site wa				
Is a fuel delivery scheduled	d for today? If yes, plan to Stop Work o	during fuel delivery.					
Has a site walk been perfo	ormed to identify additional hazards?			Yes No*			
Have all personnel reviewe	ed and understand the site specific HAS	SP?		Tes No*			
	Job Safety Analysis (JSA)?			Yes No*			
	have JSAs for their activities?						
Have JSAs been reviewed by the work team and newly identified hazards been added to the JSA?							
Per our lone worker proce	ther? Yes No* N/A						
Has a Safe Lift Plan been	completed and reviewed/approved by a	an AECOM Subject Ma	Dn? Yes No* N/A				
Has each person on the work team discussed all hazards and mitigation measures associated with any task which will require their feet to leave the ground?							
Have work areas been pro	perly cordoned-off to protect workers, s	site staff, and the public	c?	Yes No* N/A			
	een completed, documented, and revie			Yes No* N/A			
Have there been any equi	pment modifications made by subcontra	actor(s)? Is yes, discus	ss modifications.	Yes No N7A			
	k team have API Safety Keys (AECOM						
Do all members of the wor	k team have a Shell "Life Saving Rules	" Training card?		Yes No*			
Do all site workers underst AECOM Site Supervisor of	and injury/ intervention reporting requir f any injury, near miss, unsafe conditior	ements including immon, hazard observation,	ediately notifying or release?				
If permits are required, have	ve they been reviewed and permit cond	litions understood by th	he Team?	Yes No* N/A			
If drilling, did driller physica	ally point out all pinch points to entire te	am (AECOM and all s	ubs)?	Yes No* N/A			
If drilling, has the driller & d	crew agreed the audible and visible sign	nals for "all clear" prior	to engaging cont	rols?			
* If No, then work cannot b	be performed until corrective action is comple	eted and documented.		·			

Title of AECOM JSAs reviewed today:	Grandwater Monitoring	Title of Subcontractor's JSAs reviewed today:
All personnel are wearing (regardless of activity):	Hard Hat Safety Glasses See JSA for additional task specific P	Safety Vest Steel-Toed Boots Gloves (appropriate for task) PE requirements.

Stop Work Authority & Obligation

- * All employees will stop the job any time anyone is concerned or uncertain about safety.
- * All employees will stop the job if anyone identifies a hazard or additional mitigation not recorded on the JSA.
- * All employees will be alerted to any changes in personnel or conditions at the worksite.
- * All employees will stop the job and reassess a task, hazards, and mitigations, and then amend the JSA as needed.

Other Items Discussed Today:

Circle the Life Saving Rule Icons that are applicable to the work/activities that will take place today:





















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When your west self oversities or disching when nikei eniptent

Survivieries before work begins and use the conclused the protecting explorator

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AECOM Equilon Enterprises LLC dba Shell Oil Products (Equilon) US SGW (US)

Daily Tailgate Meeting & Job Clearance Form

SITE WORKERS (including AECOM Contractors and Subcontractors): By signing here, you are stating the following:

* You understand that compliance with Shell's Life Saving Rules is mandatory and that failing to follow to them may result in termination.

* You have been involved in reviewing the JSAs and understand the hazards and control measures associated with each task you are about to perform.

- * You understand the permit to work requirements applicable to the work you are about to perform (if it includes permitted activities).
- * You understand the Shell Life Saving Rules and are aware that tasks or work that is not risk-assessed shall not be performed.
- * You are aware of your authority and obligation to 'Stop Work'.

I arrived and departed fit for duty:

* You are physically and mentally fit for duty,

- * You are not under the influence of any type of medication, drugs, or alcohol that could affect your ability to work safely.
- You are aware of your responsibility to immediately report any illness, injury (regardless of where or when it occurred), or fatigue issue you may have to the AECOM Site Supervisor.

* You will sign-out uninjured unless you have otherwise informed the AECOM Site Supervisor.

Print Name & C	ompany	Signature	Initials & Sign In Time	Initials & Sign Out Time
Craig Peter	RTS	In Pat	10 In & Fit 0815	OUT & Fit 1415
LEE BURES	BTS	Chille Solo	LB In & Fit 1115	LB Out & Fit 1215
	<u> </u>		In & Fit	Out & Fit
an a			In & Fit	Out & Fit
			In & Fit	Out & Fit

(Attach additional Site Worker sign-in/out sheets if needed)

PERSONAL SAFETY COM	MITMENT (Attach additional Personal Safety Commitment sheets, if needed)
Print Name	"I will personally commit to do the following to positively improve site safety today":
Craig Peterr	Exclusion Zones
LEE BURES	GOOD TRAFFIC CONTROL

VISITORS (attach ad	ditional Site Visitor sign-in/out sheets	s if needed)		
Print Name	Company Name	Arrival Time	Departure Time	Signature

SITE REPRESENTATIVE Sign In/Out (operating sites only, and signature must be requested. If the operator refuses to sign, note this on the Form)											
	Clearance Form with the contractor	Sign Out: I have discussed this Job Clearance Form with the contractor									
	Site Representative Signature	Site Representative Name Site Representative Signature									
Site Representative Name	LUCKY SINGH	Giannalindsey Sui here h									
		Children and the second									

TWILIGHT TOOL BOX TALK (Complete the following once field activities for the day have been concluded):											
Were there any Incidents, Near Misses, Potential Incidents, or Positive Interventions today?	🗌 Yes	No No	If yes, provide details:								
Were there any 'Stop Work' interventions?	🗌 Yes	No	If yes, provide details:								
Were there any areas for improvement noted?	□ Yes	No	If yes, provide details:								
Is the Site Manager/Owner happy with the way you left the site (including the location of waste drums and/or equipment)?	Yes	🗌 No	If no, provide details:								
I certify that the above information is true and the job site is being left in a safe condition	Yes	🗌 No	AECOM Site Supervisor Signature.								

WELL GAUGING DATA

Project # 170824.CPI Date 8/24/17 Client AECOM Site 210 NE 45th St. Seattle 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-1	0920	2					8.20	9.71	Ĭ	
MW-2	09 4 9	4					8.#9	16.11		Ext sus
MW.3	0929	4					10.35	13.40		
mw-4	0915	4					10.79	14.56		
mw-s	0830	4					10.73	19.64		
MW-6	0835	Ķ					14.19	19.40		
mw-7	0800	Ч					9.11	24.15		6.t
MW-8	0750	Y					9.21	19.51		Ext. SYS.
MW-9	0823	2					19.90	20.01		
VD-1	0918	4					8.94	14.25		
VD-2	0939	4					8.59	13.71		
VP-3	0944	4					8.51	13.43		
40-4	0925	4					8.70	13.68		
VP-5	0755	4					9.52	16.64		Gx+. Syl.
VP-6	0747	4					8.44	13.79		
1	0934	4					9.01	10.98		Ext
8-9V	0956	4					9.64	10:75		Ert Syl

1/2

WELL GAUGING DATA

Project # 10024 CI Date $9(24)$ Chem 26024	Project # <u>170824-CP1</u> Date	8/24/17	Client AECOM
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Site 210 NE 45th St. Spattle 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.)	bottom (ft.)	Survey Point: TOB or	Notes
VP-9	0740	Ч					9.80	14.15		
	1									
				<u> </u>						
ļ										
						<u> </u>				

2/2

		LOW F	LOW WE	LL MONI	TORING	DATA S	SHEET		
Project #:	170	824-0	Pl	Client:	AECO	m			
Sampler:	CR	AN		Client: Gauging D	ate: E	3/24/17			
Well I.D.	:	mw-		Well Diam			\sim		
Total We	ll Depth (f			Depth to W	Vater (ft.)	: 8.0	49		
Depth to 1	Free Produ	uct:		Thickness of Free Product (feet):					
Reference	ed to:	PVO	Grade	Flow Cell	Type:	USFS	556		
Purge Metho Sampling M Start Purge		2" Grundf Dedicated	Juping	Peristaltic Pump New Tubing Bladder Pump Other 100 mc/min Pump Depth:					
Time	Temp.	pH	Cond. (mS/cm or	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	
1210	18.60	6.39	209	15	1.32	-205.5	600	8.55	
1213	18-51	6.34	207	14	0.86	-195.1	900	8.55	
1216	18.50	6.33	207	11	1-10	-193.2	1200	8.55	
1219	18.54	6.31	202	10	1.05	-198.7	1500	8.55	
1222	18.55	6.31	199	10	1.00	-202.1	1800	8.55	
·									
							l a		
Did well	dewater?	Yes (No		Amount	actually e	vacuated: /	.86	
Sampling	; Time:	1223	3		Sampling	g Date:	8/24/17		
Sample I.	.D.: <i>6W-C</i> C	0493-08	ey17-99-	MW-Z	Laborato	ry: 7	FA		
Analyzed	for:	TPP-G	PTT MTE	BE TRA-D		Other:	See ce	3C	
Equipmer	nt Blank I.	D.:	@ Time		Duplicate	e I.D.:			

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		LOW F	LOW WE	LL MONI	FORING	DATA S	HEET			
Project #:	170	824-0	21		Client: AECOM					
Sampler:	Of)		Gauging Date: 8/24/17						
Well I.D.:	M	W-3		Well Diameter (in.): 2 3 4 6 8						
Total Wel	ll Depth (f			Depth to W	Depth to Water (ft.): 10.35					
	Free Produ			Thickness of Free Product (feet):						
Reference		PVC)	Grade	Flow Cell			<u> </u>			
Purge Metho Sampling M	od:	"Dec	Fuling	100 mc	Peristance Pump New Tubing Bladder Pump New Tubing Other 100 mc/min Pump Depth: 12					
Time	Temp. (C gr °F)	рН	Cond. (mS/cm or	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. omL)	Depth to Water (ft.)		
1012	15.98	6.09	722	60	1.04	-185.7	000	10.40		
1015	16.02	6.10	344	48	0.99	-186.6	900	10.40		
1018	16.07	6.12	350	43	0.67	-187.5	1200	10.40		
1021	16.10	6.13	355	37	0.62	-189.7	1500	10.10		
1024	16.08	6.15	361	34	0.60	-190.9	1800	10.40		
						<u> </u>				
	-									
				<u></u>						
Did well	dewater?	Yes	No		Amount	actually e	evacuated: /	. 8(
Sampling	g Time:	1025	, ,		Samplin	g Date:	8/24/17			
Sample I	.D.:6W-0	60493-0	82417-OP	MW-3	Laborato	ory: T	A			
Analyzed	l for:	TPL	BOER MT	ве три		Other:	Ser coc			
Equipme	nt Blank I	.D.:	@ Time		Duplicat	e I.D.:				

		LOW F	LOW WE	LL MONI	TORING	DATA S	SHEET			
Project #:	170	5824	$(\mathcal{P}\mathcal{P})$	Client:	AECON	n				
Sampler:	(CP .		Gauging D	ate:	8/24/1-	7			
Well I.D.:	: N	hw-	0	Well Diam	Well Diameter (in.): 2 3 (4) 6 8					
Total We	ll Depth (f			Depth to W	Vater (ft.)	: /	4.19			
	Free Produ			Thickness of Free Product (feet):						
Reference		rvo	Grade	Flow Cell	Type:	VSIS	56			
Purge Metho Sampling M		2" Grundfe Dedicated	Tuking	100 ml	Peristaltic F	amp g	Bladder Pump Other_ Pump Depth:			
			Cond.	100 1.01			T unip Depui			
Time	Temp.	pН	(mS/cm or μ <mark>8/cm</mark>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)		
0844	16.49	6.29	414	11	1.22	-129.3	600	14.25		
0847	16.39	6.33	415	10	1.07	-134.5	900	14.25		
0850	16.30	6.38	416	9	0.75	-153.2	1200	14.25		
0853	16.28	6.39	418	7	0.72	-154.1	1500	14.25		
0856	16.28	6.42	417	7	0.68	-156.3	1800	14.25		
· ·										
Did well	dewater?	Yes (No)	L	Amount	actually e	vacuated: /	·8L		
Sampling	Time:	085	7		Sampling	g Date:	8/24/1-	7		
Sample I.	D.: <i>6W-0</i> 6	20493-08	2417-CP-1	MW-6	Laborato	ry: T	A	<u></u>		
Analyzed		тен-)	BTEX MTI	\frown		Other:	(er Coc	2		
	nt Blank I.	D.:	@ Time		Duplicate	e I.D.:	<u>, , , , , , , , , , , , , , , , , , , </u>			

		LOW F	LOW WE	LL MONI	TORING	DATA	SHEET			
Project #:	170	1824.	CP/	Client:						
Sampler:	CP			Gauging D	Date: 6	8/28/17				
Well I.D.:	MU	N-9		Well Diam	Well Diameter (in.): 2 3 4 6 8					
Total Wel	ll Depth (f	t.): 20)·01	Depth to V	Vater (ft.)	: 19.	90			
Depth to l				Thickness of Free Product (feet):						
Reference	ed to:	RV2	Grade	Flow Cell Type:						
Purge Metho Sampling M Start Purge	ethod.	2" Grundfo Dedieated			Peristaltic Pump Bladder Pump New Tabing Other Pump Depth:					
Time	Temp. (°C or °F)	рН	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)		
		Inro	FRICIE urge	nt ov	wat	er pple				
	10		<u>orge</u>				· · · · · · · · · · · · · · · · · · ·			
	·									
·····		10	Sam	ple "	Take	n-				
			l							
Did well	dewater?	Yes	No		Amount	actually	wacuated:			
Sampling	, Time:	·····		,	Sampling	g Date:				
Sample I.	.D.:				Laborato	ry:				
Analyzed	for:	TPH-G	BTEX MT	BE TPH-D		Other:				
Equipmer	nt Blank I.	.D.:	@ Time		Duplicat	e I.D.:				

		LOW F	LUW WE	LL MONI	IURING	DATA	эпест			
Project #:	011	824.	CPI	Client:						
Sampler:	op			Gauging Date: 8/24/17						
Well I.D.	: V	P-1		Well Diam	Well Diameter (in.): 2 3 4 6 8					
Total We	ll Depth (f	ìt.): /4	1.25	Depth to Water (ft.): 8.94						
Depth to	Free Produ	uct:		Thickness of Free Product (feet):						
Reference		VC	Grade	Flow Cell	Type:	YSISS	6			
Purge Methe Sampling M		2" Grundfe Dedicated	Tubing		Peristatic Pump Bladder Pump New Tubing Other					
Start Purge	Time: <u>1</u> Z	29	Flow Rate:	100 mc/	min		Pump Depth:	[/		
Time	Temp.	pН	Cond. (mS/cm or µ8/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)		
1235	20.16	6.03	176	29	1.86	-194.3	600	9.00		
1238	20.21	6.03	176	25	1.88	-185.9	900	9.00		
1241	20.07	5.99	176	22	1.94	-178./	1200	9.00		
1244	20.07	5.99	ררן	20	1.91	-185.2	1500	9.00		
1247	20.08	5.98	179	18	1.92	-187.3	1800	9.00		
Did well	L dewater?	Yes	K6)	I	Amount	actually e	vacuated: 1.	80		
Sampling	, Time:	1248	?		Sampling	g Date:	8/24/17			
Sample I.	D.:6W-06		117-99-V	P-1	Laborato	ory:	TA	######################################		
Analyzed	for:	TPHAG	BEEK MTH	BE TRH.		Other:	See coc			
Equipmer	nt Blank I.		@ Time		Duplicat	e I.D.:				

Project #:	1708	24-01	01	Client:	AECO	M			
Sampler:	B			Gauging D	ate: 8/2	4/17			
Well I.D.:		P-2		Well Diameter (in.): 2 3 4 6 8					
Total Wel	ll Depth (f		. 71	Depth to Water (ft.): 8.59					
	Free Produ		(Thickness of Free Product (feet):					
Reference		(PVC)	Grade	Flow Cell		YSF	556		
Purge Metho Sampling M		2" Grundfo Dedicated	Tubing	Peristaltic Pump Bladder Pump New Tubing Other					
Start Purge	Гіте: <u>///</u>	4	Flow Rate:	100 M	<u>Umin</u>		Pump Depth:		
Time	Temp.	рН	Cond. (mS/cm or	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)	
1120	18.19	6.61	467	13	0.79	-215.5	600	8.62	
1123	18.35	6.60	468	10	0.79	-212.8	900	8.62	
1126	18.39	6.59	469	7	0.74	-215.9	1200	0.62	
1129	18.42	6.58	471	5	0.75	- 216.1	1500	8.62	
1032	18.44	6.58	472	4	0.75	-215.7	1800	8.62	
							······		
Did well	dewater?	Yes	No)	<u> </u>	Amount	actually e	vacuated:	·. 8L	
Sampling	g Time:	1/3	3		Sampling	g Date:	8/24/17		
			, 32417-Q-	VP-Z	Laborato	~	-A		
		TPHG		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Other:	(eecoc		
Analyzed				DE (rn-)	D. 1' '		Jecur		
Equipme	nt Blank I.	.D.:	Time		Duplicat	e I.D.:			

		LOW F	LOW WE	LL MONI	TORING	DATA S	SHEET	
Project #:	1708	24-01	?	Client:	AEcon	n		
Sampler:	Cp			Client: Gauging D	ate: 8/2	24/17		
Well I.D.:		-3		Well Diam	eter (in.)	2 3	<u>(4)</u> 6 8	
	ll Depth (f	t): /?	3. 43	Depth to W	Vater (ft.)	: 8	. 51	
	Free Produ			Thickness			et):	
Reference		frvg	Grade	Flow Cell				
Purge Metho Sampling M	od:	2" Grundfo Dedicated	os Pump Tuping	4	Peristatic P New Tubing	ump	Bladder Pump Other_	
Start Purge	Time: /140	0	Flow Rate: _	100 ml	min		Pump Depth:	//
Time	Temp.	pН	Cond. (mS/cm or (S/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1146	16.73	6.16	565	13	0.94	-209.1	600	8.56
1149	16.82	6.12	569	12	0.54	-209.4	900	8.56
1152	16.87	6.12	570	9	0.50	-213.5	1200	8-56
1155	16.84	6.14	575	7	0.47	-213.8	1500	8.56
1158	16.88	6.17	579	6	0.45	-213.4	1800	8.56
								•
	-							
Did well	dewater?	Yes	No		Amount	actually e	vacuated: /.	81
Sampling	g Time:	1159	1		Sampling	g Date:	8/24/17	
Sample I	.D.:0W-06	0493-082	eym-CP-1	1P-3	Laborato	ory: 7	A	
Analyzed		TPH-G	R	-		Other:	See Coc	
Equipme	nt Blank I	.D.:	@ Time		Duplicat	e I.D.:		

		LOW F	LOW WE	LL MONI	TORING	DATA S	SHEET	
Project #	: 170	824-	CP(Client:	AECO	M		<u></u>
Sampler:	О	2		Gauging D	ate: 8/:	24/17		
Well I.D.	: V	P-7		Well Diam	eter (in.)	: 2 3	A 6 8	·
Total We	ll Depth (f		.98	Depth to W				
Depth to	Free Produ	ıct:	······	Thickness				
Referenc		rv)	Grade	Flow Cell				······································
Purge Meth Sampling N		2" Grundfe Dedicated			Peristaltic Peristaltic		Bladder Pump Other_	
Start Purge	Time: <u>/02</u>	9	Flow Rate: _	100 m	e (min		Pump Depth:	·0′
Time	Temp. (°C)or °F)	pН	Cond. (mS/cm or	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or m2)	Depth to Water (ft.)
1035	17.26	6.45	562	30	0.90	-200.Z	600	9.05
1038	17.27	6.45	571	23	0.77	-209.6	900	9.05
1041	17.30	6.46	569	19	0.70	-209.4	1200	9.05
1044	17.33	6.48	573	15	0.68	-204.1	1500	9.05
1047	17.36	6.48	578	12	0.66	-206.2	1800	9.05
							X	
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			- - -					
Did well	dewater?	Yes (N)		Amount	actually e	vacuated: /	. 8८
Sampling	g Time:	1048			Sampling	g Date:	8/24/17	
Sample I	.D.:6W-06	0443-088	2417-01-V	P-7	Laborato	ry:	T-A	
Analyzed	l for:	THE	BE MTH	BE TREED		Other:	See coo	A
Equipme	nt Blank I.	D.:	@ Time		Duplicate	e I.D.:		

e.

		LOW F	LOW WE	LL MONI	TORING	DATA S	SHEET	
Project #:	170	824.	<i>2</i> 8 1	Client:				
Sampler:	q			Gauging D	Date: 81	24/17		
Well I.D.	: V	P-8		Well Diam	neter (in.)	: 2 3	(4) 6 8	
Total We	ll Depth (f	ì.): //). 75	Depth to V	Vater (ft.)	: 9.	64	
	Free Produ			Thickness				
Reference	ed to:	FVC	Grade	Flow Cell	Type:	15155	6	
Purge Metho Sampling M		2" Grundfe Dedicated	os Pump		Peristatic I New Tubin	Pump g	Bladder Pump Other_	
Start Purge	Time: 129	57	Flow Rate: _	100 mc/	min		Pump Depth:	12' 10'
Time	Temp.	pН	Cond. (mS/cm or (uS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. omL)	Depth to Water (ft.)
1303	17.54	6.42	1181	33	1.16	-202.1	600	9.71
1306	17.64	6.43	1199	19	0.58	-207.6	900	9.71
1309	17.72	6.45	1207	13	0.54	-210.5	1200	9.71
1312	17.74	6.46	1215	9	0.52	-211.2	1500	9.71
1315	17.74	6.48	1220	7	0.55	-212.0	1800	9.71
							- 	
								I
Did well	l dewater?	Yes	No)		Amount	actually e	vacuated: /	. 3(
Sampling	Time:	1316			Sampling	g Date:	8/24/17	
Sample I.	D.: 64-06	2) 493-08	32417.CA-	VP-8	Laborato		TA	
Analyzed	for:	TPH-G	BTE MTE	BE TRH-D		Other:	Seo Coc	
Equipmer	nt Blank I.	D.:	@ Time		Duplicat	e I.D.:		

П.П. П. Палев (клена) О.П. П. Палев (клена) О.П. BES P.O. R. Extension 0.0.1 353AF Project 10 0.0.1 BES P.O. R. Extension 0.0.1 0.0.1 0.0.1 0.0.1 RED RED M.O. N. M.O. N.M.Y.S. 0.0.1 0.0.1 0.0.1 RED M.O. N. M.O. N.M. M.O. N.M. M.O. N.M.M.S.S. M.O. N.M.O. N.M.M.S.S. 0.0.1 0.0.1 RED M.O. N.M. CONT M.O. N.M.Y.S.S. M.O. N.M.T.CONT M.O. N.M.T.CONT 0.0.1 M.O. N. M.M. M.O. N.M. M.M. M.S.S. M.O. N.M.T.CONT M.O. N.M.T.CONT M.O. N.M.T.CONT M.O. N.M.T.	LAB (LOCATION)			i.	ilon Enterp	rises LLU	dba on	eli Uli r	roducts	US Chain C	Equilon Enterprises LLC dba Shell Oil Products US Chain Of Custody Record	r Custody Record PlaNet Site or Project ID		CHECK IF NO INCIDENT # APPLIES	
(1 Image Im		· · · · · · ·	e Check Appl	Copriate Box:		10 1004			- Anina				DA	re: 8/24/17	
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Contract Contract (C)	ah Vendor # 1364589 (TestAmerica)	D RANSPORTATION										Δ.	COM Protect	/ Task Number:	
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International International International International International International International International <t< td=""><td>Maine Tech Services, Inc.</td><td></td><td>BTS</td><td>S</td><td>210</td><td>NE 45th</td><td>St., S</td><td>Seattle</td><td>41</td><td>PHONE NO.:</td><td>WA</td><td>E-WALL</td><td>0400</td><td>S</td><td></td></t<>	Maine Tech Services, Inc.		BTS	S	210	NE 45th	St., S	Seattle	41	PHONE NO.:	WA	E-WALL	0400	S	
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Image: Construction of the co					Rene	HER NAME(S) (Prit	AECOM.	seame,	MA				I AB USE	A TNO	
Obsets Data REGURESTED AMLYSIS 0.50x3 Data Data </td <td>FAX:</td> <td>enee Knecht</td> <td>MAIL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>raig</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td>	FAX:	enee Knecht	MAIL						raig		1				
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Editorial <		D DAYS	24 HOURS	ON WEE	END		UNIT	COST				DN-UNIT COST		EIEF D NOTES	T
Grant Control Control <thcontrol< th=""> <thcontrol< th=""> <thcon< td=""><td>TIA - RWOCB REPORT FORMAT</td><td>Washington Dept of Ecol</td><td>Аво</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>T</td></thcon<></thcontrol<></thcontrol<>	TIA - RWOCB REPORT FORMAT	Washington Dept of Ecol	Аво												T
Contin Jone R Jone R Jone R Jone R Contin Jone R Jone R<	CLEVEL 1 CLEVEL 2		HER (SPECIFY)			36								TEMPERATURE ON RECEIPT C°	EIPT C°
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Field Sample Identification Anti-Anti-Andrease Rest: Name Rest: Nam						MM E					. <u> </u>				
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G = Good (Acceptable) R = Replaced P = Poor (needs attention) NL = No Lock Required <u>Note: All repairs other than locks and gribpers require Shell PM approval prior to repair.</u> • = Groundwater monitoring well covers must be painted and tabeled in accordance with applicable regulations.	ceptable) ds attention) <u>other than locks</u> ionitoring well cov	R = Replaced NL = No Lock Required and arippers require Shell P ers must be painted and label	Iced Lock Req s require 5	luired Shell PM a 1 labeled in	<mark>oproval pric</mark> accordance	<u>or to repair</u> . with applica	ible regulati	ons.							All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above). $Oq_i \leftarrow Dof evr \\ Dot = Dot = Doronal & Consultant Connand$	noted in g	ood condition, above).
Version 2.4, March 2008	1 2008														Print or type Name of Fried Personner & Consultant Company		

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SOURCE RECORD **BILL OF LADING** FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT SHELL FACILITIES IN THE STATE OF WASHINGTON OR OREGON. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS, IS MADE UP INTO LOADS OF APPROPRIATE SIZE TO BE TRANSPORTED & PROCESSED BY A SHELL APPROVED WASTE HAULER.

The contractor performing this work is BLAINE TECH SERVICES, INC. 22727 72ND Ave South, Suite D – 102, Kent, WA 98032. Blaine Tech Services, Inc. is authorized by SHELL OIL COMPANY (SHELL) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the SHELL facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Shell facility to BTS; from one Shell facility to BTS via another Shell facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of SHELL.

This **Source Record BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the SHELL facility described below:

state Sattle Shell Engineer Perry Pineda くろせて street name 9,380622 210 NF street number INCIDENT #

WELL I.D. GALS.				any other adjustments /	loaded onto BTS vehicle #	e 1700 date 124 117	$\frac{1}{2}$ time $\frac{1}{2}$ $\frac{1}{2}$
WELL I.D. GALS. MW-2 1 0.5	MW-71 0.5 MW-91 0.5	VP-1 1 0.5	2.0 1 L-DV	Vワ- 8 / 0. 5 added equip. /. 0	TOTAL GALS. 5.0 RECOVERED	BTS event # time 176824-091 signature	RECEIVED AT BTS Kent unloaded by signature

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AECON		nterprises LLC dba iquilon) US SGW (U eting & Job Clearan	S)	Issue: 1/2/2011 Revision 11: October 2016 Do NOT pre-populate any field.
Job Location:	210 NE 45th St. Seattle WA	Date:	8/24/17	
AECOM Site Supervisor:	Craig Peterr	AECOM PM:	Renee	Kuecht
List activities to be performed <u>today</u> : Permitted Activities (specifi permit to be competed):	Groundwater Min.	d Space Entry L Excava with equipment, excluding c	tion/Trenching [Irill rigs) 🗌 Na	I Hot Work tural Gas System Maintenance
The above	Permit-required activities require on	site AECOM supervision	unless approved	by Regional Operations.
Muster Point:	Taco stand	Spill Kit Location:		Cab
First Aid Kit Location:	Cabinet	Fire Extinguisher Loc	cation:	Can
Emergency cut-off switches	s: Front of Station	Designated cell phor		In Can
Has the Site Manager/Owr	ner been notified of the work activitie	es and/or participated in a	pre-work site wa	alk? Pres No N/A
Is a fuel delivery scheduled	d for today? If yes, plan to Stop Wor	rk during fuel delivery.		
Has a site walk been perfo	ormed to identify additional hazards?			Yes No*
Have all personnel reviewe	ed and understand the site specific H	IASP?		
	Job Safety Analysis (JSA)?			Pres No*
	have JSAs for their activities?			
Have JSAs been reviewed	by the work team and newly identifi	ed hazards been added t	o the JSA?	Pes No*
Per our lone worker proces	other?			
Has a Safe Lift Plan been	☐ Yes ☐ No* → N/A			
Have all members of the w	vork team confirmed understanding of	of the work, hazards, and	controls/ mitigat	on?
Has each person on the w	ork team discussed all hazards and	mitigation measures asso	ociated with any	task
which will require their feet	operly cordoned-off to protect worker	s site staff and the nublic	-?	Tes No* N/A
	een completed, documented, and re			Tes No* N/A
Have equipment checks be	pment modifications made by subco	ntractor(s)2 le ves discus	smodifications	
	rk team have API Safety Keys (AEC)			
Do all members of the wor	rk team have a Shell "Life Saving Ru	los" Training card?		
Do all members of the wor	tand injury/ intervention reporting rec	uiromonto includina imm	odiately potifying	
AECOM Site Supervisor of	of any injury, near miss, unsafe condi	tion, hazard observation,	or release?	
If permits are required, hav	ve they been reviewed and permit c	onditions understood by t	he Team?	
If drilling, did driller physica	ally point out all pinch points to entir	e team (AECOM and all s	ubs)?	
If drilling, has the driller & d	crew agreed the audible and visible	signals for "all clear" prior	to engaging cor	ntrols?
* If No, then work cannot t	be performed until corrective action is co	mpleted and documented.		
Title of AECOM JSAs	Ground water Monito	Title of Subcontra	ctor's	

reviewed today:	Traffic Control JSAs reviewed today:	_
All personnel are wearing	Hard Hat Safety Glasses Safety Vest Steel-Toed Boots Gloves (appropriate for task)	
	See JSA for additional task specific PPE requirements.	

Stop Work Authority & Obligation

- * All employees will stop the job any time anyone is concerned or uncertain about safety.
- * All employees will stop the job if anyone identifies a hazard or additional mitigation not recorded on the JSA.
- * All employees will be alerted to any changes in personnel or conditions at the worksite.
- * All employees will stop the job and reassess a task, hazards, and mitigations, and then amend the JSA as needed.

Other Items Discussed Today:

wish required

Circle the Life Saving Rule Icons that are applicable to the work/activities that will take place today:





















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Follow prescribed Journey Management Plan

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AECOM Equilon Enterprises LLC dba Shell Oil Products (Equilon) US SGW (US)

Daily Tailgate Meeting & Job Clearance Form

SITE WORKERS (including AECOM Contractors and Subcontractors): By signing here, you are stating the following:

* You understand that compliance with Shell's Life Saving Rules is mandatory and that failing to follow to them may result in termination.

* You have been involved in reviewing the JSAs and understand the hazards and control measures associated with each task you are about to perform.

* You understand the permit to work requirements applicable to the work you are about to perform (if it includes permitted activities).

* You understand the Shell Life Saving Rules and are aware that tasks or work that is not risk-assessed shall not be performed.

* You are aware of your authority and obligation to 'Stop Work'.

I arrived and departed fit for duty:

* You are physically and mentally fit for duty,

* You are not under the influence of any type of medication, drugs, or alcohol that could affect your ability to work safely.

* You are aware of your responsibility to immediately report any illness, injury (regardless of where or when it occurred), or fatigue issue you may have to the AECOM Site Supervisor.

* You will sign-out uniniured unless you have otherwise informed the AECOM Site Supervisor.

Print Name & Company	(\$ignature)	Initials & Sign In Time	Initials & Sign Out Time		
Araia Peter BTS	have the	0713 In & Fit of	1330 Out & Fit of		
Craig Seter (51)	- Jul ja	In & Fit	Out & Fit		
		In & Fit	Out & Fit		
		In & Fit	Out & Fit		
		In & Fit	Out & Fit		

(Attach additional Site Worker sign-in/out sheets if needed)

PERSONAL SAFETY COM	MITMENT (Attach additional Personal Safety Commitment sheets, if needed)							
Print Name	"I will personally commit to do the following to positively improve site safety today":							
Grain Peterr	Safe Lifting (Manholer)							

VISITORS (attach ad	ditional Site Visitor sign-in/out sheets	s if needed)		
Print Name	Company Name	Arrival Time	Departure Time	Signature

		re must be requested. If the operator refuses to sign, note this on the Form)
Sign In: I have discussed this Job Clearance Form with	the contractor	Sign Out: I have discussed this Job Clearance Form with the contractor
Site Representative Name Site Represent	ative Signature	Site Representative Name Site Representative Signature
MONTY	1	Gianna Lindsey. Seen hicky
, viu		
TWILIGHT TOOL BOX TALK (Complete the	following once	field activities for the day have been concluded):
Were there any Incidents, Near Misses, Potential Incidents, or Positive Interventions today?	Yes No	If yes, provide details:
Were there any 'Stop Work' interventions?	Yes No	If yes, provide details:
Were there any areas for improvement noted?	Yes No	If yes, provide details:
Is the Site Manager/Owner happy with the way you left the site (including the location of waste drums and/or equipment)?	Yes No	If no, provide details:
I certify that the above information is true and the job site is being left in a safe condition	Ves No	AECOM Site Supervisor Signature:

Appendix B Analytical Reports and Chains of Custody



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: 590-5570-1

Client Project/Site: 210 NE 45th St., Seattle (60482000)

For:

AECOM, Inc. 1111 Third Ave Suite 1600 Seattle, Washington 98101

Attn: Renee Knecht

Candre Arrington

Authorized for release by: 2/28/2017 2:37:21 PM Randee Arrington, Project Manager II

(509)924-9200 randee.arrington@testamericainc.com

Review your project results through TOTALACCESS

..... Links



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.

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Job ID: 590-5570-1

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 2/24/2017 2:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA

Method 8260C: The sample duplicate precision for m,p-Xylene and Total Xylenes in the following sample associated with analytical batch 590-10881 was outside control limits: (590-5570-A-8 DU).

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

GC Semi VOA

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to gasoline overlap as well as heavily weathered diesel and /or biogenic interference in the following samples: GW-060493-022317-CP-VP-3 (590-5570-7) and GW-060493-022317-CP-VP-7 (590-5570-8).

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to gasoline overlap in the following sample: GW-060493-022317-CP-MW-6 (590-5570-3).

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to an individual peak and not a typical hydrocarbon pattern in the following samples: GW-060493-022317-CP-MW-2 (590-5570-1) and GW-060493-022317-CP-VP-8 (590-5570-9).

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: 210 NE 45th St., Seattle (60482000) TestAmerica Job ID: 590-5570-1

ab Sample ID	Client Sample ID	Matrix	Collected	Received
0-5570-1	GW-060493-022317-CP-MW-2	Water	02/23/17 13:04	02/24/17 14:40
90-5570-2	GW-060493-022317-CP-MW-3	Water	02/23/17 10:06	02/24/17 14:40
0-5570-3	GW-060493-022317-CP-MW-6	Water	02/23/17 12:04	02/24/17 14:40
0-5570-4	GW-060493-022317-CP-MW-9	Water	02/23/17 12:39	02/24/17 14:40
0-5570-5	GW-060493-022317-CP-VP-1	Water	02/23/17 10:34	02/24/17 14:40
)-5570-6	GW-060493-022317-CP-VP-2	Water	02/23/17 11:00	02/24/17 14:40
)-5570-7	GW-060493-022317-CP-VP-3	Water	02/23/17 11:33	02/24/17 14:40
)-5570-8	GW-060493-022317-CP-VP-7	Water	02/23/17 13:31	02/24/17 14:40
0-5570-9	GW-060493-022317-CP-VP-8	Water	02/23/17 14:00	02/24/17 14:40
)-5570-10	Trip Blank	Water	02/23/17 08:15	02/24/17 14:40

Method Summary

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle (60482000)

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

TestAmerica Job ID: 590-5570-1

Lab Sample ID: 590-5570-1

Lab Sample ID: 590-5570-3

Project/Site: 210 NE 45th St., Seattle (60482000)

Client Sample ID: GW-060493-022317-CP-MW-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.0782	J	0.124	0.0414	mg/L	1		NWTPH-Dx	Total/NA
Client Sample ID: GW-060493-022317-CP-MW-3					Lab	S	ample ID:	590-5570-	

Client Sample ID: GW-060493-022317-CP-MW-3

No Detections.

Client: AECOM, Inc.

Client Sample ID: GW-060493-022317-CP-MW-6

Analyte	Result Quali	ifier RL	MDL	Unit	Dil Fac D	Method	Prep Type
Benzene	32.0	1.00	0.200	ug/L	1	8260C	Total/NA
Ethylbenzene	183	1.00	0.190	ug/L	1	8260C	Total/NA
m-Xylene & p-Xylene	103	2.00	0.380	ug/L	1	8260C	Total/NA
p-Xylene	1.46	1.00	0.200	ug/L	1	8260C	Total/NA
Toluene	5.21	1.00	0.170	ug/L	1	8260C	Total/NA
Xylenes, Total	104	3.00	0.580	ug/L	1	8260C	Total/NA
Gasoline	2500	150	70.4	ug/L	1	NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.723	0.122	0.0405	mg/L	1	NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.0652 J	0.203	0.0608	mg/L	1	NWTPH-Dx	Total/NA

Client Sample ID: GW-060493-022317-CP-MW-9

No Detections.

Client Sample ID: GW-060493-022317-CP-VP-1

No Detections.

Client Sample ID: GW-060493-022317-CP-VP-2				Lab S	ample ID:	590-5570-6
Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.0424 J	0.123	0.0410 mg/L	1	NWTPH-Dx	Total/NA

Client Sample ID: GW-060493-022317-CP-VP-3

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	DI	Method	Prep Type
Gasoline	204	150	70.4	ug/L	1	1	NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.192	0.121	0.0403	mg/L	1	1	NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.105 J	0.201	0.0604	mg/L	1	1	NWTPH-Dx	Total/NA

Client Sample ID: GW-060493-022317-CP-VP-7

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Benzene	32.2	1.00	0.200	ug/L	1	8260C	Total/NA
Ethylbenzene	12.2	1.00	0.190	ug/L	1	8260C	Total/NA
m-Xylene & p-Xylene	8.75	2.00	0.380	ug/L	1	8260C	Total/NA
o-Xylene	1.97	1.00	0.200	ug/L	1	8260C	Total/NA
Toluene	3.58	1.00	0.170	ug/L	1	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Lab Sample ID: 590-5570-4

Lab Sample ID: 590-5570-5

Lab Sample ID: 590-5570-7

Lab Sample ID: 590-5570-8

Detection Summary

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle (60482000)

TestAmerica Job ID: 590-5570-1

Client Sample ID: GW-060493-022317-CP-VP-7 (Continued) Lab Sample ID: 590-5570-8

Analyte Xylenes, Total	Result Qualifier	RL 3.00	MDL Unit 0.580 ug/L	Dil Fac D	Method 8260C	Prep Type Total/NA
Gasoline	197	150	70.4 ug/L	1	NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.380	0.123	0.0410 mg/L	1	NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.375	0.205	0.0615 mg/L	1	NWTPH-Dx	Total/NA

Client Sample ID: GW-060493-022317-CP-VP-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Toluene	0.188	J	1.00	0.170	ug/L	1	8260C	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.328		0.126	0.0420	mg/L	1	NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.147	J	0.210	0.0629	mg/L	1	NWTPH-Dx	Total/NA

Client Sample ID: Trip Blank

No Detections.

Lab Sample ID: 590-5570-10

Lab Sample ID: 590-5570-9

This Detection Summary does not include radiochemical test results.

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle (60482000) TestAmerica Job ID: 590-5570-1

Client Sample ID: GW-060493-022317-CP-MW-2

Date Collected: 02/23/17 13:04 Date Received: 02/24/17 14:40

Lab Sample ID	: 590-5570-1
	Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ТВА	ND		10.0	3.90	ug/L			02/25/17 15:49	1
Benzene	ND		1.00	0.200	ug/L			02/25/17 15:49	1
Ethylbenzene	ND		1.00	0.190	ug/L			02/25/17 15:49	1
MTBE	ND		1.00	0.170	ug/L			02/25/17 15:49	1
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			02/25/17 15:49	1
o-Xylene	ND		1.00	0.200	ug/L			02/25/17 15:49	1
Toluene	ND		1.00	0.170	ug/L			02/25/17 15:49	1
Xylenes, Total	ND		3.00	0.580	ug/L			02/25/17 15:49	1
DIPE	ND		2.00	0.170	ug/L			02/25/17 15:49	1
TAME	ND		1.00	0.170	ug/L			02/25/17 15:49	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			02/25/17 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130					02/25/17 15:49	1
4-Bromofluorobenzene (Surr)	90		70 - 130					02/25/17 15:49	1
Dibromofluoromethane (Surr)	99		70 - 130					02/25/17 15:49	1
Toluene-d8 (Surr)	98		70 - 130					02/25/17 15:49	1

Method: NWTPH-Gx - Northwe	st - Volatile	e Petroleu	m Products	(GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			02/27/17 19:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		68.7 - 141			-		02/27/17 19:55	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)	0.0782	J	0.124	0.0414	mg/L		02/27/17 10:38	02/27/17 17:59	1
Residual Range Organics (RRO) (C25-C36)	ND		0.207	0.0621	mg/L		02/27/17 10:38	02/27/17 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	93		50 - 150				02/27/17 10:38	02/27/17 17:59	1
n-Triacontane-d62	98		50 - 150				02/27/17 10:38	02/27/17 17:59	1

Client Sample ID: GW-060493-022317-CP-MW-3 Date Collected: 02/23/17 10:06 Date Received: 02/24/17 14:40

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

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
ТВА	ND	10.0	3.90 ug/L			02/25/17 16:13	1
Benzene	ND	1.00	0.200 ug/L			02/25/17 16:13	1
Ethylbenzene	ND	1.00	0.190 ug/L			02/25/17 16:13	1
MTBE	ND	1.00	0.170 ug/L			02/25/17 16:13	1
m-Xylene & p-Xylene	ND	2.00	0.380 ug/L			02/25/17 16:13	1
o-Xylene	ND	1.00	0.200 ug/L			02/25/17 16:13	1
Toluene	ND	1.00	0.170 ug/L			02/25/17 16:13	1
Xylenes, Total	ND	3.00	0.580 ug/L			02/25/17 16:13	1
DIPE	ND	2.00	0.170 ug/L			02/25/17 16:13	1

TestAmerica Spokane

Lab Sample ID: 590-5570-2

Matrix: Water

TestAmerica Job ID: 590-5570-1

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle (60482000)

Client Sample ID: GW-060493-022317-CP-MW-3 Date Collected: 02/23/17 10:06 Date Received: 02/24/17 14:40

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			02/25/17 16:13	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			02/25/17 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					02/25/17 16:13	1
4-Bromofluorobenzene (Surr)	91		70 - 130					02/25/17 16:13	1
Dibromofluoromethane (Surr)	99		70 - 130					02/25/17 16:13	1
Toluene-d8 (Surr)	98		70 - 130					02/25/17 16:13	1
Method: NWTPH-Gx - North Analyte Gasoline		Qualifier	RL	MDL 70.4		D	Prepared	Analyzed 02/27/17 20:16	Dil Fac
Surrogate	%Recovery	Qualifier	Limits		-9		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		68.7 - 141					02/27/17 20:16	1
Method: NWTPH-Dx - North	west - Semi-V	olatile Pe	troleum Prod	ucts (GC	C)				
		olatile Pe Qualifier	troleum Prod _{RL}	lucts (GC MDL		D	Prepared	Analyzed	Dil Fac
Analyte Diesel Range Organics (DRO)				•	Únit	<u>D</u>	Prepared 02/27/17 10:38	Analyzed 02/27/17 18:16	Dil Fac
Analyte Diesel Range Organics (DRO) (C10-C25)	Result		RL	MDL	Únit mg/L	D	02/27/17 10:38		Dil Fac
Analyte Diesel Range Organics (DRO) (C10-C25) Residual Range Organics (RRO)	ResultND	Qualifier	RL 0.122	MDL 0.0406	Únit mg/L	<u>D</u>	02/27/17 10:38	02/27/17 18:16	Dil Fac 1 1 Dil Fac

Surroyate	/onecovery	Quaimer	LIIIIIIS	Fiepaieu	Analyzeu	Dii Fau
o-Terphenyl	89		50 - 150	02/27/17 10:38	02/27/17 18:16	1
n-Triacontane-d62	91		50 - 150	02/27/17 10:38	02/27/17 18:16	1

Client Sample ID: GW-060493-022317-CP-MW-6 Date Collected: 02/23/17 12:04 Date Received: 02/24/17 14:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ТВА	ND		10.0	3.90	ug/L			02/25/17 21:07	1
Benzene	32.0		1.00	0.200	ug/L			02/25/17 21:07	1
Ethylbenzene	183		1.00	0.190	ug/L			02/25/17 21:07	1
MTBE	ND		1.00	0.170	ug/L			02/25/17 21:07	1
m-Xylene & p-Xylene	103		2.00	0.380	ug/L			02/25/17 21:07	1
o-Xylene	1.46		1.00	0.200	ug/L			02/25/17 21:07	1
Toluene	5.21		1.00	0.170	ug/L			02/25/17 21:07	1
Xylenes, Total	104		3.00	0.580	ug/L			02/25/17 21:07	1
DIPE	ND		2.00	0.170	ug/L			02/25/17 21:07	1
TAME	ND		1.00	0.170	ug/L			02/25/17 21:07	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			02/25/17 21:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					02/25/17 21:07	1
4-Bromofluorobenzene (Surr)	91		70 - 130					02/25/17 21:07	1
Dibromofluoromethane (Surr)	98		70 - 130					02/25/17 21:07	1
Toluene-d8 (Surr)	94		70 - 130					02/25/17 21:07	1

Lab Sample ID: 590-5570-2 Matrix: Water

Lab Sample ID: 590-5570-3 Matrix: Water

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle (60482000)

Client Sample ID: GW-060493-022317-CP-MW-6 Date Collected: 02/23/17 12:04 Date Received: 02/24/17 14:40

Method: NWTPH-Gx - Northw Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	2500		150	70.4	ug/L			02/27/17 20:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		68.7 - 141					02/27/17 20:37	1
_ Method: NWTPH-Dx - Northw	ost - Somi-V	olatilo Po	troleum Proc	lucts (G(ור				
	est - Senn-v	olatile i e			,				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Diesel Range Organics (DRO) (C10-C25)	Result 0.723	Qualifier	RL 0.122	MDL 0.0405		D	Prepared 02/27/17 10:38	Analyzed 02/27/17 18:33	Dil Fac
Diesel Range Organics (DRO)					mg/L	D	· · · · · · · · · · · · · · · · · · ·	02/27/17 18:33	Dil Fac 1
Diesel Range Organics (DRO) (C10-C25) Residual Range Organics (RRO)	0.723	J	0.122	0.0405	mg/L	D	02/27/17 10:38	02/27/17 18:33	Dil Fac 1 1 Dil Fac
Diesel Range Organics (DRO) (C10-C25) Residual Range Organics (RRO) (C25-C36)	0.723	J	0.122	0.0405	mg/L	<u>D</u>	02/27/17 10:38 02/27/17 10:38	02/27/17 18:33 02/27/17 18:33 Analyzed	1

Client Sample ID: GW-060493-022317-CP-MW-9 Date Collected: 02/23/17 12:39 Date Received: 02/24/17 14:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ТВА	ND		10.0	3.90	ug/L			02/25/17 16:38	1
Benzene	ND		1.00	0.200	ug/L			02/25/17 16:38	1
Ethylbenzene	ND		1.00	0.190	ug/L			02/25/17 16:38	1
MTBE	ND		1.00	0.170	ug/L			02/25/17 16:38	1
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			02/25/17 16:38	1
o-Xylene	ND		1.00	0.200	ug/L			02/25/17 16:38	1
Toluene	ND		1.00	0.170	ug/L			02/25/17 16:38	1
Xylenes, Total	ND		3.00	0.580	ug/L			02/25/17 16:38	1
DIPE	ND		2.00	0.170	ug/L			02/25/17 16:38	1
TAME	ND		1.00	0.170	ug/L			02/25/17 16:38	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			02/25/17 16:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					02/25/17 16:38	1
4-Bromofluorobenzene (Surr)	91		70 - 130					02/25/17 16:38	1

Dibromofluoromethane (Surr) 99 70 - 130 02/25/17 16:38 Toluene-d8 (Surr) 98 70 - 130 02/25/17 16:38

Analyte		Qualifier	m Products (RL	MDL		D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			02/27/17 20:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		68.7 - 141			-		02/27/17 20:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	0	כ	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	ND		0.127	0.0424	mg/L			02/27/17 10:38	02/27/17 18:50	1
(C10-C25)										

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Lab Sample ID: 590-5570-4 Matrix: Water

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2/28/2017

TestAmerica Spokane

TestAmerica Job ID: 590-5570-1

Lab Sample ID: 590-5570-3 Matrix: Water

Client Sample ID: GW-060 Date Collected: 02/23/17 12:39 Date Received: 02/24/17 14:40		17-CP-M\	N-9				Lab Samp	le ID: 590-5 Matrix:	
Method: NWTPH-Dx - Northw	vest - Semi-V	olatile Pet	roleum Proc	lucts (G	C) (Conti	inued)			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Residual Range Organics (RRO) (C25-C36)	ND		0.212	0.0637	mg/L		02/27/17 10:38	02/27/17 18:50	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	93		50 - 150				02/27/17 10:38	02/27/17 18:50	
n-Triacontane-d62	98		50 - 150				02/27/17 10:38	02/27/17 18:50	
Client Sample ID: GW-060 Date Collected: 02/23/17 10:34 Date Received: 02/24/17 14:40		17-CP-VP	2-1				Lab Samp	le ID: 590-5 Matrix:	
Method: 8260C - Volatile Org				MD	11		Duran and	Anabarad	
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
ТВА	ND		10.0		ug/L			02/25/17 17:02	
Benzene	ND		1.00	0.200	-			02/25/17 17:02	
Ethylbenzene	ND		1.00	0.190	ug/L			02/25/17 17:02	
MTBE	ND		1.00	0.170	ug/L			02/25/17 17:02	
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			02/25/17 17:02	
o-Xylene	ND		1.00	0.200	ug/L			02/25/17 17:02	
Toluene	ND		1.00	0.170	ug/L			02/25/17 17:02	
Xylenes, Total	ND		3.00	0.580	ug/L			02/25/17 17:02	
DIPE	ND		2.00	0.170	ug/L			02/25/17 17:02	
TAME	ND		1.00	0.170	ug/L			02/25/17 17:02	
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			02/25/17 17:02	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					02/25/17 17:02	
4-Bromofluorobenzene (Surr)	91		70 - 130					02/25/17 17:02	
Dibromofluoromethane (Surr)	99		70 - 130					02/25/17 17:02	
Toluene-d8 (Surr)	97		70 - 130					02/25/17 17:02	
Method: NWTPH-Gx - Northw	vest - Volatile	Petroleur	n Products						
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
Gasoline	ND		150		ug/L	<u> </u>		02/27/17 21:18	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		68.7 - 141					02/27/17 21:18	
Method: NWTPH-Dx - Northw	vest - Semi-V	olatile Pet	roleum Proc	lucts (G	C)				
Analyte		Qualifier	RL		Únit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics (DRO) (C10-C25)	ND		0.122	0.0408	mg/L		02/27/17 10:38	02/27/17 19:08	
Residual Range Organics (RRO) (C25-C36)	ND		0.204	0.0612	mg/L		02/27/17 10:38	02/27/17 19:08	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	96		50 - 150				02/27/17 10:38	02/27/17 19:08	
n-Triacontane-d62	101		50 - 150						

Client: AECOM, Inc.

TestAmerica Job ID: 590-5570-1

TestAmerica Spokane

RL

10.0

MDL Unit

3.90 ug/L

TestAmerica Job ID: 590-5570-1

Analyzed

02/25/17 17:27

D

Prepared

Project/Site: 210 NE 45th St., Seattle (60482000) Client Sample ID: GW-060493-022317-CP-VP-2

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

Result Qualifier

ND

Date Collected: 02/23/17 11:00 Date Received: 02/24/17 14:40

Client: AECOM, Inc.

Analyte

TBA

	99		68.7 - 141					02/27/17 21:39	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			02/27/17 21:39	1
Method: NWTPH-Gx - North Analyte	Result	Qualifier	RL	MDĹ	Unit	D	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					02/25/17 17:27	1
Dibromofluoromethane (Surr)	100		70 - 130					02/25/17 17:27	1
4-Bromofluorobenzene (Surr)	92		70 - 130					02/25/17 17:27	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					02/25/17 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			02/25/17 17:27	1
TAME	ND		1.00	0.170	ug/L			02/25/17 17:27	1
DIPE	ND		2.00	0.170	0			02/25/17 17:27	
Xylenes, Total	ND		3.00	0.580	ug/L			02/25/17 17:27	1
Toluene	ND		1.00	0.170	ug/L			02/25/17 17:27	1
o-Xylene	ND		1.00	0.200	ug/L			02/25/17 17:27	
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			02/25/17 17:27	
MTBE	ND		1.00	0.170	ug/L			02/25/17 17:27	
Ethylbenzene	ND		1.00	0.190	ug/L			02/25/17 17:27	
Benzene					ug/L				

Analyte	Result	Qualifier	RL	MDL	Únit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	0.0424	J	0.123	0.0410	mg/L		02/27/17 10:38	02/27/17 19:42	1
Residual Range Organics (RRO) (C25-C36)	ND		0.205	0.0615	mg/L		02/27/17 10:38	02/27/17 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 150				02/27/17 10:38	02/27/17 19:42	1
n-Triacontane-d62	94		50 - 150				02/27/17 10:38	02/27/17 19:42	1

Client Sample ID: GW-060493-022317-CP-VP-3 Date Collected: 02/23/17 11:33 Date Received: 02/24/17 14:40

Method: 8260C - Volatile Or	rganic Compounds by GC/MS	
Analyto	Posult Qualifier	DI

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ТВА	ND		10.0	3.90	ug/L			02/25/17 17:51	1
Benzene	ND		1.00	0.200	ug/L			02/25/17 17:51	1
Ethylbenzene	ND		1.00	0.190	ug/L			02/25/17 17:51	1
MTBE	ND		1.00	0.170	ug/L			02/25/17 17:51	1
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			02/25/17 17:51	1
o-Xylene	ND		1.00	0.200	ug/L			02/25/17 17:51	1
Toluene	ND		1.00	0.170	ug/L			02/25/17 17:51	1
Xylenes, Total	ND		3.00	0.580	ug/L			02/25/17 17:51	1
DIPE	ND		2.00	0.170	ug/L			02/25/17 17:51	1

TestAmerica Spokane

Matrix: Water

Dil Fac

1

Lab Sample ID: 590-5570-7 Matrix: Water

TestAmerica Job ID: 590-5570-1

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle (60482000)

Client Sample ID: GW-060493-022317-CP-VP-3 Date Collected: 02/23/17 11:33 Date Received: 02/24/17 14:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TAME	ND		1.00	0.170	ug/L			02/25/17 17:51	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			02/25/17 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130					02/25/17 17:51	1
4-Bromofluorobenzene (Surr)	93		70 - 130					02/25/17 17:51	1
Dibromofluoromethane (Surr)	97		70 - 130					02/25/17 17:51	1
Toluene-d8 (Surr)	98		70 - 130					02/25/17 17:51	1
Method: NWTPH-Gx - Northw Analyte	Result	e Petroleu Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
				MDL	Unit ug/L	<u>D</u>	Prepared	Analyzed 02/27/17 22:00	Dil Fac
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared		1
Analyte Gasoline	Result 204	Qualifier	RL 150	MDL		<u>D</u>	<u> </u>	02/27/17 22:00	Dil Fac 1 Dil Fac
Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr)	Result 204 %Recovery 109	Qualifier Qualifier	RL 150 Limits 68.7 - 141	MDL 70.4	ug/L	<u>D</u>	<u> </u>	02/27/17 22:00 Analyzed	1
Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: NWTPH-Dx - Northw	Result 204 %Recovery 109 est - Semi-V	Qualifier Qualifier	RL 150 Limits 68.7 - 141	MDL 70.4	ug/L	D	<u> </u>	02/27/17 22:00 Analyzed	1
Analyte Gasoline Surrogate	Result 204 %Recovery 109 est - Semi-V	Qualifier Qualifier	RL 150 <i>Limits</i> 68.7 - 141 troleum Prod	MDL 70.4	ug/L		Prepared	02/27/17 22:00 Analyzed 02/27/17 22:00 Analyzed	Dil Fa

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	95		50 - 150	02/27/17 10:38	02/27/17 19:59	1
n-Triacontane-d62	97		50 - 150	02/27/17 10:38	02/27/17 19:59	1

Client Sample ID: GW-060493-022317-CP-VP-7 Date Collected: 02/23/17 13:31 Date Received: 02/24/17 14:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ТВА	ND		10.0	3.90	ug/L			02/27/17 15:09	1
Benzene	32.2		1.00	0.200	ug/L			02/27/17 15:09	1
Ethylbenzene	12.2		1.00	0.190	ug/L			02/27/17 15:09	1
MTBE	ND		1.00	0.170	ug/L			02/27/17 15:09	1
m-Xylene & p-Xylene	8.75		2.00	0.380	ug/L			02/27/17 15:09	1
o-Xylene	1.97		1.00	0.200	ug/L			02/27/17 15:09	1
Toluene	3.58		1.00	0.170	ug/L			02/27/17 15:09	1
Xylenes, Total	10.7		3.00	0.580	ug/L			02/27/17 15:09	1
DIPE	ND		2.00	0.170	ug/L			02/27/17 15:09	1
TAME	ND		1.00	0.170	ug/L			02/27/17 15:09	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			02/27/17 15:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130					02/27/17 15:09	1
4-Bromofluorobenzene (Surr)	92		70 - 130					02/27/17 15:09	1
Dibromofluoromethane (Surr)	99		70 - 130					02/27/17 15:09	1
Toluene-d8 (Surr)	98		70 - 130					02/27/17 15:09	1

TestAmerica Spokane

Lab Sample ID: 590-5570-7 Matrix: Water

Lab Sample ID: 590-5570-8

Matrix: Water

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle (60482000)

Client Sample ID: GW-060493-022317-CP-VP-7 Date Collected: 02/23/17 13:31 Date Received: 02/24/17 14:40

Method: NWTPH-Gx - Northw				• •	11:4:4	D	Dranavad	Anolymod	
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Gasoline	197		150	70.4	ug/L			02/28/17 00:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		68.7 - 141					02/28/17 00:24	1
Analyte Diesel Range Organics (DRO)	Result 0.380	Qualifier	RL	MDL 0.0410		D	Prepared 02/27/17 10:38	Analyzed 02/27/17 20:16	Dil Fac
Diesel Range Organics (DRO) (C10-C25) Residual Range Organics (RRO)	0.380		0.123	0.0410	0			02/27/17 20:16	1
(C25-C36)	0.375		0.205	0.0013	ilig/L		02/27/17 10:30	02/21/11/20.10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	95		50 - 150				02/27/17 10:38	02/27/17 20:16	1
n-Triacontane-d62	99		50 - 150				02/27/17 10:38	02/27/17 20:16	1

Client Sample ID: GW-060493-022317-CP-VP-8 Date Collected: 02/23/17 14:00 Date Received: 02/24/17 14:40

Analyte	Result Qu	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ТВА	ND		10.0	3.90	ug/L			02/25/17 15:24	1
Benzene	ND		1.00	0.200	ug/L			02/25/17 15:24	1
Ethylbenzene	ND		1.00	0.190	ug/L			02/25/17 15:24	1
MTBE	ND		1.00	0.170	ug/L			02/25/17 15:24	1
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			02/25/17 15:24	1
o-Xylene	ND		1.00	0.200	ug/L			02/25/17 15:24	1
Toluene	0.188 J		1.00	0.170	ug/L			02/25/17 15:24	1
Xylenes, Total	ND		3.00	0.580	ug/L			02/25/17 15:24	1
DIPE	ND		2.00	0.170	ug/L			02/25/17 15:24	1
TAME	ND		1.00	0.170	ug/L			02/25/17 15:24	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			02/25/17 15:24	1
Surrogate	%Recovery Qu	ualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130			-		02/25/17 15:24	1
4-Bromofluorobenzene (Surr)	92		70 - 130					02/25/17 15:24	1
Dibromofluoromethane (Surr)	100		70 - 130					02/25/17 15:24	1

Toluene-d8 (Surr)	99		70 - 130					02/25/17 15:24	1
Method: NWTPH-Gx - North	west - Volatile	e Petroleu	m Products	(GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			02/28/17 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		68.7 - 141			-		02/28/17 01:05	1

Method: NWTPH-Dx - Northwes	t - Semi-V	olatile Peti	roleum Proc	ducts (GC)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	0.328		0.126	0.0420	mg/L		02/27/17 10:38	02/27/17 20:33	1
(C10-C25)									

TestAmerica Job ID: 590-5570-1

Lab Sample ID: 590-5570-8

Matrix: Water

Lab Sample ID: 590-5570-9 Matrix: Water

Client Sample ID: GW-060 Date Collected: 02/23/17 14:00 Date Received: 02/24/17 14:40		17-CP-VF	2-8		Lab Sample ID: 590-5 Matrix:				
Method: NWTPH-Dx - Northw Analyte		olatile Pet Qualifier	roleum Proc _{RL}	•	C) (Conti Unit	i <mark>nued)</mark> D	Prepared	Analyzed	Dil Fa
Residual Range Organics (RRO) (C25-C36)	0.147		0.210	0.0629			·	02/27/17 20:33	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	99		50 - 150				02/27/17 10:38	02/27/17 20:33	
n-Triacontane-d62	103		50 - 150				02/27/17 10:38	02/27/17 20:33	1
Client Sample ID: Trip Bla Date Collected: 02/23/17 08:15 Date Received: 02/24/17 14:40 Method: 8260C - Volatile Orga Analyte	anic Compo	<mark>unds by G</mark> Qualifier	C/MS RL	MDL	Unit	D	ab Sample	e ID: 590-55 Matrix: Analyzed	
Benzene	ND		0.400	0.0930	ug/L			02/28/17 01:26	1
Ethylbenzene	ND		1.00	0.198	ug/L			02/28/17 01:26	1
Ethylbenzene m,p-Xylene	ND ND		1.00 2.00	0.198 0.280	-			02/28/17 01:26 02/28/17 01:26	1 1
,					ug/L				1 1 1
m,p-Xylene	ND		2.00	0.280	ug/L ug/L			02/28/17 01:26	1

TestAmerica Job ID: 590-5570-1

2/28/2017

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 125		02/28/17 01:26	1
4-Bromofluorobenzene (Surr)	99		69 - 120		02/28/17 01:26	1
Dibromofluoromethane (Surr)	107		80 - 120		02/28/17 01:26	1
Toluene-d8 (Surr)	102		80 - 120		02/28/17 01:26	1

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

Lab Sample ID: MB 590-10881/5 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA Analysis Batch: 10881 MB MB Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac Benzene ND 0.400 0.0930 ug/L 02/28/17 00:04 1 Ethylbenzene ND 0.198 ug/L 02/28/17 00:04 1.00 1 ND m,p-Xylene 2.00 0.280 ug/L 02/28/17 00:04 1 o-Xylene ND 1.00 0.162 ug/L 02/28/17 00:04 1 0.312 ug/L Toluene ND 1.00 02/28/17 00:04 1 Xylenes, Total ND 3.00 0.442 ug/L 02/28/17 00:04 1 MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac

1,2-Dichloroethane-d4 (Surr)	108	70 - 125	02/28/17 00:04 1
4-Bromofluorobenzene (Surr)	97	69 - 120	02/28/17 00:04 1
Dibromofluoromethane (Surr)	110	80 - 120	02/28/17 00:04 1
Toluene-d8 (Surr)	101	80 - 120	02/28/17 00:04 1

Lab Sample ID: LCS 590-10881/1003 Matrix: Water Analysis Batch: 10881

-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	10.0	10.63		ug/L		106	80 - 120	
Ethylbenzene	10.0	9.944		ug/L		99	80 - 120	
m,p-Xylene	10.0	9.945		ug/L		99	80 - 120	
o-Xylene	10.0	9.934		ug/L		99	80 - 120	
Toluene	10.0	10.33		ug/L		103	80 - 123	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 125
4-Bromofluorobenzene (Surr)	102		69 - 120
Dibromofluoromethane (Surr)	105		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: MB 490-410446/7 Matrix: Water Analysis Batch: 410446

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ТВА	ND		10.0	3.90	ug/L			02/25/17 15:00	1
Benzene	ND		1.00	0.200	ug/L			02/25/17 15:00	1
Ethylbenzene	ND		1.00	0.190	ug/L			02/25/17 15:00	1
MTBE	ND		1.00	0.170	ug/L			02/25/17 15:00	1
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			02/25/17 15:00	1
o-Xylene	ND		1.00	0.200	ug/L			02/25/17 15:00	1
Toluene	ND		1.00	0.170	ug/L			02/25/17 15:00	1
Xylenes, Total	ND		3.00	0.580	ug/L			02/25/17 15:00	1
DIPE	ND		2.00	0.170	ug/L			02/25/17 15:00	1
TAME	ND		1.00	0.170	ug/L			02/25/17 15:00	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.210	ug/L			02/25/17 15:00	1

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

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

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

TestAmerica Job ID: 590-5570-1

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

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

Prep Type: Total/NA

Lab Sample ID: MB 490-410446/7 Matrix: Water

Analysis Batch: 410446

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		02/25/17 15:00	1
4-Bromofluorobenzene (Surr)	91		70 - 130		02/25/17 15:00	1
Dibromofluoromethane (Surr)	100		70 - 130		02/25/17 15:00	1
Toluene-d8 (Surr)	98		70 - 130		02/25/17 15:00	1

Lab Sample ID: LCS 490-410446/3

Matrix: Water Analysis Batch: 410446

Spike LCS LCS	%Rec. Limits
Analysia Added Basult Overlifter Unit D % Bas	Limite
Analyte Added Result Qualifier Unit D %Rec	Linits
TBA 200 160.9 ug/L 80	54 ₋ 150
Benzene 20.0 18.53 ug/L 93	80 - 121
Ethylbenzene 20.0 19.27 ug/L 96	80 - 130
MTBE 20.0 18.38 ug/L 92	72 - 133
m-Xylene & p-Xylene 20.0 18.81 ug/L 94	80 - 141
o-Xylene 20.0 18.99 ug/L 95	80 - 127
Toluene 20.0 18.47 ug/L 92	80 - 126
DIPE 20.0 17.25 ug/L 86	61 - 142
TAME 20.0 18.19 ug/L 91	63 - 135
Ethyl tert-Butyl Ether (ETBE) 20.0 17.84 ug/L 89	63 - 135

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: LCSD 490-410446/4 Matrix: Water Analysis Batch: 410446

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
ТВА	200	131.1		ug/L		66	54 - 150	20	46
Benzene	20.0	18.79		ug/L		94	80 - 121	1	12
Ethylbenzene	20.0	19.27		ug/L		96	80 - 130	0	12
MTBE	20.0	18.45		ug/L		92	72 - 133	0	16
m-Xylene & p-Xylene	20.0	18.80		ug/L		94	80 - 141	0	12
o-Xylene	20.0	19.10		ug/L		95	80 - 127	1	11
Toluene	20.0	18.47		ug/L		92	80 - 126	0	13
DIPE	20.0	17.20		ug/L		86	61 - 142	0	14
TAME	20.0	18.70		ug/L		94	63 - 135	3	15
Ethyl tert-Butyl Ether (ETBE)	20.0	17.96		ug/L		90	63 - 135	1	15

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130

TestAmerica Spokane

Prep Type: Total/NA

QC Sample Results

Lab Sample ID: LCSD 490-410446/4

Matrix: Water

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

98

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TestAmerica Job ID: 590-5570-1

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

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Analysis Batch: 410446										
	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
Toluene-d8 (Surr)	96		70 - 130							
_ Lab Sample ID: MB 490-4	10624/7							Client Sam	ple ID: Method	d Blank
Matrix: Water									Prep Type: To	
Analysis Batch: 410624										
-		MB MB								
Analyte	Re	sult Qualifie	r	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ТВА		ND		10.0	3.90	ug/L			02/27/17 12:42	1
Benzene		ND		1.00	0.200	ug/L			02/27/17 12:42	1
Ethylbenzene		ND		1.00	0.190	ug/L			02/27/17 12:42	1
MTBE		ND		1.00	0.170	ug/L			02/27/17 12:42	1
m-Xylene & p-Xylene		ND		2.00	0.380	ug/L			02/27/17 12:42	1
o-Xylene		ND		1.00	0.200	ug/L			02/27/17 12:42	1
Toluene		ND		1.00	0.170	ug/L			02/27/17 12:42	1
Xylenes, Total		ND		3.00	0.580	ug/L			02/27/17 12:42	1
DIPE		ND		2.00	0.170	ug/L			02/27/17 12:42	1
TAME		ND		1.00	0.170	ug/L			02/27/17 12:42	1
Ethyl tert-Butyl Ether (ETBE)		ND		1.00	0.210	ug/L			02/27/17 12:42	1
		MB MB								
Surrogate	%Recov	very Qualifie	r Lim	its				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		95	70 -	130			-		02/27/17 12:42	1
4-Bromofluorobenzene (Surr)		92	70 -	130					02/27/17 12:42	1

Lab Sample ID: LCS 490-410624/3 Matrix: Water Analysis Batch: 410624

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

•	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
ТВА	200	158.9		ug/L		79	54 - 150	
Benzene	20.0	19.60		ug/L		98	80 - 121	
Ethylbenzene	20.0	20.82		ug/L		104	80 - 130	
МТВЕ	20.0	19.23		ug/L		96	72 - 133	
m-Xylene & p-Xylene	20.0	20.29		ug/L		101	80 - 141	
o-Xylene	20.0	20.60		ug/L		103	80 - 127	
Toluene	20.0	19.75		ug/L		99	80 - 126	
DIPE	20.0	18.10		ug/L		91	61 - 142	
TAME	20.0	18.93		ug/L		95	63 - 135	
Ethyl tert-Butyl Ether (ETBE)	20.0	18.86		ug/L		94	63 - 135	

70 - 130

70 - 130

	LCS I	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	97		70 - 130

TestAmerica Spokane

02/27/17 12:42

02/27/17 12:42

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

5

8 9

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

Matrix: Water									Prep Typ		
Analysis Batch: 410624			Spike		LCSD				%Rec.		RPI
Analyte			Spike Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
TBA			200	121.1	Quaimer			61	54 - 150	27	4
						ug/L					
Benzene			20.0	19.25		ug/L		96	80 - 121	2	1
Ethylbenzene			20.0	20.07		ug/L		100	80 - 130	4	1
MTBE			20.0	18.77		ug/L		94	72 - 133	2	1
m-Xylene & p-Xylene			20.0	19.76		ug/L		99	80 - 141	3	1
o-Xylene			20.0	19.99		ug/L		100	80 - 127	3	1
Toluene			20.0	19.22		ug/L		96	80 - 126	3	1
DIPE			20.0	17.96		ug/L		90	61 - 142	1	1
TAME			20.0	18.40		ug/L		92	63 - 135	3	1
Ethyl tert-Butyl Ether (ETBE)			20.0	18.32		ug/L		92	63 - 135	3	1
	LCSD I	CSD									
Surrogate	%Recovery		Limits								
1,2-Dichloroethane-d4 (Surr)	95	<u>duanno</u>	70 - 130								
4-Bromofluorobenzene (Surr)	92		70 - 130								
Dibromofluoromethane (Surr)	98		70 - 130								
	96		70 - 130								
ethod: NWTPH-Gx - _ab Sample ID: MB 590-1		· Volati	le Petroleu	m Pro	ducts (C	GC/MS)	Clie	ent Sam	ple ID: Me Prep Typ		
lethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water	0863/5		e Petroleu	m Proe	ducts (C	GC/MS)	Clie	ent Sam			
Toluene-d8 (Surr) Iethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863	0863/5	1B MB							Prep Typ	e: Tot	al/N/
lethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863 Analyte	0863/5 I Res	/IB MB ult Qualif	er F	RL.	MDL Unit	GC/MS)		ent Sam	Prep Typ	e: Tot	t <mark>al/N</mark> 4 Dil Fa
lethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863	0863/5 I Res	1B MB	er F						Prep Typ	e: Tot	t <mark>al/N</mark> / Dil Fa
lethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863 Analyte	0863/5 I Res	/IB MB ult Qualif	er F	RL.	MDL Unit				Prep Typ	e: Tot	t <mark>al/N</mark> / Dil Fa
lethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863 Analyte	0863/5 I Res	NB MB ult Qualif ND MB	er F 1	RL.	MDL Unit		Pi		Prep Typ	ed 11:33	Dil Fa
lethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863 Analyte Gasoline	0863/5	IB MB ult Qualif ND MB	er F 1	RL 50	MDL Unit		Pi	repared	Prep Typ Analyz	ed 11:33 ed	al/NA
lethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863 Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr)	0863/5	MB MB ult Qualif ND MB MB ery Qualif	er F 1: ier Limits	RL 50	MDL Unit	D	Pi	repared repared	Prep Typ <u>Analyz</u> 02/27/17 1 <u>Analyz</u> 02/27/17 1	ed 11:33 - ed 11:33 -	Dil Fa
Iethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863 Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 590-	0863/5	AB MB ult Qualif ND AB MB ery Qualif	er F 1: ier Limits	RL 50	MDL Unit	D	Pi	repared repared	Prep Typ <u>Analyza</u> 02/27/17 1 <u>Analyza</u> 02/27/17 1 : Lab Con	ed 11:33 - ed 11:33 - trol Sa	Dil Fa Dil Fa
Iethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863 Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 590- Matrix: Water	0863/5	AB MB ult Qualif ND AB MB ery Qualif	er F 1: ier Limits	RL 50	MDL Unit	D	Pi	repared repared	Prep Typ <u>Analyz</u> 02/27/17 1 <u>Analyz</u> 02/27/17 1	ed 11:33 - ed 11:33 - trol Sa	Dil Fa Dil Fa
lethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863 Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr)	0863/5	AB MB ult Qualif ND AB MB ery Qualif	er F 19 ier Limits 68.7 - 14	RL 50	MDL Unit 70.4 ug/L	D	Pi	repared repared	Prep Typ <u>Analyza</u> 02/27/17 7 <u>Analyza</u> 02/27/17 7 : Lab Con Prep Typ	ed 11:33 - ed 11:33 - trol Sa	Dil Fa Dil Fa
Iethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863 Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 590- Matrix: Water Analysis Batch: 10863	0863/5	AB MB ult Qualif ND AB MB ery Qualif	er F 19 79 79 70 70 70 70 70 70 70 70 70 70 70 70 70	RL 50 1	MDL Unit 70.4 ug/L	D Clien	Pi	repared repared nple ID	Prep Typ <u>Analyz</u> 02/27/17 1 <u>Analyz</u> 02/27/17 3 : Lab Con Prep Typ %Rec.	ed 11:33 - ed 11:33 - trol Sa	Dil Fa Dil Fa
Iethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863 Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 590- Matrix: Water Analysis Batch: 10863 Analysis Batch: 10863	0863/5	AB MB ult Qualif ND AB MB ery Qualif	er F 19 19 19 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	RL 50 1 LCS Result	MDL Unit 70.4 ug/L LCS	Clien Unit	Pi	repared repared mple ID %Rec	Analyze 02/27/17 1 Analyze 02/27/17 1 : Lab Com Prep Typ %Rec. Limits	ed 11:33 - ed 11:33 - trol Sa	Dil Fa Dil Fa
Iethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863 Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 590- Matrix: Water Analysis Batch: 10863	0863/5	AB MB ult Qualif ND AB MB ery Qualif	er F 19 79 79 70 70 70 70 70 70 70 70 70 70 70 70 70	RL 50 1	MDL Unit 70.4 ug/L LCS	D Clien	Pi	repared repared nple ID	Prep Typ <u>Analyz</u> 02/27/17 1 <u>Analyz</u> 02/27/17 3 : Lab Con Prep Typ %Rec.	ed 11:33 - ed 11:33 - trol Sa	Dil Fa Dil Fa
Iethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863 Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 590- Matrix: Water Analysis Batch: 10863 Analysis Batch: 10863	0863/5	MB MB ult Qualif ND MB MB MB ery Qualif 98	er F 19 19 19 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	RL 50 1 LCS Result	MDL Unit 70.4 ug/L LCS	Clien Unit	Pi	repared repared mple ID %Rec	Analyze 02/27/17 1 Analyze 02/27/17 1 : Lab Com Prep Typ %Rec. Limits	ed 11:33 - ed 11:33 - trol Sa	Dil Fa Dil Fa
Iethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863 Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 590- Matrix: Water Analysis Batch: 10863 Analysis Batch: 10863 Analysis Batch: 10863 Analysis Batch: 10863	0863/5	AB MB ult Qualif ND MB ery Qualif 98	er F 19 19 19 19 1000 1000	RL 50 1 LCS Result	MDL Unit 70.4 ug/L LCS	Clien Unit	Pi	repared repared mple ID %Rec	Analyze 02/27/17 1 Analyze 02/27/17 1 : Lab Com Prep Typ %Rec. Limits	ed 11:33 - ed 11:33 - trol Sa	Dil Fa Dil Fa
Iethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863 Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 590- Matrix: Water Analysis Batch: 10863 Analysis Batch: 10863	0863/5	AB MB ult Qualif ND MB ery Qualif 98	er F 19 19 19 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	RL 50 1 LCS Result	MDL Unit 70.4 ug/L LCS	Clien Unit	Pi	repared repared mple ID %Rec	Analyze 02/27/17 1 Analyze 02/27/17 1 : Lab Com Prep Typ %Rec. Limits	ed 11:33 - ed 11:33 - trol Sa	Dil Fa Dil Fa
Iethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863 Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 590- Matrix: Water Analysis Batch: 10863 Analysis Batch: 10863 Analyse Gasoline Surrogate 4-Bromofluorobenzene (Surr)	0863/5	AB MB ult Qualif ND MB ery Qualif 98	er F 19 19 19 19 10 10 10 1000 Limits	RL 50 1 LCS Result	MDL Unit 70.4 ug/L LCS	Clien Unit	P	repared mple ID <u>%Rec</u> 106	Prep Typ <u>Analyz</u> 02/27/17 1 <u>Analyz</u> 02/27/17 1 : Lab Com Prep Typ %Rec. Limits 80 - 120	ed 11:33	Dil Fa Dil Fa ample al/N/
Iethod: NWTPH-Gx - Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 10863 Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 590- Matrix: Water Analysis Batch: 10863 Analysis Batch: 10863 Analyse Gasoline	0863/5	AB MB ult Qualif ND MB ery Qualif 98	er F 19 19 19 19 10 10 10 1000 Limits	RL 50 1 LCS Result	MDL Unit 70.4 ug/L LCS	Clien Unit	P	repared mple ID <u>%Rec</u> 106	Analyze 02/27/17 1 Analyze 02/27/17 1 : Lab Com Prep Typ %Rec. Limits	ed 11:33	Dil Fa Dil Fa ample tal/N/

Analyte RL **Result Qualifier** MDL Unit D Prepared Analyzed Dil Fac 150 02/28/17 00:04 Gasoline ND 70.4 ug/L 1

QC Sample Results

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Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued) Lab Sample ID: MB 590-10882/5 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA **Analysis Batch: 10882** MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 68.7 - 141 02/28/17 00:04 97 1 Lab Sample ID: LCS 590-10882/1004 **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA** Analysis Batch: 10882 Spike LCS LCS %Rec. Analyte Added Result Qualifier Limits Unit D %Rec Gasoline 1000 979.1 ug/L 98 80 - 120 LCS LCS Limits Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 100 687_141 Lab Sample ID: 590-5570-8 DU Client Sample ID: GW-060493-022317-CP-VP-7 **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 10882** DU DU RPD Sample Sample Analyte **Result Qualifier Result Qualifier** Unit D RPD Limit Gasoline 197 154.4 ug/L 24 35 DU DU Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 68.7 - 141 97

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

Lab Sample ID: MB 590-1086 Matrix: Water Analysis Batch: 10864	61/1-А мв	МВ						Clie		ole ID: Method Prep Type: T Prep Batch	otal/NA
Analyte	Result	Qualifier	RL	ſ	MDL	Unit	D	Р	repared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.120	0.0	0400	mg/L		02/2	7/17 10:38	02/27/17 13:52	1
Residual Range Organics (RRO) (C25-C36)	ND		0.200	0.0	0600	mg/L		02/2	7/17 10:38	02/27/17 13:52	1
	МВ	MB									
Surrogate	%Recovery	Qualifier	Limits					P	repared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 150					02/2	7/17 10:38	02/27/17 13:52	1
n-Triacontane-d62	94		50 - 150					02/2	27/17 10:38	02/27/17 13:52	1
Lab Sample ID: LCS 590-108	61/2-A						Clien	t Sai	mple ID:	Lab Control	Sample
Matrix: Water Analysis Batch: 10864			Quilla							Prep Type: T Prep Batch	
			Spike	LCS				_	~ -	%Rec.	
Analyte			Added	Result	Qua	IITIEr	Unit	D	%Rec	Limits	
Diesel Range Organics (DRO) (C10-C25)			1.60	1.211			mg/L		76	50 - 150	
Residual Range Organics (RRO) (C25-C36)			1.60	1.267			mg/L		79	50 - 150	

Client Sample ID: Lab Control Sample Dup

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued) **Client Sample ID: Lab Control Sample** Prep Type: Total/NA Prep Batch: 10861

Prep Type: Total/NA

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Analysis Batch: 10864			
	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
o-Terphenyl	91		50 - 150
n-Triacontane-d62	94		50 - 150

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Lab Sample ID: LCSD 590-10861/3-A **Matrix: Water**

Lab Sample ID: LCS 590-10861/2-A

Matrix: Water

n-Triacontane-d62

Analysis Batch: 10864									Prep E	Batch: 1	10861
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Diesel Range Organics (DRO) (C10-C25)			1.60	1.122		mg/L		70	50 - 150	8	25
Residual Range Organics (RRO) (C25-C36)			1.60	1.281		mg/L		80	50 - 150	1	25
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
o-Terphenyl	96		50 - 150								

50 - 150

QC Association Summary

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle (60482000)

TestAmerica Job ID: 590-5570-1

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GC/MS VOA

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-5570-1	GW-060493-022317-CP-MW-2	Total/NA	Water	NWTPH-Gx	
590-5570-2	GW-060493-022317-CP-MW-3	Total/NA	Water	NWTPH-Gx	
590-5570-3	GW-060493-022317-CP-MW-6	Total/NA	Water	NWTPH-Gx	
590-5570-4	GW-060493-022317-CP-MW-9	Total/NA	Water	NWTPH-Gx	
590-5570-5	GW-060493-022317-CP-VP-1	Total/NA	Water	NWTPH-Gx	
590-5570-6	GW-060493-022317-CP-VP-2	Total/NA	Water	NWTPH-Gx	
590-5570-7	GW-060493-022317-CP-VP-3	Total/NA	Water	NWTPH-Gx	
MB 590-10863/5	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-10863/1004	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
nalysis Batch: 1088	81				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
590-5570-10	Trip Blank	Total/NA	Water	8260C	
MB 590-10881/5	Method Blank	Total/NA	Water	8260C	
LCS 590-10881/1003	Lab Control Sample	Total/NA	Water	8260C	
nalysis Batch: 108	82				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
590-5570-8	GW-060493-022317-CP-VP-7	Total/NA	Water	NWTPH-Gx	
590-5570-9	GW-060493-022317-CP-VP-8	Total/NA	Water	NWTPH-Gx	
MB 590-10882/5	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-10882/1004	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
590-5570-8 DU	GW-060493-022317-CP-VP-7	Total/NA	Water	NWTPH-Gx	
nalysis Batch: 4104	446				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
590-5570-1	GW-060493-022317-CP-MW-2	Total/NA	Water	8260C	
590-5570-2	GW-060493-022317-CP-MW-3	Total/NA	Water	8260C	
590-5570-3	GW-060493-022317-CP-MW-6	Total/NA	Water	8260C	
590-5570-4	GW-060493-022317-CP-MW-9	Total/NA	Water	8260C	
590-5570-5	GW-060493-022317-CP-VP-1	Total/NA	Water	8260C	
590-5570-6	GW-060493-022317-CP-VP-2	Total/NA	Water	8260C	
590-5570-7	GW-060493-022317-CP-VP-3	Total/NA	Water	8260C	
590-5570-9	GW-060493-022317-CP-VP-8	Total/NA	Water	8260C	
VIB 490-410446/7	Method Blank	Total/NA	Water	8260C	
LCS 490-410446/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-410446/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 410624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-5570-8	GW-060493-022317-CP-VP-7	Total/NA	Water	8260C	
MB 490-410624/7	Method Blank	Total/NA	Water	8260C	
LCS 490-410624/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-410624/4	Lab Control Sample Dup	Total/NA	Water	8260C	

GC Semi VOA

Prep Batch: 10861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-5570-1	GW-060493-022317-CP-MW-2	Total/NA	Water	3510C	

QC Association Summary

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle (60482000)

TestAmerica Job ID: 590-5570-1

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b Batch	
10861	
10861 10861	13

GC Semi VOA (Continued)

Prep Batch: 10861 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-5570-2	GW-060493-022317-CP-MW-3	Total/NA	Water	3510C	
590-5570-3	GW-060493-022317-CP-MW-6	Total/NA	Water	3510C	
590-5570-4	GW-060493-022317-CP-MW-9	Total/NA	Water	3510C	
590-5570-5	GW-060493-022317-CP-VP-1	Total/NA	Water	3510C	
590-5570-6	GW-060493-022317-CP-VP-2	Total/NA	Water	3510C	
590-5570-7	GW-060493-022317-CP-VP-3	Total/NA	Water	3510C	
590-5570-8	GW-060493-022317-CP-VP-7	Total/NA	Water	3510C	
590-5570-9	GW-060493-022317-CP-VP-8	Total/NA	Water	3510C	
MB 590-10861/1-A	Method Blank	Total/NA	Water	3510C	
LCS 590-10861/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 590-10861/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 10864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-5570-1	GW-060493-022317-CP-MW-2	Total/NA	Water	NWTPH-Dx	10861
590-5570-2	GW-060493-022317-CP-MW-3	Total/NA	Water	NWTPH-Dx	10861
590-5570-3	GW-060493-022317-CP-MW-6	Total/NA	Water	NWTPH-Dx	10861
590-5570-4	GW-060493-022317-CP-MW-9	Total/NA	Water	NWTPH-Dx	10861
590-5570-5	GW-060493-022317-CP-VP-1	Total/NA	Water	NWTPH-Dx	10861
590-5570-6	GW-060493-022317-CP-VP-2	Total/NA	Water	NWTPH-Dx	10861
590-5570-7	GW-060493-022317-CP-VP-3	Total/NA	Water	NWTPH-Dx	10861
590-5570-8	GW-060493-022317-CP-VP-7	Total/NA	Water	NWTPH-Dx	10861
590-5570-9	GW-060493-022317-CP-VP-8	Total/NA	Water	NWTPH-Dx	10861
MB 590-10861/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	10861
LCS 590-10861/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	10861
LCSD 590-10861/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	10861

Lab Sample ID: 590-5570-1

Lab Sample ID: 590-5570-2

Matrix: Water

Matrix: Water

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle (60482000)

Client Sample ID: GW-060493-022317-CP-MW-2

Date Collected: 02/23/17 13:04 Date Received: 02/24/17 14:40

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260C	Run	Dil Factor	Initial Amount 10 mL	Final Amount 10 mL	Batch Number 410446	Prepared or Analyzed 02/25/17 15:49	Analyst RP	Lab TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	10863	02/27/17 19:55	MRS	TAL SPK
Total/NA Total/NA	Prep Analysis	3510C NWTPH-Dx		1	241.7 mL	2 mL	10861 10864	02/27/17 10:38 02/27/17 17:59		TAL SPK TAL SPK

Client Sample ID: GW-060493-022317-CP-MW-3 Date Collected: 02/23/17 10:06 Date Received: 02/24/17 14:40

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	410446	02/25/17 16:13	RP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	10863	02/27/17 20:16	MRS	TAL SPK
Total/NA Total/NA	Prep Analysis	3510C NWTPH-Dx		1	246.4 mL	2 mL	10861 10864	02/27/17 10:38 02/27/17 18:16	NMI NMI	TAL SPK TAL SPK

Client Sample ID: GW-060493-022317-CP-MW-6 Date Collected: 02/23/17 12:04 Date Received: 02/24/17 14:40

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260C	Run	Dil Factor	Initial Amount 10 mL	Final Amount 10 mL	Batch Number 410446	Prepared or Analyzed 02/25/17 21:07	Analyst RP	Lab TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	10863	02/27/17 20:37	MRS	TAL SPK
Total/NA Total/NA	Prep Analysis	3510C NWTPH-Dx		1	246.7 mL	2 mL	10861 10864	02/27/17 10:38 02/27/17 18:33	NMI NMI	TAL SPK TAL SPK

Client Sample ID: GW-060493-022317-CP-MW-9 Date Collected: 02/23/17 12:39 Date Received: 02/24/17 14:40

Final Batch Batch Dil Initial Batch Prepared Prep Type Method Amount Amount Number or Analyzed Analyst Type Run Factor Lab Total/NA 10 mL 410446 02/25/17 16:38 RP Analysis 8260C 10 mL TAL NSH 1 Total/NA Analysis NWTPH-Gx 1 43 mL 43 mL 10863 02/27/17 20:58 MRS TAL SPK Total/NA Prep 3510C 235.6 mL 2 mL 10861 02/27/17 10:38 NMI TAL SPK Total/NA Analysis NWTPH-Dx 10864 02/27/17 18:50 NMI TAL SPK 1

Client Sample ID: GW-060493-022317-CP-VP-1 Date Collected: 02/23/17 10:34 Date Received: 02/24/17 14:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	410446	02/25/17 17:02	RP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	10863	02/27/17 21:18	MRS	TAL SPK

TestAmerica Spokane

Lab Sample ID: 590-5570-3 Matrix: Water

Lab Sample ID: 590-5570-4

Matrix: Water

Lab Sample ID: 590-5570-5 Matrix: Water

Lab Chronicle

TestAmerica Job ID: 590-5570-1

Lab Sample ID: 590-5570-6

Lab Sample ID: 590-5570-7

Matrix: Water

Matrix: Water

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle (60482000)

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			245.2 mL	2 mL	10861	02/27/17 10:38	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			10864	02/27/17 19:08	NMI	TAL SPK

Client Sample ID: GW-060493-022317-CP-VP-2 Date Collected: 02/23/17 11:00 Date Received: 02/24/17 14:40

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260C	Run	Dil Factor	Initial Amount 10 mL	Final Amount 10 mL	Batch Number 410446	Prepared or Analyzed 02/25/17 17:27	Analyst RP	Lab TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	10863	02/27/17 21:39	MRS	TAL SPK
Total/NA Total/NA	Prep Analysis	3510C NWTPH-Dx		1	243.8 mL	2 mL	10861 10864	02/27/17 10:38 02/27/17 19:42		TAL SPK TAL SPK

Client Sample ID: GW-060493-022317-CP-VP-3 Date Collected: 02/23/17 11:33 Date Received: 02/24/17 14:40

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	10 mL	10 mL	410446	02/25/17 17:51	RP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	10863	02/27/17 22:00	MRS	TAL SPK
Total/NA	Prep	3510C			248.2 mL	2 mL	10861	02/27/17 10:38	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			10864	02/27/17 19:59	NMI	TAL SPK

Client Sample ID: GW-060493-022317-CP-VP-7 Date Collected: 02/23/17 13:31 Date Received: 02/24/17 14:40

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260C	Run	Dil Factor	Initial Amount 10 mL	Final Amount 10 mL	Batch Number 410624	Prepared or Analyzed 02/27/17 15:09	Analyst KS	Lab TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	10882	02/28/17 00:24	MRS	TAL SPK
Total/NA Total/NA	Prep Analysis	3510C NWTPH-Dx		1	244 mL	2 mL	10861 10864	02/27/17 10:38 02/27/17 20:16		TAL SPK TAL SPK

Client Sample ID: GW-060493-022317-CP-VP-8 Date Collected: 02/23/17 14:00 Date Received: 02/24/17 14:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	410446	02/25/17 15:24	RP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	10882	02/28/17 01:05	MRS	TAL SPK
Total/NA Total/NA	Prep Analysis	3510C NWTPH-Dx		1	238.3 mL	2 mL	10861 10864	02/27/17 10:38 02/27/17 20:33		TAL SPK TAL SPK

Lab Sample ID: 590-5570-8 Matrix: Water

Lab Sample ID: 590-5570-9 Matrix: Water

TestAmerica Spokane

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle (60482000)

Client Sam	ple ID: Trip	Blank					L	ab Sample	ID: 590	-5570-10
Date Collecte	d: 02/23/17 0	8:15							Ma	trix: Water
Date Receive	d: 02/24/17 1	4:40								
_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	10881	02/28/17 01:26	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: 210 NE 45th St., Seattle (60482000)

|1 |2 |3

Qualifiers

GC/MS VOA

Project/Site: 2	210 NE 45th St., Seattle (60482000)	
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.	5
GC Semi VO	A	
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.	
¤	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	1
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: 210 NE 45th St., Seattle (60482000)

TestAmerica Job ID: 590-5570-1

Laboratory: TestAmerica Spokane Unless otherwise noted, all analytes for this laboratory were covered under each certification below. Authority **Certification ID Expiration Date** Program **EPA Region** Washington State Program 10 C569 01-06-18 5 Analysis Method Prep Method Matrix Analyte Laboratory: TestAmerica Nashville The certifications listed below are applicable to this report. Authority Program **EPA Region Certification ID Expiration Date** Washington State Program 10 C789 07-19-17

TestAmerica Spokane

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						CONT.	H2SO4 NONE OTHER	HCL HNO3 H		DATE TIME		UNE
						NO. OF	PRESERVATIVE	PRE	MATRIX	SAMPLING	Field Sample Identification	
2.1.2.2.00.4 Container PID Readings or Laboratory Notes	5 Oxygenates	WA - NWTPH-Gx	LAB-38 TAME LAB-39 ETBE 794-	LAB-36 TBA LAB-37 DIPE	SI LAB-123 - WA NWI LAB-35 MTBE LAB-36 TBA	LAB-55 BTEX	CBHELL CONTRACT RATE APPLIES TATE REINNUSSEMENT RATE APPLIES EDD NOT NEEDED RECEIPT VERIFICATION REQUESTED PROVIDE LEDD DISK	BHELL CONTRACT RATE APPLIES STATE REIMBURSEMENT RATE APPLI EDD NOT NEEDED RECEIPT VERIFICATION REQUESTED PROVIDE LEDD DISK	BHELL CO BOO NOT RECEIPT PROVIDE		OR NOTES :	SPECIAL INSTRUCTIONS OR NOTES :
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TEMPERATURE ON RECEIPT C*				-	er			3	DTHER (SPECIFY)	Devel 4 D	JEVEL 2 DEVEL 3 C	DELIVERABLES: LEVEL 1
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LAB USE ONLY	renee.knecht@aecom.com	206-438-2371		ECOM, Seat	SAMPLER NAME(S) (Prive)	Re				Renee Knecht		PROJECT CONTACT (Naidcopy or PDF Report to)
	a month										CA, 95112	1680 Rogers Ave., San Jose, CA, 95112
60482000			e	St., Seat	210 NE 45th St., Seattl	21		BTSS			Inc.	Blaine Tech Services, Inc
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TestAmerica		
THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN	COOLER RECEIPT FORM	
Cooler Received/Opened On_02-25-2017	@ 09:20	590-5570 Chain of Custody
	Co: 30 Time Samples Placed In Storag	ie 11°50′ (2 Hour Window)
	t Chlorine Strip Lot	
2. Temperature of rep. sample or temp b		
3. If Item #2 temperature is 0°C or less, w	vas the representative sample or temp blan	k frozen? YES NO. (NA)
4. Were custody seals on outside of cool	ier?	YES NO NA
If yes, how many and where:	(trant)	
5. Were the seals intact, signed, and date	ed correctly?	YES)NONA
6. Were custody papers inside cooler?		YES NONA
I certify that I opened the cooler and answ	vered questions 1-6 (initial)	KI
7. Were custody seals on containers:	YES NO and Inta	ct YESNO. NA
Were these signed and dated correctly	1?	YESNONA
8. Packing mat'l used? Bubblewrap Pla	stic bag Peanuts Vermiculite Foam Inse	ert Paper Other None
9. Cooling process:	dce lce-pack Ice (direct contact)	Dry ice Other None
10. Did all containers arrive in good conc	lition (unbroken)?	YESNONA
11. Were all container labels complete (#,	, date, signed, pres., etc)?	Ses NONA
12. Did all container labels and tags agree	e with custody papers?	YES NO NA
13a. Were VOA vials received?		(YESNO VA) 2-25-17
b. Was there any observable headspac	e present in any VOA vial?	YES. NO NA
14. Was there a Trip Blank in this cooler?	YESKONA If multiple coolers	, sequence #
I certify that I unloaded the cooler and ans	swered questions 7-14 (initial)	Ca
15a. On pres'd bottles, did pH test strips	suggest preservation reached the correct p	Hievel? YESNONA
b. Did the bottle labels indicate that the	e correct preservatives were used	YES NO NA
16. Was residual chlorine present?		YESNO. NA
I certify that I checked for chlorine and pH	as per SOP and answered questions 15-16	<u>(initial)</u>
17. Were custody papers properly filled o	ut (ink, signed, etc)?	YESNONA
18. Did you sign the custody papers in the	e appropriate place?	YESNONA
19. Were correct containers used for the a	analysis requested?	TESNONA
20. Was sufficient amount of sample sent	in each container?	YESNONA
I certify that I entered this project into LIM	S and answered questions 17-20 (initial)	α
I certify that I attached a label with the unit	que LIMS number to each container (initial)	On
21. Were there Non-Conformance issues a	at login? YES 😡 Was a NCM generated	? YESNO#

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TestAmerica Spokane								ວ ອ		Toct A	TectAmerica
11922 East 1st Ave Spokane, WA 99206 Bhono /500 002 000 Eav /500 024 0000	C	hain of (Chain of Custody Record	Record						THE LEADER IN EN	THE LEADER IN ENVIRONMENTAL TESTING
Client Information (Sub Contract Lab)	Sampler:		La	Lab PM: Arrington, Randee	lee E		_			COC No: 590-2502.1	
	Phone:		E-	E-Mail: randee.arrington@testamericai	n@testame	icainc.com	State of Origin: Washington			Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc				Accreditation State Prop	Accreditations Required (See note): State Program - Washington	e note): ington				Job #: 590-5570-1	
Address: 2960 Foster Creighton Drive,	Due Date Requested: 3/8/2017					ysis	Requested			Preservation Codes:	es: M - Hexane
City: Nashville	TAT Requested (days):	s):									0 - AsNaO2
State, Zip: TN, 37204										D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3 R - Na2SO3
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #									or Acid	S - H2SO4 T - TSP Dodecahydrate
	WO#			X(d))					rs	I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: 210 NE 45th St., Seattle (60482000)	Project #: 59000794			രടത					ntaine	L-EDA	Z - other (specify)
Site:	SSOW#:			SD (M	,				of co	Other:	
		Sample (C=	Sample Matrix Type ^{(W=water,} S=solid,	d Filtered (6mm/MS// 0C/5030C (N					al Number		
Sample Identification - Client ID (Lab ID)	Sample Date		G=grab) BT=Tissue, A=Air	Fie Fie	-		-		То	Special In	Special Instructions/Note:
		<u> </u>	Preservation Code:	X					X		
GW-060493-022317-CP-MW-2 (590-5570-1)	2/23/17	13:04 Pacific	Water	×					2		
GW-060493-022317-CP-MW-3 (590-5570-2)	2/23/17	10:06 Pacific	Water	×					Ņ		
GW-060493-022317-CP-MW-6 (590-5570-3)	2/23/17	12:04 Pacific	Water	×					2		
GW-060493-022317-CP-MW-9 (590-5570-4)	2/23/17	12:39 Pacific	Water	×					N		
GW-060493-022317-CP-VP-1 (590-5570-5)	2/23/17	10:34 Pacific	Water	×					2		
GW-060493-022317-CP-VP-2 (590-5570-6)	2/23/17	11:00 Pacific	Water	×					Ŋ		
GW-060493-022317-CP-VP-3 (590-5570-7)	2/23/17	11:33 Pacific	Water	×					2		
GW-060493-022317-CP-VP-7 (590-5570-8)	2/23/17	13:31 Pacific	Water	×					2		
GW-060493-022317-CP-VP-8 (590-5570-9)	2/23/17	14:00 Pacific	Water	×					2		
Note: Since laboratory accreditations are subject to change. TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, inc.	ratories, Inc. places the o ssts/matrix being analyze ent to date, return the sig	wnership of metho d, the samples mu: jned Chain of Cust	d, analyte & accredit st be shipped back to ody attesting to said o	ation compliance the TestAmeric complicance to T	a laboratory or estAmerica Lal	ontract laboratori other instructions boratories, Inc.	es. This sample : will be provided.	shipment is forwa Any changes to	arded under accreditatio	r chain-of-custody. If on status should be bi	the laboratory does not rought to TestAmerica
Possible Hazard Identification				Samp	Sample Disposal (A		be assessed if san	i f samples ai / Lab	e retaine	fee may be assessed if samples are retained longer than 1 month)	month) Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank:	ble Rank: 2		Specia	Special Instructions/Q	s/QC Requirements:	ments:			5	
Empty Kit Relinquished by:	/	Date:		Time:			Metho	Method of Shipment:			
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Date/Time:

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Date/Time:

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,Q , N

Cooler Temperature(s) °C and Other Remarks:

Custody Seals Intact: ∆ Yes ∆ No

Custody Seal No.:

Login Sample Receipt Checklist

Client: AECOM, Inc.

Login Number: 5570 List Number: 1 Creator: Kratz, Sheila J

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td>Lab does not accept radioactive samples.</td>	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 590-5570-1

List Source: TestAmerica Spokane

Login Sample Receipt Checklist

Client: AECOM, Inc.

Login Number: 5570 List Number: 2 Creator: West, Derrick D

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
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	
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	



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: 590-6917-1

Client Project/Site: 210 NE 45th St., Seattle/60527984

For:

AECOM, Inc. 1111 Third Ave Suite 1600 Seattle, Washington 98101

Attn: Renee Knecht

Candre Arrington

Authorized for release by: 8/30/2017 10:31:23 AM Randee Arrington, Project Manager II (509)924-9200

randee.arrington@testamericainc.com

Review your project results through TOTOLACCESS Have a Question?

..... Links

Visit us at: www.testamericainc.com

The

Expert

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.

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

Job ID: 590-6917-1

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 8/25/2017 12:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3° 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: The method blank for preparation batch 590-13583 and analytical batch 590-13591 contained Diesel Range Organics (DRO) (C10-C25) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to gasoline overlap in the following samples: GW-060493-082417-CP-MW-2 (590-6917-1), GW-060493-082417-CP-MW-6 (590-6917-3), GW-060493-082417-CP-VP-3 (590-6917-6), GW-060493-082417-CP-VP-7 (590-6917-7) and GW-060493-082417-CP-VP-8 (590-6917-8).

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: 210 NE 45th St., Seattle/60527984 TestAmerica Job ID: 590-6917-1

Lab Sample ID	Client Sample ID	Matrix	Collected R	eceived
590-6917-1	GW-060493-082417-CP-MW-2	Water	08/24/17 12:23 08/2	25/17 12:10
590-6917-2	GW-060493-082417-CP-MW-3	Water	08/24/17 10:25 08/2	25/17 12:10
590-6917-3	GW-060493-082417-CP-MW-6	Water	08/24/17 08:57 08/2	25/17 12:10
590-6917-4	GW-060493-082417-CP-VP-1	Water	08/24/17 12:48 08/2	25/17 12:10
590-6917-5	GW-060493-082417-CP-VP-2	Water	08/24/17 11:33 08/2	25/17 12:10
590-6917-6	GW-060493-082417-CP-VP-3	Water	08/24/17 11:59 08/2	25/17 12:10
590-6917-7	GW-060493-082417-CP-VP-7	Water	08/24/17 10:48 08/2	25/17 12:10
590-6917-8	GW-060493-082417-CP-VP-8	Water	08/24/17 13:16 08/2	25/17 12:10
590-6917-9	Trip Blank	Water	08/24/17 07:15 08/2	25/17 12:10

Method Summary

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle/60527984

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 Sample ID: GW-060493-082417-CP-MW-2

Lab Sample ID: 590-6917-1

Lab Sample ID: 590-6917-2

Lab Sample ID: 590-6917-3

5 6 7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Benzene	0.279	J	0.400	0.0930	ug/L	1	8260C	Total/NA
Ethylbenzene	288		10.0	1.98	ug/L	10	8260C	Total/NA
m,p-Xylene	37.4		2.00	0.280	ug/L	1	8260C	Total/NA
o-Xylene	1.98		1.00	0.162	ug/L	1	8260C	Total/NA
Toluene	1.84		1.00	0.312	ug/L	1	8260C	Total/NA
Xylenes, Total	39.4		3.00	0.442	ug/L	1	8260C	Total/NA
Gasoline	3220		150	70.4	ug/L	1	NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) _(C10-C25)	1.22	В	0.251	0.0838	mg/L	1	NWTPH-Dx	Total/NA

Client Sample ID: GW-060493-082417-CP-MW-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.417	J	1.00	0.198	ug/L	1	_	8260C	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.151	JB	0.252	0.0841	mg/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GW-060493-082417-CP-MW-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Benzene	68.1		0.400	0.0930	ug/L	1	8260C	Total/NA
Ethylbenzene	284		10.0	1.98	ug/L	10	8260C	Total/NA
m,p-Xylene	267		20.0	2.80	ug/L	10	8260C	Total/NA
o-Xylene	5.21		1.00	0.162	ug/L	1	8260C	Total/NA
Toluene	11.9		1.00	0.312	ug/L	1	8260C	Total/NA
Xylenes, Total	272		30.0	4.42	ug/L	10	8260C	Total/NA
Gasoline	4580		150	70.4	ug/L	1	NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	1.21	В	0.252	0.0841	mg/L	1	NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.481		0.421	0.126	mg/L	1	NWTPH-Dx	Total/NA

Client Sample ID: GW-060	493-08241	7-CP-VP-	·1			Lab	S	ample ID:	590-6917-4
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.163	JB	0.259	0.0864	mg/L	1	_	NWTPH-Dx	Total/NA

Client Sample ID: GW-060)493-0824 [°]	17-CP-VP-	2			Lab	S	ample ID:	590-6917-5
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO) (C10-C25)	0.210	JB	0.254	0.0846	mg/L	1	_	NWTPH-Dx	Total/NA

Client Sample ID: GW-060493-082417-CP-VP-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.607		0.400	0.0930	ug/L	1	_	8260C	Total/NA
o-Xylene	0.271	J	1.00	0.162	ug/L	1		8260C	Total/NA
Toluene	3.12		1.00	0.312	ug/L	1		8260C	Total/NA
Gasoline	335		150	70.4	ug/L	1		NWTPH-Gx	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Spokane

Lab Sample ID: 590-6917-6

Detection Summary

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle/60527984

Lab Sample ID: 590-6917-7

Lab Sample ID: 590-6917-8

Lab Sample ID: 590-6917-9

Client Sample ID: GW-060493-082417-CP-VP-3 (Continued) Lab Sample ID: 590-6917-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Diesel Range Organics (DRO)	1.89	В	0.266	0.0886	mg/L	1	NWTPH-Dx	Total/NA
(C10-C25)								
Residual Range Organics (RRO)	0.173	J	0.443	0.133	mg/L	1	NWTPH-Dx	Total/NA
(C25-C36)								

Client Sample ID: GW-060493-082417-CP-VP-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Benzene	1840		8.00	1.86	ug/L	20	8260C	Total/NA
Ethylbenzene	677		20.0	3.96	ug/L	20	8260C	Total/NA
m,p-Xylene	1270		40.0	5.60	ug/L	20	8260C	Total/NA
o-Xylene	326		20.0	3.24	ug/L	20	8260C	Total/NA
Toluene	385		20.0	6.24	ug/L	20	8260C	Total/NA
Xylenes, Total	1600		60.0	8.84	ug/L	20	8260C	Total/NA
Gasoline	12100		3000	1410	ug/L	20	NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	2.32	В	0.261	0.0868	mg/L	1	NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.580		0.434	0.130	mg/L	1	NWTPH-Dx	Total/NA

Client Sample ID: GW-060493-082417-CP-VP-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Ethylbenzene	0.240	J	1.00	0.198	ug/L	1	8260C	Total/NA
m,p-Xylene	0.419	J	2.00	0.280	ug/L	1	8260C	Total/NA
o-Xylene	0.296	J	1.00	0.162	ug/L	1	8260C	Total/NA
Xylenes, Total	0.715	J	3.00	0.442	ug/L	1	8260C	Total/NA
Gasoline	98.5	J	150	70.4	ug/L	1	NWTPH-Gx	Total/NA
Diesel Range Organics (DRO) (C10-C25)	3.12	В	0.250	0.0832	mg/L	1	NWTPH-Dx	Total/NA
Residual Range Organics (RRO) (C25-C36)	0.243	J	0.416	0.125	mg/L	1	NWTPH-Dx	Total/NA

Client Sample ID: Trip Blank

No Detections.

TestAmerica Job ID: 590-6917-1

Client Sample ID: GW-060493-082417-CP-MW-2

Date Collected: 08/24/17 12:23 Date Received: 08/25/17 12:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.279	J	0.400	0.0930	ug/L			08/28/17 16:47	1
Ethylbenzene	288		10.0	1.98	ug/L			08/29/17 12:46	10
m,p-Xylene	37.4		2.00	0.280	ug/L			08/28/17 16:47	1
o-Xylene	1.98		1.00	0.162	ug/L			08/28/17 16:47	1
Toluene	1.84		1.00	0.312	ug/L			08/28/17 16:47	1
Xylenes, Total	39.4		3.00	0.442	ug/L			08/28/17 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 125					08/28/17 16:47	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 125					08/29/17 12:46	10
4-Bromofluorobenzene (Surr)	99		69 - 120					08/28/17 16:47	1
4-Bromofluorobenzene (Surr)	99		69 - 120					08/29/17 12:46	10
Dibromofluoromethane (Surr)	91		80 - 120					08/28/17 16:47	1
Dibromofluoromethane (Surr)	107		80 - 120					08/29/17 12:46	10
Toluene-d8 (Surr)	93		80 - 120					08/28/17 16:47	1
Toluene-d8 (Surr)	100		80 - 120					08/29/17 12:46	10
Method: NWTPH-Gx - North	west - Volatile	e Petroleu	m Products	(GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	3220		150	70.4	ug/L			08/28/17 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		68.7 - 141					08/28/17 16:47	1
Method: NWTPH-Dx - North	vest - Semi-V	olatile Pe	troleum Proc	lucts (G	C)				
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	1.22	В	0.251	0.0838	mg/L		08/29/17 09:40	08/29/17 16:16	1
Residual Range Organics (RRO) (C25-C36)	ND		0.419	0.126	mg/L		08/29/17 09:40	08/29/17 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150	08/29/17 09:40	08/29/17 16:16	1
n-Triacontane-d62	79		50 - 150	08/29/17 09:40	08/29/17 16:16	1

Client Sample ID: GW-060493-082417-CP-MW-3 Date Collected: 08/24/17 10:25 Date Received: 08/25/17 12:10

Lab Sample ID: 590-6917-2 Matrix: Water

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			08/28/17 17:49	1
Ethylbenzene	0.417	J	1.00	0.198	ug/L			08/28/17 17:49	1
m,p-Xylene	ND		2.00	0.280	ug/L			08/28/17 17:49	1
o-Xylene	ND		1.00	0.162	ug/L			08/28/17 17:49	1
Toluene	ND		1.00	0.312	ug/L			08/28/17 17:49	1
Xylenes, Total	ND		3.00	0.442	ug/L			08/28/17 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 125					08/28/17 17:49	1
4-Bromofluorobenzene (Surr)	102		69 - 120					08/28/17 17:49	1

TestAmerica Spokane

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TestAmerica Job ID: 590-6917-1

Lab Sample ID: 590-6917-2

Analyzed

Lab Sample ID: 590-6917-3

Matrix: Water

1

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Prepared

Matrix: Water

Client: AECOM, Inc.	
Project/Site: 210 NE 45th St., Seattle/6052798	4

Client Sample I	: GW-060493-08	32417-CP-MW-3
Date Collected: 08/	4/17 10:25	
Date Received: 08/2	5/17 12:10	
Method: 8260C - V	olatile Organic Con	mpounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		80 - 120		08/28/17 17:49	1
Toluene-d8 (Surr)	95		80 - 120		08/28/17 17:49	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) Analyte **Result Qualifier** RL MDL Unit

Gasoline	ND		150	70.4	ug/L	_		08/28/17 17:49	1
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 102	Qualifier	Limits 68.7 - 141				Prepared	Analyzed 08/28/17 17:49	Dil Fac

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)	0.151	JB	0.252	0.0841	mg/L		08/29/17 09:40	08/29/17 16:35	1	
Residual Range Organics (RRO) (C25-C36)	ND		0.420	0.126	mg/L		08/29/17 09:40	08/29/17 16:35	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
o-Terphenyl	93		50 - 150				08/29/17 09:40	08/29/17 16:35	1	1
n-Triacontane-d62	84		50 - 150				08/29/17 09:40	08/29/17 16:35	1	

Client Sample ID: GW-060493-082417-CP-MW-6 Date Collected: 08/24/17 08:57 Date Received: 08/25/17 12:10

Method: 8260C - Volatile Organic Compounds by GC/MS Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 0.400 0.0930 ug/L 08/28/17 18:51 Benzene 68.1 08/29/17 13:07 10 Ethylbenzene 284 10.0 1.98 ug/L 267 20.0 2.80 ug/L 08/29/17 13:07 10 m,p-Xylene 1.00 0.162 ug/L 08/28/17 18:51 o-Xylene 5.21 **Toluene** 1.00 0.312 ug/L 08/28/17 18:51 11.9 **Xylenes**, Total 272 30.0 4.42 ug/L 08/29/17 13:07 10 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 108 70 - 125 08/28/17 18:51 1,2-Dichloroethane-d4 (Surr) 101 70 - 125 08/29/17 13:07 4-Bromofluorobenzene (Surr) 102 69 - 120 08/28/17 18:51 4-Bromofluorobenzene (Surr) 100 69 - 120 08/29/17 13:07 10 Dibromofluoromethane (Surr) 82 80 - 120 08/28/17 18:51

Dibromofluoromethane (Surr)	82	80 - 120	08/28/17 18:51	1
Dibromofluoromethane (Surr)	100	80 - 120	08/29/17 13:07	10
Toluene-d8 (Surr)	92	80 - 120	08/28/17 18:51	1
Toluene-d8 (Surr)	99	80 - 120	08/29/17 13:07	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Gasoline	4580		150	70.4	ug/L			08/28/17 18:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

TestAmerica Spokane

Dil Fac

lient Sample ID: GW-060)493-0824′	17-CP-M\	N-6				Lab Samp	le ID: 590-6	917-3
ate Collected: 08/24/17 08:57 ate Received: 08/25/17 12:10								Matrix:	
Method: NWTPH-Dx - Northw Analyte		<mark>olatile Pet</mark> Qualifier	roleum Prod RL	ucts (GO MDL		D	Prepared	Analyzed	Dil Fa
Diesel Range Organics (DRO)	1.21		0.252	0.0841		— -	08/29/17 09:40		
(C10-C25)		-	0.202	0.0011			00.20.11 00110	00/20/17 10:00	
Residual Range Organics (RRO) (C25-C36)	0.481		0.421	0.126	mg/L		08/29/17 09:40	08/29/17 16:53	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
o-Terphenyl	96		50 - 150				08/29/17 09:40	08/29/17 16:53	
n-Triacontane-d62	95		50 - 150				08/29/17 09:40	08/29/17 16:53	
lient Sample ID: GW-060 ate Collected: 08/24/17 12:48		17-6P-VF	-1				Lab Samp	le ID: 590-6 Matrix:	
ate Received: 08/25/17 12:10									
Method: 8260C - Volatile Orga		<mark>unds by G</mark> Qualifier	C/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Method: 8260C - Volatile Orga Analyte				MDL 0.0930		D	Prepared	Analyzed 08/28/17 19:12	Dil F
Method: 8260C - Volatile Orga Analyte Benzene	Result		RL		ug/L	D	Prepared	-	Dil F
Method: 8260C - Volatile Orga Analyte Benzene Ethylbenzene	Result ND		RL 0.400	0.0930	ug/L ug/L	D	Prepared	08/28/17 19:12	Dil F
Method: 8260C - Volatile Orga Analyte Benzene Ethylbenzene n,p-Xylene	Result ND ND		RL 0.400 1.00	0.0930 0.198	ug/L ug/L ug/L	D	Prepared	08/28/17 19:12 08/28/17 19:12	Dil F
Method: 8260C - Volatile Orga Analyte Benzene Ethylbenzene m,p-Xylene p-Xylene	Result ND ND ND		RL 0.400 1.00 2.00	0.0930 0.198 0.280	ug/L ug/L ug/L ug/L	D	Prepared	08/28/17 19:12 08/28/17 19:12 08/28/17 19:12	Dil F
Method: 8260C - Volatile Orga Analyte Benzene Ethylbenzene n,p-Xylene o-Xylene Foluene	Result ND ND ND ND		RL 0.400 1.00 2.00 1.00	0.0930 0.198 0.280 0.162	ug/L ug/L ug/L ug/L ug/L	D	Prepared	08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12	Dil F
Method: 8260C - Volatile Orga Analyte Benzene Ethylbenzene n,p-Xylene o-Xylene Foluene Kylenes, Total	Result ND ND ND ND ND	Qualifier	RL 0.400 1.00 2.00 1.00 1.00	0.0930 0.198 0.280 0.162 0.312	ug/L ug/L ug/L ug/L ug/L	D	Prepared	08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12	
Method: 8260C - Volatile Orga Analyte Benzene Ethylbenzene n,p-Xylene o-Xylene Foluene Kylenes, Total Surrogate	Result ND ND ND ND ND ND	Qualifier	RL 0.400 1.00 2.00 1.00 1.00 3.00	0.0930 0.198 0.280 0.162 0.312	ug/L ug/L ug/L ug/L ug/L	D		08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12	
Method: 8260C - Volatile Orga Analyte Benzene Ethylbenzene m,p-Xylene p-Xylene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr)	Result ND ND ND ND ND ND ND	Qualifier	RL 0.400 1.00 2.00 1.00 1.00 3.00 Limits	0.0930 0.198 0.280 0.162 0.312	ug/L ug/L ug/L ug/L ug/L	D		08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 Analyzed	
Method: 8260C - Volatile Orga Analyte Benzene Ethylbenzene m.p-Xylene p-Xylene Toluene Kylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)	Result ND ND ND ND ND ND ND ND ND	Qualifier	RL 0.400 1.00 2.00 1.00 3.00 Limits 70 - 125	0.0930 0.198 0.280 0.162 0.312	ug/L ug/L ug/L ug/L ug/L	<u>D</u>		08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12	
Method: 8260C - Volatile Orga Analyte Benzene Ethylbenzene n,p-Xylene Do-Xylene Toluene Kylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr)	Result ND ND ND ND ND ND ND ND 99	Qualifier	RL 0.400 1.00 2.00 1.00 3.00 Limits 70 - 125 69 - 120	0.0930 0.198 0.280 0.162 0.312	ug/L ug/L ug/L ug/L ug/L	<u>D</u>		08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12	
Method: 8260C - Volatile Orga Analyte Benzene Ethylbenzene m,p-Xylene o-Xylene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr)	Result ND ND ND ND ND ND ND ND %Recovery 105 99 104 98	Qualifier Qualifier	RL 0.400 1.00 2.00 1.00 3.00 Limits 70 - 125 69 - 120 80 - 120 80 - 120	0.0930 0.198 0.280 0.162 0.312 0.442	ug/L ug/L ug/L ug/L ug/L	D		08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12	
Method: 8260C - Volatile Orga Analyte Benzene Ethylbenzene m,p-Xylene o-Xylene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Method: NWTPH-Gx - Northw	Result ND %Recovery 105 99 104 98 vest - Volatile	Qualifier Qualifier	RL 0.400 1.00 2.00 1.00 3.00 Limits 70 - 125 69 - 120 80 - 120 80 - 120	0.0930 0.198 0.280 0.162 0.312 0.442	ug/L ug/L ug/L ug/L ug/L	D		08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12	Dil F
ate Received: 08/25/17 12:10 Method: 8260C - Volatile Orga Analyte Benzene Ethylbenzene m,p-Xylene o-Xylene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Method: NWTPH-Gx - Northw Analyte Gasoline	Result ND %Recovery 105 99 104 98 vest - Volatile	Qualifier Qualifier	RL 0.400 1.00 2.00 1.00 3.00 Limits 70 - 125 69 - 120 80 - 120 80 - 120 80 - 120 80 - 120	0.0930 0.198 0.280 0.162 0.312 0.442 GC/MS) MDL	ug/L ug/L ug/L ug/L ug/L		Prepared	08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12 08/28/17 19:12	Dil Fi

68.7 - 141

RL

0.259

0.432

Limits

50 - 150

50 - 150

MDL Unit

0.0864 mg/L

0.130 mg/L

D

Prepared

Prepared

08/29/17 09:40 08/29/17 17:11

08/29/17 09:40 08/29/17 17:11

08/29/17 09:40 08/29/17 17:11

08/29/17 09:40 08/29/17 17:11

Project/Site: 210 NE 45th St., Seattle/60527984

Client: AECOM, Inc.

4-Bromofluorobenzene (Surr)

Diesel Range Organics (DRO)

Residual Range Organics (RRO)

Analyte

(C10-C25)

(C25-C36) Surrogate

o-Terphenyl

n-Triacontane-d62

99

0.163 JB

ND

%Recovery Qualifier

98

92

Result Qualifier

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

08/28/17 19:12

Analyzed

Analyzed

1

1

1

1

1

Dil Fac

Dil Fac

8/30/2017

TestAmerica Job ID: 590-6917-1

RL

MDL Unit

D

Prepared

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle/60527984

Analyte

Toluene-d8 (Surr)

Client Sample ID: GW-060493-082417-CP-VP-2 Date Collected: 08/24/17 11:33 Date Received: 08/25/17 12:10

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

Result Qualifier

Lab Sample ID: 590-6917-5 Matrix: Water

Analyzed

Dil Fac

			0.400	0.0930				00/00/17 10 01	
Benzene	ND		0.400	0.0000	uy/L			08/28/17 19:34	1
Ethylbenzene	ND		1.00	0.198	ug/L			08/28/17 19:34	1
m,p-Xylene	ND		2.00	0.280	ug/L			08/28/17 19:34	1
o-Xylene	ND		1.00	0.162	ug/L			08/28/17 19:34	1
Toluene	ND		1.00	0.312	ug/L			08/28/17 19:34	1
Xylenes, Total	ND		3.00	0.442	ug/L			08/28/17 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 125					08/28/17 19:34	1
4-Bromofluorobenzene (Surr)	103		69 - 120					08/28/17 19:34	1
Dibromofluoromethane (Surr)	104		80 - 120					08/28/17 19:34	1
Toluene-d8 (Surr)	98		80 - 120					08/28/17 19:34	1
Method: NWTPH-Gx - Northy Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
				MDL		D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL 150	MDL	Unit ug/L	D		-	1
Analyte Gasoline Surrogate	Result ND %Recovery	Qualifier	RL 150	MDL		D	Prepared Prepared	08/28/17 19:34 Analyzed	Dil Fac 1 Dil Fac
Analyte Gasoline	Result	Qualifier	RL 150	MDL		<u>D</u>		08/28/17 19:34	1
Analyte Gasoline Surrogate	Result ND %Recovery 103	Qualifier Qualifier	RL 150 Limits 68.7 - 141	MDL 70.4	ug/L	<u>D</u>		08/28/17 19:34 Analyzed	1 Dil Fac
Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr)	Result ND %Recovery 103 vest - Semi-V	Qualifier Qualifier	RL 150 Limits 68.7 - 141	MDĽ 70.4 ducts (G(MDL	ug/L) Unit	<u>D</u>		08/28/17 19:34 Analyzed	1 Dil Fac
Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: NWTPH-Dx - Northw	Result ND %Recovery 103 vest - Semi-V	Qualifier Qualifier Colatile Pe Qualifier	RL 150 <i>Limits</i> 68.7 - 141 troleum Proc	<u>MDL</u> 70.4	ug/L) Unit		Prepared	08/28/17 19:34 Analyzed 08/28/17 19:34	1 Dil Fac 1
Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: NWTPH-Dx - Northw Analyte Diesel Range Organics (DRO)	Result ND %Recovery 103 /est - Semi-V Result	Qualifier Qualifier Colatile Pe Qualifier	RL 150 <i>Limits</i> 68.7 - 141 troleum Proc RL	MDĽ 70.4 ducts (G(MDL	Unit mg/L		Prepared Prepared 08/29/17 09:40	08/28/17 19:34 Analyzed 08/28/17 19:34 Analyzed	1 Dil Fac 1
Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: NWTPH-Dx - Northw Analyte Diesel Range Organics (DRO) (C10-C25) Residual Range Organics (RRO)	Result ND %Recovery 103 vest - Semi-V Result 0.210	Qualifier Qualifier Volatile Pe Qualifier J B	RL 150 Limits 68.7 - 141 troleum Proc RL 0.254	MDL 70.4 ducts (G0 MDL 0.0846	Unit mg/L		Prepared Prepared 08/29/17 09:40	08/28/17 19:34 Analyzed 08/28/17 19:34 Analyzed 08/29/17 17:29 08/29/17 17:29 Analyzed	1 Dil Fac 1
Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: NWTPH-Dx - Northw Analyte Diesel Range Organics (DRO) (C10-C25) Residual Range Organics (RRO) (C25-C36)	Result ND %Recovery 103 /est - Semi-V Result 0.210 ND	Qualifier Qualifier Volatile Pe Qualifier J B	RL 150 Limits 68.7 - 141 troleum Proc RL 0.254 0.423	MDL 70.4 ducts (G0 MDL 0.0846	Unit mg/L		Prepared Prepared 08/29/17 09:40 08/29/17 09:40	08/28/17 19:34 Analyzed 08/28/17 19:34 Analyzed 08/29/17 17:29 08/29/17 17:29 Analyzed	1 <i>Dil Fac</i> 1 Dil Fac 1 1

Client Sample ID: GW-060493-082417-CP-VP-3 Date Collected: 08/24/17 11:59 Date Received: 08/25/17 12:10

95

Method: 8260C - Volatile Organic Compounds by GC/MS Result Qualifier RL Prepared Analyte MDL Unit D Dil Fac Analyzed Benzene 0.607 0.400 0.0930 ug/L 08/28/17 19:54 1 Ethylbenzene ND 1.00 0.198 ug/L 08/28/17 19:54 1 m,p-Xylene ND 2.00 0.280 ug/L 08/28/17 19:54 1 o-Xylene 0.271 J 1.00 0.162 ug/L 08/28/17 19:54 1 **Toluene** 3.12 1.00 0.312 ug/L 08/28/17 19:54 1 Xylenes, Total ND 3.00 0.442 ug/L 08/28/17 19:54 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 104 70 - 125 08/28/17 19:54 1 4-Bromofluorobenzene (Surr) 103 69 - 120 08/28/17 19:54 1 Dibromofluoromethane (Surr) 103 80 - 120 08/28/17 19:54

80 - 120

TestAmerica Spokane

08/28/17 19:54

Lab Sample ID: 590-6917-6

Matrix: Water

1

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle/60527984

Client Sample ID: GW-060493-082417-CP-VP-3 Date Collected: 08/24/17 11:59 Date Received: 08/25/17 12:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	335		150	70.4	ug/L			08/28/17 19:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		68.7 - 141					08/28/17 19:54	1
Method: NWTPH-Dx - Northw Analyte	Result	Qualifier	RL	MDL	Únit	D	Prepared	Analyzed	Dil Fac
wethod: NW IPH-DX - Northw	est - Semi-V	olatile Pe	troleum Proc	ducts (G	C)				
Analyte Diesel Range Organics (DRO)		Qualifier			Únit	D	Prepared 08/29/17 09:40		Dil Fac
Analyte Diesel Range Organics (DRO) (C10-C25)	Result	Qualifier B	RL	MDL	Unit mg/L	D	08/29/17 09:40		Dil Fac
Analyte Diesel Range Organics (DRO)	Result	Qualifier B	RL 0.266	MDL 0.0886	Unit mg/L	D	08/29/17 09:40	08/29/17 17:47	1
Analyte Diesel Range Organics (DRO) (C10-C25) Residual Range Organics (RRO)	Result	Qualifier B J	RL 0.266	MDL 0.0886	Unit mg/L	<u>D</u>	08/29/17 09:40	08/29/17 17:47	1 1
Analyte Diesel Range Organics (DRO) (C10-C25) Residual Range Organics (RRO) (C25-C36)	Result 1.89 0.173	Qualifier B J	. <u>RL</u> 0.266 0.443	MDL 0.0886	Unit mg/L	<u>D</u>	08/29/17 09:40 08/29/17 09:40	08/29/17 17:47 08/29/17 17:47 Analyzed	1

Client Sample ID: GW-060493-082417-CP-VP-7 Date Collected: 08/24/17 10:48 Date Received: 08/25/17 12:10

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1840		8.00	1.86	ug/L			08/29/17 13:28	20
Ethylbenzene	677		20.0	3.96	ug/L			08/29/17 13:28	20
m,p-Xylene	1270		40.0	5.60	ug/L			08/29/17 13:28	20
o-Xylene	326		20.0	3.24	ug/L			08/29/17 13:28	20
Toluene	385		20.0	6.24	ug/L			08/29/17 13:28	20
Xylenes, Total	1600		60.0	8.84	ug/L			08/29/17 13:28	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 125					08/29/17 13:28	20
4-Bromofluorobenzene (Surr)	98		69 - 120					08/29/17 13:28	20
Dibromofluoromethane (Surr)	107		80 - 120					08/29/17 13:28	20
Toluene-d8 (Surr)	100		80 - 120					08/29/17 13:28	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	12100		3000	1410	ug/L			08/29/17 13:28	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		68.7 - 141					08/29/17 13:28	20
Method: NWTPH-Dx - Northw	est - Semi-V	olatile Pe	troleum Prod	ucts (G	C)				
Analyte		Qualifier	RL	•	Únit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	2.32	В	0.261	0.0868	mg/L		08/29/17 09:40	08/29/17 18:24	1
Residual Range Organics (RRO) (C25-C36)	0.580		0.434	0.130	mg/L		08/29/17 09:40	08/29/17 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
							00/00/17 00 10	00/00/47 40.04	
o-Terphenyl	104		50 - 150				08/29/17 09:40	08/29/17 18:24	1

TestAmerica Spokane



Lab Sample ID: 590-6917-7 Matrix: Water

TestAmerica Job ID: 590-6917-1

Lab Sample ID: 590-6917-6

Matrix: Water

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Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle/60527984

Client Sample ID: GW-060493-082417-CP-VP-8 Date Collected: 08/24/17 13:16 Date Received: 08/25/17 12:10

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

Lab Sample ID: 590-6917-8 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			08/29/17 13:48	1
Ethylbenzene	0.240	J	1.00	0.198	ug/L			08/29/17 13:48	1
m,p-Xylene	0.419	J	2.00	0.280	ug/L			08/29/17 13:48	1
o-Xylene	0.296	J	1.00	0.162	ug/L			08/29/17 13:48	1
Toluene	ND		1.00	0.312	ug/L			08/29/17 13:48	1
Xylenes, Total	0.715	J	3.00	0.442	ug/L			08/29/17 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 125					08/29/17 13:48	1
4-Bromofluorobenzene (Surr)	99		69 - 120					08/29/17 13:48	1
Dibromofluoromethane (Surr)	106		80 - 120					08/29/17 13:48	1
Toluene-d8 (Surr)	98		80 - 120					08/29/17 13:48	1
Gasoline	98.5		150	70.4	ug/L			08/29/17 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		68.7 - 141					08/29/17 13:48	1
Method: NWTPH-Dx - Northw Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	3.12	В	0.250	0.0832	mg/L		08/29/17 09:40	08/29/17 18:42	1
Residual Range Organics (RRO) (C25-C36)	0.243	J	0.416	0.125	mg/L		08/29/17 09:40	08/29/17 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	110		50 - 150				08/29/17 09:40	08/29/17 18:42	1
n-Triacontane-d62	103		50 - 150				08/29/17 09:40	08/29/17 18:42	1
Client Sample ID: Trip Bla	ank						Lab Samp	le ID: 590-6	917-9
Client Sample ID: Trip Bla Date Collected: 08/24/17 07:15							Lab Samp		917-9 Water

Method: 8260C - Volatile O Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	0.400	0.0930	ug/L			08/28/17 21:19	1
Ethylbenzene	ND	1.00	0.198	ug/L			08/28/17 21:19	1
m,p-Xylene	ND	2.00	0.280	ug/L			08/28/17 21:19	1
o-Xylene	ND	1.00	0.162	ug/L			08/28/17 21:19	1
Toluene	ND	1.00	0.312	ug/L			08/28/17 21:19	1
Xylenes, Total	ND	3.00	0.442	ug/L			08/28/17 21:19	1
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2 Diphloroothono d4 (Surr)	107	70 125			-		08/28/17 21.10	1

1,2-Dichloroethane-d4 (Surr)	107	70 - 125	08/28/17 21:19 1
4-Bromofluorobenzene (Surr)	100	69 - 120	08/28/17 21:19 1
Dibromofluoromethane (Surr)	106	80 - 120	08/28/17 21:19 1
Toluene-d8 (Surr)	99	80 - 120	08/28/17 21:19 1

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

106

98

Lab Sample ID: MB 590-13557/6 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA Analysis Batch: 13557 MB MB Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac Benzene ND 0.400 0.0930 ug/L 08/28/17 13:01 1 Ethylbenzene ND 0.198 ug/L 08/28/17 13:01 1.00 1 ND m,p-Xylene 2.00 0.280 ug/L 08/28/17 13:01 1 o-Xylene ND 1.00 0.162 ug/L 08/28/17 13:01 1 Toluene ND 1.00 0.312 ug/L 08/28/17 13:01 1 Xylenes, Total ND 3.00 0.442 ug/L 08/28/17 13:01 1 MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 105 70 - 125 08/28/17 13:01 1 4-Bromofluorobenzene (Surr) 99 69 - 120 08/28/17 13:01 1

Lab Sample ID: LCS 590-13557/1004 Matrix: Water Analysis Batch: 13557

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	10.0	9.912		ug/L		99	80 - 120	
Ethylbenzene	10.0	9.996		ug/L		100	80 - 120	
m,p-Xylene	10.0	9.787		ug/L		98	80 - 120	
o-Xylene	10.0	9.948		ug/L		99	80 - 120	
Toluene	10.0	9.718		ug/L		97	80 - 123	

80 - 120

80 - 120

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 125
4-Bromofluorobenzene (Surr)	103		69 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 590-13557/7 Matrix: Water Analysis Batch: 13557

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			10.0	9.782		ug/L		98	80 - 120	1	25
Ethylbenzene			10.0	9.411		ug/L		94	80 - 120	6	25
m,p-Xylene			10.0	9.564		ug/L		96	80 - 120	2	25
o-Xylene			10.0	9.481		ug/L		95	80 - 120	5	25
Toluene			10.0	9.357		ug/L		94	80 - 123	4	25
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								

Sunoyate		/arrecovery	Quanner	Linnts
1,2-Dichloro	oethane-d4 (Surr)	104		70 - 125
4-Bromoflue	orobenzene (Surr)	105		69 - 120
Dibromofluc	promethane (Surr)	105		80 - 120
Toluene-d8	(Surr)	96		80 - 120

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

08/28/17 13:01

08/28/17 13:01

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

TestAmerica Spokane

1

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

Lab Sample ID: 590-6917	-1 MS			Client Sample ID: GW-060493-082417-CP-					
Matrix: Water Analysis Batch: 13557									Prep Type: Total/N
-	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.279	J	10.0	9.971		ug/L		97	50 - 150
Ethylbenzene	174	E	10.0	178.7	E 4	ug/L		44	50 ₋ 150
m,p-Xylene	37.4		10.0	44.46		ug/L		71	50 - 150
o-Xylene	1.98		10.0	11.31		ug/L		93	50 - 150
Toluene	1.84		10.0	11.90		ug/L		101	50 - 150
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	105		70 - 125						
4-Bromofluorobenzene (Surr)	107		69 - 120						
Dibromofluoromethane (Surr)	92		80 - 120						
Toluene-d8 (Surr)	96		80 - 120						

Lab Sample ID: 590-6917-1 MSD Matrix: Water Analysis Batch: 13557

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.279	J	10.0	10.27		ug/L		100	50 - 150	3	35
Ethylbenzene	174	E	10.0	185.2	E 4	ug/L		108	50 - 150	4	35
m,p-Xylene	37.4		10.0	47.01		ug/L		96	50 - 150	6	35
o-Xylene	1.98		10.0	11.80		ug/L		98	50 - 150	4	35
Toluene	1.84		10.0	12.49		ug/L		107	50 - 150	5	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 125
4-Bromofluorobenzene (Surr)	103		69 - 120
Dibromofluoromethane (Surr)	94		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: MB 590-13588/6 Matrix: Water Analysis Batch: 13588

Client Sample ID: GW-060493-082417-CP-MW-2 Prep Type: Total/NA

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

-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			08/29/17 11:50	1
Ethylbenzene	ND		1.00	0.198	ug/L			08/29/17 11:50	1
m,p-Xylene	ND		2.00	0.280	ug/L			08/29/17 11:50	1
o-Xylene	ND		1.00	0.162	ug/L			08/29/17 11:50	1
Toluene	ND		1.00	0.312	ug/L			08/29/17 11:50	1
Xylenes, Total	ND		3.00	0.442	ug/L			08/29/17 11:50	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			70 - 125			-		08/29/17 11:50	1
4-Bromofluorobenzene (Surr)	97		69 - 120					08/29/17 11:50	1
Dibromofluoromethane (Surr)	106		80 - 120					08/29/17 11:50	1
Toluene-d8 (Surr)	99		80 - 120					08/29/17 11:50	1

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

Lab Sample ID: LCS 590- Matrix: Water Analysis Batch: 13588	13588/1004					Clie	ent Sa	mple ID	: Lab Control Samp Prep Type: Total/N	
			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene			10.0	10.03		ug/L		100	80 - 120	
Ethylbenzene			10.0	9.763		ug/L		98	80 - 120	
m,p-Xylene			10.0	9.937		ug/L		99	80 - 120	
o-Xylene			10.0	9.796		ug/L		98	80 - 120	
Toluene			10.0	9.758		ug/L		98	80 - 123	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	101		70 - 125							
4-Bromofluorobenzene (Surr)	103		69 - 120							
Dibromofluoromethane (Surr)	102		80 - 120							
Toluene-d8 (Surr)	99		80 - 120							

Lab Sample ID: LCSD 590-13588/7 Matrix: Water Analysis Batch: 13588

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			10.0	10.27		ug/L		103	80 - 120	2	25
Ethylbenzene			10.0	9.982		ug/L		100	80 - 120	2	25
m,p-Xylene			10.0	10.24		ug/L		102	80 - 120	3	25
o-Xylene			10.0	9.944		ug/L		99	80 - 120	2	25
Toluene			10.0	10.05		ug/L		100	80 - 123	3	25
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1.2-Dichloroethane-d4 (Surr)	97		70 - 125								

5		
1,2-Dichloroethane-d4 (Surr)	97	70 - 125
4-Bromofluorobenzene (Surr)	105	69 - 120
Dibromofluoromethane (Surr)	102	80 - 120
Toluene-d8 (Surr)	100	80 - 120

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

Lab Sample ID: MB 590-135 Matrix: Water Analysis Batch: 13559	59/6						Client Sam	ple ID: Method Prep Type: To	
·····,···	MB	МВ							
Analyte	Result	Qualifier	RL		MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150		70.4 ug/L			08/28/17 13:01	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		68.7 - 141					08/28/17 13:01	1
Lab Sample ID: LCS 590-13	559/1005					Client	Sample ID	: Lab Control S	Sample
Matrix: Water								Prep Type: To	otal/NA
Analysis Batch: 13559									
			Spike	LCS	LCS			%Rec.	
Analyte			Added	Result	Qualifier	Unit	D %Rec	Limits	
Gasoline			1000	1091		ug/L	109	80 - 120	

TestAmerica Spokane

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

QC Sample Results

lient: AECOM, Inc.			QC Sam	ple l	Resı	ılts		T	est∆me	erica Job ID:	· 590-1	3917-1
roject/Site: 210 NE 45th St	ι., Seattle/605	27984							531711161		530-0	1917-1
	LCS	LCS										
Surrogate	%Recovery	Qualifie	r Limits									
4-Bromofluorobenzene (Surr)	99		68.7 - 141	-								
		_					~				- ,	_
Lab Sample ID: LCSD 590 Matrix: Water	J-13559/101 <i>/</i>					, c	Slient a	Sample) ID: Lai	b Control S		
Analysis Batch: 13559										Prep Тур	Je: 10	
Allaryoio Batolii 10000			Spike		LCSD	LCSD				%Rec.		RPD
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline			1000		1109		ug/L		111	80 - 120	2	20
	LCSD	LCSD										
Surrogate	%Recovery		r Limits									
4-Bromofluorobenzene (Surr)	100		68.7 - 141	_								
=	_						_					
Lab Sample ID: 590-6917	-2 MS					Clien	It Sam	ple ID: (GW-060	0493-08241		
Matrix: Water										Prep Typ)e: 101	tal/NA
Analysis Batch: 13559	Sample	Sample	Spike		MS	MS				%Rec.		
Analyte		Qualifier				Qualifier	Unit	D	%Rec	Limits		
Gasoline			1000		1153		ug/L					
0		MS Qualifia	r Limits									
Surrogate 4-Bromofluorobenzene (Surr)	% Recovery 104	Quanner	68.7 - 141	,—								
Matrix: Water Analysis Batch: 13559	Sample	Sample	Spike		MSD	MSD				Prep Typ %Rec.)e: 10i	RPD
Analyte		Qualifier				Qualifier		D		Limits	RPD	Limit
Gasoline	ND		1000		1031		ug/L		103	55.6 - 126	11	20
	MSD	MSD										
Surrogate	%Recovery	Qualifie										
4-Bromofluorobenzene (Surr)	105		68.7 - 141	-								
Lab Sample ID: MB 590-1 Matrix: Water Analysis Batch: 13590		MB MB								mple ID: Me Prep Typ	be: Tot	tal/NA
Analyte	Re	esult Qua	alifier	RL		MDL Unit		P	Prepared	-		Dil Fac
Gasoline		ND		150		70.4 ug/L				08/29/17 1	11:50	1
		MB MB	i									
Surrogate	%Reco	very Qua		mits				F	Prepared	-		Dil Fac
4-Bromofluorobenzene (Surr)		97	68.7	- 141						08/29/17 1	11:50	1
Lab Sample ID: LCS 590- Matrix: Water Analysis Batch: 13590	13590/1005		Spika			LCS	CI	ient Sa	mple IC	D: Lab Cont Prep Typ %Rec.		
Analyte			Spike Added			LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			Added		1115	Quaimer		Ľ	111	80 - 120		
Ouseme							ug, L			00-120		
Surrogate	LCS %Recovery		r Limits									

QC Sample Results

n-Triacontane-d62

Mathad: NIM/TOU C -. -. . 41 -

Lab Sample ID: LCSD 590 Matrix: Water Analysis Batch: 13590	-13590/1016					Client S	Samp	ole		Control S Prep Typ		
Analysis Datoll. 19990			Spike	LCSD	LCSD					%Rec.		RPD
Analyte			Added		Qualifie	r Unit		D	%Rec	Limits	RPD	Limit
Gasoline			1000	1083				_	108	80 - 120	3	20
			1000	1000		ug/L			100	00-120	Ũ	
	LCSD											
Surrogate	%Recovery		Limits									
4-Bromofluorobenzene (Surr)	100		68.7 - 141									
lethod: NWTPH-Dx - N	Northwest -	- Semi-V	olatile Petr	oleun	n <mark>Proc</mark>	lucts (GC)					
Lab Sample ID: MB 590-13	3583/1-A						C	Clie		ole ID: Me		
Matrix: Water										Prep Type		
Analysis Batch: 13591										Prep Ba	atch:	13583
		MB MB										
Analyte		ult Qualifier			MDL Un		D		repared	Analyze		Dil Fac
Diesel Range Organics (DRO)	0.081	08 J	0.240	0.0	0800 mg	/L	- 0	08/2	9/17 09:40	08/29/17 1	1:38	1
(C10-C25) Residual Range Organics (RRO) (C25-C36)	I	ND	0.400	C).120 mg	/L	C)8/2	9/17 09:40	08/29/17 1	1:38	
		MB MB										
Surranta			. Limita						vo no vo d	Analyza		
Surrogate		ery Qualifier					7		repared	Analyze		Dil Fac
o-Terphenyl n-Triacontane-d62	1	'00 88	50 - 150 50 - 150						9/17 09:40	08/29/17 1		1
-												
Lab Sample ID: LCS 590-1	3583/2-A					Cli	ient \$	Sar	nple ID:	Lab Cont	rol Sa	ample
Matrix: Water										Prep Typ		
Analysis Batch: 13591										Prep Ba		
			Spike	LCS	LCS					%Rec.		
Analyte			Added	Result	Qualifie	r Unit		D	%Rec	Limits		
Diesel Range Organics (DRO)			1.60	1.484		mg/L		_	93	50 - 150		
(C10-C25)												
Residual Range Organics (RRO) (C25-C36)			1.60	1.658		mg/L			104	50 - 150		
	LCS	LCS										
Surrogate	%Recovery	Qualifier	Limits									
o-Terphenyl	107		50 - 150									
n-Triacontane-d62	104		50 - 150									
Lab Sample ID: LCSD 590	-13583/3-A					Client S	Sam	ole	ID: Lab	Control S	ampl	e Dur
Matrix: Water										Prep Typ		
Analysis Batch: 13591										Prep Ba		
-			Spike	LCSD	LCSD					%Rec.		RPD
Analyte			Added	Result	Qualifie	r Unit		D	%Rec	Limits	RPD	Limit
Diesel Range Organics (DRO) (C10-C25)			1.60	1.287		mg/L		_	80	50 - 150	14	25
Residual Range Organics (RRO) (C25-C36)			1.60	1.626		mg/L			102	50 - 150	2	25
	LCSD	LCSD										
Surrogate	%Recovery		Limits									
o-Terphenyl	105	4.4411161	50 - 150									
o i cipitoliyi	105		50 - 750									

TestAmerica Spokane

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QC Association Summary

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle/60527984

TestAmerica Job ID: 590-6917-1

GC/MS VOA

Analysis Batch: 13557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-6917-1	GW-060493-082417-CP-MW-2	Total/NA	Water	8260C	
590-6917-2	GW-060493-082417-CP-MW-3	Total/NA	Water	8260C	
590-6917-3	GW-060493-082417-CP-MW-6	Total/NA	Water	8260C	
590-6917-4	GW-060493-082417-CP-VP-1	Total/NA	Water	8260C	
590-6917-5	GW-060493-082417-CP-VP-2	Total/NA	Water	8260C	
590-6917-6	GW-060493-082417-CP-VP-3	Total/NA	Water	8260C	
590-6917-9	Trip Blank	Total/NA	Water	8260C	
MB 590-13557/6	Method Blank	Total/NA	Water	8260C	
LCS 590-13557/1004	Lab Control Sample	Total/NA	Water	8260C	
LCSD 590-13557/7	Lab Control Sample Dup	Total/NA	Water	8260C	
590-6917-1 MS	GW-060493-082417-CP-MW-2	Total/NA	Water	8260C	
590-6917-1 MSD	GW-060493-082417-CP-MW-2	Total/NA	Water	8260C	

Analysis Batch: 13559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
590-6917-1	GW-060493-082417-CP-MW-2	Total/NA	Water	NWTPH-Gx		
590-6917-2	GW-060493-082417-CP-MW-3	Total/NA	Water	NWTPH-Gx		
590-6917-3	GW-060493-082417-CP-MW-6	Total/NA	Water	NWTPH-Gx		
590-6917-4	GW-060493-082417-CP-VP-1	Total/NA	Water	NWTPH-Gx		
590-6917-5	GW-060493-082417-CP-VP-2	Total/NA	Water	NWTPH-Gx		
590-6917-6	GW-060493-082417-CP-VP-3	Total/NA	Water	NWTPH-Gx		
MB 590-13559/6	Method Blank	Total/NA	Water	NWTPH-Gx		
LCS 590-13559/1005	Lab Control Sample	Total/NA	Water	NWTPH-Gx		
LCSD 590-13559/1017	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx		
590-6917-2 MS	GW-060493-082417-CP-MW-3	Total/NA	Water	NWTPH-Gx		
590-6917-2 MSD	GW-060493-082417-CP-MW-3	Total/NA	Water	NWTPH-Gx		

Analysis Batch: 13588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-6917-1	GW-060493-082417-CP-MW-2	Total/NA	Water	8260C	
590-6917-3	GW-060493-082417-CP-MW-6	Total/NA	Water	8260C	
590-6917-7	GW-060493-082417-CP-VP-7	Total/NA	Water	8260C	
590-6917-8	GW-060493-082417-CP-VP-8	Total/NA	Water	8260C	
MB 590-13588/6	Method Blank	Total/NA	Water	8260C	
LCS 590-13588/1004	Lab Control Sample	Total/NA	Water	8260C	
LCSD 590-13588/7	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 13590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-6917-7	GW-060493-082417-CP-VP-7	Total/NA	Water	NWTPH-Gx	
590-6917-8	GW-060493-082417-CP-VP-8	Total/NA	Water	NWTPH-Gx	
MB 590-13590/6	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 590-13590/1005	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 590-13590/1016	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

GC Semi VOA

Prep Batch: 13583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-6917-1	GW-060493-082417-CP-MW-2	Total/NA	Water	3510C	

QC Association Summary

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle/60527984

TestAmerica Job ID: 590-6917-1

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GC Semi VOA (Continued) Prep Batch: 13583 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
590-6917-2	GW-060493-082417-CP-MW-3	Total/NA	Water	3510C	
590-6917-3	GW-060493-082417-CP-MW-6	Total/NA	Water	3510C	
590-6917-4	GW-060493-082417-CP-VP-1	Total/NA	Water	3510C	
590-6917-5	GW-060493-082417-CP-VP-2	Total/NA	Water	3510C	
590-6917-6	GW-060493-082417-CP-VP-3	Total/NA	Water	3510C	
590-6917-7	GW-060493-082417-CP-VP-7	Total/NA	Water	3510C	
590-6917-8	GW-060493-082417-CP-VP-8	Total/NA	Water	3510C	
MB 590-13583/1-A	Method Blank	Total/NA	Water	3510C	
LCS 590-13583/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 590-13583/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 13591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
590-6917-1	GW-060493-082417-CP-MW-2	Total/NA	Water	NWTPH-Dx	13583	
590-6917-2	GW-060493-082417-CP-MW-3	Total/NA	Water	NWTPH-Dx	13583	
590-6917-3	GW-060493-082417-CP-MW-6	Total/NA	Water	NWTPH-Dx	13583	
590-6917-4	GW-060493-082417-CP-VP-1	Total/NA	Water	NWTPH-Dx	13583	
590-6917-5	GW-060493-082417-CP-VP-2	Total/NA	Water	NWTPH-Dx	13583	
590-6917-6	GW-060493-082417-CP-VP-3	Total/NA	Water	NWTPH-Dx	13583	
590-6917-7	GW-060493-082417-CP-VP-7	Total/NA	Water	NWTPH-Dx	13583	
590-6917-8	GW-060493-082417-CP-VP-8	Total/NA	Water	NWTPH-Dx	13583	
MB 590-13583/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	13583	
LCS 590-13583/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	13583	
LCSD 590-13583/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	13583	

Lab Sample ID: 590-6917-1

Lab Sample ID: 590-6917-2

Matrix: Water

Matrix: Water

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Client Sample ID: GW-060493-082417-CP-MW-2 Date Collected: 08/24/17 12:23

Date Received: 08/25/17 12:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	13557	08/28/17 16:47	MRS	TAL SPK
Total/NA	Analysis	8260C		10	43 mL	43 mL	13588	08/29/17 12:46	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	13559	08/28/17 16:47	MRS	TAL SPK
Total/NA	Prep	3510C			238.8 mL	2 mL	13583	08/29/17 09:40	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			13591	08/29/17 16:16	NMI	TAL SPK

Client Sample ID: GW-060493-082417-CP-MW-3 Date Collected: 08/24/17 10:25 Date Received: 08/25/17 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA Total/NA	Analysis Analysis	8260C NWTPH-Gx		1	43 mL 43 mL	43 mL 43 mL	13557 13559	08/28/17 17:49 08/28/17 17:49	MRS MRS	TAL SPK TAL SPK
Total/NA Total/NA	Prep Analysis	3510C NWTPH-Dx		1	237.9 mL	2 mL	13583 13591	08/29/17 09:40 08/29/17 16:35		TAL SPK TAL SPK

Client Sample ID: GW-060493-082417-CP-MW-6 Date Collected: 08/24/17 08:57 Date Received: 08/25/17 12:10

Batch Batch Dil Initial Final Batch Prepared Method Number Prep Type Туре Run Factor Amount Amount or Analyzed Analyst Lab Total/NA Analysis 8260C 43 mL 43 mL 13557 08/28/17 18:51 MRS TAL SPK 1 Total/NA Analysis 8260C 10 43 mL 43 mL 13588 08/29/17 13:07 MRS TAL SPK Total/NA Analysis NWTPH-Gx 1 43 mL 43 mL 13559 08/28/17 18:51 MRS TAL SPK Total/NA Prep 3510C 237.7 mL 2 mL 13583 08/29/17 09:40 NMI TAL SPK Total/NA Analysis NWTPH-Dx 1 13591 08/29/17 16:53 NMI TAL SPK

Client Sample ID: GW-060493-082417-CP-VP-1 Date Collected: 08/24/17 12:48 Date Received: 08/25/17 12:10

Lab Sample ID: 590-6917-4 Matrix: Water

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260C	Run	Dil Factor	Initial Amount 43 mL	Final Amount 43 mL	Batch Number 13557	Prepared or Analyzed 08/28/17 19:12	Analyst MRS	Lab TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	13559	08/28/17 19:12	MRS	TAL SPK
Total/NA Total/NA	Prep Analysis	3510C NWTPH-Dx		1	231.5 mL	2 mL	13583 13591	08/29/17 09:40 08/29/17 17:11	NMI NMI	TAL SPK TAL SPK

Lab Sample ID: 590-6917-5

Lab Sample ID: 590-6917-6

Matrix: Water

Matrix: Water

Client Sample ID: GW-060493-082417-CP-VP-2

Date Collected: 08/24/17 11:33 Date Received: 08/25/17 12:10

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260C	Run	Dil Factor	Initial Amount 43 mL	Final Amount 43 mL	Batch Number 13557	Prepared or Analyzed 08/28/17 19:34	Analyst MRS	Lab TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	13559	08/28/17 19:34	MRS	TAL SPK
Total/NA Total/NA	Prep Analysis	3510C NWTPH-Dx		1	236.5 mL	2 mL	13583 13591	08/29/17 09:40 08/29/17 17:29	NMI NMI	TAL SPK TAL SPK

Client Sample ID: GW-060493-082417-CP-VP-3 Date Collected: 08/24/17 11:59 Date Received: 08/25/17 12:10

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	13557	08/28/17 19:54	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	13559	08/28/17 19:54	MRS	TAL SPK
Total/NA	Prep	3510C			225.8 mL	2 mL	13583	08/29/17 09:40	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			13591	08/29/17 17:47	NMI	TAL SPK

Client Sample ID: GW-060493-082417-CP-VP-7 Date Collected: 08/24/17 10:48 Date Received: 08/25/17 12:10

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260C	Run	Dil Factor 20	Initial Amount 43 mL	Final Amount 43 mL	Batch Number 13588	Prepared or Analyzed 08/29/17 13:28	Analyst MRS	Lab TAL SPK
Total/NA	Analysis	NWTPH-Gx		20	43 mL	43 mL	13590	08/29/17 13:28	MRS	TAL SPK
Total/NA Total/NA	Prep Analysis	3510C NWTPH-Dx		1	230.3 mL	2 mL	13583 13591	08/29/17 09:40 08/29/17 18:24		TAL SPK TAL SPK

Client Sample ID: GW-060493-082417-CP-VP-8 Date Collected: 08/24/17 13:16 Date Received: 08/25/17 12:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	13588	08/29/17 13:48	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	13590	08/29/17 13:48	MRS	TAL SPK
Total/NA Total/NA	Prep Analysis	3510C NWTPH-Dx		1	240.3 mL	2 mL	13583 13591	08/29/17 09:40 08/29/17 18:42		TAL SPK TAL SPK

Client Sample ID: Trip Blank Date Collected: 08/24/17 07:15 Date Received: 08/25/17 12:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	13557	08/28/17 21:19	MRS	TAL SPK

12 13 14

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Lab Sample ID: 590-6917-7 Matrix: Water

Lab Sample ID: 590-6917-8

Matrix: Water

Matrix: Water

Lab Sample ID: 590-6917-9

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle/60527984

Laboratory References:

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

TestAmerica Job ID: 590-6917-1

Client: AECOM, Inc. Project/Site: 210 NE 45th St., Seattle/60527984

3 4 5

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.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
GC Semi V	

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	10
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	11
CFL	Contains Free Liquid	
CNF	Contains No Free Liquid	12
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	13
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	14
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: 210 NE 45th St., Seattle/60527984 TestAmerica Job ID: 590-6917-1

12 13

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 Proc	gram	10	C569	01-06-18
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Login Sample Receipt Checklist

Client: AECOM, Inc.

Login Number: 6917 List Number: 1 Creator: Kratz, Sheila J

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td>Lab does not accept radioactive samples.</td>	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

List Source: TestAmerica Spokane