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Subject:

Former BP Facility No. WA-11060 (NW2463) – 2019 Groundwater Monitoring Report

ENVIRONMENT

Date:

November 14, 2019

Site Address: 4580 Fauntleroy Way Southwest, Seattle, WA 98126

On behalf of BP West Coast Products, LLC. (BP), Arcadis U.S., Inc. is pleased to submit this 2019 groundwater monitoring report of groundwater monitoring activities conducted at the Former BP Facility No. 11060 (Site) through third quarter in 2019. Results and findings from work completed at the Site are summarized below and in the attached data tables and figures.

Current Site Use: Active Station

Contact

Ross LaGrandeur

Phone:

206-726-4754

Email:

Ross.LaGrandeur
@arcadis.com

Our ref:

30014464

2019 Groundwater Monitoring Summary

Groundwater Monitoring Schedule: Quarterly

Sample Methodology:

First Quarter:	Low flow purge and sample
Second Quarter:	Low flow purge and sample
Third Quarter:	Low flow purge and sample
Fourth Quarter:	Upcoming

Note: Due to electronic data loss, purge forms are not available for the third quarter event. Extended volatile organic compound analysis was performed on groundwater samples collected from monitoring wells GMW-1, MW-9, MW-11, and MW-12 during the third quarter groundwater monitoring event. Samples for extended volatile organic compound analysis will also be collected from select

wells during the fourth quarter groundwater monitoring event. The upcoming fourth quarter groundwater monitoring will be reported in the annual site status report.

Non-aqueous Phase Liquid Present at Site: No

Site Constituents of Concern (COCs) above Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) during reporting period:

- Total Petroleum Hydrocarbons (TPH) as gasoline range organics:
  First Quarter (Q1) – MW-12;
  Second Quarter (Q2) – GWM-1, MW-12;
  Third Quarter (Q3) – GMW-1, GWM-1 (Duplicate).
- TPH as diesel range organics:
  Q2 – GMW-1, MW-5;
  Q3 – GMW-1, GMW-1 (Duplicate), MW-5.
- Benzene:
  Q2 – MW-2 (Duplicate).

Observed Depth to Water per Event:

First Quarter:	13.90 (MW-6) to 27.33 (MW-5) feet below top of casing (btoc) – 2/20/2019
Second Quarter:	23.80 (MW-9) to 27.45 (EW-3) feet btoc – 5/14/2019
Third Quarter:	25.09 (MW-9) to 27.98 (EW-1 and EW-3) feet btoc – 8/27/2019

Groundwater Elevations and Flow Direction:

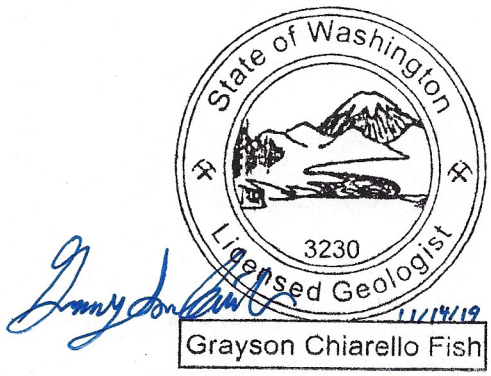
Event	Elevation Range	Interpreted Groundwater Flow Direction
First Quarter:	240.08 (MW-9) to 252.07 (MW-6) feet above North American Vertical Datum 88 (NAVD 88)	East
Second Quarter:	239.55 (MW-9) to 241.45 (MW-4) feet above NAVD 88	East Northeast
Third Quarter:	238.26 (MW-9) to 241.27 (MW-4) feet above NAVD 88	Northeast

The first quarter groundwater elevation from monitoring well MW-6 are anomalous when compared to historical data, including the data collected from the second and third quarter events. The validity of this data cannot be confirmed; therefore, this well was not used in groundwater contour development. Groundwater elevations for this well could have been abnormal due to system operations at the Site or user error.

If you have any questions, please contact Ross LaGrandeur at 206-726-4754 or Ross.LaGrandeur@arcadis.com.

Sincerely,

Arcadis U.S., Inc.



Ross LaGrandeur
Project Manager

Grayson Fish, LG
Task Manager

Copies:

Richard Wright, Property Owner

Enclosures:

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Table 1
Groundwater Gauging Data and Select Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L							**800/1,000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**20**	**0.01**	**5**	**15**	**15**
AS-1	5/7/2015	(NS)	--	23.30	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
AS-1	3/2/2016	(NS)	--	23.31	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
AS-2	3/2/2016	(NS)	--	21.18	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
AS-3	3/2/2016	(NS)	--	21.63	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
AS-4	3/2/2016	(NS)	--	21.65	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
AS-5	3/2/2016	(DRY)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AS-6	3/2/2016	(NS)	--	25.61	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
CW-2	3/2/2016	(NS)	--	19.53	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
CW-3	3/2/2016	(NS)	--	21.57	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
CW-4	3/2/2016	(NS)	--	20.61	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-1	5/9/2013	(NAPL)	268.20	24.49	0.17	243.85	--	--	--	--	--	--	--	--	--	--	--	--
EW-1	5/7/2015	(NAPL)	268.20	25.75	1.02	243.27	--	--	--	--	--	--	--	--	--	--	--	--
EW-1	3/2/2016	(NS)	268.20	24.81	0.0	243.39	--	--	--	--	--	--	--	--	--	--	--	--
EW-1	6/6/2016	(NAPL)	268.20	25.94	0.66	242.79	--	--	--	--	--	--	--	--	--	--	--	--
EW-1	9/12/2016	(NAPL)	268.20	26.89	0.73	241.89	--	--	--	--	--	--	--	--	--	--	--	--
EW-1	12/12/2016	(NAPL)	268.20	25.49	0.79	243.34	--	--	--	--	--	--	--	--	--	--	--	--
EW-1	2/22/2017	(NAPL)	268.20	24.98	0.78	243.84	--	--	--	--	--	--	--	--	--	--	--	--
EW-1	8/29/2017	(NAPL)	268.20	26.28	0.60	242.40	--	--	--	--	--	--	--	--	--	--	--	--
EW-1	10/25/2018	(NS)	268.20	27.52	0.0	240.68	--	--	--	--	--	--	--	--	--	--	--	--
EW-1	2/20/2019	(NS)	268.20	26.85	0.0	241.35	--	--	--	--	--	--	--	--	--	--	--	--
EW-1	5/14/2019	(NS)	268.20	27.18	0.0	241.02	--	--	--	--	--	--	--	--	--	--	--	--
EW-1	8/27/2019	(NS)	268.20	27.98	0.0	240.22	--	--	--	--	--	--	--	--	--	--	--	--
EW-2	5/9/2013	(NS)	267.93	24.11	0.0	243.82	--	--	--	--	--	--	--	--	--	--	--	--
EW-2	5/7/2015	(NS)	267.93	24.78	0.0	243.15	--	--	--	--	--	--	--	--	--	--	--	--
EW-2	3/2/2016	(NS)	267.93	24.80	0.0	243.13	--	--	--	--	--	--	--	--	--	--	--	--
EW-2	6/6/2016	(NS)	267.93	25.17	0.0	242.76	--	--	--	--	--	--	--	--	--	--	--	--
EW-2	9/12/2016	(NS)	267.93	26.22	0.0	241.71	--	--	--	--	--	--	--	--	--	--	--	--
EW-2	12/12/2016	(NS)	267.93	24.64	0.0	243.29	--	--	--	--	--	--	--	--	--	--	--	--
EW-2	2/22/2017	(NS)	267.93	24.10	0.0	243.83	--	--	--	--	--	--	--	--	--	--	--	--
EW-2	8/29/2017	(NS)	267.93	25.56	0.0	242.37	--	--	--	--	--	--	--	--	--	--	--	--
EW-2	10/25/2018	(NS)	267.93	27.30	0.0	240.62	--	--	--	--	--	--	--	--	--	--	--	--
EW-2	2/20/2019	(NS)	267.93	26.52	0.0	241.41	--	--	--	--	--	--	--	--	--	--	--	--
EW-2	5/14/2019	(NS)	267.93	26.96	0.0	240.97	--	--	--	--	--	--	--	--	--	--	--	--
EW-2	8/27/2019	(NS)	267.93	27.65	0.0	240.28	--	--	--	--	--	--	--	--	--	--	--	--
EW-3	5/9/2013	(NAPL)	268.50	24.90	0.31	243.85	--	--	--	--	--	--	--	--	--	--	--	--
EW-3	5/7/2015	(NAPL)	268.50	25.77	2.54	244.76	--	--	--	--	--	--	--	--	--	--	--	--
EW-3	3/2/2016	(NAPL)	268.50	25.44	0.25	243.26	--	--	--	--	--	--	--	--	--	--	--	--
EW-3	9/12/2016	(NAPL)	268.50	27.17	1.54	242.56	--	--	--	--	--	--	--	--	--	--	--	--
EW-3	12/12/2016	(NAPL)	268.50	25.58	0.83	243.58	--	--	--	--	--	--	--	--	--	--	--	--
EW-3	2/22/2017	(NAPL)	268.50	25.06	0.84	244.11	--	--	--	--	--	--	--	--	--	--	--	--
EW-3	8/29/2017	(NAPL)	268.50	26.75	0.76	242.36	--	--	--	--	--	--	--	--	--	--	--	--
EW-3	10/25/2018	(NS)	268.50	27.81	0.0	240.69	--	--	--	--	--	--	--	--	--	--	--	--
EW-3	2/20/2019	(NS)	268.50	26.93	0.0	241.57	--	--	--	--	--	--	--	--	--	--	--	--
EW-3	5/14/2019	(NS)	268.50	27.45	0.0	241.05	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Groundwater Gauging Data and Select Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L							**800/1,000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**20**	**0.01**	**5**	**15**	**15**
EW-3	8/27/2019	(NS)	268.50	27.98	0.0	240.52	--	--	--	--	--	--	--	--	--	--	--	--
GMW-1	5/10/2011	(NP)	--	22.08	0.0	--	**5,930**	**1,900**	<420	2.4	<1.0	69.7	94.8	<1.0	--	--	**28.4**	--
GMW-1	11/29/2011	(NP)	--	23.83	0.0	--	**6,080**	**610**	<380	<1.0	<1.0	86.9	113	--	--	--	<10.0	--
GMW-1	6/1/2012	(NM)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMW-1	11/29/2012	(NM)	265.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMW-1	5/9/2013	(NP)	265.63	22.58	0.0	243.05	**1,010**	<420	<420	<1.0	<1.0	4.4	4.6	<1.0	--	--	<10.0	<10.0
GMW-1	11/19/2013	(NP)	265.63	24.00	0.0	241.63	**1,400**	**2,500**	<73	<0.50	<0.70	6.6	6.8	<0.50	--	--	**16.7**	1.2
GMW-1	5/13/2014	(NS)	265.63	22.83	0.0	242.80	--	--	--	--	--	--	--	--	--	--	--	--
GMW-1	5/14/2014	(NP)	265.63	--	--	--	590	**560**	<66	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	<4.7	<4.7
GMW-1	5/7/2015	(NP)	265.63	23.48	0.0	242.15	**1,600**	480	<66	<0.50	<0.50	10	10	<0.50	--	--	<4.7	<4.7
GMW-1	3/2/2016	(NP)	265.63	22.48	0.0	243.15	**1,400**	<46	<100	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
GMW-1	6/6/2016	(NP)	265.63	23.51	0.0	242.12	**3,300**	130	<100	<0.50	<0.50	5.3	4.0	<0.50	--	--	--	--
GMW-1	9/12/2016	(NP)	265.63	24.89	0.0	240.74	**4,600**	210	<67	<0.50	<0.50	32	34	<0.50	--	--	--	--
GMW-1	9/12/2016	(Dup)(NP)	265.63	24.89	0.0	240.74	**4,400**	310	120(J)	<0.50	<0.50	32	34	<0.50	--	--	--	--
GMW-1	12/12/2016	(NP)	265.63	22.95	0.0	242.68	350	<50	400	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
GMW-1	2/22/2017	(NP)	265.63	22.02	0.0	243.61	82.2(J)	<82.5	<165	<0.331	<0.412	<0.384	<1.06	<0.367	--	--	--	--
GMW-1	8/29/2017	(NP)	265.63	23.86	0.0	241.77	**2,070**	216	104(J)	<0.331	0.480(J)	2.45	2.66(J)	<0.367	--	--	--	--
GMW-1	3/13/2018	(NP)	265.63	23.20	0.0	242.43	**2,500**	99.7(J)	<250	<1.00	<1.00	0.394(J)	<3.00	<1.00	--	--	--	--
GMW-1	10/25/2018	(LFP)	265.63	26.22	0.06	239.45	**4,200**	**9,050**	346(J)	<1.00	<1.00	9.58	12.8	<1.00	<0.0100	<1.00	**16.2**	14.5
GMW-1	10/25/2018	(Dup)(LFP)	265.63	26.22	0.06	239.45	**3,760**	**8,430**	306	<1.00	<1.00	12.4	13.2	<1.00	<0.0100	<1.00	12.3	9.21
GMW-1	2/20/2019	(LFP)	265.63	24.34	0.0	241.29	773(B)	143(J)	<83.3	<0.331	<0.412	<0.384	<1.06	<0.367	<0.00240	<0.361	<1.90	<1.90
GMW-1	5/13/2019	(LFP)	265.63	25.28	0.0	240.35	985	**771**	<83.3	<0.331	<0.412	2.4	4.18	<0.367	<0.00240	<0.361	<1.90	--
GMW-1	8/27/2019	(LFP)	265.63	26.68	0.0	238.95	**2,750**	**777**	<167	<0.0896	<0.412	12.0	13.9	<0.102	<0.00240	<0.108	8.01	--
GMW-1	8/27/2019	(DUP)(LFP)	265.63	26.68	0.0	238.95	**2,570**	**785**	<167	<0.0896	<0.412	11.5	13.1	<0.102	<0.00240	<0.108	9.72	--
MW-1	5/11/1993		99.89	23.02	--	76.87	**3,300**	--	--	**82**	11	8	14	--	--	--	--	--
MW-1	3/4/1994		99.89	24.32	--	75.57	**830**	**580**	--	**6**	3	3	11	--	--	--	**38**	<3
MW-1	7/6/1994		99.89	24.60	--	75.29	**900**	<250	--	5	<0.5	2	10	--	--	--	--	--
MW-1	10/7/1994		99.89	24.97	--	74.92	**1,500**	--	--	**6**	<0.5	3	11	--	--	--	--	--
MW-1	12/28/1994		99.89	24.86	--	75.03	**1,400**	--	--	5	<0.5	2	7	--	--	--	--	--
MW-1	3/13/1995		99.89	24.16	--	75.73	**1,400**	--	--	**16**	<0.5	3	9	--	--	--	--	--
MW-1	6/30/1995		99.89	23.98	--	75.91	**1,400**	--	--	4	<0.5	3	7	--	--	--	--	--
MW-1	9/6/1995		99.89	24.30	--	75.59	**1,300**	--	--	5	<0.5	3	6	--	--	--	--	--
MW-1	12/8/1995		99.89	24.41	--	75.48	**1,300**	--	--	**7**	2	2	7	--	--	--	--	--
MW-1	3/11/1996		99.89	23.11	--	76.78	**900**	--	--	3	<0.5	<0.5	1	--	--	--	--	--
MW-1	6/18/1996		99.89	22.80	--	77.09	400	--	--	1	1	<0.5	2	--	--	--	--	--
MW-1	9/9/1996		99.89	23.11	--	76.78	600	--	--	2	<0.5	1	1	13	--	--	--	--
MW-1	12/11/1996		99.89	23.07	--	76.82	710	--	--	4	2	2	4	<10	--	--	--	--
MW-1	3/13/1997		99.89	22.12	--	77.77	100	--	--	<0.5	<0.5	<0.5	<1.0	<5	--	--	--	--
MW-1	6/5/1997		99.89	21.75	--	78.14	250	--	--	2	2	<0.5	<1.5	5	--	--	--	--
MW-1	9/5/1997		99.89	22.03	--	77.86	300	--	--	**8**	4	2	6	8	--	--	--	--
MW-1	4/2/1998		99.89	21.27	--	78.62	210	--	--	1	3	<0.5	<1.5	<5	--	--	--	--
MW-1	6/8/1998		99.89	21.53	--	78.36	300	--	--	<0.5	3	1	4	6	--	--	--	--
MW-1	12/9/1998		99.89	22.22	--	77.67	<500	--	--	<0.5	<5.0	<5.0	<5.0	<5.0	--	--	--	--
MW-1	6/26/1999		99.89	21.08	--	78.81	<100	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--
MW-1	9/28/1999		99.89	21.88	--	78.01	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	1/19/2000		99.89	21.46	--	78.43	<50	--	--	<0.5	4	1	3	<0.5	--	--	--	--

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All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L							**800/1,000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**20**	**0.01**	**5**	**15**	**15**
MW-1	3/24/2000		99.89	21.40	--	78.49	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	7/2/2000		99.89	21.92	--	77.97	120	--	--	1	<0.5	1	2	2	--	--	--	--
MW-1	9/14/2000		99.89	22.54	--	77.35	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	12/14/2000		99.89	22.81	--	77.08	**1,700**	--	--	**<10**	19	<10	<30	**<40**	--	--	--	--
MW-1	9/22/2001		99.89	23.55	--	76.34	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	12/9/2001		99.89	23.63	--	76.26	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	3/20/2002		99.89	22.88	--	77.01	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	6/11/2002		99.89	23.02	--	76.87	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	12/21/2002	(NS)	99.89	24.54	--	75.35	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	3/19/2003	(NS)	99.89	24.50	--	75.39	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	6/18/2003	(NS)	99.89	24.36	--	75.53	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	9/23/2003	(NS)	99.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	10/21/2003	(P)	99.89	25.04	--	74.85	**3,270**	--	--	**32.5**	4.61	17.3	19.2	<1.00	--	--	--	--
MW-1	6/29/2004	(NS)	99.89	24.22	--	75.67	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	11/15/2004	(NS)	99.89	25.11	--	74.78	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	4/14/2005	(NS)	99.89	25.10	--	74.79	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	12/18/2005	(NP)	99.89	25.46	--	74.43	**2,960**	--	--	**10.8**	2.04	1.23	2.76	<1.00	--	--	--	--
MW-1	6/11/2006	(NP)	99.89	24.54	--	75.35	**1,840**	--	--	**11.4**	1.12	1.6	2.34	19.8	--	--	--	--
MW-1	11/5/2006	(NP)	99.89	25.59	--	74.30	**3,880**	--	--	**73.2**	6.12	2.04	<6.00	--	--	--	--	--
MW-1	9/25/2007	(NP)	99.89	25.08	--	74.81	**1,640**	--	--	**27.8**	1.67	0.86	<3.00	--	--	--	--	--
MW-1	12/31/2007	(NP)	99.89	25.23	--	74.66	**1,970**	--	--	**22.7**	1.34	1.03	<3.00	--	--	--	--	--
MW-1	5/29/2008	(NP)	99.89	25.01	--	74.88	**2,370**	--	--	3.58	0.58	<0.500	<3.00	--	--	--	--	--
MW-1	10/28/2008	(NP)	99.89	25.80	--	74.09	**1,450**	--	--	2.8	1.07	<0.500	<3.00	--	--	--	--	--
MW-1	6/22/2009	(NP)	99.89	26.11	--	73.78	**2,200**	--	--	**30**	5.7	24	30.5	--	--	--	4.9	<2.00
MW-1	12/15/2009	(NP)	99.89	26.31	--	73.58	**1,500**	--	--	**11**	2	4.8	3.6	--	--	--	3.8	<2.00
MW-1	5/24/2010	(NP)	267.43	25.20	--	242.23	**940**	--	--	**18**	<2.5	<2.5	6.4	--	--	--	--	--
MW-1	5/24/2010	(Dup)(NP)	267.43	25.20	--	242.23	**940**	--	--	**22**	<2.5	<2.5	6.8	--	--	--	--	--
MW-1	10/12/2010	(NP)	267.43	25.09	0.0	242.34	**849**	--	--	2.8	<1.0	1.2	<3.0	5.2	--	--	<10.0	--
MW-1	5/10/2011	(NP)	267.43	23.60	0.0	243.83	642	**840**	<420	**17.8**	6.6	1.8	10.9	2.5	--	--	<10.0	--
MW-1	11/29/2011	(NP)	267.43	24.84	0.0	242.59	**815**	<75	<380	**5.5**	<1.0	<1.0	<3.0	--	--	--	10.3	--
MW-1	6/1/2012	(NP)	267.43	23.67	0.0	243.76	544	362	<396	3.6	<1.0	<1.0	3.0	7.4	--	--	<10.0	<10.0
MW-1	11/29/2012	(NP)	267.43	24.00	0.0	243.43	**1,320**	<430	<430	1.2	<1.0	<1.0	<3.0	<1.0	--	--	11.3	<3.0
MW-1	5/9/2013	(NP)	267.43	23.79	0.0	243.64	557	**620**	<430	**6.3**	<1.0	<1.0	4.1	1.6	--	--	<10.0	<10.0
MW-1	11/19/2013	(NP)	267.43	25.30	0.0	242.13	470	400	320	1.9(J)	<0.70	<0.80	1.7(J)	1.5(J)	--	--	4.8	0.15(J)
MW-1	5/13/2014	(NP)	267.43	24.12	0.0	243.31	490	250	110(J)	1.4	<0.50	<0.50	0.57(J)	0.67(J)	--	--	6.9(J)	<4.7
MW-1	5/7/2015	(NP)	267.43	24.26	0.0	243.17	610	270	190(J)	1.2	<0.50	<0.50	<0.50	<0.50	--	--	**18.7**	7.1(J)
MW-1	3/2/2016	(NP)	267.43	24.53	0.0	242.90	460	140	<110	1.2	<0.50	0.77(J)	3.0	<0.50	--	--	--	--
MW-1	6/6/2016	(NS)	267.43	24.82	0.0	242.61	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	9/12/2016	(NS, IW)	267.43	26.88	0.0	240.55	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	12/12/2016	(NS)	267.43	24.76	0.0	242.67	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	2/22/2017	(NP)	267.43	24.11	0.0	243.32	212	447	222(J)	<0.331	<0.412	<0.384	<1.06	<0.367	--	--	--	--
MW-1	8/29/2017	(NP)	267.43	25.20	0.0	242.23	526	**611**	450	<0.331	<0.412	<0.384	<1.06	<0.367	--	--	--	--
MW-1	3/13/2018	(NP)	267.43	25.35	0.0	242.08	298(B)	369	352	<1.00	<1.00	<1.00	<3.00	<1.00	--	--	--	--
MW-1	10/25/2018	(NS)	267.43	26.43	0.0	240.99	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	2/20/2019	(NS)	267.43	26.37	0.0	241.06	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	2/22/2019	(NP)	267.43	26.33	0.0	241.10	<31.6	369	322	<0.331	<0.412	<0.384	<1.06	<0.367	<0.00240	<0.361	<1.90	<1.90
MW-1	5/14/2019	(NP)	267.43	26.70	0.0	240.73	40.0(J)	271	220(J)	<0.331	<0.412	<0.384	<1.06	<0.367	<0.00240	<0.361	<1.90	<1.90

Table 1
Groundwater Gauging Data and Select Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L							**800/1,000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**20**	**0.01**	**5**	**15**	**15**
MW-1	8/27/2019	(NS)	267.43	27.20	0.0	240.23	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	5/11/1993		99.05	22.98	--	76.07	**17,000**	--	--	**2,500**	48	100	240	--	--	--	--	--
MW-2	3/4/1994		99.05	24.30	--	74.75	**4,300**	**1,300**	--	**1,500**	20	130	180	--	--	--	5	<3
MW-2	7/6/1994		99.05	24.54	--	74.51	**4,400**	390	--	**1,100**	16	53	97	--	--	--	--	--
MW-2	10/7/1994		99.05	24.94	--	74.11	**4,400**	--	--	**1,100**	18	57	82	--	--	--	--	--
MW-2	12/28/1994		99.05	24.60	--	74.45	**2,100**	--	--	**250**	5	13	14	--	--	--	--	--
MW-2	3/13/1995		99.05	23.84	--	75.21	**2,700**	--	--	**200**	12	29	50	--	--	--	--	--
MW-2	6/30/1995		99.05	23.72	--	75.33	**3,400**	--	--	**400**	8	50	39	--	--	--	--	--
MW-2	9/6/1995		99.05	23.97	--	75.08	**3,400**	--	--	**350**	8	50	35	--	--	--	--	--
MW-2	12/8/1995		99.05	23.97	--	75.08	**3,100**	--	--	**610**	5	29	36	--	--	--	--	--
MW-2	3/11/1996		99.05	22.66	--	76.39	**5,400**	--	--	**280**	12	100	120	--	--	--	--	--
MW-2	6/18/1996		99.05	22.18	--	76.87	**4,500**	--	--	**280**	12	130	56	--	--	--	--	--
MW-2	9/9/1996		99.05	22.72	--	76.33	**4,100**	--	--	**790**	5	78	35	<1.0	--	--	--	--
MW-2	12/11/1996		99.05	22.67	--	76.38	**3,700**	--	--	**460**	13	65	41	**43**	--	--	--	--
MW-2	3/13/1997		99.05	21.91	--	77.14	**3,200**	--	--	**140**	12	130	48	**<50**	--	--	--	--
MW-2	6/5/1997		99.05	21.06	--	77.99	**3,400**	--	--	**160**	22	180	79	**<100**	--	--	--	--
MW-2	9/5/1997		99.05	21.74	--	77.31	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	4/2/1998		99.05	20.71	--	78.34	**4,700**	--	--	**170**	51	35	210	**<50**	--	--	--	--
MW-2	6/8/1998		99.05	21.25	--	77.80	**3,800**	--	--	**420**	26	150	75	**140**	--	--	--	--
MW-2	9/17/1998		99.05	22.10	--	76.95	**2,900**	--	--	**720**	15	79	44	<5.0	--	--	--	--
MW-2	12/9/1998		99.05	21.99	--	77.06	**4,500**	--	--	**520**	8	100	62	<5.0	--	--	--	--
MW-2	3/17/1999		99.05	19.67	--	79.38	**5,000**	--	--	**19**	27	300	230	<5.0	--	--	--	--
MW-2	6/26/1999		99.05	21.26	--	77.79	**3,400**	--	--	**400**	29	160	130	13	--	--	--	--
MW-2	9/28/1999		99.05	21.75	--	77.30	**7,300**	--	--	**690**	20	23	110	**87**	--	--	--	--
MW-2	1/19/2000		99.05	21.12	--	77.93	**8,700**	--	--	**920**	20	260	74	<0.5	--	--	--	--
MW-2	3/24/2000		99.05	20.74	--	78.31	**10,000**	--	--	**310**	79	240	97	<5	--	--	--	--
MW-2	7/2/2000		99.05	21.51	--	77.54	**8,200**	--	--	**520**	35	190	85	**49**	--	--	--	--
MW-2	9/14/2000		99.05	22.31	--	76.74	**14,000**	--	--	**1,100**	100	110	100	<5	--	--	--	--
MW-2	12/14/2000		99.05	22.97	--	76.08	**15,000**	--	--	**740**	<10	68	<30	**<40**	--	--	--	--
MW-2	9/22/2001		99.05	23.59	--	75.46	**12,000**	--	--	**180**	9	240	110	20	--	--	--	--
MW-2	12/9/2001		99.05	23.27	--	75.78	**14,000**	--	--	**310**	9.5	100	96	<4.0	--	--	--	--
MW-2	3/20/2002		99.05	22.41	--	76.64	**15,000**	--	--	**250**	<5.0	220	98	**280**	--	--	--	--
MW-2	6/11/2002		99.05	22.61	--	76.44	**13,000**	--	--	**290**	<10	160	57	**<40**	--	--	--	--
MW-2	12/21/2002	(P)	99.05	24.30	--	74.75	**5,970**	--	--	**111**	13.4	211	70.3	**148**	--	--	--	--
MW-2	3/19/2003	(P)	99.05	23.90	0.0	75.15	**5,270**	--	--	**79.9**	8.71	156	55	**<25.0**	--	--	--	--
MW-2	6/18/2003	(P)	99.05	23.87	--	75.18	**6,770**	--	--	**36.7**	14.7	245	119	**143**	--	--	--	--
MW-2	9/23/2003	(P)	99.05	24.33	0.0	74.72	**6,490**	--	--	**40.5**	15.8	179	103	<20.0	--	--	--	--
MW-2	10/21/2003	(P)	99.05	24.38	--	74.67	**4,600**	--	--	**31.1**	9.38	86	61	<1.00	--	--	--	--
MW-2	6/29/2004	(NP)	99.05	23.74	--	75.31	**5,550**	--	--	**17.8**	11.2	228	76.5	**95.2**	--	--	--	--
MW-2	11/15/2004	(NP)	99.05	24.70	--	74.35	**5,670**	--	--	**12.3**	6.11	135	63.3	<2.00	--	--	--	--
MW-2	4/14/2005	(NP)	99.05	24.69	--	74.36	**4,680**	--	--	**130**	2.8	41.8	26.6	<2.00	--	--	--	--
MW-2	12/18/2005	(NP)	99.05	25.15	--	73.90	**5,700**	--	--	**122**	3.5	43.9	27.8	<5.00	--	--	--	--
MW-2	6/11/2006	(NP)	99.05	24.01	--	75.04	**5,450**	--	--	4.48	5.8	118	56.7	<2.00	--	--	--	--
MW-2	11/5/2006	(NP)	99.05	25.40	--	73.65	**7,490**	--	--	**263**	<5.00	46.2	<30.0	--	--	--	--	--
MW-2	9/25/2007	(NP)	99.05	24.72	--	74.33	**7,530**	--	--	**715**	9.74	50.8	64	--	--	--	--	--
MW-2	12/31/2007	(NP)	99.05	24.67	--	74.38	**6,000**	--	--	**477**	10.6	69.3	76.3	--	--	--	--	--
MW-2	5/29/2008	(NP)	99.05	24.73	--	74.32	**9,600**	--	--	**648**	11.1	55.9	48.4	--	--	--	--	--

Table 1
Groundwater Gauging Data and Select Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L							**800/1,000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**20**	**0.01**	**5**	**15**	**15**
MW-2	10/28/2008	(NP)	99.05	25.74	--	73.31	**10,300**	--	--	**1,430**	16	194	145	--	--	--	--	--
MW-2	6/22/2009	(NP)	99.05	25.91	--	73.14	**4,800**	--	--	**1,200**	40	100	130	--	--	--	<2.00	<2.00
MW-2	12/15/2009	(NP)	99.05	25.87	--	73.18	**4,300**	--	--	**1,600**	8.2	66	82	--	--	--	<2.00	<2.00
MW-2	5/24/2010	(NP)	266.69	24.64	--	242.05	**4,200**	--	--	**320**	7.7	69	84	--	--	--	--	--
MW-2	10/12/2010	(NP)	266.69	25.03	0.0	241.66	**3,590**	--	--	**1,890**	14.8	54.8	39.7	15.5	--	--	<10.0	--
MW-2	5/10/2011	(NP)	266.69	23.23	0.0	243.46	**5,520**	**1,000**	**2,000**	**281**	4.2	69.9	49.9	7.3	--	--	<10.0	--
MW-2	5/10/2011	(Dup)(NP)	266.69	23.23	0.0	243.46	**5,000**	**850**	**1,600**	**156**	3.9	76.3	53.2	5.6	--	--	<10.0	--
MW-2	11/29/2011	(NP)	266.69	24.82	0.0	241.87	**5,640**	98	<380	**549**	7.0	82.6	61.6	--	--	--	<10.0	--
MW-2	6/1/2012	(NP)	266.69	23.60	0.0	243.09	**2,940**	**2,240**	**3,080**	**107**	12.7	64.2	46.1	5.0	--	--	10.0	<10.0
MW-2	11/29/2012	(NP)	266.69	23.86	0.0	242.83	**10,400**	**2,100**	**760**	**399**	10.2	187	154	14.7	--	--	7.7	3.2
MW-2	5/9/2013	(NP)	266.69	23.41	0.0	243.28	**3,660**	**1,700**	<400	**42.9**	6.2	115	35.4	<5.0	--	--	12.3	<10.0
MW-2	5/9/2013	(Dup)(NP)	266.69	23.41	0.0	243.28	**4,210**	**2,700**	420	**63.4**	8.5	124	47.7	<5.0	--	--	12.4	<10.0
MW-2	11/19/2013	(NP)	266.69	24.40	0.0	242.99	**1,400**	280	100(J)	**7.3**	4.4(J)	17	40	6.3	--	--	9.8	3.2
MW-2	11/19/2013	(Dup)(NP)	266.69	24.40	0.0	242.99	**1,700**	--	--	**8.8**	6.4	17	46	6.4	--	--	--	--
MW-2	5/13/2014	(NP)	266.69	23.74	0.0	242.95	**3,100**	**1,800**	**880**	**79**	3.3(J)	58	20	6.0	--	--	6.6(J)	<4.7
MW-2	5/7/2015	(NP)	266.69	24.14	0.0	242.55	**2,700**	**1,900**	**690**	**33**	6.1	91	32	2.4	--	--	**34.1**	<4.7
MW-2	5/7/2015	(Dup)(NP)	266.69	24.14	0.0	242.55	**2,100**	--	--	**27**	5.1	74	25	1.9(J)	--	--	--	--
MW-2	3/2/2016	(NP)	266.69	23.79	0.0	242.90	**5,100**	**1,600**	<100	**54**	5.3(J)	94	26	<5.0	--	--	--	--
MW-2	6/6/2016	(NP)	266.69	24.49	0.0	242.20	**5,000**	**880**	**790**	**43**	4.9	92	21	1.1(J)	--	--	--	--
MW-2	6/6/2016	(Dup)(NP)	266.69	24.49	0.0	242.20	**4,900**	**1,300**	**810**	**28**	5.3	94	26	<1.0	--	--	--	--
MW-2	9/12/2016	(NP)	266.69	26.69	0.0	240.00	**5,000**	**710**	**660**	**130**	6.5	83	20	2.2	--	--	--	--
MW-2	12/12/2016	(NP)	266.69	23.96	0.0	242.73	**1,000**	**590**	<110	4.1	0.74(J)	12	10	<0.50	--	--	--	--
MW-2	12/12/2016	(Dup)(NP)	266.69	23.96	0.0	242.73	**1,900**	400	**860**	0.80(J)	<0.50	6.7	1.9	<0.50	--	--	--	--
MW-2	2/22/2017	(NP)	266.69	23.18	0.0	243.51	**1,310**	**1,370**	321(J)	<0.331	<0.412	2.06	2.08(J)	<0.367	--	--	--	--
MW-2	8/29/2017	(NP)	266.69	24.86	0.0	241.83	**10,000**	**1,070**	242(J)	**27.4**	10.7	90.9	29.4	<0.367	--	--	--	--
MW-2	8/29/2017	(Dup)(NP)	266.69	24.86	0.0	241.83	**12,200**	**1,420**	423	**31.4**	8.19	98.2	30.5	<0.367	--	--	--	--
MW-2	3/13/2018	(NP)	266.69	24.45	0.0	242.24	**3,110**	**2,360**	**742**	**7.65**	11.5	90.0	14.6	<1.00	--	--	--	--
MW-2	3/13/2018	(Dup)(NP)	266.69	24.45	0.0	242.24	**5,340**	**693**	247(B J J3)	**7.00**	13.7	88.4	14.5	<1.00	--	--	--	--
MW-2	10/25/2018	(LFP)	266.69	26.85	0.0	239.84	171(B)	**788**	444	<1.00	<1.00	<1.00	<3.00	<1.00	<0.0100	<1.00	**25.5**	0.623(J)
MW-2	2/20/2019	(LFP)	266.69	25.27	0.0	241.42	85.8(BJ)	199(J)	175(J)	<0.331	<0.412	<0.384	<1.06	<0.367	<0.00240	<0.361	<1.90	<1.90
MW-2	2/20/2019	(DUP)(LFP)	266.69	25.27	0.0	241.42	<31.6	--	--	<0.331	<0.412	<0.384	<1.06	<0.367	--	<0.361	--	--
MW-2	5/14/2019	(LFP)	266.69	26.20	0.0	240.49	40.0(J)	250	197(J)	1.45	<0.412	<0.384	<1.06	<0.367	<0.00240	<0.361	<1.90	--
MW-2	5/14/2019	(DUP)(LFP)	266.69	26.20	0.0	240.49	<31.6	284	284	**5.16**	<0.412	<0.384	<1.06	<0.367	<0.00240	<0.361	2.20(J)	--
MW-2	8/27/2019	(NS)	266.69	27.30	0.0	239.39	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	6/7/1993		98.53	22.28	--	76.25	**2,200**	--	--	**140**	7	13	14	--	--	--	--	--
MW-3	3/4/1994		98.53	23.62	--	74.91	**1,200**	**590**	--	**99**	2	11	10	--	--	--	4	<3
MW-3	7/6/1994		98.53	23.84	--	74.69	**1,500**	270	--	**44**	6	26	27	--	--	--	--	--
MW-3	10/7/1994		98.53	24.21	--	74.32	**1,500**	--	--	**63**	4	16	13	--	--	--	--	--
MW-3	12/28/1994		98.53	23.91	--	74.62	**1,800**	--	--	**77**	3	13	9	--	--	--	--	--
MW-3	3/13/1995		98.53	23.12	--	75.41	**1,700**	--	--	**87**	4	18	10	--	--	--	--	--
MW-3	6/30/1995		98.53	23.87	--	74.66	**1,800**	--	--	**90**	3	52	13	--	--	--	--	--
MW-3	9/6/1995		98.53	23.14	--	75.39	**1,700**	--	--	**96**	3	41	14	--	--	--	--	--
MW-3	12/8/1995		98.53	23.20	--	75.33	**1,800**	--	--	**73**	4	23	15	--	--	--	--	--
MW-3	3/11/1996		98.53	21.63	--	76.90	**2,800**	--	--	**120**	11	170	36	--	--	--	--	--
MW-3	6/18/1996		98.53	21.20	--	77.33	**3,500**	--	--	**150**	18	320	59	--	--	--	--	--
MW-3	9/9/1996		98.53	21.67	--	76.86	**3,500**	--	--	**62**	16	220	96	15	--	--	--	--
MW-3	12/11/1996		98.53	21.87	--	76.66	**2,100**	--	--	**96**	9	<0.5	34	<10	--	--	--	--

Table 1
Groundwater Gauging Data and Select Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L							**800/1,000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**20**	**0.01**	**5**	**15**	**15**
MW-3	3/13/1997		98.53	20.67	--	77.86	**3,100**	--	--	**97**	13	250	65	**<50**	--	--	--	--
MW-3	6/5/1997		98.53	19.83	--	78.70	**3,900**	--	--	**46**	19	250	130	**<100**	--	--	--	--
MW-3	9/5/1997		98.53	20.72	--	77.81	**4,400**	--	--	**98**	29	270	140	<5	--	--	--	--
MW-3	4/2/1998		98.53	19.63	--	78.90	**3,700**	--	--	**80**	25	320	150	**<50**	--	--	--	--
MW-3	6/8/1998		98.53	20.26	--	78.27	**3,500**	--	--	**60**	22	240	96	**<50**	--	--	--	--
MW-3	9/17/1998		98.53	21.21	--	77.32	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	12/9/1998		98.53	21.06	--	77.47	**3,200**	--	--	**63**	9	170	59	<5.0	--	--	--	--
MW-3	3/17/1999		98.53	18.72	--	79.81	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	6/26/1999		98.53	19.92	--	78.61	**3,100**	--	--	**72**	16	270	52	**56**	--	--	--	--
MW-3	9/28/1999		98.53	20.79	--	77.74	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	1/19/2000		98.53	20.19	--	78.34	**5,700**	--	--	**72**	29	430	110	<0.5	--	--	--	--
MW-3	3/24/2000		98.53	19.64	--	78.89	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	7/2/2000		98.53	20.53	--	78.00	**3,300**	--	--	**35**	18	230	64	7	--	--	--	--
MW-3	9/14/2000		98.53	21.34	--	77.19	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	12/14/2000		98.53	21.90	--	76.63	**5,500**	--	--	**40**	<10	210	<30	**<40**	--	--	--	--
MW-3	9/22/2001		98.53	22.82	--	75.71	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	12/9/2001		98.53	22.50	--	76.03	**4,200**	--	--	**42**	4.1	77	22	<4.0	--	--	--	--
MW-3	3/20/2002		98.53	21.55	--	76.98	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	6/11/2002		98.53	21.69	--	76.84	**8,400**	--	--	**77**	<5.0	320	54	<20	--	--	--	--
MW-3	12/21/2002		98.53	24.37	--	74.16	**3,440**	--	--	**37.7**	3.31	68.6	18.3	**39.3**	--	--	--	--
MW-3	3/19/2003	(NS)	98.53	23.17	--	75.36	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	6/18/2003		98.53	22.82	--	75.71	**4,020**	--	--	**39.1**	4.22	113	30.3	**62.6**	--	--	--	--
MW-3	9/23/2003	(NS)	98.53	23.55	--	74.98	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	10/21/2003		98.53	23.52	--	75.01	**3,190**	--	--	**19.8**	2.92	31.2	16.3	<1.00	--	--	--	--
MW-3	6/29/2004	(NS)	98.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	11/15/2004	(NP)	98.53	23.95	--	74.58	**3,170**	--	--	**15.8**	2.36	20.9	11.1	2.36	--	--	--	--
MW-3	4/14/2005	(NP)	98.53	23.90	--	74.63	**3,340**	--	--	**17.1**	5.21	14.3	11.2	<2.00	--	--	--	--
MW-3	12/18/2005	(NP)	98.53	24.42	--	74.11	**4,150**	--	--	**15.1**	2.92	20.7	15.1	<1.00	--	--	--	--
MW-3	6/11/2006	(NP)	98.53	23.48	--	75.05	**4,000**	--	--	**20.9**	3.6	30	21.3	1.11	--	--	--	--
MW-3	11/5/2006	(NP)	98.53	24.59	--	73.94	**4,970**	--	--	**16.8**	2.85	19	16.6	--	--	--	--	--
MW-3	9/25/2007	(NP)	98.53	23.84	--	74.69	**4,530**	--	--	**18.2**	2.34	17.1	13.8	--	--	--	--	--
MW-3	12/31/2007	(NP)	98.53	23.83	--	74.70	**4,490**	--	--	**16.5**	2.38	32.7	16.1	--	--	--	--	--
MW-3	5/29/2008	(NP)	98.53	23.90	--	74.63	**5,350**	--	--	**16.5**	1.83	14.4	15	--	--	--	--	--
MW-3	10/28/2008	(NP)	98.53	24.97	--	73.56	**3,250**	--	--	**14.4**	1.86	13.8	10.3	--	--	--	--	--
MW-3	6/22/2009	(NP)	98.53	25.29	--	73.24	**2,000**	--	--	**15**	1.7	35	7.3	--	--	--	<2.00	<2.00
MW-3	12/15/2009	(NP)	98.53	25.14	--	73.39	**2,100**	--	--	**13**	1.5	28	7.3	--	--	--	7.7	<2.00
MW-3	5/24/2010	(NP)	266.00	24.10	--	241.90	**2,300**	--	--	**29**	6.2	28	19	--	--	--	--	--
MW-3	10/12/2010	(NP)	266.00	24.40	0.0	241.60	**2,380**	--	--	**31.1**	<1.0	16.6	4.7	<1.0	--	--	<10.0	--
MW-3	5/10/2011	(NP)	266.00	22.55	0.0	243.45	**3,280**	**820**	**840**	**33.6**	1.2	57.5	7.9	2.4	--	--	<10.0	--
MW-3	11/29/2011	(NP)	266.00	24.19	0.0	241.81	**3,130**	<76	<380	**30.4**	<1.0	21.0	6.9	--	--	--	<10.0	--
MW-3	6/1/2012	(NP)	266.00	22.94	0.0	243.06	**2,360**	**512**	446	**29.0**	<1.0	35.9	7.6	2.6	--	--	<10.0	<10.0
MW-3	11/29/2012	(NP)	266.00	22.90	0.0	243.10	**2,320**	**670**	500	3.2	1.9	40.7	10.6	1.8	--	--	4.1	<3.0
MW-3	5/9/2013	(NP)	266.00	22.72	0.0	243.28	**2,850**	**610**	<420	**32.8**	4.2	98.3	13.9	2.7	--	--	<10.0	<10.0
MW-3	11/19/2013	(NP)	266.00	24.30	0.0	241.70	380	**620**	340	3.5(J)	<0.70	3.4(J)	1.3(J)	0.68(J)	--	--	3.2	0.47(J)
MW-3	5/13/2014	(NP)	266.00	22.95	0.0	243.05	**1,100**	**710**	**700**	**8.4**	0.94(J)	17	3.7	1.1	--	--	<4.7	<4.7
MW-3	5/7/2015	(NP)	266.00	23.52	0.0	242.48	**1,800**	430	440	**9.9**	<0.50	10	2.1	1.2	--	--	<4.7	<4.7
MW-3	3/2/2016	(NP)	266.00	22.12	0.0	243.88	<50	<48	150(J)	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--

Table 1
Groundwater Gauging Data and Select Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L							**800/1,000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**20**	**0.01**	**5**	**15**	**15**
MW-3	6/6/2016	(NP)	266.00	23.76	0.0	242.24	500	110	180(J)	1.4	<0.50	0.78(J)	<0.50	<0.50	--	--	--	--
MW-3	9/12/2016	(NP)	266.00	25.08	0.0	240.92	**1,200**	100	<67	4.3	<0.50	2.1	<0.50	<0.50	--	--	--	--
MW-3	12/12/2016	(NP)	266.00	22.42	0.0	243.58	53(J)	210	140(J)	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
MW-3	2/22/2017	(NP)	266.00	20.02	0.0	245.98	245	254	<165	<0.331	<0.412	<0.384	<1.06	<0.367	--	--	--	--
MW-3	8/29/2017	(NP)	266.00	24.09	0.0	241.91	**1,310**	383	238(J)	3.87	0.434(J)	3.82	1.78(J)	<0.367	--	--	--	--
MW-3	3/13/2018	(NP)	266.00	23.22	0.0	242.78	52.8(B J)	79.1(J)	115(J)	<1.00	<1.00	<1.00	<3.00	<1.00	--	--	--	--
MW-3	10/25/2018	(LFP)	266.00	26.11	0.0	239.89	35.6(B J)	69.3(J)	<250	<1.00	<1.00	<1.00	<3.00	<1.00	<0.0100	<1.00	0.868(B J)	0.602(J)
MW-3	2/20/2019	(NS)	266.00	23.86	0.0	242.14	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	5/14/2019	(LFP)	266.00	25.42	0.0	240.58	<31.6	71.9(J)	101(J)	<0.331	<0.412	<0.384	<1.06	<0.367	<0.00240	<0.361	<1.90	--
MW-3	8/27/2019	(NS)	266.00	26.38	0.0	239.62	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	5/11/1993		100.26	23.03	--	77.23	**31,000**	--	--	**8,700**	**4,000**	57	**3,200**	--	--	--	--	--
MW-4	3/4/1994		100.26	26.83	4.00	76.63	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/6/1994		100.26	25.63	1.43	75.77	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/7/1994		100.26	26.07	1.63	75.49	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	12/28/1994		100.26	25.85	1.43	75.55	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	3/13/1995		100.26	25.59	1.88	76.17	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	6/30/1995		100.26	24.64	1.11	76.51	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	9/6/1995		100.26	24.78	1.05	76.32	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	12/8/1995		100.26	24.94	1.05	76.16	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	3/11/1996		100.26	24.68	2.38	77.48	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	6/18/1996		100.26	24.04	2.11	77.91	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	9/9/1996		100.26	24.08	1.85	77.66	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	12/11/1996		100.26	23.07	0.38	77.49	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	3/17/1999		100.26	--	--	--	**100,000**	--	--	**12,000**	**17,000**	**1,800**	**10,000**	**<50**	--	--	--	--
MW-4	9/28/1999		100.26	--	--	--	**97,000**	--	--	**27,000**	**65,000**	**18,000**	**100,000**	**<1,000**	--	--	--	--
MW-4	1/19/2000		100.26	--	--	--	**100,000**	--	--	**22,000**	**18,000**	**2,400**	**15,000**	<5	--	--	--	--
MW-4	3/24/2000		100.26	--	--	--	**100,000**	--	--	**13,000**	**18,000**	**2,200**	**13,000**	<5	--	--	--	--
MW-4	7/2/2000		100.26	--	--	--	**92,000**	--	--	**13,000**	**17,000**	**1,800**	**10,000**	**220**	--	--	--	--
MW-4	9/14/2000		100.26	--	--	--	**160,000**	--	--	**22,000**	**27,000**	**6,900**	**23,000**	<5	--	--	--	--
MW-4	9/14/2000	(Dup)	100.26	--	--	--	**160,000**	--	--	**16,000**	**22,000**	<500	**7,800**	**<2,000**	--	--	--	--
MW-4	9/22/2001		100.26	26.60	3.27	76.28	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	12/9/2001		100.26	25.50	2.37	76.66	**110,000**	--	--	**12,000**	**10,000**	**1,900**	**8,800**	**<40**	--	--	--	--
MW-4	3/20/2002		100.26	26.50	3.73	76.74	**100,000**	--	--	**13,000**	**19,000**	**2,500**	**13,000**	**360**	--	--	--	--
MW-4	6/11/2002		100.26	24.25	1.10	76.89	**95,000**	--	--	**13,000**	**17,000**	**2,300**	**12,000**	**<400**	--	--	--	--
MW-4	12/21/2002	(NS)	100.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	3/19/2003	(NS)	100.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	6/18/2003	(NS)	100.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	9/23/2003		100.26	22.31	0.07	78.01	**75,900**	--	--	**7,140**	**8,980**	**1,270**	**8,820**	**<50.0**	--	--	--	--
MW-4	10/21/2003		100.26	21.79	--	78.47	**44,700**	--	--	**3,190**	**6,370**	**779**	**6,160**	**<500**	--	--	--	--
MW-4	6/29/2004	(NP)	100.26	22.88	0.0	77.38	**378,000**	--	--	**11,200**	**16,300**	**3,550**	**22,600**	**2,500**	--	--	--	--
MW-4	11/15/2004	(NAPL)	100.26	23.07	1.45	78.35	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/14/2005	(NAPL)	100.26	23.82	1.89	77.95	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	12/18/2005	(NP)	100.26	23.43	0.08	76.89	**214,000**	--	--	**9,430**	**12,800**	**2,000**	**13,500**	**<100**	--	--	--	--
MW-4	6/11/2006	(NP)	100.26	21.87	0.01	78.40	**117,000**	--	--	**13,000**	**18,200**	**2,300**	**14,000**	**<1,000**	--	--	--	--
MW-4	11/5/2006	(NP)	100.26	22.92	0.01	77.35	**120,000**	--	--	**6,950**	**10,500**	**2,070**	**13,500**	--	--	--	--	--
MW-4	9/25/2007	(NAPL)	100.26	22.15	0.02	78.13	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	12/31/2007	(NS)	100.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Groundwater Gauging Data and Select Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L							**800/1,000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**20**	**0.01**	**5**	**15**	**15**
MW-4	5/29/2008	(NM)	100.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/28/2008	(DRY)	100.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	6/22/2009	(NAPL)	100.26	24.21	0.04	76.08	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	12/15/2009	(NAPL)	100.26	24.04	0.28	76.44	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	5/24/2010	(NM)	267.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	5/10/2011	(NM)	267.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	11/29/2011	(NM)	267.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	6/1/2012	(NM)	267.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	11/29/2012	(NAPL)	267.78	24.00	0.10	243.86	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	5/9/2013	(NAPL)	267.78	26.48	3.83	244.36	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	11/19/2013	(NAPL)	267.78	26.61	1.81	242.62	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	5/13/2014	(NAPL)	267.78	25.80	2.50	243.98	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	5/7/2015	(NAPL)	267.78	26.50	2.95	243.64	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	3/2/2016	(NAPL)	267.78	24.67	1.40	244.23	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	6/6/2016	(NAPL)	267.78	25.86	1.53	243.14	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	9/12/2016	(NAPL)	267.78	26.51	1.11	242.16	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	12/12/2016	(NP)	267.78	23.27	0.0	244.51	**25,000**	**2,100**	380	**120**	37	57	1,000	<2.5	--	--	--	--
MW-4	2/22/2017	(NAPL)	267.78	22.63	0.07	245.21	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/29/2017	(NS)	267.78	26.50	1.68	242.62	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	3/13/2018	(NS)	267.78	24.74	0.48	243.42	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/25/2018	(NS)	267.78	26.76	0.28	241.24	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/20/2019	(NS)	267.78	24.80	0.0	242.98	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	5/14/2019	(NS)	267.78	26.33	0.0	241.45	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/27/2019	(NS)	267.78	26.51	0.0	241.27	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	5/11/1993		100.88	22.97	--	77.91	**1,800**	--	--	**130**	25	23	22	--	--	--	--	--
MW-5	3/4/1994		100.88	24.35	--	76.53	710	420	--	**26**	6	11	8	--	--	--	**27**	<3
MW-5	7/6/1994		100.88	24.72	--	76.16	400	<250	--	**11**	3	1	4	--	--	--	--	--
MW-5	10/7/1994		100.88	25.02	--	75.86	510	--	--	**13**	4	2	4	--	--	--	--	--
MW-5	12/28/1994		100.88	24.98	--	75.90	**1,300**	--	--	**46**	13	20	22	--	--	--	--	--
MW-5	3/13/1995		100.88	24.41	--	76.47	**2,800**	--	--	**34**	8	40	28	--	--	--	--	--
MW-5	6/30/1995		100.88	24.06	--	76.82	**1,100**	--	--	**50**	11	12	15	--	--	--	--	--
MW-5	9/6/1995		100.88	24.27	--	76.61	**1,100**	--	--	**42**	14	30	18	--	--	--	--	--
MW-5	12/8/1995		100.88	24.49	--	76.39	**1,700**	--	--	**32**	7	42	62	--	--	--	--	--
MW-5	3/11/1996		100.88	23.33	--	77.55	**8,100**	--	--	**85**	9	210	140	--	--	--	--	--
MW-5	6/18/1996		100.88	22.91	--	77.97	**2,700**	--	--	**100**	17	88	25	--	--	--	--	--
MW-5	9/9/1996		100.88	23.07	--	77.81	**2,200**	--	--	**180**	29	100	27	<1.0	--	--	--	--
MW-5	12/11/1996		100.88	23.13	--	77.75	**4,900**	--	--	**110**	18	96	250	12	--	--	--	--
MW-5	3/13/1997		100.88	22.28	--	78.60	**5,500**	--	--	**190**	35	190	73	**<50**	--	--	--	--
MW-5	6/5/1997		100.88	21.78	--	79.10	**4,100**	--	--	**290**	42	200	37	**<100**	--	--	--	--
MW-5	9/5/1997		100.88	21.92	--	78.96	**3,100**	--	--	**420**	83	190	730	**<50**	--	--	--	--
MW-5	4/2/1998		100.88	21.35	--	79.53	**5,400**	--	--	**470**	89	340	83	**<50**	--	--	--	--
MW-5	6/8/1998		100.88	21.48	--	79.40	**4,200**	--	--	**360**	110	220	66	**71**	--	--	--	--
MW-5	9/17/1998		100.88	22.12	--	78.76	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/9/1998		100.88	22.33	--	78.55	**4,900**	--	--	**170**	41	120	120	<1.0	--	--	--	--
MW-5	3/17/1999		100.88	20.93	--	79.95	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	6/26/1999		100.88	21.02	--	79.86	**3,300**	--	--	**180**	82	210	24	8	--	--	--	--
MW-5	9/28/1999		100.88	21.76	--	79.12	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Groundwater Gauging Data and Select Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L							**800/1,000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**20**	**0.01**	**5**	**15**	**15**
MW-5	1/19/2000		100.88	21.65	--	79.23	**6,500**	--	--	**480**	350	370	87	<0.5	--	--	--	--
MW-5	3/24/2000		100.88	21.48	--	79.40	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/2/2000		100.88	22.01	--	78.87	**6,100**	--	--	**390**	110	290	54	20	--	--	--	--
MW-5	9/14/2000		100.88	22.59	--	78.29	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/14/2000		100.88	22.95	--	77.93	**4,000**	--	--	**26**	<10	<10	<30	**<40**	--	--	--	--
MW-5	9/22/2001		100.88	23.86	--	77.02	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/9/2001		100.88	23.90	--	76.98	**12,000**	--	--	**51**	<10	120	140	<10	--	--	--	--
MW-5	3/20/2002		100.88	23.13	--	77.75	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	6/11/2002		100.88	23.09	--	77.79	**5,700**	--	--	**94**	21	110	24	<20	--	--	--	--
MW-5	12/21/2002		100.88	24.65	--	76.23	**1,300**	--	--	**6.32**	2.95	6.59	11.1	5.88	--	--	--	--
MW-5	3/19/2003		100.88	24.68	--	76.20	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	6/18/2003		100.88	24.37	--	76.51	**1,950**	--	--	**7.18**	1.95	12	24.7	6	--	--	--	--
MW-5	9/23/2003		100.88	24.88	--	76.00	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/21/2003		100.88	24.99	--	75.89	322	--	--	1.18	2.19	0.732	3.38	<1.00	--	--	--	--
MW-5	6/29/2004	(NP)	100.88	24.22	--	76.66	**1,180**	--	--	**5.4**	3.24	4.79	14.1	6.95	--	--	--	--
MW-5	11/15/2004	(NP)	100.88	24.97	--	75.91	399	--	--	0.74	<0.500	<0.500	<1.00	<2.00	--	--	--	--
MW-5	4/14/2005	(NP)	100.88	25.08	--	75.80	**2,900**	--	--	**14.3**	13.4	33.9	40	<2.00	--	--	--	--
MW-5	12/18/2005	(NP)	100.88	25.47	--	75.41	661	--	--	2.49	2.43	3.58	5.11	<1.00	--	--	--	--
MW-5	6/11/2006	(NP)	100.88	24.43	--	76.45	**2,830**	--	--	**6.08**	1.05	2.78	3.1	<1.00	--	--	--	--
MW-5	11/5/2006	(NP)	100.88	25.55	--	75.33	723	--	--	1.41	0.78	1.29	<3.00	--	--	--	--	--
MW-5	9/25/2007	(NP)	100.88	24.95	--	75.93	712	--	--	1.86	0.53	0.77	<3.00	--	--	--	--	--
MW-5	12/31/2007	(NP)	100.88	25.16	--	75.72	**7,190**	--	--	**9.4**	11.3	38.1	75.7	--	--	--	--	--
MW-5	5/29/2008	(NP)	100.88	25.01	--	75.87	**2,740**	--	--	**7.47**	9.12	15.7	23.7	--	--	--	--	--
MW-5	10/28/2008	(NP)	100.88	25.89	--	74.99	516	--	--	2.01	1.46	<0.500	3.48	--	--	--	--	--
MW-5	6/22/2009	(NP)	100.88	26.95	--	73.93	**4,800**	--	--	**36**	24	87	49.9	--	--	--	**23**	--
MW-5	12/15/2009	(NP)	100.88	26.57	--	74.31	**2,300**	--	--	**24**	19	29	23	--	--	--	12	11
MW-5	5/24/2010	(NP)	100.88	25.55	--	75.33	**4,200**	--	--	**59**	8.4	96	41	--	--	--	--	--
MW-5	10/12/2010	(NP)	268.46	25.74	0.0	242.72	**2,320**	--	--	**31.4**	2.6	12.7	4.8	<1.0	--	--	<10.0	--
MW-5	10/12/2010	(Dup)(NP)	268.46	25.74	0.0	242.72	**2,260**	--	--	**31.6**	2.6	12.6	4.8	<1.0	--	--	--	--
MW-5	5/10/2011	(NP)	268.46	24.61	0.0	243.85	**4,710**	470	<400	**12.4**	4.1	39.3	25.5	<1.0	--	--	<10.0	--
MW-5	11/29/2011	(NP)	268.46	25.55	0.0	242.91	**2,210**	95	<380	**12.3**	2.2	6.4	3.1	--	--	--	10.5	--
MW-5	6/1/2012	(NP)	268.46	24.60	0.0	243.86	**1,620**	**1,040**	<392	**13.3**	3.0	9.6	10.7	<1.0	--	--	<10.0	<10.0
MW-5	6/1/2012	(Dup)(NP)	268.46	24.60	0.0	243.86	**1,520**	**1,030**	<388	**12.8**	2.8	8.8	10	<1.0	--	--	<10.0	<10.0
MW-5	11/29/2012	(NP)	268.46	25.31	0.0	243.15	**4,160**	**1,100**	<440	**18.0**	8.0	61.7	28.2	<1.0	--	--	**42.5**	<3.0
MW-5	5/9/2013	(NP)	268.46	24.52	0.0	243.94	**3,470**	<400	<400	**19.0**	6.7	48.3	18.5	<1.0	--	--	<10.0	<10.0
MW-5	11/19/2013	(NP)	268.46	26.35	0.0	242.11	**1,800**	240	**660**	**24**	5.7	17	6.3	<0.50	--	--	6.7	1.3
MW-5	5/13/2014	(NP)	268.46	25.18	0.0	243.28	**4,400**	440	370	**17**	7.5	69	23	<0.50	--	--	**16.2**	9.2(J)
MW-5	5/13/2014	(Dup)(NP)	268.46	25.18	0.0	243.28	**2,500**	--	--	**22**	2.5(J)	47	18	2.6(J)	--	--	--	--
MW-5	5/7/2015	(NP)	268.46	25.22	0.0	243.24	**2,800**	240	260	**11**	4.8	32	12	<0.50	--	--	**18.4**	5.2(J)
MW-5	3/2/2016	(NP)	268.46	25.55	0.0	242.91	**4,100**	320	**530**	4.5	2.8	24	13	<0.50	--	--	--	--
MW-5	6/6/2016	(NP)	268.46	25.74	0.0	242.72	**5,300**	310	**620**	**6.9**	4.4	23	15	<0.50	--	--	--	--
MW-5	9/12/2016	(NS, IW)	268.46	27.43	0.0	241.03	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/12/2016	(NP)	268.46	25.36	0.0	243.10	**4,300**	**17,000**	**<540**	1.7	1.8	9.0	4.5	<0.50	--	--	--	--
MW-5	2/22/2017	(NP)	268.46	25.00	0.0	243.46	**3,440**	**9,890**	204(J)	0.572(J)	<0.412	1.39	1.10(J)	<0.367	--	--	--	--
MW-5	2/22/2017	(Dup)(NP)	268.46	25.00	0.0	243.46	**3,570**	**7,910**	194(J)	0.719(J)	<0.412	1.73	1.18(J)	<0.367	--	--	--	--
MW-5	8/29/2017	(NP)	268.46	26.20	0.0	242.26	**1,810**	**7,040**	432	**7.48**	1.60	6.01	11.1	<0.367	--	--	--	--
MW-5	3/13/2018	(NP)	268.46	26.39	0.0	242.07	356(B)	**1,440**	216(J)	<1.00	<1.00	0.544(J)	<3.00	<1.00	--	--	--	--

Table 1
Groundwater Gauging Data and Select Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L							**800/1,000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**20**	**0.01**	**5**	**15**	**15**
MW-5	10/25/2018	(NS)	268.46	27.13	0.0	241.32	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/20/2019	(NS)	268.46	27.33	0.0	241.13	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	5/14/2019	(NP)	268.46	27.24	0.0	241.22	54.5(J)	**1120**	122(J)	0.403(J)	<0.412	<0.384	5.45	<0.367	<0.00240	<0.361	--	--
MW-5	8/27/2019	(NS)	268.46	27.40	0.0	241.06	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	9/5/1997		98.62	21.20	--	77.42	930	--	--	<0.5	19	6	15	**32**	--	--	--	--
MW-6	4/2/1998		98.62	19.70	--	78.92	600	--	--	<0.5	10	3	11	6	--	--	--	--
MW-6	6/8/1998		98.62	20.58	--	78.04	430	--	--	<0.5	6	2	5	10	--	--	--	--
MW-6	9/17/1998		98.62	21.87	--	76.75	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/9/1998		98.62	21.20	--	77.42	260	--	--	<1.0	<1.0	1	3	2	--	--	--	--
MW-6	3/17/1999		98.62	18.49	--	80.13	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/26/1999		98.62	18.49	--	80.13	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	9/28/1999		98.62	21.40	--	77.22	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/19/2000		98.62	20.39	--	78.23	330	--	--	<0.5	<0.5	6	10	7	--	--	--	--
MW-6	3/24/2000		98.62	19.63	--	78.99	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	9/14/2000		98.62	21.92	--	76.70	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/14/2000		98.62	22.51	--	76.11	1,000	--	--	**<10**	<10	<10	<30	**<40**	--	--	--	--
MW-6	9/22/2001		98.62	23.31	--	75.31	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/9/2001		98.62	22.24	--	76.38	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/20/2002		98.62	21.44	--	77.18	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/11/2002		98.62	21.90	--	76.72	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/21/2002	(NS)	98.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/19/2003	(NS)	98.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/18/2003	(NS)	98.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	9/23/2003	(NS)	98.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/21/2003	(P)	98.62	22.69	--	75.93	254	--	--	**10**	3.66	0.898	5.03	<1.00	--	--	--	--
MW-6	6/29/2004	(NP)	98.62	22.88	--	75.74	540	--	--	**6.8**	1.73	<0.500	5.65	6.35	--	--	--	--
MW-6	11/15/2004	(NP)	98.62	24.12	--	74.50	370	--	--	**43.5**	14.5	0.58	10.4	<2.00	--	--	--	--
MW-6	4/14/2005	(NP)	98.62	23.75	--	74.87	443	--	--	**6.39**	0.95	<0.500	3.75	<2.00	--	--	--	--
MW-6	12/18/2005	(NP)	98.62	24.79	--	73.83	694	--	--	<0.500	<0.500	<0.500	3.01	<1.00	--	--	--	--
MW-6	6/11/2006	(NP)	98.62	23.09	--	75.53	601	--	--	<0.500	<0.500	<0.500	<3.00	<1.00	--	--	--	--
MW-6	11/5/2006	(NP)	98.62	25.80	--	72.82	444	--	--	<0.500	<0.500	<0.500	<3.00	--	--	--	--	--
MW-6	9/25/2007	(NP)	98.62	24.13	--	74.49	321	--	--	<0.500	<0.500	<0.500	<3.00	--	--	--	--	--
MW-6	12/31/2007	(NP)	98.62	23.59	--	75.03	168	--	--	<0.500	<0.500	<0.500	<3.00	--	--	--	--	--
MW-6	5/29/2008	(NP)	98.62	24.21	--	74.41	**1,620**	--	--	<0.500	<0.500	<0.500	<3.00	--	--	--	--	--
MW-6	10/28/2008	(NP)	98.62	25.47	--	73.15	481	--	--	<0.500	<0.500	<0.500	<3.00	--	--	--	--	--
MW-6	6/22/2009	(NP)	98.62	25.32	--	73.30	<50.0	--	--	<1.00	<1.00	<1.00	<3.00	--	--	--	<2.00	<2.00
MW-6	12/15/2009	(NP)	98.62	23.33	--	75.29	190	--	--	<1.00	<1.00	<1.00	<2.00	--	--	--	<2.00	<2.00
MW-6	5/24/2010	(NP)	266.06	22.90	--	243.16	280	--	--	**8.1**	<2.5	<2.5	<5.0	--	--	--	--	--
MW-6	10/12/2010	(NP)	266.06	23.06	0.0	243.00	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	<10.0	--
MW-6	5/10/2011	(NP)	266.06	22.01	0.0	244.05	96.0	180	<390	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	<10.0	--
MW-6	11/29/2011	(NP)	266.06	23.42	0.0	242.64	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	--	--	--	<10.0	--
MW-6	11/29/2011	(Dup)(NP)	266.06	23.42	0.0	242.64	<50.0	<77	<380	<1.0	<1.0	<1.0	<3.0	--	--	--	<10.0	--
MW-6	6/1/2012	(NP)	266.06	22.75	0.0	243.31	124	<76.9	<385	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	<10.0	<10.0
MW-6	11/29/2012	(NM)	266.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	5/9/2013	(NP)	266.06	22.82	0.0	243.24	216	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	<10.0	<10.0
MW-6	11/19/2013	(NP)	266.06	24.00	0.0	242.06	130(J)	31(J)	<71	<0.50	<0.70	<0.80	<0.80	<0.50	--	--	0.97(J)	0.12(J)
MW-6	5/13/2014	(NP)	266.06	22.76	0.0	243.30	120(J)	80(J)	180(J)	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	<4.7	<4.7

Table 1
Groundwater Gauging Data and Select Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L							**800/1,000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**20**	**0.01**	**5**	**15**	**15**
MW-6	5/7/2015	(NP)	266.06	23.71	0.0	242.35	<50	<28	<65	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	<4.7	<4.7
MW-6	6/6/2016	(NP)	266.06	23.82	0.0	242.24	<50	<46	<100	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
MW-6	9/12/2016	(NP)	266.06	25.22	0.0	240.84	<50	140	280	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
MW-6	12/12/2016	(NP)	266.06	22.66	0.0	243.40	<50	<47	<100	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
MW-6	2/22/2017	(NP)	266.06	21.24	0.0	244.82	33.5(J)	<82.5	<165	<0.331	<0.412	<0.384	<1.06	<0.367	--	--	--	--
MW-6	8/29/2017	(NP)	266.06	24.16	0.0	241.90	160	<139	183(J)	<0.331	<0.412	<0.384	<1.06	<0.367	--	--	--	--
MW-6	3/13/2018	(NP)	265.97	23.04	0.0	242.93	40.0(B J)	<200	<250	<1.00	<1.00	<1.00	<3.00	<1.00	--	--	--	--
MW-6	10/25/2018	(NP)	265.97	26.28	0.0	239.69	<100	73.4(J)	<250	<1.00	<1.00	<1.00	<3.00	<1.00	<0.0100	<1.00	<2.00	<2.00
MW-6	2/20/2019	(NS)	265.97	13.90	0.0	252.07	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/22/2019	(LFP)	265.97	14.14	0.0	251.83	<31.6	76.5(J)	214(J)	<0.331	<0.412	<0.384	<1.06	<0.367	<0.00240	<0.361	<1.90	<1.90
MW-6	5/14/2019	(NS)	265.97	25.51	0.0	240.46	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/27/2019	(LFP)	265.97	26.73	0.0	239.24	<31.6	79.6(J)	85.9(J)	<0.0896	<0.412	<0.158	<1.06(J4)	<0.367	<0.00245	<1.00	3.18(J)	--
MW-7	4/2/1998		97.32	18.79	--	78.53	**13,100**	--	--	<5	35	480	**1,100**	**<50**	--	--	--	--
MW-7	6/8/1998		97.32	19.60	--	77.72	**12,000**	--	--	<5.0	40	420	810	**63**	--	--	--	--
MW-7	9/17/1998		97.32	20.82	--	76.50	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/9/1998		97.32	20.21	--	77.11	**9,600**	--	--	<5.0	26	360	610	11	--	--	--	--
MW-7	3/17/1999		97.32	17.61	--	79.71	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/26/1999		97.32	19.29	--	78.03	**8,300**	--	--	**11**	24	410	600	<5.0	--	--	--	--
MW-7	12/14/2000		97.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/9/2001		97.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/20/2002		97.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/11/2002		97.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/18/2003	(ABANDONED)	97.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	4/2/1998		98.49	19.99	--	78.50	<100	--	--	<0.5	1	<0.5	<1.5	<5	--	--	--	--
MW-8	6/8/1998		98.49	20.39	--	78.10	<100	--	--	<0.5	1	2	<1.5	<5.0	--	--	--	--
MW-8	9/17/1998		98.49	21.21	--	77.28	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	12/9/1998		98.49	21.03	--	77.46	<500	--	--	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--
MW-8	3/17/1999		98.49	19.03	--	79.46	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	6/26/1999		98.49	20.02	--	78.47	<500	--	--	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--
MW-8	12/14/2000		98.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	12/9/2001		98.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	3/20/2002		98.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	6/11/2002		98.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	6/18/2003	(ABANDONED)	98.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	10/12/2010	(NP)	263.35	23.89	0.0	239.46	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	<10.0	--
MW-9	5/10/2011	(NP)	263.35	20.70	0.0	242.65	<50.0	160	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	<10.0	--
MW-9	11/29/2011	(NP)	263.35	22.64	0.0	240.71	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	--	--	--	<10.0	--
MW-9	6/1/2012	(NM)	263.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	11/29/2012	(NM)	263.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	5/9/2013	(NP)	263.35	21.09	0.0	240.55	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	<10.0	<10.0
MW-9	11/19/2013	(NP)	263.35	22.80	0.0	--	<50	49(J)	<75	<0.50	<0.70	<0.80	<0.80	<0.50	--	--	1.0	0.090(J)
MW-9	5/13/2014	(NP)	263.35	21.39	0.0	241.96	<50	<29	<67	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	<4.7	<4.7
MW-9	5/7/2015	(NP)	263.35	22.04	0.0	241.31	<50	28(J)	<65	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	<4.7	<4.7
MW-9	3/2/2016	(NS)	263.35	22.29	0.0	241.06	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	6/6/2016	(NS)	263.35	22.01	0.0	241.34	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	9/12/2016	(NP)	263.35	23.43	0.0	239.92	<50	190	170(J)	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--

Table 1
Groundwater Gauging Data and Select Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L							**800/1,000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**20**	**0.01**	**5**	**15**	**15**
MW-9	2/22/2017	(NS)	263.35	21.71	0.0	241.64	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	8/29/2017	(NP)	263.35	22.47	0.0	240.88	52.9(J)	115(J)	101(J)	<0.331	<0.412	<0.384	<1.06	<0.367	--	--	--	--
MW-9	3/13/2018	(NS)	263.35	21.78	0.0	241.57	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	10/25/2018	(LFP)	263.35	24.61	0.0	238.74	78.3(B J)	217	140(J)	<1.00	<1.00	<1.00	<3.00	<1.00	**<0.0101**	<1.00	0.299(B J)	<2.00
MW-9	2/20/2019	(LFP)	263.35	23.27	0.0	240.08	36.7(B J)	116(J)	120(J)	<0.331	<0.412	<0.384	<1.06	<0.367	<0.00240	<0.361	<1.90	<1.90
MW-9	5/13/2019	(LFP)	263.35	23.80	0.0	239.55	<31.6	220	107(J)	<0.331	<0.412	<0.384	<1.06	<0.367	<0.00240	<0.361	<1.90	--
MW-9	8/27/2019	(LFP)	263.35	25.09	0.0	238.26	<31.6	107(J)	98.9(J)	<0.0896	<0.412	<0.158	<0.316	<0.102	<0.00240	<0.108	<1.90	--
MW-10	6/1/2012	(NP)	268.30	24.20	0.0	244.10	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	<10.0	<10.0
MW-10	11/29/2012	(NP)	268.30	25.00	0.0	243.30	<100	<420	<420	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	**20.4**	<3.0
MW-10	11/29/2012	(Dup)(NP)	268.30	25.00	0.0	243.30	146	<470	<470	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	**22.6**	<3.0
MW-10	5/9/2013	(NP)	268.30	24.25	0.0	244.05	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	<10.0	<10.0
MW-10	11/19/2013	(NP)	268.30	25.80	0.0	242.50	66(J)	<34	<78	<0.50	<0.70	<0.80	<0.80	<0.50	--	--	12.8	<0.085
MW-10	5/13/2014	(NP)	268.30	24.78	0.0	243.52	<50	<28	<66	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	<4.7	<4.7
MW-10	5/7/2015	(NP)	268.30	24.84	0.0	243.46	150(J)	75(J)	150(J)	<0.50	<0.50	0.81(J)	7.1	<0.50	--	--	6.3(J)	<4.7
MW-10	9/12/2016	(NP)	268.30	26.52	0.0	241.78	130(J)	<29	<68	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
MW-10	8/29/2017	(NP)	268.30	25.93	0.0	242.37	<31.6	78.2(J)	126(J)	<0.331	<0.412	<0.384	<1.06	<0.367	--	--	--	--
MW-11	10/25/2018	(LFP)	266.38	26.40	0.0	239.98	170(B)	343	419	<1.00	<1.00	<1.00	<3.00	<1.00	<0.0100	<1.00	1.09(B J)	0.582(J)
MW-11	2/20/2019	(LFP)	266.38	25.49	0.0	240.89	132(B)	354	466	<0.331	<0.412	<0.384	<1.06	1.04	<0.00240	<0.361	<1.90	<1.90
MW-11	5/13/2019	(LFP)	266.38	25.99	0.0	240.39	40.1(J)	423	308	<0.331	<0.412	<0.384	<1.06	0.674(J)	<0.00240	<0.361	<1.90	--
MW-11	8/27/2019	(LFP)	266.38	26.83	0.0	239.55	<31.6	227	295	<0.0896	<0.412	<0.158	<0.316	0.818	<0.00240	<0.108	2.51 (J)	--
MW-12	10/25/2018	(LFP)	266.51	27.39	0.0	239.12	**867**	**705**	189(J)	1.17	<1.00	<1.00	<3.00	<1.00	<0.0100	<1.00	1.00(B J)	<2.00
MW-12	2/20/2019	(LFP)	266.51	26.21	0.0	240.30	**3370**	486	206(J)	4.91	<0.412	2.81	2.54(J)	<0.367	<0.00240	<0.361	<1.90	<1.90
MW-12	5/13/2019	(LFP)	266.51	26.78	0.0	239.73	**1320**	394	198(J)	3.79	<0.412	0.457(J)	<1.06	<0.367	<0.00240	<0.361	<1.90	--
MW-12	8/27/2019	(LFP)	266.51	27.82	0.0	238.69	260	404	192(J)	3.11	<0.412	0.705	0.404(J)	<0.102	<0.00245	<0.108	<1.90	--
VE-1	4/2/1998		--	--	--	--	**60,500**	--	--	**3,900**	**2,300**	**820**	**4,500**	**<2,500**	--	--	--	--
VE-1	9/17/1998		--	--	--	--	**240,000**	--	--	**2,700**	**2,000**	**1,400**	**7,700**	**<100**	--	--	--	--
VE-1	12/9/1998		--	--	--	--	**73,000**	--	--	**2,200**	**1,400**	**770**	**3,700**	**<25**	--	--	--	--
VE-1	3/17/1999		--	--	--	--	**42,000**	--	--	**4,000**	**2,400**	**790**	**4,100**	**<25**	--	--	--	--
VE-1	6/26/1999		--	--	--	--	**42,000**	--	--	**3,800**	**2,600**	670	**3,500**	**<100**	--	--	--	--
VE-1	9/28/1999		--	--	--	--	**25,000**	--	--	**3,400**	**2,000**	630	**3,000**	**<25**	--	--	--	--
VE-1	3/24/2000		--	--	--	--	**31,000**	--	--	**3,200**	610	27	**3,600**	<5	--	--	--	--
VE-1	7/2/2000		--	--	--	--	**27,000**	--	--	**3,200**	**1,900**	620	**3,000**	**130**	--	--	--	--
VE-1	9/14/2000		--	--	--	--	**29,000**	--	--	**3,200**	**2,200**	**920**	**3,000**	<5	--	--	--	--
VE-1	12/14/2000		--	23.02	--	--	**28,000**	--	--	**2,400**	**1,300**	580	**2,600**	**<40**	--	--	--	--
VE-1	9/22/2001		--	24.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VE-1	12/9/2001		--	23.90	0.07	--	**24,000**	--	--	**1,300**	880	510	**2,400**	**<40**	--	--	--	--
VE-1	3/20/2002		--	23.30	0.05	--	**52,000**	--	--	**1,800**	**1,300**	560	**2,400**	**280**	--	--	--	--
VE-1	6/11/2002		--	23.25	0.11	--	**26,000**	--	--	**2,800**	**1,600**	650	**2,900**	**<80**	--	--	--	--
VE-1	12/21/2002	(P)	--	24.89	0.0	--	**25,900**	--	--	**1,630**	**1,150**	**741**	**3,660**	**<200**	--	--	--	--
VE-1	3/19/2003	(P)	--	24.71	0.0	--	**27,100**	--	--	**1,590**	**1,450**	**743**	**3,640**	**<250**	--	--	--	--
VE-1	6/18/2003	(P)	--	24.50	0.05	--	**37,000**	--	--	**2,190**	**1,710**	**929**	**5,230**	**79.8**	--	--	--	--
VE-1	9/23/2003	(P)	--	25.01	0.03	--	**28,300**	--	--	**1,620**	**1,270**	**704**	**3,500**	<20.0	--	--	--	--
VE-1	10/22/2003	(P)	--	24.98	0.17	--	**36,700**	--	--	**3,360**	**1,850**	**847**	**4,130**	**<50.0**	--	--	--	--
VE-1	6/29/2004	(NP)	--	25.12	0.0	--	**192,000**	--	--	**8,070**	**7,030**	**2,230**	**10,400**	**820**	--	--	--	--
VE-1	11/15/2004	(NP)	--	25.40	0.61	--	**99,900**	--	--	**5,680**	**6,280**	**3,430**	**17,600**	**<100**	--	--	--	--
VE-1	4/14/2005	(NP)	--	26.15	1.31	--	**39,600**	--	--	**3,120**	**3,300**	**1,210**	**5,560**	**<40.0**	--	--	--	--

Table 1
Groundwater Gauging Data and Select Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L							**800/1,000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**20**	**0.01**	**5**	**15**	**15**
VE-1	12/18/2005	(NP)	--	26.00	0.35	--	**142,000**	--	--	**6,140**	**5,850**	**1,400**	**6,750**	**<100**	--	--	--	--
VE-1	6/11/2006	(NP)	--	26.53	--	--	**68,300**	--	--	**7,200**	**8,100**	**3,900**	**25,100**	**<500**	--	--	--	--
VE-1	11/5/2006	(NP)	--	26.33	0.45	--	**60,500**	--	--	**3,780**	**4,320**	**1,190**	**6,390**	--	--	--	--	--
VE-1	9/25/2007	(NAPL)	--	25.02	0.14	--	--	--	--	--	--	--	--	--	--	--	--	--
VE-1	12/31/2007	(NS)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VE-1	5/29/2008	(NAPL)	--	25.63	0.84	--	--	--	--	--	--	--	--	--	--	--	--	--
VE-1	10/28/2008	(NAPL)	--	26.07	0.27	--	--	--	--	--	--	--	--	--	--	--	--	--
VE-1	6/22/2009	(DRY)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VE-1	12/15/2009	(NAPL)	--	26.56	0.06	--	--	--	--	--	--	--	--	--	--	--	--	--
VE-1	5/24/2010	(NS)	268.17	26.70	0.0	241.47	--	--	--	--	--	--	--	--	--	--	--	--
VE-1	5/10/2011	(NM)	268.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VE-1	11/29/2012	(NAPL)	268.17	24.05	0.10	244.20	--	--	--	--	--	--	--	--	--	--	--	--
VE-1	5/9/2013	(NS)	268.17	24.23	0.0	243.94	--	--	--	--	--	--	--	--	--	--	--	--
VE-1	11/19/2013	(NAPL)	268.17	26.35	0.55	242.26	--	--	--	--	--	--	--	--	--	--	--	--
VE-1	5/13/2014	(NAPL)	268.17	25.20	0.40	243.29	--	--	--	--	--	--	--	--	--	--	--	--
VE-1	3/2/2016	(NS)	268.17	24.99	0.0	243.18	--	--	--	--	--	--	--	--	--	--	--	--
VE-2	5/7/2015	(DRY)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VE-2	3/2/2016	(NS)	--	13.84	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
VE-3	3/2/2016	(NS)	--	12.99	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
VE-4	3/2/2016	(NS)	--	14.45	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
VE-5	3/2/2016	(NS)	--	14.15	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
TOC = Top of casing in feet North American Vertical Datum of 1988 (NAVD 88)
DTW = Depth to water in feet below TOC
NAPL = Non-aqueous phase liquid thickness in feet
GWE = Groundwater elevation in feet NAVD 88
GRO = Total petroleum hydrocarbons - gasoline range organics
DRO = Total petroleum hydrocarbons - diesel range organics
HO = Total petroleum hydrocarbons - heavy oil range organics
MTBE = Methyl tertiary butyl ether
EDB = Ethylene dibromide
EDC = 1,2-Dichloroethane
800/1,000 = GRO MTCA Method A CUL with benzene present is 800 µg/L and without is 1,000 µg/L
NS = Not sampled
-- = Not analyzed/not applicable
IW = Insufficient volume of water in the well to collect representative sample
NP = No purge sample
< = Analytical result is less than reporting limit shown
NM = Not measured
P = Purge sample
DUP = Duplicate sample
J = estimated value – The result is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)
Wells were resurveyed in 2010 and are referenced to vertical datum NAVD 88 and horizontal datum NAD 83/98
Monitoring wells MW-6, MW-11, and MW-12 were surveyed on 10/25/2018 by Otak
If NAPL is present, the GWE is corrected according to the following formula (TOC elevation - depth to water) + (0.8 x NAPL thickness)
Data collected prior to 2010 have been provided by previous consultants and are included as historical reference only

Table 1
Groundwater Gauging Data and Select Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L							**800/1,000**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**20**	**0.01**	**5**	**15**	**15**

GRO, DRO, HO analyzed by Ecology Northwest Methods; Benzene, toluene, ethylbenzene, and total xylenes (BTEX), MTBE, and EDB by 8260B; Lead by U.S. Environmental

BOLD Concentration greater than the MTCA Method A cleanup level

BOLD Concentration greater than the MTCA Method A Cleanup level but is below method detection limit (MDL)

Table 2
Polycyclic Aromatic Hydrocarbons Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well ID	Date	Notes	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Total Naphthalenes	Total cPAHs
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L			--	**0.1**	--	--	--	--	--	--	--	--	**160**	**0.1**
GMW-1	5/7/2015	(NP)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	1.8	4.0	7.4	13.2	< 0.00755
GMW-1	3/2/2016	(NP)	0.043 J	0.029 J	0.022 J	0.031 J	0.071	0.061	0.032 J	0.079	0.17	< 0.030	0.264	0.04861
GMW-1	6/6/2016	(NP)	--	--	--	--	--	--	--	0.53	1.1	2.2	3.83	--
GMW-1	9/12/2016	(NP)	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	1.4	2.8	6.8	11	< 0.00717
GMW-1	9/12/2016	(NP), (DUP)	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	1.4	2.8	7.1	11.3	< 0.00717
GMW-1	2/20/2019	(LFP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	0.0121(J)	0.024(J)	< 0.0198	< 0.046	< 0.007783
GMW-1	5/13/2019	(LFP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	0.0625(J)	0.0189(J)	0.377	0.4584	< 0.007783
GMW-1	8/27/2019	(LFP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	0.0389(J)	0.140(J)	0.642	0.8209	< 0.007783
GMW-1	8/27/2019	(LFP)(DUP)	< 0.00410(J4)	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	0.0383(J)	0.134(J)	0.583	0.7553	< 0.007783
MW-1	5/7/2015	(NP)	0.025 J	0.026 J	0.044 J	0.020 J	0.032 J	0.018 J	0.033 J	0.023 J	0.026 J	< 0.031	0.065	0.04032
MW-1	3/2/2016	(NP)	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	0.12	0.20	0.40	0.72	< 0.008305
MW-1	6/6/2016	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	9/12/2016	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	2/22/2019	(NP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	0.0129(J)	0.0207(J)	< 0.0198	< 0.0435	< 0.007783
MW-1	5/14/2019	(NP)	< 0.00820	< 0.0232	< 0.00424	< 0.0272	< 0.0216	< 0.00792	< 0.0296	0.0309(J)	0.0414(J)	0.110(J)	0.1823	< 0.015566
MW-1	8/27/2019	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	5/7/2015	(NP)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	1.1	0.35	4.3	5.75	< 0.00755
MW-2	3/2/2016	(NP)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	1.7	0.34	4.3	6.34	< 0.00755
MW-2	6/6/2016	(NP)	--	--	--	--	--	--	--	2.5	0.29	4.6	7.39	--
MW-2	6/6/2016	(NP), (DUP)	--	--	--	--	--	--	--	1.9	0.17	4.5	6.57	--
MW-2	9/12/2016	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/20/2019	(LFP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	0.00849(J)	0.0174(J)	< 0.0198	< 0.03579	< 0.007783
MW-2	2/20/2019	(LFP), (DUP)	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	5/14/2019	(LFP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	0.0214(J)	0.0228(J)	0.0593(J)	0.1035	< 0.007783
MW-2	5/14/2019	(LFP), (DUP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	0.0214(J)	0.0198(J)	0.0781(J)	0.1193	< 0.007783
MW-2	8/27/2019	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	5/7/2015	(NP)	0.016 J	0.015 J	0.025 J	< 0.010	0.018 J	< 0.010	0.016 J	0.76	0.041	< 0.030	0.816	0.02188
MW-3	3/2/2016	(NP)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.030	< 0.025	< 0.00755
MW-3	6/6/2016	(NP)	--	--	--	--	--	--	--	0.032 J	<0.010	<0.031	0.05	--
MW-3	9/12/2016	(NP)	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	0.19	< 0.0095	< 0.029	0.20925	< 0.00717
MW-3	2/20/2019	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	5/14/2019	(LFP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	< 0.00821	< 0.00902	0.0335(J)	<0.5073	< 0.007783
MW-3	8/27/2019	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	5/14/2019	(NS)	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
Polycyclic Aromatic Hydrocarbons Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well ID	Date	Notes	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Total Naphthalenes	Total cPAHs
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L			--	**0.1**	--	--	--	--	--	--	--	--	**160**	**0.1**
MW-4	8/27/2019	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	5/7/2015	(NP)	< 0.010	< 0.010	0.014 J	< 0.010	< 0.010	< 0.010	< 0.010	3.0	2.5	11	16.5	0.00845
MW-5	3/2/2016	(NP)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	2.7	2.8	9.9	15.4	< 0.00755
MW-5	6/6/2016	(NP)	--	--	--	--	--	--	--	2.3	2.3	7.3	11.9	--
MW-5	9/12/2016	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/20/2019	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	5/14/2019	(NP)	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/27/2019	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	5/7/2015	(NP)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.011 J	0.012 J	< 0.030	0.038	< 0.00755
MW-6	3/2/2016	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/6/2016	(NP)	--	--	--	--	--	--	--	<0.010	<0.010	<0.031	< 0.026	--
MW-6	9/12/2016	(NP)	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.028	< 0.0235	< 0.00717
MW-6	2/22/2019	(LFP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	0.00929(J)	0.0137(J)	0.221(J)	< 0.24399	< 0.007783
MW-6	5/14/2019	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/27/2019	(LFP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	<0.00821	<0.00902	0.0249(B,J)	<0.04213	< 0.007783
MW-9	5/7/2015	(NP)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.015 J	< 0.031	0.036	< 0.00755
MW-9	3/2/2016	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	6/6/2016	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	9/12/2016	(NP)	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.028	< 0.0235	< 0.00717
MW-9	2/20/2019	(LFP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	< 0.00821	0.0150(J)	< 0.0198	< 0.029005	< 0.007783
MW-9	5/13/2019	(LFP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	0.0162(J)	0.0140(J)	< 0.0198	<0.050	< 0.007783
MW-9	8/27/2019	(LFP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	< 0.00821	<0.00902	0.0350(B,J)	<0.05223	< 0.007783
MW-10	5/7/2015	(NP)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.23	0.35	0.77	1.35	< 0.00755
MW-10	3/2/2016	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	6/6/2016	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	9/12/2016	(NP)	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.029	< 0.024	< 0.00717
MW-10	2/20/2019	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	5/14/2019	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	8/27/2019	(NS)	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	2/20/2019	(LFP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	0.00930 (J)	< 0.00902	< 0.0198	< 0.02371	< 0.007783
MW-11	5/13/2019	(LFP)	0.00965(J)	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	0.0258(J)	0.0121(J)	0.165(J)	0.2029	0.008543
MW-11	8/27/2019	(LFP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	0.0102(J)	0.0107(J)	0.169(B,J)	0.1899	< 0.007783
MW-12	2/20/2019	(LFP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	0.897	0.782	4.81	6.489	< 0.007783

Table 2
Polycyclic Aromatic Hydrocarbons Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well ID	Date	Notes	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Total Naphthalenes	Total cPAHs
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L			**--**	**0.1**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**160**	**0.1**
MW-12	5/13/2019	(LFP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	0.328	0.0239(J)	0.463	<0.8149	< 0.007783
MW-12	8/27/2019	(LFP)	< 0.00410	< 0.0116	< 0.00212	< 0.0136	< 0.0108	< 0.00396	< 0.0148	0.235(J)	0.0224(J)	0.257(B)	0.5144	< 0.007783

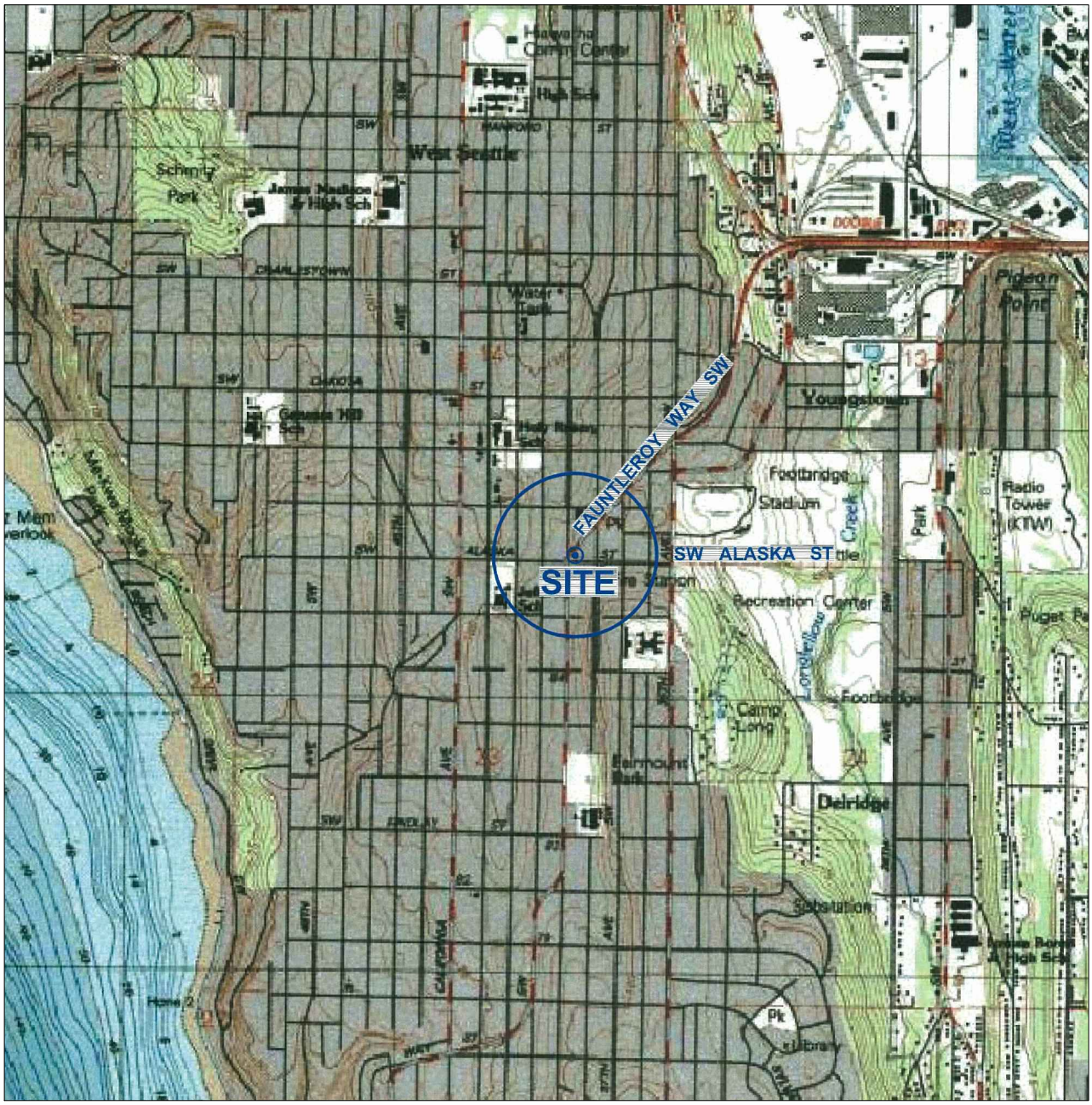
Notes:
-- = Not analyzed/not applicable
NP = No purge sample
< = Analytical result is less than reporting limit shown
NS = Not sampled for polycyclic aromatic hydrocarbons (PAHs)
DUP = Duplicate sample
J = estimated value – The result is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)
Carcinogenic PAHs (cPAHs) and Naphthalenes analyzed by U.S. Environmental Protection Agency (EPA) 8270C SIM
cPAHs adjusted for toxicity according to Washington State Administrative Code 173-340-708(8). If one or more adjusted cPAH constituents were reported as non-detect, half of the reporting limit was used in calculations.
Naphthalenes is a sum total of 1-methyl-naphthalene, 2-methyl-naphthalene, and naphthalene. If one or more constituents were reported as non-detect, half of the reporting limit was used in calculations.
BOLD Concentration greater than the MTCA Method A cleanup level
BOLD Concentration greater than the MTCA Method A Cleanup level but is below method detection limit (MDL)

Table 3
Select Volatile Organic Compounds Analytical Results
WA-11060
4580 Fauntleroy Way SW, Seattle, WA 98126

All analytical results are presented in micrograms per liter (µg/L)

Well ID	Date	Notes	Acetaldehyde	Acrolein	1,3 Butadiene	Chloroform	Ethanol	Hexane	Vinyl Chloride	1, 1-Dichloroethene (1,1-DCE)	cis-1,2-Dichloroethene (cis-1,2-DCE)	trans-1,2-Dichloroethene (trans-1,2-DCE)	1,1,2-Trichloroethane	Trichloroethene (TCE)	Tetrachloroethene (PCE)
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L			--	--	--	--	--	--	0.2	--	--	--	--	5	5
GMW-1	8/27/2019	(LFP)	--	--	<0.157	<0.0860	<42	6.17	<0.118	<0.188	<0.0933	<0.152	<0.186	<0.153	<0.199
GMW-1	8/27/2019	(LFP) (DUP)	--	--	<0.157	<0.0860	<42	4.62(J)	<0.118	<0.188	<0.0933	<0.152	<0.186	<0.153	<0.199
MW-9	8/27/2019	(LFP)	--	--	<0.157	<0.0860	<42	<0.305	<0.118	<0.188	<0.0933	<0.152	<0.186	<0.153	<0.199
MW-11	8/27/2019	(LFP)	--	--	<0.157	<0.0860	<42	<0.305	<0.118	<0.188	<0.0933	<0.152	<0.186	<0.153	<0.199
MW-12	8/27/2019	(LFP)	--	--	<0.157	<0.0860	<42	<0.305	<0.118	<0.188	<0.0933	<0.152	<0.186	<0.153	<0.199

Notes:
-- = Not analyzed/not applicable
LFP = Low Flow Purge
NP = No purge sample
ND < = Analytical result is less than reporting limit shown
NS = Not sampled for polycyclic aromatic hydrocarbons (PAHs)
DUP = Duplicate sample
J = estimated value – The result is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)
Volatile organic compounds analyzed by U.S. Environmental Protection Agency (EPA) 8260C



REFERENCE: BASE MAP USGS 7.5X15. MIN. TOPO. QUAD.,SEATTLE SOUTH, WA, 1983.

0 2000' 4000'

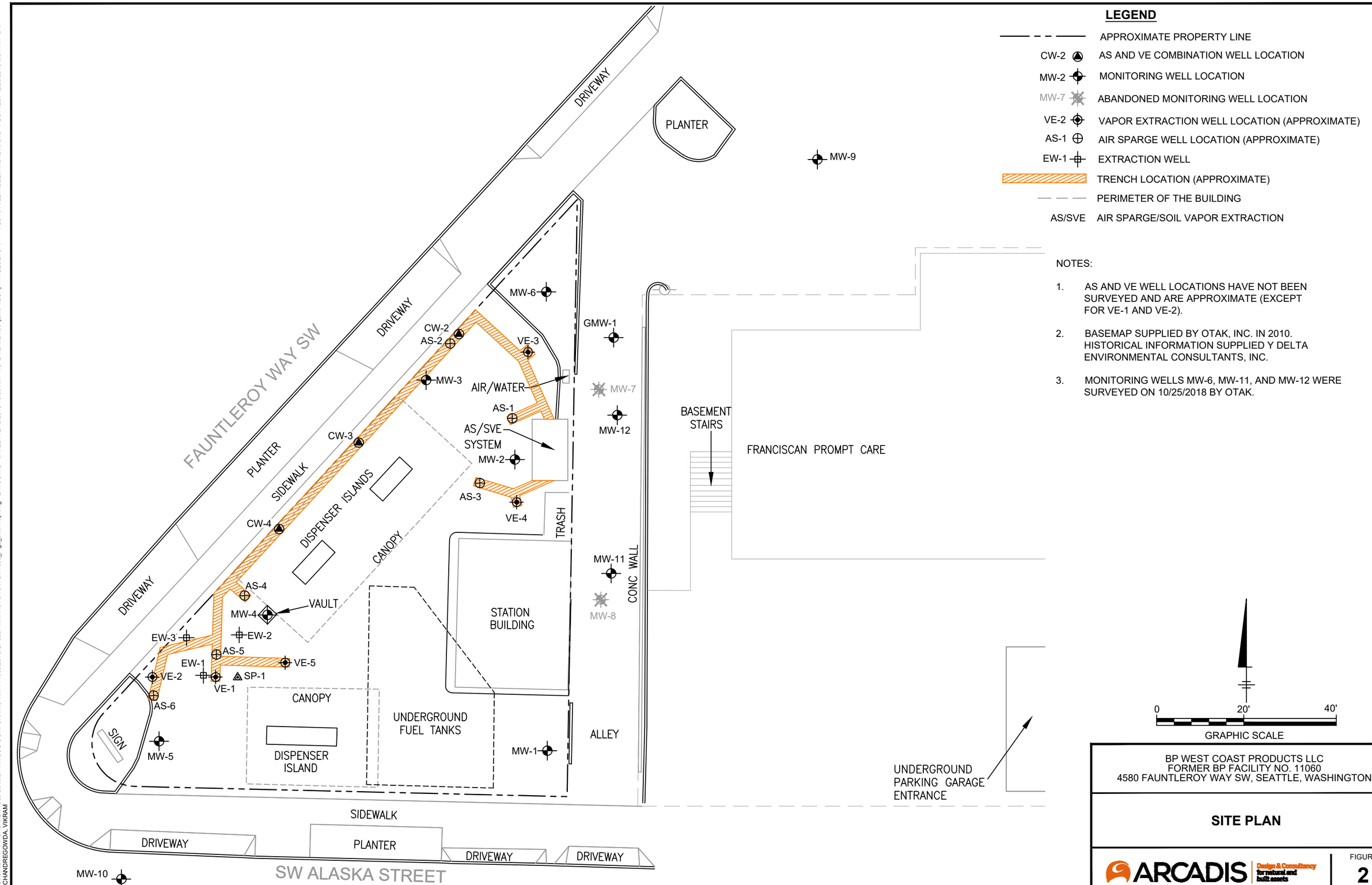
Approximate Scale: 1 in. = 2000 ft.

BP WEST COAST PRODUCTS LLC
FORMER BP FACILITY NO. 11060
4580 FAUNTLEROY WAY SW, SEATTLE, WASHINGTON

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1



LEGEND

- APPROXIMATE PROPERTY LINE
- CW-2 — AS AND VE COMBINATION WELL LOCATION
- MW-2 — MONITORING WELL LOCATION
- MW-7 — ABANDONED MONITORING WELL LOCATION
- VE-2 — VAPOR EXTRACTION WELL LOCATION (APPROXIMATE)
- AS-1 — AIR SPARGE WELL LOCATION (APPROXIMATE)
- EW-1 — EXTRACTION WELL
- TRENCH LOCATION (APPROXIMATE)
- PERIMETER OF THE BUILDING
- AS/SVE — AIR SPARGE/SOIL VAPOR EXTRACTION

NOTES:

1. AS AND VE WELL LOCATIONS HAVE NOT BEEN SURVEYED AND ARE APPROXIMATE (EXCEPT FOR VE-1 AND VE-2).
2. BASEMAP SUPPLIED BY OTAK, INC. IN 2010. HISTORICAL INFORMATION SUPPLIED Y DELTA ENVIRONMENTAL CONSULTANTS, INC.
3. MONITORING WELLS MW-6, MW-11, AND MW-12 WERE SURVEYED ON 10/25/2018 BY OTAK.

0 20' 40'

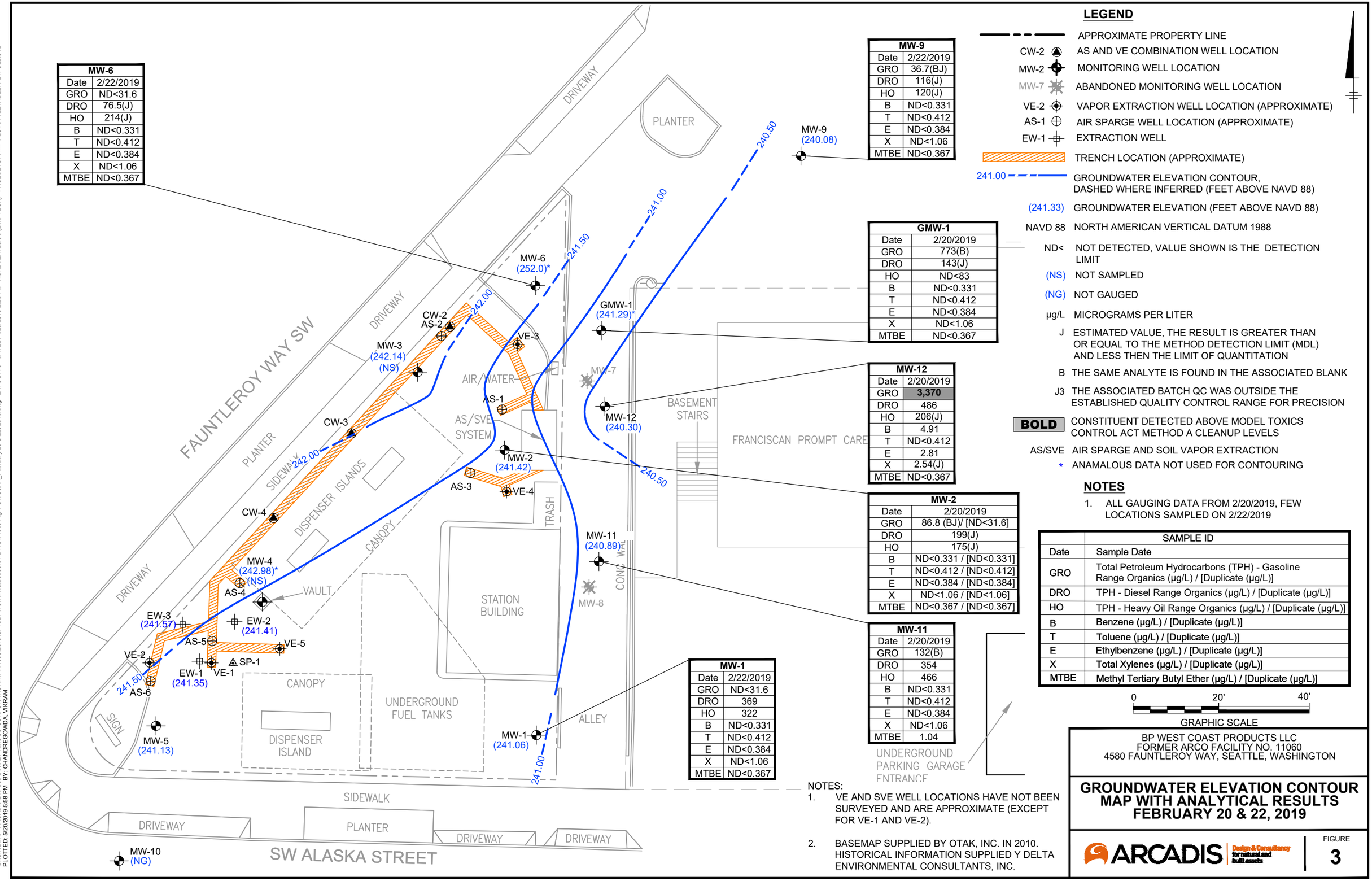
GRAPHIC SCALE

BP WEST COAST PRODUCTS LLC
FORMER BP FACILITY NO. 11060
4580 FAUNTLEROY WAY SW, SEATTLE, WASHINGTON

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets

FIGURE 2



MW-6	
Date	2/22/2019
GRO	ND<31.6
DRO	76.5(J)
HO	214(J)
B	ND<0.331
T	ND<0.412
E	ND<0.384
X	ND<1.06
MTBE	ND<0.367

MW-9	
Date	2/22/2019
GRO	36.7(BJ)
DRO	116(J)
HO	120(J)
B	ND<0.331
T	ND<0.412
E	ND<0.384
X	ND<1.06
MTBE	ND<0.367

GMW-1	
Date	2/20/2019
GRO	773(B)
DRO	143(J)
HO	ND<83
B	ND<0.331
T	ND<0.412
E	ND<0.384
X	ND<1.06
MTBE	ND<0.367

MW-12	
Date	2/20/2019
GRO	**3,370**
DRO	486
HO	206(J)
B	4.91
T	ND<0.412
E	2.81
X	2.54(J)
MTBE	ND<0.367

MW-2	
Date	2/20/2019
GRO	86.8 (BJ)/ [ND<31.6]
DRO	199(J)
HO	175(J)
B	ND<0.331 / [ND<0.331]
T	ND<0.412 / [ND<0.412]
E	ND<0.384 / [ND<0.384]
X	ND<1.06 / [ND<1.06]
MTBE	ND<0.367 / [ND<0.367]

MW-11	
Date	2/20/2019
GRO	132(B)
DRO	354
HO	466
B	ND<0.331
T	ND<0.412
E	ND<0.384
X	ND<1.06
MTBE	1.04

MW-1	
Date	2/22/2019
GRO	ND<31.6
DRO	369
HO	322
B	ND<0.331
T	ND<0.412
E	ND<0.384
X	ND<1.06
MTBE	ND<0.367

LEGEND

- APPROXIMATE PROPERTY LINE
- CW-2 — AS AND VE COMBINATION WELL LOCATION
- MW-2 — MONITORING WELL LOCATION
- MW-7 — ABANDONED MONITORING WELL LOCATION
- VE-2 — VAPOR EXTRACTION WELL LOCATION (APPROXIMATE)
- AS-1 — AIR SPARGE WELL LOCATION (APPROXIMATE)
- EW-1 — EXTRACTION WELL
- TRENCH LOCATION (APPROXIMATE)
- 241.00 — GROUNDWATER ELEVATION CONTOUR, DASHED WHERE INFERRED (FEET ABOVE NAVD 88)
- (241.33) — GROUNDWATER ELEVATION (FEET ABOVE NAVD 88)
- NAVD 88 — NORTH AMERICAN VERTICAL DATUM 1988
- ND< — NOT DETECTED, VALUE SHOWN IS THE DETECTION LIMIT
- (NS) — NOT SAMPLED
- (NG) — NOT GAUGED
- µg/L — MICROGRAMS PER LITER
- J — ESTIMATED VALUE, THE RESULT IS GREATER THAN OR EQUAL TO THE METHOD DETECTION LIMIT (MDL) AND LESS THEN THE LIMIT OF QUANTITATION
- B — THE SAME ANALYTE IS FOUND IN THE ASSOCIATED BLANK
- J3 — THE ASSOCIATED BATCH QC WAS OUTSIDE THE ESTABLISHED QUALITY CONTROL RANGE FOR PRECISION
- **BOLD** — CONSTITUENT DETECTED ABOVE MODEL TOXICS CONTROL ACT METHOD A CLEANUP LEVELS
- AS/SVE — AIR SPARGE AND SOIL VAPOR EXTRACTION
- * — ANAMALOUS DATA NOT USED FOR CONTOURING

NOTES

1. ALL GAUGING DATA FROM 2/20/2019, FEW LOCATIONS SAMPLED ON 2/22/2019

	SAMPLE ID
Date	Sample Date
GRO	Total Petroleum Hydrocarbons (TPH) - Gasoline Range Organics (µg/L) / [Duplicate (µg/L)]
DRO	TPH - Diesel Range Organics (µg/L) / [Duplicate (µg/L)]
HO	TPH - Heavy Oil Range Organics (µg/L) / [Duplicate (µg/L)]
B	Benzene (µg/L) / [Duplicate (µg/L)]
T	Toluene (µg/L) / [Duplicate (µg/L)]
E	Ethylbenzene (µg/L) / [Duplicate (µg/L)]
X	Total Xylenes (µg/L) / [Duplicate (µg/L)]
MTBE	Methyl Tertiary Butyl Ether (µg/L) / [Duplicate (µg/L)]

0 20' 40'

GRAPHIC SCALE

NOTES:
1. VE AND SVE WELL LOCATIONS HAVE NOT BEEN SURVEYED AND ARE APPROXIMATE (EXCEPT FOR VE-1 AND VE-2).
2. BASEMAP SUPPLIED BY OTAK, INC. IN 2010. HISTORICAL INFORMATION SUPPLIED Y DELTA ENVIRONMENTAL CONSULTANTS, INC.

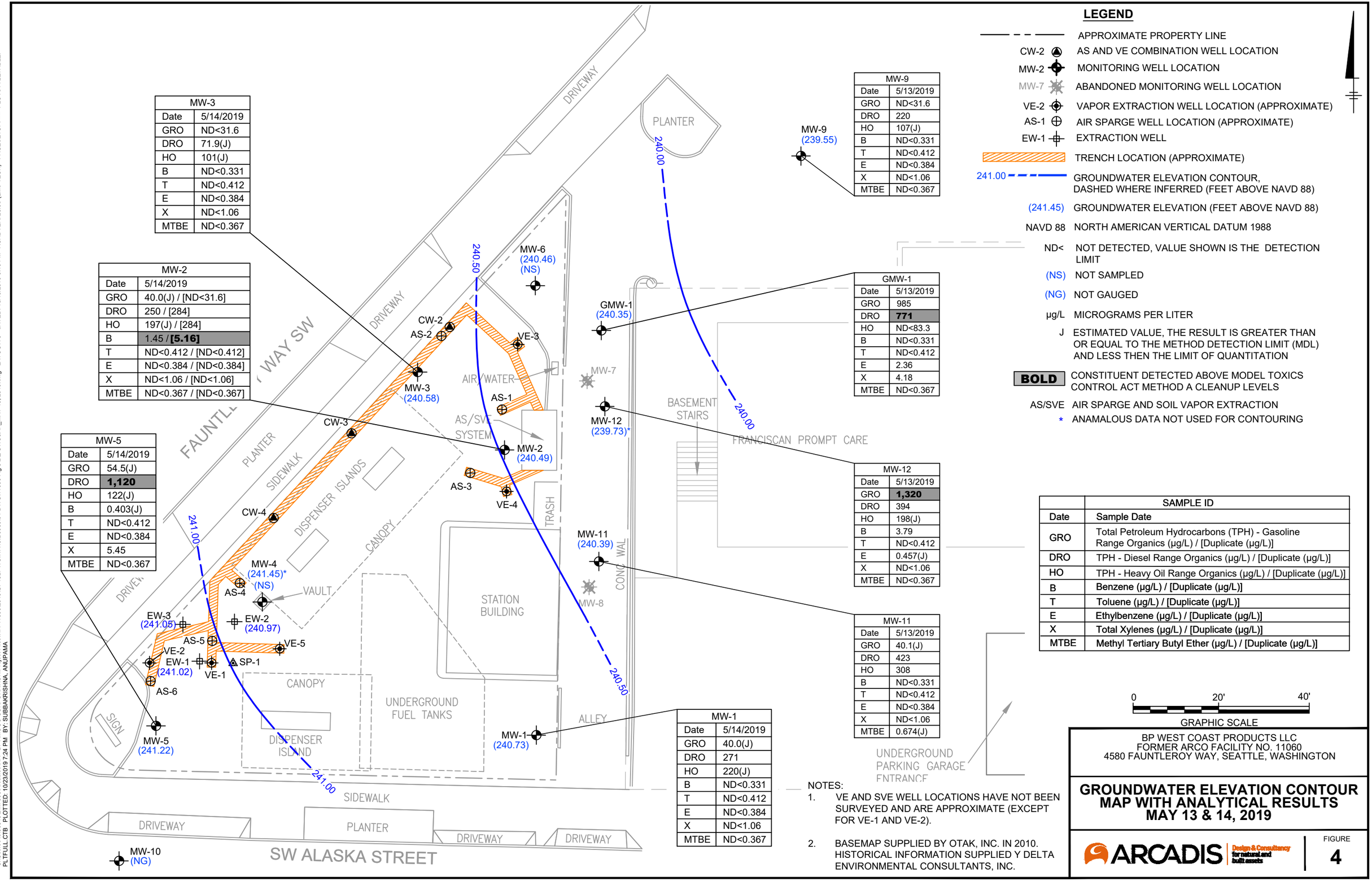
BP WEST COAST PRODUCTS LLC
FORMER ARCO FACILITY NO. 11060
4580 FAUNTLEROY WAY, SEATTLE, WASHINGTON

GROUNDWATER ELEVATION CONTOUR MAP WITH ANALYTICAL RESULTS FEBRUARY 20 & 22, 2019

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

CITY:(EMERYVILLE) DIV/GROUP:(EMV) DB:(DCB) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
D:\OneDrive - ARCADIS\BIM 360 Docs\BP AMOCO CORPORATION\WA-11060\2019\GP18BPWC.WA48.B0000\01-DWG\11060 Fig 4 GWC&AR_February 20 & 22, 2019.dwg LAYOUT: 3 SAVED: 4/29/2019 2:23 PM ACADVER: 23.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB
PLOTTED: 5/20/2019 5:58 PM BY: CHANDREGOWDA, VIKRAM



LEGEND

- APPROXIMATE PROPERTY LINE
- CW-2 — AS AND VE COMBINATION WELL LOCATION
- MW-2 — MONITORING WELL LOCATION
- MW-7 — ABANDONED MONITORING WELL LOCATION
- VE-2 — VAPOR EXTRACTION WELL LOCATION (APPROXIMATE)
- AS-1 — AIR SPARGE WELL LOCATION (APPROXIMATE)
- EW-1 — EXTRACTION WELL
- TRENCH LOCATION (APPROXIMATE)
- 241.00 — GROUNDWATER ELEVATION CONTOUR, DASHED WHERE INFERRED (FEET ABOVE NAVD 88)
- (241.45) — GROUNDWATER ELEVATION (FEET ABOVE NAVD 88)
- NAVD 88 — NORTH AMERICAN VERTICAL DATUM 1988
- ND< — NOT DETECTED, VALUE SHOWN IS THE DETECTION LIMIT
- (NS) — NOT SAMPLED
- (NG) — NOT GAUGED
- µg/L — MICROGRAMS PER LITER
- J — ESTIMATED VALUE, THE RESULT IS GREATER THAN OR EQUAL TO THE METHOD DETECTION LIMIT (MDL) AND LESS THEN THE LIMIT OF QUANTITATION
- **BOLD** — CONSTITUENT DETECTED ABOVE MODEL TOXICS CONTROL ACT METHOD A CLEANUP LEVELS
- AS/SVE — AIR SPARGE AND SOIL VAPOR EXTRACTION
- * — ANAMALOUS DATA NOT USED FOR CONTOURING

	SAMPLE ID
Date	Sample Date
GRO	Total Petroleum Hydrocarbons (TPH) - Gasoline Range Organics (µg/L) / [Duplicate (µg/L)]
DRO	TPH - Diesel Range Organics (µg/L) / [Duplicate (µg/L)]
HO	TPH - Heavy Oil Range Organics (µg/L) / [Duplicate (µg/L)]
B	Benzene (µg/L) / [Duplicate (µg/L)]
T	Toluene (µg/L) / [Duplicate (µg/L)]
E	Ethylbenzene (µg/L) / [Duplicate (µg/L)]
X	Total Xylenes (µg/L) / [Duplicate (µg/L)]
MTBE	Methyl Tertiary Butyl Ether (µg/L) / [Duplicate (µg/L)]

0 20' 40'

GRAPHIC SCALE

NOTES:

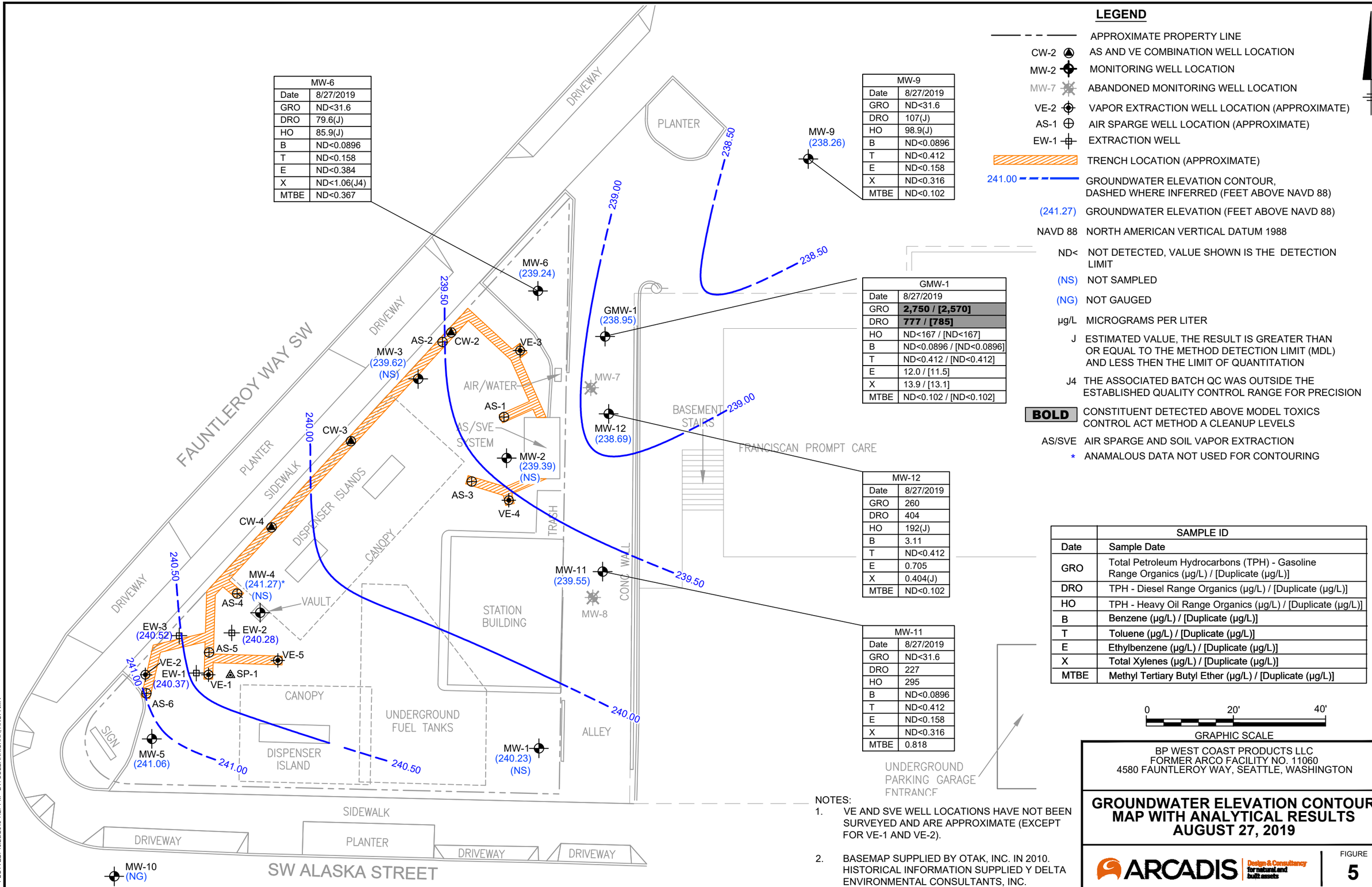
1. VE AND SVE WELL LOCATIONS HAVE NOT BEEN SURVEYED AND ARE APPROXIMATE (EXCEPT FOR VE-1 AND VE-2).
2. BASEMAP SUPPLIED BY OTAK, INC. IN 2010. HISTORICAL INFORMATION SUPPLIED Y DELTA ENVIRONMENTAL CONSULTANTS, INC.

BP WEST COAST PRODUCTS LLC
FORMER ARCO FACILITY NO. 11060
4580 FAUNTLEROY WAY, SEATTLE, WASHINGTON

GROUNDWATER ELEVATION CONTOUR MAP WITH ANALYTICAL RESULTS MAY 13 & 14, 2019

ARCADIS Design & Consultancy for natural and built assets

FIGURE 4



MW-6	
Date	8/27/2019
GRO	ND<31.6
DRO	79.6(J)
HO	85.9(J)
B	ND<0.0896
T	ND<0.158
E	ND<0.384
X	ND<1.06(J4)
MTBE	ND<0.367

MW-9	
Date	8/27/2019
GRO	ND<31.6
DRO	107(J)
HO	98.9(J)
B	ND<0.0896
T	ND<0.412
E	ND<0.158
X	ND<0.316
MTBE	ND<0.102

GMW-1	
Date	8/27/2019
GRO	**2,750 / [2,570]**
DRO	**777 / [785]**
HO	ND<167 / [ND<167]
B	ND<0.0896 / [ND<0.0896]
T	ND<0.412 / [ND<0.412]
E	12.0 / [11.5]
X	13.9 / [13.1]
MTBE	ND<0.102 / [ND<0.102]

MW-12	
Date	8/27/2019
GRO	260
DRO	404
HO	192(J)
B	3.11
T	ND<0.412
E	0.705
X	0.404(J)
MTBE	ND<0.102

MW-11	
Date	8/27/2019
GRO	ND<31.6
DRO	227
HO	295
B	ND<0.0896
T	ND<0.412
E	ND<0.158
X	ND<0.316
MTBE	0.818

LEGEND

- APPROXIMATE PROPERTY LINE
- CW-2 — AS AND VE COMBINATION WELL LOCATION
- MW-2 — MONITORING WELL LOCATION
- MW-7 — ABANDONED MONITORING WELL LOCATION
- VE-2 — VAPOR EXTRACTION WELL LOCATION (APPROXIMATE)
- AS-1 — AIR SPARGE WELL LOCATION (APPROXIMATE)
- EW-1 — EXTRACTION WELL
- TRENCH LOCATION (APPROXIMATE)
- 241.00 — GROUNDWATER ELEVATION CONTOUR, DASHED WHERE INFERRED (FEET ABOVE NAVD 88)
- (241.27) — GROUNDWATER ELEVATION (FEET ABOVE NAVD 88)
- NAVD 88 — NORTH AMERICAN VERTICAL DATUM 1988
- ND< — NOT DETECTED, VALUE SHOWN IS THE DETECTION LIMIT
- (NS) — NOT SAMPLED
- (NG) — NOT GAUGED
- µg/L — MICROGRAMS PER LITER
- J — ESTIMATED VALUE, THE RESULT IS GREATER THAN OR EQUAL TO THE METHOD DETECTION LIMIT (MDL) AND LESS THEN THE LIMIT OF QUANTITATION
- J4 — THE ASSOCIATED BATCH QC WAS OUTSIDE THE ESTABLISHED QUALITY CONTROL RANGE FOR PRECISION
- **BOLD** — CONSTITUENT DETECTED ABOVE MODEL TOXICS CONTROL ACT METHOD A CLEANUP LEVELS
- AS/SVE — AIR SPARGE AND SOIL VAPOR EXTRACTION
- * — ANAMALOUS DATA NOT USED FOR CONTOURING

	SAMPLE ID
Date	Sample Date
GRO	Total Petroleum Hydrocarbons (TPH) - Gasoline Range Organics (µg/L) / [Duplicate (µg/L)]
DRO	TPH - Diesel Range Organics (µg/L) / [Duplicate (µg/L)]
HO	TPH - Heavy Oil Range Organics (µg/L) / [Duplicate (µg/L)]
B	Benzene (µg/L) / [Duplicate (µg/L)]
T	Toluene (µg/L) / [Duplicate (µg/L)]
E	Ethylbenzene (µg/L) / [Duplicate (µg/L)]
X	Total Xylenes (µg/L) / [Duplicate (µg/L)]
MTBE	Methyl Tertiary Butyl Ether (µg/L) / [Duplicate (µg/L)]

0 20' 40'

GRAPHIC SCALE

NOTES:
1. VE AND SVE WELL LOCATIONS HAVE NOT BEEN SURVEYED AND ARE APPROXIMATE (EXCEPT FOR VE-1 AND VE-2).
2. BASEMAP SUPPLIED BY OTAK, INC. IN 2010. HISTORICAL INFORMATION SUPPLIED Y DELTA ENVIRONMENTAL CONSULTANTS, INC.

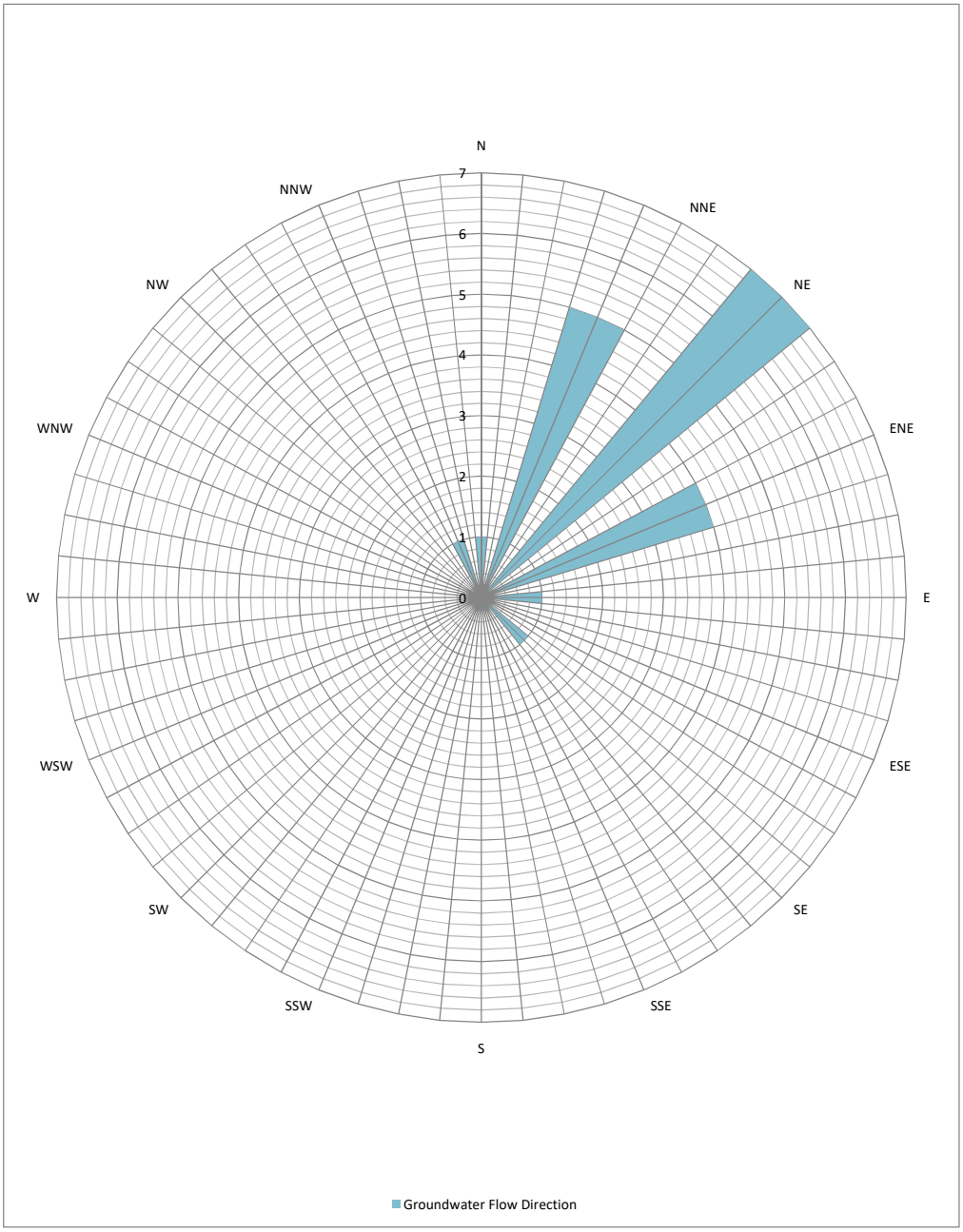
BP WEST COAST PRODUCTS LLC
FORMER ARCO FACILITY NO. 11060
4580 FAUNTLEROY WAY, SEATTLE, WASHINGTON

GROUNDWATER ELEVATION CONTOUR MAP WITH ANALYTICAL RESULTS AUGUST 27, 2019

ARCADIS Design & Consultancy for natural and built assets

FIGURE 5

CITY:(EMERYVILLE) DIV/GROUP:(EMV) DB:(DCB) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\ASI00813\BIM 360\Arcadis\4ANA - BP AMOCO CORPORATION\Project Files\WA-11060\2019\GP18BPWC.WA48.B0000\001-DWG\11060 Fig 3 GWC&AR_AUG 27, 2019.dwg LAYOUT: 3 SAVED: 10/23/2019 7:26 PM ACADVER: 23.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB
PLOTTED: 10/23/2019 7:27 PM BY: SUBBAKRISHNA, ANUPAMA



Legend

N=North
NNE= North Northeast
NE= Northeast
ENE= East Northeast
E= East
ESE= East Southeast
SE=Southeast
SSE= South Southeast
S= South
SW= Southwest
SSW= South Southwest
WSW= West South West
W= West
WNW= West Northwest
NW=Northwest
NNW= North Northwest

Note

Rose diagram based on gradient directions from groundwater monitoring events conducted by ARCADIS since top of casing survey in March 2010.

Number of Events Observed = 20

BP WEST COAST PRODUCTS LLC
FORMER ARCO FACILITY NO. 11060
4580 FAUNTLEROY WAY, SEATTLE, WASHINGTON

HISTORICAL GROUNDWATER GRADIENT DIRECTION ROSE DIAGRAM

ARCADIS Design & Consultancy for natural and built assets

FIGURE 6

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Site:	WA-11060
Date(s):	2/20/2019
Sampler(s):	Alex Pink
Equipment:	Oil/Water Interface Probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	LNAPL Thickness (ft)	PID (ppmv)	Remarks
EW-1	2/20/2019	10:00:00	26.85	--	--	0.2	
EW-2	2/20/2019	10:17:00	26.52	--	--	0	
EW-3	2/20/2019	10:07:00	26.93	--	--	330.1	
GWM-1	2/20/2019	10:35:00	24.34	--	--	1184	
MW-1	2/20/2019	10:25:00	26.37	--	--	148.9	
MW-11	2/20/2019	10:29:00	25.49	--	--	0.7	
MW-12	2/20/2019	10:33:00	26.21	--	--	542.9	
MW-2	2/20/2019	10:51:00	25.27	--	--	0.9	
MW-3	2/20/2019	10:47:00	23.86	--	--	0.6	
MW-4	2/20/2019	10:13:00	24.8	--	--	404.3	
MW-5	2/20/2019	10:20:00	27.33	--	--	1.3	
MW-6	2/20/2019	10:42:00	13.9	--	--	0.3	
MW-9	2/20/2019	10:38:00	23.27	--	--	1.7	

Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	MW-1	**Date**	2/20/2019
Project Name/Location	WA-11060			**Weather(°F)**	Sunny
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	4
Well Material					
Static Water Level (ft-bmp)	26.35	**Total Depth (ft-bmp)**	27.33	**Water Column (ft)**	0.98
Gallons in Well	0.64				
MP Elevation		**Pump Intake (ft-bmp)**	27	**Purge Method:**	Low-Flow
Sample Method	Low-Flow				
Sample Time:	#Error	**Volumes Purged**		**Replicate/ Code No.**	
Sampled by	Alex Pink,Dan Gilbert				
Purge Start:	12:03	**Gallons Purged**			
Purge End:	#Error				

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
12:10		200	26.63	0.37	6.29	1085		2.02	14.8	59.8		
12:13	3	200	26.8	0.53	6.46	1070		1.23	15	30.3		

Constituent Sampled	**Container**	**Number**	**Preservative**

Comments: Well ran dry after two parameter readings.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____
Condition of Well: _____
Well Completion: _____
Well Locked at Arrival: _____
Well Locked at Departure: _____
Key Number To Well: _____

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	MW-12	**Date**	2/20/2019
Project Name/Location	WA-11060			**Weather(°F)**	Cloudy
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	2
Well Material					
Static Water Level (ft-bmp)	26.22	**Total Depth (ft-bmp)**	29.41	**Water Column (ft)**	3.19
Gallons in Well	0.52				
MP Elevation		**Pump Intake (ft-bmp)**	28	**Purge Method:**	Low-Flow
Sample Method	Low-Flow				
Sample Time:	17:30	**Volumes Purged**	2.74	**Replicate/ Code No.**	
Sampled by	Alex Pink,Dan Gilbert				
Purge Start:	05:09	**Gallons Purged**	1.43		
Purge End:	17:28				

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
17:12		200	26.53	0.63	6.6	954		0.79	14.8	73.3	Clear	No
17:15	3	200	26.62	0.79	6.66	946		0.72	14.8	66.2	Clear	No
17:18	3	200	26.74	0.95	6.68	954		0.66	14.8	59.2	Clear	No
17:21	3	200	26.85	1.11	6.69	946		0.6	14.8	55.6	Clear	No
17:24	3	200	26.93	1.27	6.68	931		0.57	14.7	54.5	Clear	No
17:27	3	200	27.03	1.43	6.68	912		0.56	14.9	53.6	Clear	No

Constituent Sampled	Container	Number	Preservative
TCL VOCs 8260B	40 mL Glass	3	HCL
TCL SVOCs 8270 8270D SIM	40 mL Glass	2	None
GRO NWTPH-Gx	40 mL Glass	3	HCL
DRO NWTPH-Dx	40 mL Glass	2	HCL
EDB SV8011	40 mL Glass	3	NaThio
(Diss) TAL Metals SW6010C/7470A	250 mL Plastic	1	None
Total TAL Metals 6010C	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location: MW-12

Condition of Well: Good

Well Completion:

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well:

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	MW-11	**Date**	2/20/2019
Project Name/Location	WA-11060			**Weather(°F)**	Cloudy
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	2
Well Material					
Static Water Level (ft-bmp)	25.49	**Total Depth (ft-bmp)**	31.5	**Water Column (ft)**	6.01
Gallons in Well	0.98				
MP Elevation		**Pump Intake (ft-bmp)**	28	**Purge Method:**	Low-Flow
Sample Method	Low-Flow				
Sample Time:	13:05	**Volumes Purged**	1.29	**Replicate/ Code No.**	
Sampled by	Alex Pink,Dan Gilbert				
Purge Start:	12:41	**Gallons Purged**	1.27		
Purge End:	13:05				

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
12:45		200	25.74	0.21	6.66	982		1.24	15.5	160.2	Clear	None
12:48	3	200	24.89	0.37	6.71	964		0.98	15.7	139.9	Clear	None
12:51	3	200	26.01	0.53	6.75	961		0.88	15.9	128.2	Clear	None
12:55	4	200	26.12	0.74	6.77	966		0.82	15.8	117.1	Clear	None
12:59	4	200	26.26	0.95	6.77	979		0.77	15.7	109.4	Clear	None
13:02	3	200	26.32	1.11	6.76	983		0.75	15.6	105.6	Clear	None
13:05	3	200	26.39	1.27	6.77	993		0.72	15.7	102.6	Clear	None

Constituent Sampled	Container	Number	Preservative
TCL VOCs 8260B	40 mL Glass	3	HCL
TCL SVOCs 8270 8270D SIM	40 mL Glass	2	None
GRO NWTPH-Gx	40 mL Glass	3	HCL
NWTPH-Dx	40 mL Glass	2	HCL
EDB SV8011	40 mL Glass	3	NaThio
(Diss) TAL Metals SW6010C/7470A	250 mL Plastic	1	None
Total TAL Metals 6010C	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: MW-11
Condition of Well: Good
Well Completion:
Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well:

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	GWM-1	**Date**	2/20/2019
Project Name/Location	WA-11060			**Weather(°F)**	Cloudy
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	2
Well Material					
Static Water Level (ft-bmp)	24.33	**Total Depth (ft-bmp)**	34.03	**Water Column (ft)**	9.70
Gallons in Well	1.58				
MP Elevation		**Pump Intake (ft-bmp)**	30	**Purge Method:**	Low-Flow
Sample Method	Low-Flow				
Sample Time:	16:40	**Volumes Purged**	1.30	**Replicate/ Code No.**	
Sampled by	Alex Pink,Dan Gilbert				
Purge Start:	16:13	**Gallons Purged**	2.06		
Purge End:	16:37				

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
16:21		200	24.47	1.27	5.51	2238		1.09	14.2	99.5	Clear	No
16:24	3	200	24.47	1.43	5.55	2237		0.84	14.4	93	Clear	No
16:27	3	200	24.48	1.59	5.6	2246		0.79	14.5	80.3	Clear	No
16:30	3	200	24.51	1.74	5.63	2241		0.74	14.6	70.3	Clear	No
16:33	3	200	24.52	1.90	5.66	2238		0.71	14.5	69.8	Clear	No
16:36	3	200	24.52	2.06	5.67	2234		0.7	14.5	63.4	Clear	No

Constituent Sampled	Container	Number	Preservative
TCL VOCs 8260B	40 mL Glass	3	HCL
GRO NWTPH-Gx	40 mL Glass	3	HCL
TCL SVOCs 8270 8270D SIM	40 mL Glass	2	None
DRO NWTPH-Dx	40 mL Glass	2	HCL
EDB SV8011	40 mL Glass	3	NaThio
Total TAL Metals 6010C	250 mL Plastic	1	HNO3
(Diss) TAL Metals SW6010C/7470A	250 mL Plastic	1	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location: GMW-1

Condition of Well: Good

Well Completion:

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well:

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	MW-2	**Date**	2/20/2019
Project Name/Location	WA-11060			**Weather(°F)**	Cloudy
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	4
Well Material					
Static Water Level (ft-bmp)	25.31	**Total Depth (ft-bmp)**	28.82	**Water Column (ft)**	3.51
Gallons in Well	2.28				
MP Elevation		**Pump Intake (ft-bmp)**	28	**Purge Method:**	Low-Flow
Sample Method	Low-Flow				
Sample Time:	15:30	**Volumes Purged**	0.63	**Replicate/ Code No.**	DUP-1
Sampled by	Alex Pink,Dan Gilbert				
Purge Start:	14:57	**Gallons Purged**	1.43		
Purge End:	15:25				

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
15:00		200	25.44	0.16	5.9	1310		1.99	14.8	220.3	Clear	No
15:03	3	200	25.49	0.32	5.92	1317		2.15	15	215	Clear	No
15:06	3	200	25.57	0.48	5.96	1312		2.34	14.9	213.1	Clear	No
15:09	3	200	25.64	0.63	5.95	1300		2.76	15	214.7	Clear	No
15:12	3	200	25.72	0.79	5.99	1262		3.33	15	220.3	Clear	No
15:15	3	200	25.77	0.95	6.01	1229		3.84	15.1	226.7	Clear	No
15:18	3	200	25.82	1.11	6.01	1216		4.13	15.1	231.7	Clear	No
15:21	3	200	25.88	1.27	6.01	1203		4.25	15	236.7	Clear	No
15:24	3	200	25.93	1.43	6.01	1198		4.39	14.9	240.5	Clear	No

Constituent Sampled	Container	Number	Preservative
TCL VOCs 8260B	40 mL Glass	3	HCL
GRO NWTPH-Gx	40 mL Glass	3	HCL
TCL SVOCs 8270 8270D SIM	40 mL Glass	2	None
EDB SV8011	40 mL Glass	3	NaThio
DRO NWTPH-Dx	40 mL Glass	2	HCL
(Diss) TAL Metals SW6010C/7470A	250 mL Plastic	1	None
Total TAL Metals 6010C	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location: MW-2

Well Locked at Arrival: yes

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:		Key Number To Well:	

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	MW-9	**Date**	2/20/2019
Project Name/Location	WA-11060			**Weather(°F)**	Cloudy
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	2
Well Material					
Static Water Level (ft-bmp)	23.26	**Total Depth (ft-bmp)**	35.06	**Water Column (ft)**	11.80
Gallons in Well	1.92				
MP Elevation		**Pump Intake (ft-bmp)**	30	**Purge Method:**	Low-Flow
Sample Method	Low-Flow				
Sample Time:	14:10	**Volumes Purged**	0.63	**Replicate/ Code No.**	
Sampled by	Alex Pink,Dan Gilbert				
Purge Start:	13:42	**Gallons Purged**	1.22		
Purge End:	14:07				

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
13:45		200	26.39	0.16	6.15	842		1.05	13.7	178.6	Clear	No
13:48	3	200	23.5	0.32	6.12	851		0.96	13.7	169.2	Clear	No
13:51	3	200	23.51	0.48	6.16	829		0.9	13.6	155.7	Clear	No
13:54	3	200	23.51	0.63	6.18	825		0.83	13.3	145.6	Clear	No
13:57	3	200	23.51	0.79	6.22	814		0.76	13.5	136.1	Clear	No
14:00	3	200	23.51	0.95	6.21	815		0.72	13.4	128.8	Clear	No
14:03	3	200	23.52	1.06	6.21	814		0.69	13.7	123.1	Clear	No
14:06	3	200	23.53	1.22	6.22	813		0.67	13.7	118.9	Clear	No

Constituent Sampled	Container	Number	Preservative
TCL VOCs 8260B	40 mL Glass	3	HCL
TCL SVOCs 8270 8270D SIM	40 mL Glass	2	None
GRO NWTPH-Gx	40 mL Glass	3	HCL
DRO NWTPH-Dx	40 mL Glass	2	HCL
EDB SV8011	40 mL Glass	3	NaThio
(Diss) TAL Metals SW6010C/7470A	250 mL Plastic	1	None
Total TAL Metals 6010C	250 mL Plastic	1	HNO3

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: MW-9
Condition of Well: Good
Well Locked at Arrival: yes
Well Locked at Departure: yes

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Well Completion: _____ Key Number To Well: _____

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

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Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	MW-1	**Date**	2/22/2019
Project Name/Location	WA-11060			**Weather(°F)**	Cloudy
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	4
Well Material					
Static Water Level (ft-bmp)	26.33	**Total Depth (ft-bmp)**	27.32	**Water Column (ft)**	0.99
Gallons in Well	0.64				
MP Elevation		**Pump Intake (ft-bmp)**	27	**Purge Method:**	Low-Flow
Sample Method	Grab				
Sample Time:	10:15	**Volumes Purged**	0.66	**Replicate/ Code No.**	
Sampled by	Alex Pink				
Purge Start:	10:03	**Gallons Purged**	0.42		
Purge End:	10:11				

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
10:11		200	26.33	0.00	6.25	1149		2.5	12.1	125	Clear	No

Constituent Sampled	Container	Number	Preservative
TCL VOCs 8260B	40 mL Glass	3	HCL
GRO NWTPH-Gx	40 mL Glass	3	HCL
DRO NWTPH-Dx	40 mL Glass	2	HCL
EDB SV8011	40 mL Glass	3	NaThio
TCL SVOCs 8270 8270D SIM	40 mL Glass	2	None
Total TAL Metals 6010C	250 mL Plastic	1	HNO3
(Diss) TAL Metals SW6010C/7470A	250 mL Plastic	1	None

Comments: GRAB SAMPLE — insufficient water for low-flow purge. Grab sample collected with peristaltic pump.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: MW-1
Condition of Well: Good
Well Completion:
Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well:

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	MW-6	**Date**	2/22/2019
Project Name/Location	WA-11060			**Weather(°F)**	rain
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	2
Well Material					
Static Water Level (ft-bmp)	14.14	**Total Depth (ft-bmp)**	29.1	**Water Column (ft)**	14.96
Gallons in Well	2.43				
MP Elevation		**Pump Intake (ft-bmp)**	20	**Purge Method:**	Low-Flow
Sample Method	Low-Flow				
Sample Time:	11:45	**Volumes Purged**	0.67	**Replicate/ Code No.**	
Sampled by	Alex Pink				
Purge Start:	11:08	**Gallons Purged**	1.64		
Purge End:	11:40				

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
11:12		200	14.14	0.21	5.57	372.2		7.47	12	56.1	Light green, cloudy	No
11:15	3	200	16.44	0.37	5.93	412.3		5.54	12.2	35.8	Light green, cloudy	No
11:18	3	200	16.8	0.53	6.1	445		5.32	12.1	28.5	Light green, cloudy	No
11:21	3	200	17.22	0.69	6.26	545.1		4.64	12.3	27.3	Light green, cloudy	No
11:24	3	200	17.62	0.85	6.19	606.8		4.62	12.1	27.9	Light green, cloudy	No
11:27	3	200	17.94	1.00	6.2	613.4		4.74	12.5	29.1	Light green, cloudy	No
11:30	3	200	18.26	1.16	6.19	697		4.69	12.4	31.3	Light green, cloudy	No
11:33	3	200	18.58	1.32	6.19	709		4.79	12.6	31.7	Light green, cloudy	No
11:36	3	200	18.88	1.48	6.2	738		5	12.4	33.1	Light green, cloudy	No
11:39	3	200	19.14	1.64	6.19	694		4.98	12.5	33.2	Light green, cloudy	No

Constituent Sampled	Container	Number	Preservative
TCL VOCs 8260B	40 mL Glass	3	HCL
GRO NWTPH-Gx	40 mL Glass	3	HCL
DRO NWTPH-Dx	40 mL Glass	2	HCL
TCL SVOCs 8270 8270D SIM	40 mL Glass	2	None
EDB SV8011	40 mL Glass	3	NaThio
Total TAL Metals 6010C	250 mL Plastic	1	HNO3
(Diss) TAL Metals SW6010C/7470A	250 mL Plastic	1	None

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Comments: Organic material - algae - in water

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:	MW-6	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:		Key Number To Well:	

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

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Groundwater Gauging Log

Site:	WA-11060
Date(s):	5/14/2019
Sampler(s):	Kiley Zaubi
Equipment:	

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Depth to LNAPL (ft)	PID (ppmv)	Remarks
MW-9	5/14/2019	09:04:00	23.8	35.1	--	118.1	
GWM-1	5/14/2019	09:07:00	25.28	34.42	--	273.2	
MW-12	5/14/2019	09:10:00	26.78	34	--	3572	
MW-11	5/14/2019	09:17:00	25.99	31.5	--	2.9	
MW-3	5/14/2019	09:43:00	25.42	33.9	--		
MW-5	5/14/2019	10:08:00	27.24	27.55	--	0.7	
MW-2	5/14/2019	09:35:00	26.2	27.85	--		
EW-3	5/14/2019	15:37:00	27.45	--	--	14.3	
EW-1	5/14/2019	15:54:00	27.18	--	--	1.8	
EW-2	5/14/2019	16:06:00	26.96	--	--	0.6	
MW-4	5/14/2019	09:54:00	26.33	27.5	--	2.7	
MW-1	5/14/2019	17:00:00	26.7	27.2	--	26.2	
MW-6	5/14/2019	09:23:00	25.51	29.25	--	0.1	

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Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	MW-9	**Date**	5/13/2019
Project Name/Location	WA-11060			**Weather(°F)**	Overcast
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	2
Well Material					
Static Water Level (ft-bmp)	23.78	**Total Depth (ft-bmp)**	35.01	**Water Column (ft)**	11.23
Gallons in Well	1.82				
MP Elevation		**Pump Intake (ft-bmp)**	29	**Purge Method:**	Low-Flow
Sample Method	Low-Flow				
Sample Time:	13:45	**Volumes Purged**	0.55	**Replicate/ Code No.**	
Sampled by	Kiley Zaubi				
Purge Start:	13:18	**Gallons Purged**	1.00		
Purge End:	13:44				

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
13:20		200	45.3	0.00	6.25	0.71		4.61	15.4	385.7	Rust	None
13:23	3	200	45.3	0.00	6.12	0.73		3.6	15.5	381.8	Rust	None
13:26	3	200	45.3	0.00	6.1	0.71		3.19	15.5	378.3	Rust	None
13:29	3	200	45.3	0.00	6.1	0.72		2.97	15.5	375.4	Rust	None
13:32	3	200	45.3	0.00	6.17	0.72		2.8	15.4	365.3	Rust	None
13:35	3	200	45.3	0.00	6.18	0.72		2.68	15.4	362	Rust	None
13:38	3	200	45.3	0.00	6.1	0.72		2.62	15.3	359.8	Rust	None
13:41	3	200	45.3	0.00	6.15	0.72		2.59	15.3	356.4	Rust	None
13:44	3	200	45.3	0.00	6.13	0.72		2.6	15.4	353.7	Rust	None

Constituent Sampled **Container** **Number** **Preservative**

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	MW-11	**Date**	5/13/2019
Project Name/Location	WA-11060			**Weather(°F)**	Overcast
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	2
Well Material					
Static Water Level (ft-bmp)	25.97	**Total Depth (ft-bmp)**	31.5	**Water Column (ft)**	5.53
Gallons in Well	0.9				
MP Elevation		**Pump Intake (ft-bmp)**	29	**Purge Method:**	Low-Flow
Sample Method	Low-Flow				
Sample Time:	15:15	**Volumes Purged**		**Replicate/ Code No.**	
Sampled by	Kiley Zaubi				
Purge Start:	14:45	**Gallons Purged**			
Purge End:	15:11				

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
14:47		200	45.3	0.00	6.47	0.68		2.84	17	341.5	Clear	
14:50	3	200	45.3	0.00	6.44	0.69		2.61	16.8	342.7	Clear	
14:53	3	200	45.3	0.00	6.46	0.69		2.51	16.8	342.6	Clear	
14:56	3	200	45.3	0.00	6.46	0.7		2.35	16.9	342.3	Clear	
14:59	3	200	45.3	0.00	6.54	0.71		2.25	16.9	341.6	Clear	
15:02	3	200	45.3	0.00	6.48	0.71		2.18	17	340.6	Clear	
15:05	3	200	45.3	0.00	6.5	0.72		2.12	17	340	Clear	
15:08	3	200	45.3	0.00	6.57	0.72		2.1	17	339.7	Clear	
15:11	3	200	45.3	0.00	6.53	0.73		2.12	17	339.4	Clear	

Constituent Sampled **Container** **Number** **Preservative**

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	MW-12	**Date**	5/13/2019
Project Name/Location	WA-11060			**Weather(°F)**	Overcast
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	2
Well Material					
Static Water Level (ft-bmp)	26.78	**Total Depth (ft-bmp)**	34	**Water Column (ft)**	7.22
Gallons in Well	1.17				
MP Elevation		**Pump Intake (ft-bmp)**	30	**Purge Method:**	Low-Flow
Sample Method	Low-Flow				
Sample Time:	16:20	**Volumes Purged**	0.85	**Replicate/ Code No.**	
Sampled by	Kiley Zaubi				
Purge Start:	15:57	**Gallons Purged**	1.00		
Purge End:	16:14				

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
15:57		200	45.3	0.00	6.6	0.64		2.69	16.6	340	Clear	None
16:00	3	200	45.3	0.00	6.55	0.61		2.44	16.6	333.9	Clear	None
16:03	3	200	45.3	0.00	6.53	0.586		2.21	16.5	326	Clear	None
16:06	3	200	45.3	0.00	6.48	0.59		2.07	16.7	319	Clear	None
16:09	3	200	45.3	0.00	6.48	0.6		2.07	16.8	316.2	Clear	None
16:12	3	200	45.3	0.00	6.52	0.64		2.06	17	309.4	Clear	None

Constituent Sampled	**Container**	**Number**	**Preservative**

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	GWM-1	**Date**	5/13/2019
Project Name/Location	WA-11060			**Weather(°F)**	Sunny
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	2
Well Material					
Static Water Level (ft-bmp)	25.24	**Total Depth (ft-bmp)**	34.42	**Water Column (ft)**	9.18
Gallons in Well	1.49				
MP Elevation		**Pump Intake (ft-bmp)**	30	**Purge Method:**	Low-Flow
Sample Method	Low-Flow				
Sample Time:	17:40	**Volumes Purged**	0.50	**Replicate/ Code No.**	
Sampled by	Kiley Zaubi				
Purge Start:	17:07	**Gallons Purged**	0.75		
Purge End:	17:35				

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
17:10		200	45.3	0.00	6.12	2.3		2.53	16.4	193.3	Gray with black material	Strong HClO
17:13	3	200	45.3	0.00	6.12	2.3		2.18	16.5	149.8	Gray with black material	Strong HClO
17:16	3	200	45.3	0.00	6.07	2.31		2.02	16.4	120.1	Gray with black material	Strong HClO
17:19	3	200	45.3	0.00	6.14	2.31		2.15	16.4	103.9	Gray with black material	Strong HClO
17:22	3	200	45.3	0.00	6.04	2.3		1.94	16.5	88.5	Gray with black material	Strong HClO
17:25	3	200	45.3	0.00	6.04	2.3		1.85	16.7	77.1	Gray with black material	Strong HClO
17:28	3	200	45.3	0.00	6.09	2.3		1.84	16.7	68.9	Gray with black material	Strong HClO
17:31	3	200	45.3	0.00	6.09	2.28		1.79	16.8	61.4	Gray with black material	Strong HClO
17:34	3	200	45.3	0.00	6.09	2.27		1.8	16.9	59.2	Gray with black material	Strong HClO

Constituent Sampled **Container** **Number** **Preservative**

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

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Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	MW-2	**Date**	5/14/2019
Project Name/Location	WA-11060			**Weather(°F)**	Raining
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	4
Well Material					
Static Water Level (ft-bmp)	26.2	**Total Depth (ft-bmp)**	27.85	**Water Column (ft)**	1.65
Gallons in Well	1.07				
MP Elevation		**Pump Intake (ft-bmp)**	27	**Purge Method:**	Low-Flow
Sample Method	Low-Flow				
Sample Time:	12:15	**Volumes Purged**	0.70	**Replicate/ Code No.**	DUP-1
Sampled by	Kiley Zaubi				
Purge Start:	11:43	**Gallons Purged**	0.75		
Purge End:	12:09				

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
11:44		200	45.3	0.00	6.49	0.572		5.26	15.8	402.7	Clear	None
11:47	3	200	45.3	0.00	6.65	0.547		5.35	15.6	394	Clear	None
11:50	3	200	45.3	0.00	6.74	0.513		5.51	15.7	386.6	Clear	None
11:53	3	200	45.3	0.00	6.78	0.489		5.58	15.7	382.2	Clear	None
11:56	3	200	45.3	0.00	6.8	0.478		5.29	15.7	380	Clear	None
11:59	3	200	45.3	0.00	6.81	0.466		4.8	15.7	378.1	Clear	None
12:02	3	200	45.3	0.00	6.78	0.456		4.28	15.7	376.6	Clear	None
12:05	3	200	45.3	0.00	6.75	0.453		3.98	15.7	375	Clear	None
12:08	3	200	45.3	0.00	6.75	0.438		3.92	15.7	373.8	Clear	None

Constituent Sampled **Container** **Number** **Preservative**

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	MW-3			**Date**	5/14/2019
Project Name/Location	WA-11060					**Weather(°F)**	Overcast
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	4	**Well Material**	
Static Water Level (ft-bmp)	25.42	**Total Depth (ft-bmp)**	33.9	**Water Column (ft)**	8.48	**Gallons in Well**	5.51
MP Elevation		**Pump Intake (ft-bmp)**	28	**Purge Method:**	Low-Flow	**Sample Method**	Low-Flow
Sample Time:	13:40	**Volumes Purged**		**Replicate/ Code No.**		**Sampled by**	Kiley Zaubi
Purge Start:	13:22	**Gallons Purged**					
Purge End:	13:38						

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
13:25		200	45.3	0.00	6.45	0.499		10.47	15.8	379.1	Clear	
13:29	4	200	45.3	0.00	6.42	0.498		8.93	15.7	377.9	Clear	
13:32	3	200	45.3	0.00	6.4	0.498		8.46	15.7	376.4	Clear	
13:35	3	200	45.3	0.00	6.4	0.498		8.35	15.7	375.5	Clear	
13:38	3	200	45.3	0.00	6.4	0.498		8.3	15.7	374.4	Clear	

Constituent Sampled **Container** **Number** **Preservative**

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	MW-4			**Date**	5/14/2019
Project Name/Location	WA-11060					**Weather(°F)**	Raining
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	4	**Well Material**	
Static Water Level (ft-bmp)	26.33	**Total Depth (ft-bmp)**	27.5	**Water Column (ft)**	1.17	**Gallons in Well**	0.76
MP Elevation		**Pump Intake (ft-bmp)**	27	**Purge Method:**	Low-Flow	**Sample Method**	Low-Flow
Sample Time:	#Error	**Volumes Purged**		**Replicate/ Code No.**		**Sampled by**	Kiley Zaubi
Purge Start:	14:38	**Gallons Purged**					
Purge End:	14:56						

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
14:40		200	45.3	0.00	6.29	1.6	0	2.49	16.7	79.5	Gray with black material	Strong HClO
14:43	3	200	45.3	0.00	6.32	1.61	0	2.63	16.4	29	Gray with black material	Strong HClO
14:46	3	200	45.3	0.00	6.34	1.61	0	2.54	16.3	-11.2	Gray with black material	Strong HClO
14:50	4	200	45.3	0.00	6.35	1.58	0	2.45	16.2	-38.1	Gray with black material	Strong HClO

Constituent Sampled	**Container**	**Number**	**Preservative**

Comments: Well purpled approximately 0.33 gallons of water without stabilizing and then ran dry. Was not able to sample.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	MW-5			**Date**	5/14/2019
Project Name/Location	WA-11060					**Weather(°F)**	Raining
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	4	**Well Material**	
Static Water Level (ft-bmp)	27.24	**Total Depth (ft-bmp)**	27.55	**Water Column (ft)**	0.31	**Gallons in Well**	0.2
MP Elevation		**Pump Intake (ft-bmp)**	27.5	**Purge Method:**	No-Purge	**Sample Method**	No-Purge
Sample Time:	16:20	**Volumes Purged**		**Replicate/ Code No.**		**Sampled by**	Kiley Zaubi
Purge Start:	#Error	**Gallons Purged**					
Purge End:	#Error						

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
16:15		200	45.3	0.00	6.9	0.8		5.47	16.5	157	Black	Strong HClO

Constituent Sampled	**Container**	**Number**	**Preservative**

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	GP18BPWC.WA48	**Well ID**	MW-1			**Date**	5/14/2019
Project Name/Location	WA-11060					**Weather(°F)**	Overcast
Measuring Pt. Description	Top of Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in.)**	4	**Well Material**	
Static Water Level (ft-bmp)	26.7	**Total Depth (ft-bmp)**	27.2	**Water Column (ft)**	0.50	**Gallons in Well**	0.32
MP Elevation		**Pump Intake (ft-bmp)**	27	**Purge Method:**	No-Purge	**Sample Method**	No-Purge
Sample Time:	17:20	**Volumes Purged**		**Replicate/ Code No.**		**Sampled by**	Kiley Zaubi
Purge Start:	#Error	**Gallons Purged**					
Purge End:	#Error						

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
17:28		200	45.3	0.00							Gray with black material	Strong HClO

Constituent Sampled **Container** **Number** **Preservative**

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

ft-bmp = feet below measuring point
in. = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliiSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

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Groundwater Gauging Log

Site:	WA-11060
Date(s):	8/27/2019
Sampler(s):	Andrew Smith
Equipment:	oil/water interface probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Depth to LNAPL (ft)	PID (ppmv)	Remarks
EW-3	8/27/2019	10:55:00	27.98	30.58	0	55.5	
EW-1	8/27/2019	10:45:00	27.83	30.39	0	3.4	
EW-2	8/27/2019	10:36:00	27.65	29.96	0	2.2	
MW-3	8/27/2019	10:30:00	26.38	30	0	0.7	
MW-5	8/27/2019	10:11:00	27.4	27.74	0	1.3	
MW-6	8/27/2019	10:04:00	26.73	28.54	0	0.1	
MW-1	8/27/2019	09:56:00	27.2	27.34	0	5.9	
MW-9	8/27/2019	09:27:00	25.09	35.1	0	1	
GWM-1	8/27/2019	09:32:00	26.68	34.2	0	580.2	
MW-12	8/27/2019	09:39:00	27.82	29.6	0	2310	
MW-11	8/27/2019	09:43:00	26.83	30.1	0	3.2	
MW-2	8/27/2019	10:58:00	27.3	27.9	0	0	
MW-4	8/27/2019	10:42:00	26.51	27.45	0	3.1	

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

March 11, 2019

ARCADIS US - Seattle, WA

Sample Delivery Group:	L1072951
Samples Received:	02/23/2019
Project Number:	GP09BPNA.WA48
Description:	WA-11060
Site:	4580 FAUNTLEROY WAY SW, SEATTL
Report To:	Ross LaGrandeur 1100 Olive Way Suite 800 Seattle, WA 98101

Entire Report Reviewed By:

Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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GMW-1 L1072951-01 GW

Collected by: Alex Pink | Collected date/time: 02/20/19 16:40 | Received date/time: 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1241438	1	02/26/19 13:26	02/27/19 17:00	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1241594	1	02/26/19 10:46	02/27/19 16:04	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1241795	1	02/26/19 15:15	02/26/19 15:15	ACE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241407	1	02/23/19 23:26	02/23/19 23:26	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1242036	1	02/26/19 09:14	02/26/19 20:23	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1241369	1	02/24/19 12:26	02/24/19 20:52	SHG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1241544	1	02/24/19 17:38	02/25/19 04:12	LEA	Mt. Juliet, TN

MW-2 L1072951-02 GW

Collected by: Alex Pink | Collected date/time: 02/20/19 15:30 | Received date/time: 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1241438	1	02/26/19 13:26	02/27/19 17:02	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1241594	1	02/26/19 10:46	02/27/19 16:06	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1241795	1	02/26/19 15:46	02/26/19 15:46	ACE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241407	1	02/23/19 23:47	02/23/19 23:47	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1242036	1	02/26/19 09:14	02/26/19 19:58	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1241369	1	02/24/19 12:26	02/24/19 21:12	SHG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1241544	1	02/24/19 17:38	02/25/19 04:32	LEA	Mt. Juliet, TN

MW-9 L1072951-03 GW

Collected by: Alex Pink | Collected date/time: 02/20/19 14:10 | Received date/time: 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1241438	1	02/26/19 13:26	02/27/19 17:05	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1241594	1	02/26/19 10:46	02/27/19 14:46	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1243694	1	03/01/19 04:44	03/01/19 04:44	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241407	1	02/24/19 00:09	02/24/19 00:09	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1242036	1	02/26/19 09:14	02/26/19 21:36	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1241369	1	02/24/19 12:26	02/24/19 21:33	SHG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1241544	1	02/24/19 17:38	02/25/19 04:53	LEA	Mt. Juliet, TN

MW-11 L1072951-04 GW

Collected by: Alex Pink | Collected date/time: 02/20/19 13:05 | Received date/time: 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1241438	1	02/26/19 13:26	02/27/19 17:08	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1241594	1	02/26/19 10:46	02/27/19 14:49	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1241795	1	02/26/19 16:33	02/26/19 16:33	ACE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241407	1	02/24/19 00:30	02/24/19 00:30	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1242036	1	02/26/19 09:14	02/26/19 21:49	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1241369	1	02/24/19 12:26	02/28/19 16:35	SHG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1241544	1	02/24/19 17:38	02/25/19 05:14	LEA	Mt. Juliet, TN

MW-12 L1072951-05 GW

Collected by: Alex Pink | Collected date/time: 02/20/19 17:30 | Received date/time: 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1241438	1	02/26/19 13:26	02/27/19 17:10	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1241594	1	02/26/19 10:46	02/27/19 14:51	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1241924	1	02/26/19 05:42	02/26/19 05:42	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241407	1	02/24/19 00:51	02/24/19 00:51	JHH	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-12 L1072951-05 GW

Collected by: Alex Pink | Collected date/time: 02/20/19 17:30 | Received date/time: 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
EDB / DBCP by Method 8011	WG1242036	1	02/26/19 09:14	02/26/19 22:01	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1241369	1	02/24/19 12:26	02/28/19 16:54	TH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1241544	1	02/24/19 17:38	02/25/19 05:34	LEA	Mt. Juliet, TN

DUP-1 L1072951-06 GW

Collected by: Alex Pink | Collected date/time: 02/20/19 00:00 | Received date/time: 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1241924	1	02/26/19 06:05	02/26/19 06:05	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241407	1	02/24/19 01:13	02/24/19 01:13	JHH	Mt. Juliet, TN

MW-1 L1072951-07 GW

Collected by: Alex Pink | Collected date/time: 02/22/19 10:15 | Received date/time: 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1241438	1	02/26/19 13:26	02/27/19 15:00	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1241594	1	02/26/19 10:46	02/27/19 14:54	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1241924	1	02/26/19 06:26	02/26/19 06:26	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241407	1	02/24/19 01:34	02/24/19 01:34	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1242036	1	02/26/19 09:14	02/26/19 22:37	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1241369	1	02/24/19 12:26	02/28/19 17:13	TH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1241544	1	02/24/19 17:38	02/25/19 05:55	LEA	Mt. Juliet, TN

MW-6 L1072951-08 GW

Collected by: Alex Pink | Collected date/time: 02/22/19 11:45 | Received date/time: 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1241438	1	02/26/19 13:26	02/27/19 15:02	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1241594	1	02/26/19 10:46	02/27/19 14:57	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1241924	1	02/26/19 06:49	02/26/19 06:49	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241407	1	02/24/19 01:55	02/24/19 01:55	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1242036	1	02/26/19 09:14	02/26/19 22:50	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1241369	1	02/24/19 12:26	02/24/19 22:53	SHG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1241544	1	02/24/19 17:38	02/25/19 09:11	LEA	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jared Starkey
Project Manager

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		1.90	5.00	1	02/27/2019 16:04	WG1241594
Lead,Dissolved	U		1.90	5.00	1	02/27/2019 17:00	WG1241438

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	773	B	31.6	100	1	02/26/2019 15:15	WG1241795
(S) a,a,a-Trifluorotoluene(FID)	*82.2*			*78.0-120*		*02/26/2019 15:15*	WG1241795

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/23/2019 23:26	WG1241407
Toluene	U		0.412	1.00	1	02/23/2019 23:26	WG1241407
Ethylbenzene	U		0.384	1.00	1	02/23/2019 23:26	WG1241407
Total Xylenes	U		1.06	3.00	1	02/23/2019 23:26	WG1241407
Methyl tert-butyl ether	U		0.367	1.00	1	02/23/2019 23:26	WG1241407
1,2-Dichloroethane	U		0.361	1.00	1	02/23/2019 23:26	WG1241407
(S) Toluene-d8	*104*			*80.0-120*		*02/23/2019 23:26*	WG1241407
(S) a,a,a-Trifluorotoluene	*92.3*			*80.0-120*		*02/23/2019 23:26*	WG1241407
(S) 4-Bromofluorobenzene	*113*			*77.0-126*		*02/23/2019 23:26*	WG1241407
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*02/23/2019 23:26*	WG1241407

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00240	0.0100	1	02/26/2019 20:23	WG1242036

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	143	J	66.7	200	1	02/24/2019 20:52	WG1241369
Residual Range Organics (RRO)	U		83.3	250	1	02/24/2019 20:52	WG1241369
(S) o-Terphenyl	*95.8*			*52.0-156*		*02/24/2019 20:52*	WG1241369

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U		0.00410	0.0500	1	02/25/2019 04:12	WG1241544
Benzo(a)pyrene	U		0.0116	0.0500	1	02/25/2019 04:12	WG1241544
Benzo(b)fluoranthene	U		0.00212	0.0500	1	02/25/2019 04:12	WG1241544
Benzo(k)fluoranthene	U		0.0136	0.0500	1	02/25/2019 04:12	WG1241544
Chrysene	U		0.0108	0.0500	1	02/25/2019 04:12	WG1241544
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	02/25/2019 04:12	WG1241544
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	02/25/2019 04:12	WG1241544
Naphthalene	U		0.0198	0.250	1	02/25/2019 04:12	WG1241544
1-Methylnaphthalene	0.0121	J	0.00821	0.250	1	02/25/2019 04:12	WG1241544
2-Methylnaphthalene	0.0240	J	0.00902	0.250	1	02/25/2019 04:12	WG1241544
(S) Nitrobenzene-d5	*91.0*			*31.0-160*		*02/25/2019 04:12*	WG1241544
(S) 2-Fluorobiphenyl	*80.0*			*48.0-148*		*02/25/2019 04:12*	WG1241544
(S) p-Terphenyl-d14	*102*			*37.0-146*		*02/25/2019 04:12*	WG1241544

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	U		1.90	5.00	1	02/27/2019 16:06	WG1241594
Lead,Dissolved	U		1.90	5.00	1	02/27/2019 17:02	WG1241438

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	85.8	B J	31.6	100	1	02/26/2019 15:46	WG1241795
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*02/26/2019 15:46*	WG1241795

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.331	1.00	1	02/23/2019 23:47	WG1241407
Toluene	U		0.412	1.00	1	02/23/2019 23:47	WG1241407
Ethylbenzene	U		0.384	1.00	1	02/23/2019 23:47	WG1241407
Total Xylenes	U		1.06	3.00	1	02/23/2019 23:47	WG1241407
Methyl tert-butyl ether	U		0.367	1.00	1	02/23/2019 23:47	WG1241407
1,2-Dichloroethane	U		0.361	1.00	1	02/23/2019 23:47	WG1241407
(S) Toluene-d8	*100*			*80.0-120*		*02/23/2019 23:47*	WG1241407
(S) a,a,a-Trifluorotoluene	*90.7*			*80.0-120*		*02/23/2019 23:47*	WG1241407
(S) 4-Bromofluorobenzene	*93.5*			*77.0-126*		*02/23/2019 23:47*	WG1241407
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*02/23/2019 23:47*	WG1241407

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00240	0.0100	1	02/26/2019 19:58	WG1242036

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	199	J	66.7	200	1	02/24/2019 21:12	WG1241369
Residual Range Organics (RRO)	175	J	83.3	250	1	02/24/2019 21:12	WG1241369
(S) o-Terphenyl	*95.8*			*52.0-156*		*02/24/2019 21:12*	WG1241369

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzo(a)anthracene	U		0.00410	0.0500	1	02/25/2019 04:32	WG1241544
Benzo(a)pyrene	U		0.0116	0.0500	1	02/25/2019 04:32	WG1241544
Benzo(b)fluoranthene	U		0.00212	0.0500	1	02/25/2019 04:32	WG1241544
Benzo(k)fluoranthene	U		0.0136	0.0500	1	02/25/2019 04:32	WG1241544
Chrysene	U		0.0108	0.0500	1	02/25/2019 04:32	WG1241544
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	02/25/2019 04:32	WG1241544
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	02/25/2019 04:32	WG1241544
Naphthalene	U		0.0198	0.250	1	02/25/2019 04:32	WG1241544
1-Methylnaphthalene	0.00849	J	0.00821	0.250	1	02/25/2019 04:32	WG1241544
2-Methylnaphthalene	0.0174	J	0.00902	0.250	1	02/25/2019 04:32	WG1241544
(S) Nitrobenzene-d5	*119*			*31.0-160*		*02/25/2019 04:32*	WG1241544
(S) 2-Fluorobiphenyl	*102*			*48.0-148*		*02/25/2019 04:32*	WG1241544
(S) p-Terphenyl-d14	*119*			*37.0-146*		*02/25/2019 04:32*	WG1241544

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		1.90	5.00	1	02/27/2019 14:46	WG1241594
Lead,Dissolved	U		1.90	5.00	1	02/27/2019 17:05	WG1241438

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	36.7	B J	31.6	100	1	03/01/2019 04:44	WG1243694
(S) a,a,a-Trifluorotoluene(FID)	*94.9*			*78.0-120*		*03/01/2019 04:44*	WG1243694

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/24/2019 00:09	WG1241407
Toluene	U		0.412	1.00	1	02/24/2019 00:09	WG1241407
Ethylbenzene	U		0.384	1.00	1	02/24/2019 00:09	WG1241407
Total Xylenes	U		1.06	3.00	1	02/24/2019 00:09	WG1241407
Methyl tert-butyl ether	U		0.367	1.00	1	02/24/2019 00:09	WG1241407
1,2-Dichloroethane	U		0.361	1.00	1	02/24/2019 00:09	WG1241407
(S) Toluene-d8	*98.7*			*80.0-120*		*02/24/2019 00:09*	WG1241407
(S) a,a,a-Trifluorotoluene	*92.8*			*80.0-120*		*02/24/2019 00:09*	WG1241407
(S) 4-Bromofluorobenzene	*89.4*			*77.0-126*		*02/24/2019 00:09*	WG1241407
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*02/24/2019 00:09*	WG1241407

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00240	0.0100	1	02/26/2019 21:36	WG1242036

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	116	J	66.7	200	1	02/24/2019 21:33	WG1241369
Residual Range Organics (RRO)	120	J	83.3	250	1	02/24/2019 21:33	WG1241369
(S) o-Terphenyl	*100*			*52.0-156*		*02/24/2019 21:33*	WG1241369

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U		0.00410	0.0500	1	02/25/2019 04:53	WG1241544
Benzo(a)pyrene	U		0.0116	0.0500	1	02/25/2019 04:53	WG1241544
Benzo(b)fluoranthene	U		0.00212	0.0500	1	02/25/2019 04:53	WG1241544
Benzo(k)fluoranthene	U		0.0136	0.0500	1	02/25/2019 04:53	WG1241544
Chrysene	U		0.0108	0.0500	1	02/25/2019 04:53	WG1241544
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	02/25/2019 04:53	WG1241544
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	02/25/2019 04:53	WG1241544
Naphthalene	U		0.0198	0.250	1	02/25/2019 04:53	WG1241544
1-Methylnaphthalene	U		0.00821	0.250	1	02/25/2019 04:53	WG1241544
2-Methylnaphthalene	0.0150	J	0.00902	0.250	1	02/25/2019 04:53	WG1241544
(S) Nitrobenzene-d5	*108*			*31.0-160*		*02/25/2019 04:53*	WG1241544
(S) 2-Fluorobiphenyl	*92.5*			*48.0-148*		*02/25/2019 04:53*	WG1241544
(S) p-Terphenyl-d14	*110*			*37.0-146*		*02/25/2019 04:53*	WG1241544

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		1.90	5.00	1	02/27/2019 14:49	WG1241594
Lead,Dissolved	U		1.90	5.00	1	02/27/2019 17:08	WG1241438

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	132	B	31.6	100	1	02/26/2019 16:33	WG1241795
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*		*02/26/2019 16:33*	WG1241795

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/24/2019 00:30	WG1241407
Toluene	U		0.412	1.00	1	02/24/2019 00:30	WG1241407
Ethylbenzene	U		0.384	1.00	1	02/24/2019 00:30	WG1241407
Total Xylenes	U		1.06	3.00	1	02/24/2019 00:30	WG1241407
Methyl tert-butyl ether	1.04		0.367	1.00	1	02/24/2019 00:30	WG1241407
1,2-Dichloroethane	U		0.361	1.00	1	02/24/2019 00:30	WG1241407
(S) Toluene-d8	*104*			*80.0-120*		*02/24/2019 00:30*	WG1241407
(S) a,a,a-Trifluorotoluene	*95.2*			*80.0-120*		*02/24/2019 00:30*	WG1241407
(S) 4-Bromofluorobenzene	*91.9*			*77.0-126*		*02/24/2019 00:30*	WG1241407
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*02/24/2019 00:30*	WG1241407

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00240	0.0100	1	02/26/2019 21:49	WG1242036

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	354		66.7	200	1	02/28/2019 16:35	WG1241369
Residual Range Organics (RRO)	466		83.3	250	1	02/28/2019 16:35	WG1241369
(S) o-Terphenyl	*211*	J1		*52.0-156*		*02/28/2019 16:35*	WG1241369

Sample Narrative:

L1072951-04 WG1241369: Duplicate analysis was performed.

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U		0.00410	0.0500	1	02/25/2019 05:14	WG1241544
Benzo(a)pyrene	U		0.0116	0.0500	1	02/25/2019 05:14	WG1241544
Benzo(b)fluoranthene	U		0.00212	0.0500	1	02/25/2019 05:14	WG1241544
Benzo(k)fluoranthene	U		0.0136	0.0500	1	02/25/2019 05:14	WG1241544
Chrysene	U		0.0108	0.0500	1	02/25/2019 05:14	WG1241544
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	02/25/2019 05:14	WG1241544
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	02/25/2019 05:14	WG1241544
Naphthalene	U		0.0198	0.250	1	02/25/2019 05:14	WG1241544
1-Methylnaphthalene	0.00930	J	0.00821	0.250	1	02/25/2019 05:14	WG1241544
2-Methylnaphthalene	U		0.00902	0.250	1	02/25/2019 05:14	WG1241544
(S) Nitrobenzene-d5	*103*			*31.0-160*		*02/25/2019 05:14*	WG1241544

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
(S) 2-Fluorobiphenyl	*103*			*48.0-148*		*02/25/2019 05:14*	WG1241544
(S) p-Terphenyl-d14	*117*			*37.0-146*		*02/25/2019 05:14*	WG1241544

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		1.90	5.00	1	02/27/2019 14:51	WG1241594
Lead,Dissolved	U		1.90	5.00	1	02/27/2019 17:10	WG1241438

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	3370		31.6	100	1	02/26/2019 05:42	WG1241924
(S) a,a,a-Trifluorotoluene(FID)	*97.3*			*78.0-120*		*02/26/2019 05:42*	WG1241924

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	4.91		0.331	1.00	1	02/24/2019 00:51	WG1241407
Toluene	U		0.412	1.00	1	02/24/2019 00:51	WG1241407
Ethylbenzene	2.81		0.384	1.00	1	02/24/2019 00:51	WG1241407
Total Xylenes	2.54	J	1.06	3.00	1	02/24/2019 00:51	WG1241407
Methyl tert-butyl ether	U		0.367	1.00	1	02/24/2019 00:51	WG1241407
1,2-Dichloroethane	U		0.361	1.00	1	02/24/2019 00:51	WG1241407
(S) Toluene-d8	*111*			*80.0-120*		*02/24/2019 00:51*	WG1241407
(S) a,a,a-Trifluorotoluene	*85.2*			*80.0-120*		*02/24/2019 00:51*	WG1241407
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*02/24/2019 00:51*	WG1241407
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*02/24/2019 00:51*	WG1241407

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00240	0.0100	1	02/26/2019 22:01	WG1242036

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	486		66.7	200	1	02/28/2019 16:54	WG1241369
Residual Range Organics (RRO)	206	J	83.3	250	1	02/28/2019 16:54	WG1241369
(S) o-Terphenyl	*106*			*52.0-156*		*02/28/2019 16:54*	WG1241369

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U		0.00410	0.0500	1	02/25/2019 05:34	WG1241544
Benzo(a)pyrene	U		0.0116	0.0500	1	02/25/2019 05:34	WG1241544
Benzo(b)fluoranthene	U		0.00212	0.0500	1	02/25/2019 05:34	WG1241544
Benzo(k)fluoranthene	U		0.0136	0.0500	1	02/25/2019 05:34	WG1241544
Chrysene	U		0.0108	0.0500	1	02/25/2019 05:34	WG1241544
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	02/25/2019 05:34	WG1241544
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	02/25/2019 05:34	WG1241544
Naphthalene	4.81		0.0198	0.250	1	02/25/2019 05:34	WG1241544
1-Methylnaphthalene	0.897		0.00821	0.250	1	02/25/2019 05:34	WG1241544
2-Methylnaphthalene	0.782		0.00902	0.250	1	02/25/2019 05:34	WG1241544
(S) Nitrobenzene-d5	*106*			*31.0-160*		*02/25/2019 05:34*	WG1241544
(S) 2-Fluorobiphenyl	*101*			*48.0-148*		*02/25/2019 05:34*	WG1241544
(S) p-Terphenyl-d14	*119*			*37.0-146*		*02/25/2019 05:34*	WG1241544

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	02/26/2019 06:05	WG1241924
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*02/26/2019 06:05*	WG1241924

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.331	1.00	1	02/24/2019 01:13	WG1241407
Toluene	U		0.412	1.00	1	02/24/2019 01:13	WG1241407
Ethylbenzene	U		0.384	1.00	1	02/24/2019 01:13	WG1241407
Total Xylenes	U		1.06	3.00	1	02/24/2019 01:13	WG1241407
Methyl tert-butyl ether	U		0.367	1.00	1	02/24/2019 01:13	WG1241407
1,2-Dichloroethane	U		0.361	1.00	1	02/24/2019 01:13	WG1241407
(S) Toluene-d8	*101*			*80.0-120*		*02/24/2019 01:13*	WG1241407
(S) a,a,a-Trifluorotoluene	*94.9*			*80.0-120*		*02/24/2019 01:13*	WG1241407
(S) 4-Bromofluorobenzene	*91.0*			*77.0-126*		*02/24/2019 01:13*	WG1241407
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*02/24/2019 01:13*	WG1241407

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		1.90	5.00	1	02/27/2019 14:54	WG1241594
Lead,Dissolved	U		1.90	5.00	1	02/27/2019 15:00	WG1241438

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	02/26/2019 06:26	WG1241924
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*02/26/2019 06:26*	WG1241924

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/24/2019 01:34	WG1241407
Toluene	U		0.412	1.00	1	02/24/2019 01:34	WG1241407
Ethylbenzene	U		0.384	1.00	1	02/24/2019 01:34	WG1241407
Total Xylenes	U		1.06	3.00	1	02/24/2019 01:34	WG1241407
Methyl tert-butyl ether	U		0.367	1.00	1	02/24/2019 01:34	WG1241407
1,2-Dichloroethane	U		0.361	1.00	1	02/24/2019 01:34	WG1241407
(S) Toluene-d8	*103*			*80.0-120*		*02/24/2019 01:34*	WG1241407
(S) a,a,a-Trifluorotoluene	*91.3*			*80.0-120*		*02/24/2019 01:34*	WG1241407
(S) 4-Bromofluorobenzene	*94.9*			*77.0-126*		*02/24/2019 01:34*	WG1241407
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*02/24/2019 01:34*	WG1241407

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00240	0.0100	1	02/26/2019 22:37	WG1242036

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	369		66.7	200	1	02/28/2019 17:13	WG1241369
Residual Range Organics (RRO)	322		83.3	250	1	02/28/2019 17:13	WG1241369
(S) o-Terphenyl	*105*			*52.0-156*		*02/28/2019 17:13*	WG1241369

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U		0.00410	0.0500	1	02/25/2019 05:55	WG1241544
Benzo(a)pyrene	U		0.0116	0.0500	1	02/25/2019 05:55	WG1241544
Benzo(b)fluoranthene	U		0.00212	0.0500	1	02/25/2019 05:55	WG1241544
Benzo(k)fluoranthene	U		0.0136	0.0500	1	02/25/2019 05:55	WG1241544
Chrysene	U		0.0108	0.0500	1	02/25/2019 05:55	WG1241544
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	02/25/2019 05:55	WG1241544
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	02/25/2019 05:55	WG1241544
Naphthalene	U		0.0198	0.250	1	02/25/2019 05:55	WG1241544
1-Methylnaphthalene	0.0129	J	0.00821	0.250	1	02/25/2019 05:55	WG1241544
2-Methylnaphthalene	0.0207	J	0.00902	0.250	1	02/25/2019 05:55	WG1241544
(S) Nitrobenzene-d5	*112*			*31.0-160*		*02/25/2019 05:55*	WG1241544
(S) 2-Fluorobiphenyl	*102*			*48.0-148*		*02/25/2019 05:55*	WG1241544
(S) p-Terphenyl-d14	*117*			*37.0-146*		*02/25/2019 05:55*	WG1241544

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	U		1.90	5.00	1	02/27/2019 14:57	WG1241594
Lead,Dissolved	U		1.90	5.00	1	02/27/2019 15:02	WG1241438

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	02/26/2019 06:49	WG1241924
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*02/26/2019 06:49*	WG1241924

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.331	1.00	1	02/24/2019 01:55	WG1241407
Toluene	U		0.412	1.00	1	02/24/2019 01:55	WG1241407
Ethylbenzene	U		0.384	1.00	1	02/24/2019 01:55	WG1241407
Total Xylenes	U		1.06	3.00	1	02/24/2019 01:55	WG1241407
Methyl tert-butyl ether	U		0.367	1.00	1	02/24/2019 01:55	WG1241407
1,2-Dichloroethane	U		0.361	1.00	1	02/24/2019 01:55	WG1241407
(S) Toluene-d8	*102*			*80.0-120*		*02/24/2019 01:55*	WG1241407
(S) a,a,a-Trifluorotoluene	*94.0*			*80.0-120*		*02/24/2019 01:55*	WG1241407
(S) 4-Bromofluorobenzene	*93.6*			*77.0-126*		*02/24/2019 01:55*	WG1241407
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*02/24/2019 01:55*	WG1241407

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00240	0.0100	1	02/26/2019 22:50	WG1242036

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	76.5	J	66.7	200	1	02/24/2019 22:53	WG1241369
Residual Range Organics (RRO)	214	J	83.3	250	1	02/24/2019 22:53	WG1241369
(S) o-Terphenyl	*90.5*			*52.0-156*		*02/24/2019 22:53*	WG1241369

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzo(a)anthracene	U		0.00410	0.0500	1	02/25/2019 09:11	WG1241544
Benzo(a)pyrene	U		0.0116	0.0500	1	02/25/2019 09:11	WG1241544
Benzo(b)fluoranthene	U		0.00212	0.0500	1	02/25/2019 09:11	WG1241544
Benzo(k)fluoranthene	U		0.0136	0.0500	1	02/25/2019 09:11	WG1241544
Chrysene	U		0.0108	0.0500	1	02/25/2019 09:11	WG1241544
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	02/25/2019 09:11	WG1241544
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	02/25/2019 09:11	WG1241544
Naphthalene	0.221	J	0.0198	0.250	1	02/25/2019 09:11	WG1241544
1-Methylnaphthalene	0.00929	J	0.00821	0.250	1	02/25/2019 09:11	WG1241544
2-Methylnaphthalene	0.0137	J	0.00902	0.250	1	02/25/2019 09:11	WG1241544
(S) Nitrobenzene-d5	*124*			*31.0-160*		*02/25/2019 09:11*	WG1241544
(S) 2-Fluorobiphenyl	*103*			*48.0-148*		*02/25/2019 09:11*	WG1241544
(S) p-Terphenyl-d14	*116*			*37.0-146*		*02/25/2019 09:11*	WG1241544

Method Blank (MB)

(MB) R3387452-1 02/27/19 16:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Lead,Dissolved	U		1.90	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3387452-2 02/27/19 16:17 • (LCSD) R3387452-3 02/27/19 16:20

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Lead,Dissolved	1000	1000	980	100	98.0	80.0-120			2.28	20

L1072690-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1072690-01 02/27/19 16:22 • (MS) R3387452-5 02/27/19 16:28 • (MSD) R3387452-6 02/27/19 16:30

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Lead,Dissolved	1000	ND	1000	990	100	99.0	1	75.0-125			1.21	20

Method Blank (MB)

(MB) R3387451-1 02/27/19 15:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Lead	U		1.90	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3387451-2 02/27/19 15:13 • (LCSD) R3387451-3 02/27/19 15:15

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Lead	1000	995	975	99.5	97.5	80.0-120			1.99	20

L1072690-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1072690-01 02/27/19 15:18 • (MS) R3387451-5 02/27/19 15:24 • (MSD) R3387451-6 02/27/19 15:26

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Lead	1000	ND	992	1010	99.2	101	1	75.0-125			2.12	20

Method Blank (MB)

(MB) R3387744-2 02/25/19 22:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	87.8	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*110*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3387744-1 02/25/19 20:29

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	4820	87.6	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*82.7*	*78.0-120*	

Method Blank (MB)

(MB) R3386846-3 02/26/19 00:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3386846-1 02/25/19 23:11 • (LCSD) R3386846-2 02/25/19 23:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5770	5560	105	101	70.0-124			3.54	20
(S) a,a,a-Trifluorotoluene(FID)				*105*	*105*	*78.0-120*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3387988-5 03/01/19 01:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	34.1	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*97.2*			*78.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3387988-3 03/01/19 00:08 • (LCSD) R3387988-4 03/01/19 00:29

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5980	5230	109	95.1	70.0-124			13.4	20
(S) a,a,a-Trifluorotoluene(FID)				*116*	*113*	*78.0-120*				

Method Blank (MB)

(MB) R3386905-2 02/23/19 20:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*98.5*			*80.0-120*
(S) a,a,a-Trifluorotoluene	*92.4*			*80.0-120*
(S) 4-Bromofluorobenzene	*91.6*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3386905-1 02/23/19 19:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	25.0	23.0	92.1	70.0-123	
1,2-Dichloroethane	25.0	21.9	87.7	70.0-128	
Ethylbenzene	25.0	21.5	86.0	79.0-123	
Methyl tert-butyl ether	25.0	22.6	90.5	68.0-125	
Toluene	25.0	21.3	85.1	79.0-120	
Xylenes, Total	75.0	66.1	88.1	79.0-123	
(S) Toluene-d8			*97.1*	*80.0-120*	
(S) a,a,a-Trifluorotoluene			*95.3*	*80.0-120*	
(S) 4-Bromofluorobenzene			*95.2*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*111*	*70.0-130*	

Method Blank (MB)

(MB) R3387255-1 02/26/19 19:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylene Dibromide	U		0.00240	0.0100

L1072951-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1072951-01 02/26/19 20:23 • (DUP) R3387255-3 02/26/19 20:10

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ethylene Dibromide	U	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3387255-4 02/26/19 22:25 • (LCSD) R3387255-5 02/27/19 00:52

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylene Dibromide	0.250	0.215	0.217	86.0	86.8	60.0-140			0.926	20

L1072951-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1072951-02 02/26/19 19:58 • (MS) R3387255-2 02/26/19 19:45

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ethylene Dibromide	0.100	U	0.105	105	1	64.0-159	

Method Blank (MB)

(MB) R3386577-1 02/24/19 18:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
(S) o-Terphenyl	*91.5*			*52.0-156*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3386577-2 02/24/19 18:51 • (LCSD) R3386577-3 02/24/19 19:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	750	892	881	119	117	50.0-150			1.24	20
Residual Range Organics (RRO)	750	698	680	93.1	90.7	50.0-150			2.61	20
(S) o-Terphenyl				*93.5*	*90.5*	*52.0-156*				

Method Blank (MB)

(MB) R3386531-3 02/24/19 23:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzo(a)anthracene	U		0.00410	0.0500
Benzo(a)pyrene	U		0.0116	0.0500
Benzo(b)fluoranthene	U		0.00212	0.0500
Benzo(k)fluoranthene	U		0.0136	0.0500
Chrysene	U		0.0108	0.0500
Dibenz(a,h)anthracene	U		0.00396	0.0500
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500
Naphthalene	U		0.0198	0.250
1-Methylnaphthalene	U		0.00821	0.250
2-Methylnaphthalene	U		0.00902	0.250
(S) Nitrobenzene-d5	*107*			*31.0-160*
(S) 2-Fluorobiphenyl	*96.5*			*48.0-148*
(S) p-Terphenyl-d14	*119*			*37.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3386531-1 02/24/19 22:40 • (LCSD) R3386531-2 02/24/19 23:00

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzo(a)anthracene	2.00	2.30	2.37	115	118	61.0-140			3.00	20
Benzo(a)pyrene	2.00	2.47	2.53	123	126	60.0-143			2.40	20
Benzo(b)fluoranthene	2.00	2.30	2.49	115	124	58.0-141			7.93	20
Benzo(k)fluoranthene	2.00	2.54	2.43	127	122	58.0-148			4.43	20
Chrysene	2.00	2.34	2.43	117	122	64.0-144			3.77	20
Dibenz(a,h)anthracene	2.00	2.41	2.42	120	121	52.0-155			0.414	20
Indeno(1,2,3-cd)pyrene	2.00	2.37	2.41	118	120	54.0-153			1.67	20
Naphthalene	2.00	2.39	2.48	119	124	61.0-137			3.70	20
1-Methylnaphthalene	2.00	2.45	2.55	122	128	66.0-142			4.00	20
2-Methylnaphthalene	2.00	2.29	2.40	114	120	62.0-136			4.69	20
(S) Nitrobenzene-d5				*112*	*116*	*31.0-160*				
(S) 2-Fluorobiphenyl				*99.0*	*99.0*	*48.0-148*				
(S) p-Terphenyl-d14				*114*	*119*	*37.0-146*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

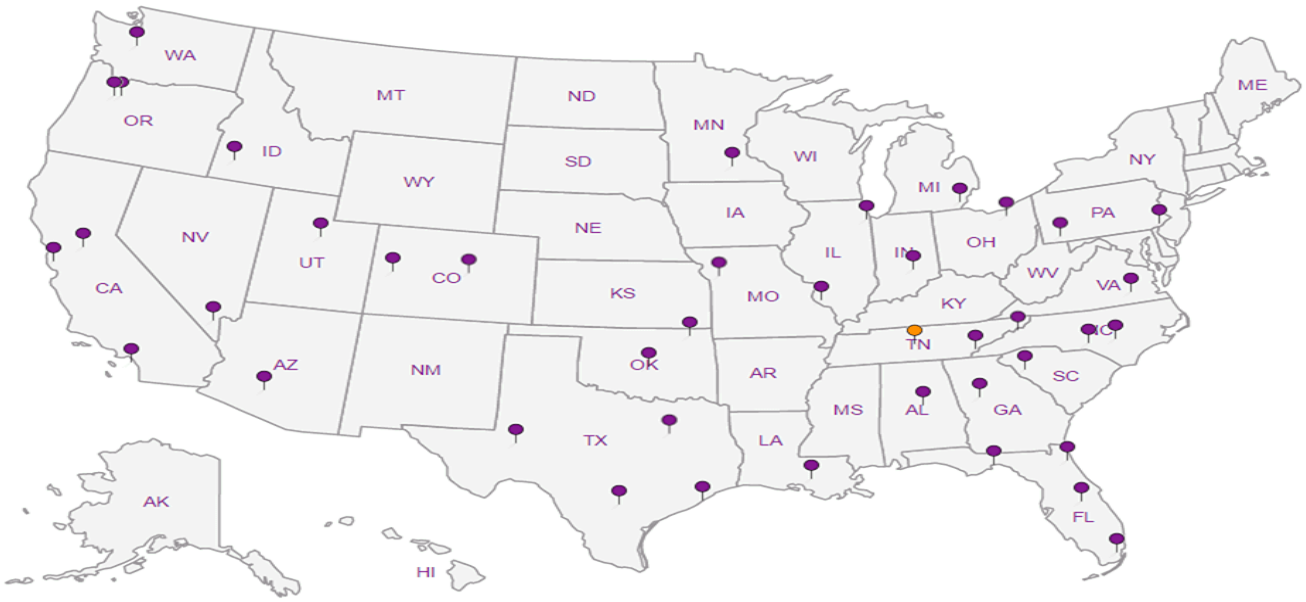
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

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A137

Acctnum: ARCABPWA
Template: T146337
Prelogin: P694427
TSR: 110 - Brian Ford
PB:
Shipped Via:

ARCADIS US - Seattle, WA

1100 Olive Way
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Seattle, WA 98101

Billing Information:
Attn: Accounts Payable
630 Plaza Dr., Ste. 600
Highlands Ranch, CO 80129

Email To: Ross.LaGrandeur@arcadis.com; Ryan.Brauchla@arcadis.com; ...

Pres Chk

Report to: Ross LaGrandeur

Project Description: WA-11060

City/State Collected: Seattle, WA

Phone: 509-438-9828
Fax:

Client Project #: GP09BPNA.WA48

Lab Project #: ARCABPWA-WA11060

Collected by (print): Alex Pink

Site/Facility ID #: 4580 FAUNTLEROY WAY SW,

P.O. #: GP09BPNA.WA48

Collected by (signature): Alex Pink

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N ___ Y ✓

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEXM,EDC 8260C 40mlAmb-HCl	Diss Pb 6010 250mlHDPE-NoPres	EDB (SV8011) 40mlClr-NaThio	NWTPHDX LVINOSGT 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	PAHs (PAHSIMLVID) 40mlAmb-NoPres-WT	Total Pb 6010 250mlHDPE-HNO3	Remarks	Sample # (lab only)
GMW-1	G	GW	—	2/20/19	1640	15	X	X	X	X	X	X	X		-01
MW-2	G	GW	—	|	1530	15	X	X	X	X	X	X	X		-02
MW-9	G	GW	—	|	1410	15	X	X	X	X	X	X	X		-03
MW-11	G	GW	—	|	1305	15	X	X	X	X	X	X	X		-04
MW-12	G	GW	—	|	1730	15	X	X	X	X	X	X	X		-05
DUP-1	G	GW	—	|	—	6	X				X				-06
MW-1	G	GW	—	2/22/19	1015	15	X	X	X	X	X	X	X		-07
MW-6	G	GW	—	2/22/19	1145	15	X	X	X	X	X	X	X		-08
		GW													

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other ________

Remarks: questions or concerns call: Alex Pink 406-440-8344

pH ______ Temp ______
Flow ______ Other ______

Samples returned via:
__ UPS __ FedEx __ Courier ______

Tracking # 4686 6475 3604

Trip Blank Received: (Yes) / No
(HCL) / MeOH
TBR 3

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: ✓Y N
Bottles arrive intact: ✓Y N
Correct bottles used: ✓Y N
Sufficient volume sent: ✓Y N
If Applicable
VOA Zero Headspace: ✓Y N
Preservation Correct/Checked: ✓Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received / Temp / Bottles Received	If preservation required by Login: Date/Time
Alex Pink	2/22/19	1353	Michele Yard		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C 1.9+0.1 AV; Bottles Received: 111	Hold:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 2/23/19 Time: 8:35	Condition: NCF / (OK)

RAD SCREEN: <0.5 mR/hr

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

May 24, 2019

ARCADIS US - Seattle, WA

Sample Delivery Group:	L1099701
Samples Received:	05/16/2019
Project Number:	GP18BPWC.WA48
Description:	WA-11060
Site:	4580 FAUNTLEROY WAY SW, SEATTL
Report To:	Ross LaGrandeur 1100 Olive Way Suite 800 Seattle, WA 98101

Entire Report Reviewed By:

Brian Ford

Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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MW-9 L1099701-01 GW

Collected by: Kiley Zaubi | Collected date/time: 05/13/19 13:45 | Received date/time: 05/16/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1283222	1	05/22/19 08:34	05/22/19 17:29	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1283012	1	05/17/19 20:51	05/17/19 20:51	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1283381	1	05/19/19 07:00	05/19/19 07:00	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1283480	1	05/19/19 07:56	05/20/19 18:49	KLM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1282651	1	05/17/19 19:40	05/20/19 03:11	TH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1282661	1	05/19/19 16:13	05/20/19 14:01	LEA	Mt. Juliet, TN

MW-11 L1099701-02 GW

Collected by: Kiley Zaubi | Collected date/time: 05/13/19 15:15 | Received date/time: 05/16/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1283222	1	05/22/19 08:34	05/22/19 18:01	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1283012	1	05/17/19 21:14	05/17/19 21:14	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1283381	1	05/19/19 07:20	05/19/19 07:20	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1283480	1	05/19/19 07:56	05/20/19 19:00	KLM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1282651	1	05/17/19 19:40	05/20/19 03:33	TH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1282661	1	05/19/19 16:13	05/20/19 02:10	AAT	Mt. Juliet, TN

MW-12 L1099701-03 GW

Collected by: Kiley Zaubi | Collected date/time: 05/13/19 16:20 | Received date/time: 05/16/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1283222	1	05/22/19 08:34	05/22/19 18:03	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1283012	1	05/17/19 21:36	05/17/19 21:36	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1283381	1	05/19/19 07:40	05/19/19 07:40	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1283480	1	05/19/19 07:56	05/20/19 19:11	KLM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1282651	1	05/17/19 19:40	05/20/19 03:55	TH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1282661	1	05/19/19 16:13	05/20/19 02:32	AAT	Mt. Juliet, TN

MW-2 L1099701-04 GW

Collected by: Kiley Zaubi | Collected date/time: 05/14/19 12:15 | Received date/time: 05/16/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1283222	1	05/22/19 08:34	05/22/19 18:06	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1283012	1	05/17/19 22:28	05/17/19 22:28	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1283381	1	05/19/19 08:00	05/19/19 08:00	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1283480	1	05/19/19 07:56	05/20/19 19:23	KLM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1282651	1	05/17/19 19:40	05/20/19 04:17	TH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1282661	1	05/19/19 16:13	05/20/19 02:54	AAT	Mt. Juliet, TN

MW-3 L1099701-05 GW

Collected by: Kiley Zaubi | Collected date/time: 05/14/19 13:40 | Received date/time: 05/16/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1283222	1	05/22/19 08:34	05/22/19 18:08	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1283012	1	05/17/19 22:51	05/17/19 22:51	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1283381	1	05/19/19 08:20	05/19/19 08:20	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1283480	1	05/19/19 07:56	05/20/19 19:58	KLM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1282651	1	05/17/19 19:40	05/20/19 04:39	TH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1282661	1	05/19/19 16:13	05/20/19 03:16	AAT	Mt. Juliet, TN

MW-5 L1099701-06 GW

Collected by: Kiley Zaubi | Collected date/time: 05/14/19 16:20 | Received date/time: 05/16/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1284332	1	05/22/19 11:54	05/22/19 11:54	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1284324	1	05/21/19 17:35	05/21/19 17:35	DWR	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1283480	1	05/19/19 07:56	05/20/19 20:11	KLM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1282653	1	05/19/19 22:46	05/21/19 00:46	SHG	Mt. Juliet, TN

MW-1 L1099701-07 GW

Collected by: Kiley Zaubi | Collected date/time: 05/14/19 17:20 | Received date/time: 05/16/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1283222	1	05/22/19 08:34	05/22/19 18:11	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1284332	1	05/22/19 12:16	05/22/19 12:16	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1283381	1	05/19/19 08:40	05/19/19 08:40	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1283480	1	05/19/19 07:56	05/20/19 20:23	KLM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1282651	1	05/17/19 19:40	05/20/19 05:01	TH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1282661	2	05/19/19 16:13	05/20/19 03:38	AAT	Mt. Juliet, TN

DUP-1 L1099701-08 GW

Collected by: Kiley Zaubi | Collected date/time: 05/14/19 00:00 | Received date/time: 05/16/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1283222	1	05/22/19 08:34	05/22/19 18:14	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1284332	1	05/22/19 12:39	05/22/19 12:39	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1283381	1	05/19/19 09:00	05/19/19 09:00	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1283480	1	05/19/19 07:56	05/20/19 20:35	KLM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1282651	1	05/17/19 19:40	05/20/19 05:23	TH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1282661	1	05/19/19 16:13	05/20/19 04:00	AAT	Mt. Juliet, TN

TRIP BLANK L1099701-10 GW

Collected by: Kiley Zaubi | Collected date/time: 05/14/19 00:00 | Received date/time: 05/16/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1283835	1	05/21/19 12:54	05/21/19 12:54	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1283381	1	05/19/19 06:40	05/19/19 06:40	JHH	Mt. Juliet, TN

GMW-1 L1099701-11 GW

Collected by: Kiley Zaubi | Collected date/time: 05/13/19 00:00 | Received date/time: 05/16/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1283222	1	05/22/19 08:34	05/22/19 18:16	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1283835	1	05/21/19 16:50	05/21/19 16:50	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1284324	1	05/21/19 17:54	05/21/19 17:54	DWR	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1283480	1	05/19/19 07:56	05/20/19 20:47	KLM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1282653	1	05/19/19 22:46	05/21/19 01:06	SHG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1282661	1	05/19/19 16:13	05/20/19 04:21	AAT	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Project Manager

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		1.90	5.00	1	05/22/2019 17:29	WG1283222

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/17/2019 20:51	WG1283012
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*05/17/2019 20:51*	WG1283012

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	05/19/2019 07:00	WG1283381
Toluene	U		0.412	1.00	1	05/19/2019 07:00	WG1283381
Ethylbenzene	U		0.384	1.00	1	05/19/2019 07:00	WG1283381
Total Xylenes	U		1.06	3.00	1	05/19/2019 07:00	WG1283381
Methyl tert-butyl ether	U		0.367	1.00	1	05/19/2019 07:00	WG1283381
1,2-Dichloroethane	U		0.361	1.00	1	05/19/2019 07:00	WG1283381
(S) Toluene-d8	*95.6*			*80.0-120*		*05/19/2019 07:00*	WG1283381
(S) a,a,a-Trifluorotoluene	*102*			*80.0-120*		*05/19/2019 07:00*	WG1283381
(S) 4-Bromofluorobenzene	*98.7*			*77.0-126*		*05/19/2019 07:00*	WG1283381
(S) 1,2-Dichloroethane-d4	*91.7*			*70.0-130*		*05/19/2019 07:00*	WG1283381

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00240	0.0100	1	05/20/2019 18:49	WG1283480

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	220		66.7	200	1	05/20/2019 03:11	WG1282651
Residual Range Organics (RRO)	107	J	83.3	250	1	05/20/2019 03:11	WG1282651
(S) o-Terphenyl	*98.9*			*52.0-156*		*05/20/2019 03:11*	WG1282651

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U		0.00410	0.0500	1	05/20/2019 14:01	WG1282661
Benzo(a)pyrene	U		0.0116	0.0500	1	05/20/2019 14:01	WG1282661
Benzo(b)fluoranthene	U		0.00212	0.0500	1	05/20/2019 14:01	WG1282661
Benzo(k)fluoranthene	U		0.0136	0.0500	1	05/20/2019 14:01	WG1282661
Chrysene	U		0.0108	0.0500	1	05/20/2019 14:01	WG1282661
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	05/20/2019 14:01	WG1282661
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	05/20/2019 14:01	WG1282661
Naphthalene	U		0.0198	0.250	1	05/20/2019 14:01	WG1282661
1-Methylnaphthalene	0.0162	J	0.00821	0.250	1	05/20/2019 14:01	WG1282661
2-Methylnaphthalene	0.0140	J	0.00902	0.250	1	05/20/2019 14:01	WG1282661
(S) Nitrobenzene-d5	*116*			*31.0-160*		*05/20/2019 14:01*	WG1282661
(S) 2-Fluorobiphenyl	*94.5*			*48.0-148*		*05/20/2019 14:01*	WG1282661
(S) p-Terphenyl-d14	*107*			*37.0-146*		*05/20/2019 14:01*	WG1282661

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		1.90	5.00	1	05/22/2019 18:01	WG1283222

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	40.1	J	31.6	100	1	05/17/2019 21:14	WG1283012
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*05/17/2019 21:14*	WG1283012

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	05/19/2019 07:20	WG1283381
Toluene	U		0.412	1.00	1	05/19/2019 07:20	WG1283381
Ethylbenzene	U		0.384	1.00	1	05/19/2019 07:20	WG1283381
Total Xylenes	U		1.06	3.00	1	05/19/2019 07:20	WG1283381
Methyl tert-butyl ether	0.674	J	0.367	1.00	1	05/19/2019 07:20	WG1283381
1,2-Dichloroethane	U		0.361	1.00	1	05/19/2019 07:20	WG1283381
(S) Toluene-d8	*90.7*			*80.0-120*		*05/19/2019 07:20*	WG1283381
(S) a,a,a-Trifluorotoluene	*99.6*			*80.0-120*		*05/19/2019 07:20*	WG1283381
(S) 4-Bromofluorobenzene	*97.2*			*77.0-126*		*05/19/2019 07:20*	WG1283381
(S) 1,2-Dichloroethane-d4	*91.6*			*70.0-130*		*05/19/2019 07:20*	WG1283381

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00240	0.0100	1	05/20/2019 19:00	WG1283480

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	423		66.7	200	1	05/20/2019 03:33	WG1282651
Residual Range Organics (RRO)	308		83.3	250	1	05/20/2019 03:33	WG1282651
(S) o-Terphenyl	*96.8*			*52.0-156*		*05/20/2019 03:33*	WG1282651

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	0.00965	J	0.00410	0.0500	1	05/20/2019 02:10	WG1282661
Benzo(a)pyrene	U		0.0116	0.0500	1	05/20/2019 02:10	WG1282661
Benzo(b)fluoranthene	U		0.00212	0.0500	1	05/20/2019 02:10	WG1282661
Benzo(k)fluoranthene	U		0.0136	0.0500	1	05/20/2019 02:10	WG1282661
Chrysene	U		0.0108	0.0500	1	05/20/2019 02:10	WG1282661
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	05/20/2019 02:10	WG1282661
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	05/20/2019 02:10	WG1282661
Naphthalene	0.165	J	0.0198	0.250	1	05/20/2019 02:10	WG1282661
1-Methylnaphthalene	0.0258	J	0.00821	0.250	1	05/20/2019 02:10	WG1282661
2-Methylnaphthalene	0.0121	J	0.00902	0.250	1	05/20/2019 02:10	WG1282661
(S) Nitrobenzene-d5	*124*			*31.0-160*		*05/20/2019 02:10*	WG1282661
(S) 2-Fluorobiphenyl	*73.0*			*48.0-148*		*05/20/2019 02:10*	WG1282661
(S) p-Terphenyl-d14	*81.0*			*37.0-146*		*05/20/2019 02:10*	WG1282661

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		1.90	5.00	1	05/22/2019 18:03	WG1283222

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	1320		31.6	100	1	05/17/2019 21:36	WG1283012
(S) a,a,a-Trifluorotoluene(FID)	*97.7*			*78.0-120*		*05/17/2019 21:36*	WG1283012

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	3.79		0.331	1.00	1	05/19/2019 07:40	WG1283381
Toluene	U		0.412	1.00	1	05/19/2019 07:40	WG1283381
Ethylbenzene	0.457	J	0.384	1.00	1	05/19/2019 07:40	WG1283381
Total Xylenes	U		1.06	3.00	1	05/19/2019 07:40	WG1283381
Methyl tert-butyl ether	U		0.367	1.00	1	05/19/2019 07:40	WG1283381
1,2-Dichloroethane	U		0.361	1.00	1	05/19/2019 07:40	WG1283381
(S) Toluene-d8	*89.8*			*80.0-120*		*05/19/2019 07:40*	WG1283381
(S) a,a,a-Trifluorotoluene	*97.5*			*80.0-120*		*05/19/2019 07:40*	WG1283381
(S) 4-Bromofluorobenzene	*98.0*			*77.0-126*		*05/19/2019 07:40*	WG1283381
(S) 1,2-Dichloroethane-d4	*96.3*			*70.0-130*		*05/19/2019 07:40*	WG1283381

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00240	0.0100	1	05/20/2019 19:11	WG1283480

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	394		66.7	200	1	05/20/2019 03:55	WG1282651
Residual Range Organics (RRO)	198	J	83.3	250	1	05/20/2019 03:55	WG1282651
(S) o-Terphenyl	*102*			*52.0-156*		*05/20/2019 03:55*	WG1282651

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U		0.00410	0.0500	1	05/20/2019 02:32	WG1282661
Benzo(a)pyrene	U		0.0116	0.0500	1	05/20/2019 02:32	WG1282661
Benzo(b)fluoranthene	U		0.00212	0.0500	1	05/20/2019 02:32	WG1282661
Benzo(k)fluoranthene	U		0.0136	0.0500	1	05/20/2019 02:32	WG1282661
Chrysene	U		0.0108	0.0500	1	05/20/2019 02:32	WG1282661
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	05/20/2019 02:32	WG1282661
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	05/20/2019 02:32	WG1282661
Naphthalene	0.463		0.0198	0.250	1	05/20/2019 02:32	WG1282661
1-Methylnaphthalene	0.328		0.00821	0.250	1	05/20/2019 02:32	WG1282661
2-Methylnaphthalene	0.0239	J	0.00902	0.250	1	05/20/2019 02:32	WG1282661
(S) Nitrobenzene-d5	*136*			*31.0-160*		*05/20/2019 02:32*	WG1282661
(S) 2-Fluorobiphenyl	*77.5*			*48.0-148*		*05/20/2019 02:32*	WG1282661
(S) p-Terphenyl-d14	*85.0*			*37.0-146*		*05/20/2019 02:32*	WG1282661

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		1.90	5.00	1	05/22/2019 18:06	WG1283222

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	40.0	J	31.6	100	1	05/17/2019 22:28	WG1283012
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*05/17/2019 22:28*	WG1283012

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	1.45		0.331	1.00	1	05/19/2019 08:00	WG1283381
Toluene	U		0.412	1.00	1	05/19/2019 08:00	WG1283381
Ethylbenzene	U		0.384	1.00	1	05/19/2019 08:00	WG1283381
Total Xylenes	U		1.06	3.00	1	05/19/2019 08:00	WG1283381
Methyl tert-butyl ether	U		0.367	1.00	1	05/19/2019 08:00	WG1283381
1,2-Dichloroethane	U		0.361	1.00	1	05/19/2019 08:00	WG1283381
(S) Toluene-d8	*92.4*			*80.0-120*		*05/19/2019 08:00*	WG1283381
(S) a,a,a-Trifluorotoluene	*101*			*80.0-120*		*05/19/2019 08:00*	WG1283381
(S) 4-Bromofluorobenzene	*98.4*			*77.0-126*		*05/19/2019 08:00*	WG1283381
(S) 1,2-Dichloroethane-d4	*93.0*			*70.0-130*		*05/19/2019 08:00*	WG1283381

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00240	0.0100	1	05/20/2019 19:23	WG1283480

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	250		66.7	200	1	05/20/2019 04:17	WG1282651
Residual Range Organics (RRO)	197	J	83.3	250	1	05/20/2019 04:17	WG1282651
(S) o-Terphenyl	*99.5*			*52.0-156*		*05/20/2019 04:17*	WG1282651

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U		0.00410	0.0500	1	05/20/2019 02:54	WG1282661
Benzo(a)pyrene	U		0.0116	0.0500	1	05/20/2019 02:54	WG1282661
Benzo(b)fluoranthene	U		0.00212	0.0500	1	05/20/2019 02:54	WG1282661
Benzo(k)fluoranthene	U		0.0136	0.0500	1	05/20/2019 02:54	WG1282661
Chrysene	U		0.0108	0.0500	1	05/20/2019 02:54	WG1282661
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	05/20/2019 02:54	WG1282661
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	05/20/2019 02:54	WG1282661
Naphthalene	0.0593	J	0.0198	0.250	1	05/20/2019 02:54	WG1282661
1-Methylnaphthalene	0.0214	J	0.00821	0.250	1	05/20/2019 02:54	WG1282661
2-Methylnaphthalene	0.0228	J	0.00902	0.250	1	05/20/2019 02:54	WG1282661
(S) Nitrobenzene-d5	*123*			*31.0-160*		*05/20/2019 02:54*	WG1282661
(S) 2-Fluorobiphenyl	*78.0*			*48.0-148*		*05/20/2019 02:54*	WG1282661
(S) p-Terphenyl-d14	*82.0*			*37.0-146*		*05/20/2019 02:54*	WG1282661

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		1.90	5.00	1	05/22/2019 18:08	WG1283222

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/17/2019 22:51	WG1283012
(S) a,a,a-Trifluorotoluene(FID)	*101*			*78.0-120*		*05/17/2019 22:51*	WG1283012

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	05/19/2019 08:20	WG1283381
Toluene	U		0.412	1.00	1	05/19/2019 08:20	WG1283381
Ethylbenzene	U		0.384	1.00	1	05/19/2019 08:20	WG1283381
Total Xylenes	U		1.06	3.00	1	05/19/2019 08:20	WG1283381
Methyl tert-butyl ether	U		0.367	1.00	1	05/19/2019 08:20	WG1283381
1,2-Dichloroethane	U		0.361	1.00	1	05/19/2019 08:20	WG1283381
(S) Toluene-d8	*93.3*			*80.0-120*		*05/19/2019 08:20*	WG1283381
(S) a,a,a-Trifluorotoluene	*100*			*80.0-120*		*05/19/2019 08:20*	WG1283381
(S) 4-Bromofluorobenzene	*98.3*			*77.0-126*		*05/19/2019 08:20*	WG1283381
(S) 1,2-Dichloroethane-d4	*93.7*			*70.0-130*		*05/19/2019 08:20*	WG1283381

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00240	0.0100	1	05/20/2019 19:58	WG1283480

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	71.9	J	66.7	200	1	05/20/2019 04:39	WG1282651
Residual Range Organics (RRO)	101	J	83.3	250	1	05/20/2019 04:39	WG1282651
(S) o-Terphenyl	*91.6*			*52.0-156*		*05/20/2019 04:39*	WG1282651

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U		0.00410	0.0500	1	05/20/2019 03:16	WG1282661
Benzo(a)pyrene	U		0.0116	0.0500	1	05/20/2019 03:16	WG1282661
Benzo(b)fluoranthene	U		0.00212	0.0500	1	05/20/2019 03:16	WG1282661
Benzo(k)fluoranthene	U		0.0136	0.0500	1	05/20/2019 03:16	WG1282661
Chrysene	U		0.0108	0.0500	1	05/20/2019 03:16	WG1282661
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	05/20/2019 03:16	WG1282661
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	05/20/2019 03:16	WG1282661
Naphthalene	0.0335	J	0.0198	0.250	1	05/20/2019 03:16	WG1282661
1-Methylnaphthalene	U		0.00821	0.250	1	05/20/2019 03:16	WG1282661
2-Methylnaphthalene	U		0.00902	0.250	1	05/20/2019 03:16	WG1282661
(S) Nitrobenzene-d5	*131*			*31.0-160*		*05/20/2019 03:16*	WG1282661
(S) 2-Fluorobiphenyl	*83.0*			*48.0-148*		*05/20/2019 03:16*	WG1282661
(S) p-Terphenyl-d14	*87.5*			*37.0-146*		*05/20/2019 03:16*	WG1282661

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	54.5	J	31.6	100	1	05/22/2019 11:54	WG1284332
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*		*05/22/2019 11:54*	WG1284332

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	0.403	J	0.331	1.00	1	05/21/2019 17:35	WG1284324
Toluene	U		0.412	1.00	1	05/21/2019 17:35	WG1284324
Ethylbenzene	U		0.384	1.00	1	05/21/2019 17:35	WG1284324
Total Xylenes	5.45		1.06	3.00	1	05/21/2019 17:35	WG1284324
Methyl tert-butyl ether	U		0.367	1.00	1	05/21/2019 17:35	WG1284324
1,2-Dichloroethane	U		0.361	1.00	1	05/21/2019 17:35	WG1284324
(S) Toluene-d8	*104*			*80.0-120*		*05/21/2019 17:35*	WG1284324
(S) a,a,a-Trifluorotoluene	*119*			*80.0-120*		*05/21/2019 17:35*	WG1284324
(S) 4-Bromofluorobenzene	*91.5*			*77.0-126*		*05/21/2019 17:35*	WG1284324
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*05/21/2019 17:35*	WG1284324

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00240	0.0100	1	05/20/2019 20:11	WG1283480

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1120		66.7	200	1	05/21/2019 00:46	WG1282653
Residual Range Organics (RRO)	122	J	83.3	250	1	05/21/2019 00:46	WG1282653
(S) o-Terphenyl	*88.0*			*52.0-156*		*05/21/2019 00:46*	WG1282653

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		1.90	5.00	1	05/22/2019 18:11	WG1283222

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	40.0	J	31.6	100	1	05/22/2019 12:16	WG1284332
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*05/22/2019 12:16*	WG1284332

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	05/19/2019 08:40	WG1283381
Toluene	U		0.412	1.00	1	05/19/2019 08:40	WG1283381
Ethylbenzene	U		0.384	1.00	1	05/19/2019 08:40	WG1283381
Total Xylenes	U		1.06	3.00	1	05/19/2019 08:40	WG1283381
Methyl tert-butyl ether	U		0.367	1.00	1	05/19/2019 08:40	WG1283381
1,2-Dichloroethane	U		0.361	1.00	1	05/19/2019 08:40	WG1283381
(S) Toluene-d8	*93.7*			*80.0-120*		*05/19/2019 08:40*	WG1283381
(S) a,a,a-Trifluorotoluene	*102*			*80.0-120*		*05/19/2019 08:40*	WG1283381
(S) 4-Bromofluorobenzene	*99.4*			*77.0-126*		*05/19/2019 08:40*	WG1283381
(S) 1,2-Dichloroethane-d4	*94.4*			*70.0-130*		*05/19/2019 08:40*	WG1283381

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00240	0.0100	1	05/20/2019 20:23	WG1283480

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	271		66.7	200	1	05/20/2019 05:01	WG1282651
Residual Range Organics (RRO)	220	J	83.3	250	1	05/20/2019 05:01	WG1282651
(S) o-Terphenyl	*97.9*			*52.0-156*		*05/20/2019 05:01*	WG1282651

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U		0.00820	0.100	2	05/20/2019 03:38	WG1282661
Benzo(a)pyrene	U		0.0232	0.100	2	05/20/2019 03:38	WG1282661
Benzo(b)fluoranthene	U		0.00424	0.100	2	05/20/2019 03:38	WG1282661
Benzo(k)fluoranthene	U		0.0272	0.100	2	05/20/2019 03:38	WG1282661
Chrysene	U		0.0216	0.100	2	05/20/2019 03:38	WG1282661
Dibenz(a,h)anthracene	U		0.00792	0.100	2	05/20/2019 03:38	WG1282661
Indeno(1,2,3-cd)pyrene	U		0.0296	0.100	2	05/20/2019 03:38	WG1282661
Naphthalene	0.110	J	0.0396	0.500	2	05/20/2019 03:38	WG1282661
1-Methylnaphthalene	0.0309	J	0.0164	0.500	2	05/20/2019 03:38	WG1282661
2-Methylnaphthalene	0.0414	J	0.0180	0.500	2	05/20/2019 03:38	WG1282661
(S) Nitrobenzene-d5	*118*			*31.0-160*		*05/20/2019 03:38*	WG1282661
(S) 2-Fluorobiphenyl	*74.5*			*48.0-148*		*05/20/2019 03:38*	WG1282661
(S) p-Terphenyl-d14	*75.0*			*37.0-146*		*05/20/2019 03:38*	WG1282661

Sample Narrative:

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	

L1099701-07 WG1282661: Dilution due to matrix impact during extraction procedure

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	2.20	J	1.90	5.00	1	05/22/2019 18:14	WG1283222

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	05/22/2019 12:39	WG1284332
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*		*05/22/2019 12:39*	WG1284332

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	5.16		0.331	1.00	1	05/19/2019 09:00	WG1283381
Toluene	U		0.412	1.00	1	05/19/2019 09:00	WG1283381
Ethylbenzene	U		0.384	1.00	1	05/19/2019 09:00	WG1283381
Total Xylenes	U		1.06	3.00	1	05/19/2019 09:00	WG1283381
Methyl tert-butyl ether	U		0.367	1.00	1	05/19/2019 09:00	WG1283381
1,2-Dichloroethane	U		0.361	1.00	1	05/19/2019 09:00	WG1283381
(S) Toluene-d8	*94.5*			*80.0-120*		*05/19/2019 09:00*	WG1283381
(S) a,a,a-Trifluorotoluene	*102*			*80.0-120*		*05/19/2019 09:00*	WG1283381
(S) 4-Bromofluorobenzene	*99.0*			*77.0-126*		*05/19/2019 09:00*	WG1283381
(S) 1,2-Dichloroethane-d4	*92.1*			*70.0-130*		*05/19/2019 09:00*	WG1283381

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00240	0.0100	1	05/20/2019 20:35	WG1283480

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	284		66.7	200	1	05/20/2019 05:23	WG1282651
Residual Range Organics (RRO)	284		83.3	250	1	05/20/2019 05:23	WG1282651
(S) o-Terphenyl	*99.5*			*52.0-156*		*05/20/2019 05:23*	WG1282651

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U		0.00410	0.0500	1	05/20/2019 04:00	WG1282661
Benzo(a)pyrene	U		0.0116	0.0500	1	05/20/2019 04:00	WG1282661
Benzo(b)fluoranthene	U		0.00212	0.0500	1	05/20/2019 04:00	WG1282661
Benzo(k)fluoranthene	U		0.0136	0.0500	1	05/20/2019 04:00	WG1282661
Chrysene	U		0.0108	0.0500	1	05/20/2019 04:00	WG1282661
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	05/20/2019 04:00	WG1282661
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	05/20/2019 04:00	WG1282661
Naphthalene	0.0781	J	0.0198	0.250	1	05/20/2019 04:00	WG1282661
1-Methylnaphthalene	0.0214	J	0.00821	0.250	1	05/20/2019 04:00	WG1282661
2-Methylnaphthalene	0.0198	J	0.00902	0.250	1	05/20/2019 04:00	WG1282661
(S) Nitrobenzene-d5	*122*			*31.0-160*		*05/20/2019 04:00*	WG1282661
(S) 2-Fluorobiphenyl	*77.0*			*48.0-148*		*05/20/2019 04:00*	WG1282661
(S) p-Terphenyl-d14	*82.0*			*37.0-146*		*05/20/2019 04:00*	WG1282661

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	89.1	B J	31.6	100	1	05/21/2019 12:54	WG1283835
(S) a,a,a-Trifluorotoluene(FID)	*84.2*			*78.0-120*		*05/21/2019 12:54*	WG1283835

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.331	1.00	1	05/19/2019 06:40	WG1283381
Toluene	U		0.412	1.00	1	05/19/2019 06:40	WG1283381
Ethylbenzene	U		0.384	1.00	1	05/19/2019 06:40	WG1283381
Total Xylenes	U		1.06	3.00	1	05/19/2019 06:40	WG1283381
Methyl tert-butyl ether	U		0.367	1.00	1	05/19/2019 06:40	WG1283381
1,2-Dichloroethane	U		0.361	1.00	1	05/19/2019 06:40	WG1283381
(S) Toluene-d8	*95.8*			*80.0-120*		*05/19/2019 06:40*	WG1283381
(S) a,a,a-Trifluorotoluene	*102*			*80.0-120*		*05/19/2019 06:40*	WG1283381
(S) 4-Bromofluorobenzene	*98.9*			*77.0-126*		*05/19/2019 06:40*	WG1283381
(S) 1,2-Dichloroethane-d4	*95.1*			*70.0-130*		*05/19/2019 06:40*	WG1283381

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		1.90	5.00	1	05/22/2019 18:16	WG1283222

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	985		31.6	100	1	05/21/2019 16:50	WG1283835
(S) a,a,a-Trifluorotoluene(FID)	*82.4*			*78.0-120*		*05/21/2019 16:50*	WG1283835

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	05/21/2019 17:54	WG1284324
Toluene	U		0.412	1.00	1	05/21/2019 17:54	WG1284324
Ethylbenzene	2.36		0.384	1.00	1	05/21/2019 17:54	WG1284324
Total Xylenes	4.18		1.06	3.00	1	05/21/2019 17:54	WG1284324
Methyl tert-butyl ether	U		0.367	1.00	1	05/21/2019 17:54	WG1284324
1,2-Dichloroethane	U		0.361	1.00	1	05/21/2019 17:54	WG1284324
(S) Toluene-d8	*92.6*			*80.0-120*		*05/21/2019 17:54*	WG1284324
(S) a,a,a-Trifluorotoluene	*112*			*80.0-120*		*05/21/2019 17:54*	WG1284324
(S) 4-Bromofluorobenzene	*89.6*			*77.0-126*		*05/21/2019 17:54*	WG1284324
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*05/21/2019 17:54*	WG1284324

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00240	0.0100	1	05/20/2019 20:47	WG1283480

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	771		66.7	200	1	05/21/2019 01:06	WG1282653
Residual Range Organics (RRO)	U		83.3	250	1	05/21/2019 01:06	WG1282653
(S) o-Terphenyl	*86.0*			*52.0-156*		*05/21/2019 01:06*	WG1282653

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U		0.00410	0.0500	1	05/20/2019 04:21	WG1282661
Benzo(a)pyrene	U		0.0116	0.0500	1	05/20/2019 04:21	WG1282661
Benzo(b)fluoranthene	U		0.00212	0.0500	1	05/20/2019 04:21	WG1282661
Benzo(k)fluoranthene	U		0.0136	0.0500	1	05/20/2019 04:21	WG1282661
Chrysene	U		0.0108	0.0500	1	05/20/2019 04:21	WG1282661
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	05/20/2019 04:21	WG1282661
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	05/20/2019 04:21	WG1282661
Naphthalene	0.377		0.0198	0.250	1	05/20/2019 04:21	WG1282661
1-Methylnaphthalene	0.0625	J	0.00821	0.250	1	05/20/2019 04:21	WG1282661
2-Methylnaphthalene	0.0189	J	0.00902	0.250	1	05/20/2019 04:21	WG1282661
(S) Nitrobenzene-d5	*153*			*31.0-160*		*05/20/2019 04:21*	WG1282661
(S) 2-Fluorobiphenyl	*82.0*			*48.0-148*		*05/20/2019 04:21*	WG1282661
(S) p-Terphenyl-d14	*85.0*			*37.0-146*		*05/20/2019 04:21*	WG1282661

Method Blank (MB)

(MB) R3413935-1 05/22/19 17:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Lead	U		1.90	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3413935-2 05/22/19 17:24 • (LCSD) R3413935-3 05/22/19 17:26

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Lead	1000	951	969	95.1	96.9	80.0-120			1.91	20

L1099701-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1099701-01 05/22/19 17:29 • (MS) R3413935-5 05/22/19 17:34 • (MSD) R3413935-6 05/22/19 17:37

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Lead	1000	U	955	942	95.5	94.2	1	75.0-125			1.31	20

Method Blank (MB)

(MB) R3412643-3 05/17/19 13:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*102*			*78.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3412643-1 05/17/19 12:00 • (LCSD) R3412643-2 05/17/19 12:22

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	4730	4640	86.1	84.3	70.0-124			2.09	20
(S) a,a,a-Trifluorotoluene(FID)				*99.3*	*99.3*	*78.0-120*				

Method Blank (MB)

(MB) R3413416-2 05/21/19 11:46

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	76.8	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*84.2*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3413416-1 05/21/19 10:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5080	92.4	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*88.9*	*78.0-120*	

Method Blank (MB)

(MB) R3414209-3 05/22/19 10:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*103*			*78.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3414209-1 05/22/19 09:51 • (LCSD) R3414209-2 05/22/19 10:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5200	4980	94.6	90.6	70.0-124			4.32	20
(S) a,a,a-Trifluorotoluene(FID)				*100*	*100*	*78.0-120*				

Method Blank (MB)

(MB) R3414223-3 05/19/19 06:20

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*95.5*			*80.0-120*
(S) a,a,a-Trifluorotoluene	*104*			*80.0-120*
(S) 4-Bromofluorobenzene	*101*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*96.0*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3414223-1 05/19/19 05:20 • (LCSD) R3414223-2 05/19/19 05:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	25.0	24.9	25.1	99.7	100	70.0-123			0.766	20
1,2-Dichloroethane	25.0	23.5	23.8	94.0	95.0	70.0-128			1.04	20
Ethylbenzene	25.0	24.2	23.7	96.6	95.0	79.0-123			1.73	20
Methyl tert-butyl ether	25.0	25.5	26.3	102	105	68.0-125			2.91	20
Toluene	25.0	22.7	22.5	90.8	90.1	79.0-120			0.841	20
Xylenes, Total	75.0	69.2	68.3	92.3	91.1	79.0-123			1.31	20
(S) Toluene-d8				*91.0*	*92.0*	*80.0-120*				
(S) a,a,a-Trifluorotoluene				*103*	*104*	*80.0-120*				
(S) 4-Bromofluorobenzene				*99.5*	*99.5*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*103*	*105*	*70.0-130*				

Method Blank (MB)

(MB) R3414020-3 05/21/19 10:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) a,a,a-Trifluorotoluene	*117*			*80.0-120*
(S) Toluene-d8	*103*			*80.0-120*
(S) 4-Bromofluorobenzene	*89.6*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3414020-1 05/21/19 09:37 • (LCSD) R3414020-2 05/21/19 09:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	25.0	25.6	26.0	102	104	70.0-123			1.62	20
1,2-Dichloroethane	25.0	25.9	26.3	104	105	70.0-128			1.25	20
Ethylbenzene	25.0	24.4	24.9	97.6	99.5	79.0-123			1.84	20
Methyl tert-butyl ether	25.0	28.5	29.1	114	116	68.0-125			2.17	20
Toluene	25.0	23.3	23.4	93.1	93.5	79.0-120			0.449	20
Xylenes, Total	75.0	75.7	76.2	101	102	79.0-123			0.658	20
(S) a,a,a-Trifluorotoluene				*114*	*113*	*80.0-120*				
(S) Toluene-d8				*100*	*98.4*	*80.0-120*				
(S) 4-Bromofluorobenzene				*91.9*	*92.9*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*110*	*111*	*70.0-130*				

Method Blank (MB)

(MB) R3413295-1 05/20/19 17:01

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylene Dibromide	U		0.00240	0.0100

L1099624-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1099624-01 05/20/19 17:48 • (DUP) R3413295-3 05/20/19 17:36

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ethylene Dibromide	U	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3413295-4 05/20/19 19:46 • (LCSD) R3413295-5 05/20/19 22:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylene Dibromide	0.250	0.289	0.298	116	119	60.0-140			3.07	20

L1099624-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1099624-02 05/20/19 17:24 • (MS) R3413295-2 05/20/19 17:12

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ethylene Dibromide	0.100	U	0.116	116	1	64.0-159	

Method Blank (MB)

(MB) R3412849-1 05/19/19 20:34

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
(S) o-Terphenyl	*78.0*			*52.0-156*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3412849-2 05/19/19 20:56 • (LCSD) R3412849-3 05/19/19 21:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1270	1280	84.7	85.3	50.0-150			0.784	20
(S) o-Terphenyl				*104*	*105*	*52.0-156*				

Method Blank (MB)

(MB) R3413234-1 05/20/19 13:28

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
(S) o-Terphenyl	*63.5*			*52.0-156*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3413234-2 05/20/19 13:48 • (LCSD) R3413234-3 05/20/19 14:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1370	1300	91.3	86.7	50.0-150			5.24	20
(S) o-Terphenyl				*104*	*97.5*	*52.0-156*				

Method Blank (MB)

(MB) R3412680-3 05/19/19 21:24

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzo(a)anthracene	U		0.00410	0.0500
Benzo(a)pyrene	U		0.0116	0.0500
Benzo(b)fluoranthene	U		0.00212	0.0500
Benzo(k)fluoranthene	U		0.0136	0.0500
Chrysene	U		0.0108	0.0500
Dibenz(a,h)anthracene	U		0.00396	0.0500
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500
Naphthalene	U		0.0198	0.250
1-Methylnaphthalene	U		0.00821	0.250
2-Methylnaphthalene	U		0.00902	0.250
(S) Nitrobenzene-d5	*124*			*31.0-160*
(S) 2-Fluorobiphenyl	*75.0*			*48.0-148*
(S) p-Terphenyl-d14	*77.5*			*37.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3412680-1 05/19/19 20:40 • (LCSD) R3412680-2 05/19/19 21:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzo(a)anthracene	2.00	1.58	1.56	79.0	78.0	61.0-140			1.27	20
Benzo(a)pyrene	2.00	1.61	1.65	80.5	82.5	60.0-143			2.45	20
Benzo(b)fluoranthene	2.00	1.56	1.63	78.0	81.5	58.0-141			4.39	20
Benzo(k)fluoranthene	2.00	1.65	1.65	82.5	82.5	58.0-148			0.000	20
Chrysene	2.00	1.60	1.68	80.0	84.0	64.0-144			4.88	20
Dibenz(a,h)anthracene	2.00	1.61	1.66	80.5	83.0	52.0-155			3.06	20
Indeno(1,2,3-cd)pyrene	2.00	1.67	1.69	83.5	84.5	54.0-153			1.19	20
Naphthalene	2.00	1.67	1.70	83.5	85.0	61.0-137			1.78	20
1-Methylnaphthalene	2.00	1.54	1.56	77.0	78.0	66.0-142			1.29	20
2-Methylnaphthalene	2.00	1.51	1.55	75.5	77.5	62.0-136			2.61	20
(S) Nitrobenzene-d5				*116*	*123*	*31.0-160*				
(S) 2-Fluorobiphenyl				*65.5*	*71.0*	*48.0-148*				
(S) p-Terphenyl-d14				*78.5*	*80.0*	*37.0-146*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
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Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

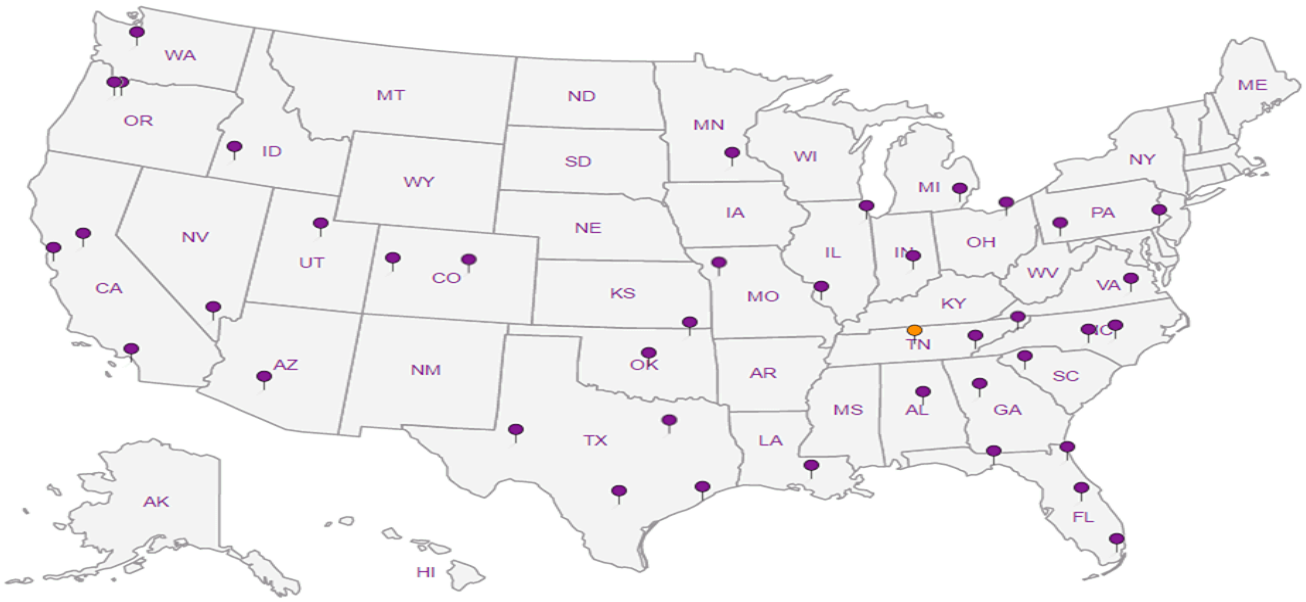
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



ARCADIS US - Seattle, WA

1100 Olive Way
Suite 800
Seattle, WA 98101

Billing Information:
Attn: Accounts Payable
630 Plaza Dr., Ste. 600
Highlands Ranch, CO 80129

Pres Chk

Report to: Ross LaGrandeur

Email To: Ross.LaGrandeur@arcadis.com; Ryan.Brauchla@arcadis.com;

Project Description: WA-11060

City/State Collected: Seattle, WA

Phone: 509-438-9828
Fax:

Client Project #GP18BPWC.WA48

Lab Project # ARCABPWA-WA11060

Collected by (print): KILEY ZALBI

Site/Facility ID # 4580 FAUNTLEROY WAY SW,

P.O. #GP18BPWC.WA48

Collected by (signature): KCJ

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed: Standard TAT

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEXM,EDC 8260C 40mlAmb-HCl	EDB 8011 40mlClr-NaThio	HOLD - Diss Pb 6010 250mlHDPE-NoPres	NWTPHDX LVINOSGT 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	PAHs (PAHSIMLVID) 40mlAmb-NoPres-WT	Total Pb 6010 250mlHDPE-HNO3				Remarks	Sample # (lab only)
MW-9	G	GW		5-13-19	1345	15	X	X	X	X	X	X	X					01
MW-11	G	GW		5-13-19	1515	15	X	X	X	X	X	X	X					02
MW-12	G	GW		5-13-19	1620	15	X	X	X	X	X	X	X					03
MW-2	G	GW		5-14-19	1215	15	X	X	X	X	X	X	X					04
MW-3	G	GW		5-14-19	1340	15	X	X	X	X	X	X	X					05
MW-5	G	GW		5-14-19	1620	6	X	X			X							06
MW-1	G	GW		5-14-19	1720	15	X	X	X	X	X	X	X					07
DUP-1	G	GW		5-14-19	—	15	X	X	X	X	X	X	X					08
TRIP BLANK		GW																
		GW																

Chain of Custody Page 1 of 1

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1099701

G244

Acctnum: ARCABPWA
Template: T149873
Prelogin: P707650
TSR: 110 - Brian Ford
PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: ✓NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

RAD SCREEN: <0.5 mR/hr

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date: 5/15/19	Time: 1220	Received by: (Signature)		
Relinquished by : (Signature)	Date: 5/15/19	Time: 12:20 PM	Received by: (Signature)	Temp: 1.8 °C Bottles Received: 11	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5/16/19 Time: 0545	Hold: Condition: NCF / OK

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

September 11, 2019

ARCADIS US - Seattle, WA

Sample Delivery Group:	L1134377
Samples Received:	08/29/2019
Project Number:	30014464
Description:	WA-11060
Site:	4580 FAUNTLEROY WAY SW, SEATTL
Report To:	Ross LaGrandeur 1100 Olive Way Suite 800 Seattle, WA 98101

Entire Report Reviewed By:

Brian Ford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

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MW-9 L1134377-01 GW

Collected by: Kiley Zaubi | Collected date/time: 08/27/19 13:06 | Received date/time: 08/29/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1337503	1	08/30/19 08:50	08/30/19 13:32	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1338737	1	09/02/19 14:49	09/02/19 14:49	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1341137	1	09/06/19 14:17	09/06/19 14:17	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1342309	1	09/09/19 14:21	09/09/19 14:21	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1337585	1	08/30/19 09:00	09/04/19 02:12	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1338613	1	09/01/19 16:49	09/04/19 13:45	SHG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1338624	1	09/02/19 08:51	09/03/19 00:40	DMG	Mt. Juliet, TN

MW-11 L1134377-02 GW

Collected by: Kiley Zaubi | Collected date/time: 08/27/19 14:45 | Received date/time: 08/29/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1337503	1	08/30/19 08:50	08/30/19 13:35	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1338737	1	09/02/19 15:13	09/02/19 15:13	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1341137	1	09/06/19 14:37	09/06/19 14:37	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1342309	1	09/09/19 14:42	09/09/19 14:42	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1337585	1.01	08/30/19 09:00	09/04/19 02:24	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1338613	1	09/01/19 16:49	09/04/19 14:05	SHG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1338624	1	09/02/19 08:51	09/03/19 01:01	DMG	Mt. Juliet, TN

MW-6 L1134377-03 GW

Collected by: Kiley Zaubi | Collected date/time: 08/27/19 15:00 | Received date/time: 08/29/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1337503	1	08/30/19 08:50	08/30/19 13:38	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1338737	1	09/02/19 15:37	09/02/19 15:37	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1340167	1	09/05/19 04:56	09/05/19 04:56	ZJM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1338717	1.02	09/02/19 08:27	09/04/19 04:01	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1338613	1	09/01/19 16:49	09/04/19 14:25	SHG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1338624	1	09/02/19 08:51	09/03/19 01:22	DMG	Mt. Juliet, TN

MW-12 L1134377-04 GW

Collected by: Kiley Zaubi | Collected date/time: 08/27/19 16:00 | Received date/time: 08/29/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1337503	1	08/30/19 08:50	08/30/19 13:41	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1338737	1	09/02/19 16:01	09/02/19 16:01	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1341137	1	09/06/19 14:58	09/06/19 14:58	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1342309	1	09/09/19 15:03	09/09/19 15:03	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1338717	1.02	09/02/19 08:27	09/04/19 04:14	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1338613	1	09/01/19 16:49	09/04/19 14:45	SHG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1338624	1	09/02/19 08:51	09/03/19 01:43	DMG	Mt. Juliet, TN

GMW-1 L1134377-05 GW

Collected by: Kiley Zaubi | Collected date/time: 08/27/19 16:25 | Received date/time: 08/29/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1337503	1	08/30/19 08:50	08/30/19 13:43	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1338737	1	09/02/19 16:25	09/02/19 16:25	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1341137	1	09/06/19 15:18	09/06/19 15:18	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1342309	1	09/09/19 15:23	09/09/19 15:23	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1338717	1.02	09/02/19 08:27	09/04/19 04:26	HMH	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

GMW-1 L1134377-05 GW

Collected by: Kiley Zaubi
Collected date/time: 08/27/19 16:25
Received date/time: 08/29/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1338613	2	09/01/19 16:49	09/04/19 15:05	SHG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1338624	1	09/02/19 08:51	09/03/19 02:04	DMG	Mt. Juliet, TN

DUP-1 L1134377-06 GW

Collected by: Kiley Zaubi
Collected date/time: 08/27/19 00:00
Received date/time: 08/29/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1337503	1	08/30/19 08:50	08/30/19 13:46	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1338737	1	09/02/19 16:49	09/02/19 16:49	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1341137	1	09/06/19 15:38	09/06/19 15:38	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1342309	1	09/09/19 15:44	09/09/19 15:44	JHH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1338717	1.02	09/02/19 08:27	09/04/19 04:37	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1338613	2	09/01/19 16:49	09/04/19 15:25	SHG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1338624	1	09/02/19 08:51	09/03/19 02:24	DMG	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Project Manager

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		1.90	5.00	1	08/30/2019 13:32	WG1337503

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	09/02/2019 14:49	WG1338737
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*09/02/2019 14:49*	WG1338737

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	3.93	J	1.05	25.0	1	09/06/2019 14:17	WG1341137
Acrylonitrile	U		0.873	5.00	1	09/06/2019 14:17	WG1341137
Benzene	U		0.0896	0.500	1	09/06/2019 14:17	WG1341137
Bromobenzene	U		0.133	0.500	1	09/06/2019 14:17	WG1341137
Bromodichloromethane	U		0.0800	0.500	1	09/06/2019 14:17	WG1341137
Bromochloromethane	U		0.145	0.500	1	09/06/2019 14:17	WG1341137
Bromoform	U		0.186	0.500	1	09/06/2019 14:17	WG1341137
Bromomethane	U		0.157	2.50	1	09/06/2019 14:17	WG1341137
n-Butylbenzene	U		0.143	0.500	1	09/06/2019 14:17	WG1341137
sec-Butylbenzene	U		0.134	0.500	1	09/06/2019 14:17	WG1341137
tert-Butylbenzene	U		0.183	0.500	1	09/06/2019 14:17	WG1341137
Carbon disulfide	U		0.101	0.500	1	09/06/2019 14:17	WG1341137
Carbon tetrachloride	U		0.159	0.500	1	09/06/2019 14:17	WG1341137
Chlorobenzene	U		0.140	0.500	1	09/06/2019 14:17	WG1341137
Chlorodibromomethane	U		0.128	0.500	1	09/06/2019 14:17	WG1341137
Chloroethane	U		0.141	2.50	1	09/06/2019 14:17	WG1341137
Chloroform	U		0.0860	0.500	1	09/06/2019 14:17	WG1341137
Chloromethane	U		0.153	1.25	1	09/06/2019 14:17	WG1341137
2-Chlorotoluene	U		0.111	0.500	1	09/06/2019 14:17	WG1341137
4-Chlorotoluene	U		0.0972	0.500	1	09/06/2019 14:17	WG1341137
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/06/2019 14:17	WG1341137
1,2-Dibromoethane	U		0.193	0.500	1	09/06/2019 14:17	WG1341137
Dibromomethane	U		0.117	0.500	1	09/06/2019 14:17	WG1341137
1,2-Dichlorobenzene	U		0.101	0.500	1	09/06/2019 14:17	WG1341137
1,3-Dichlorobenzene	U		0.130	0.500	1	09/06/2019 14:17	WG1341137
1,4-Dichlorobenzene	U		0.121	0.500	1	09/06/2019 14:17	WG1341137
Dichlorodifluoromethane	U		0.127	2.50	1	09/06/2019 14:17	WG1341137
1,1-Dichloroethane	U		0.114	0.500	1	09/06/2019 14:17	WG1341137
1,2-Dichloroethane	U		0.108	0.500	1	09/06/2019 14:17	WG1341137
1,1-Dichloroethene	U		0.188	0.500	1	09/06/2019 14:17	WG1341137
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/06/2019 14:17	WG1341137
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/06/2019 14:17	WG1341137
1,2-Dichloropropane	U		0.190	0.500	1	09/06/2019 14:17	WG1341137
1,1-Dichloropropene	U		0.128	0.500	1	09/06/2019 14:17	WG1341137
1,3-Dichloropropane	U		0.147	1.00	1	09/06/2019 14:17	WG1341137
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/06/2019 14:17	WG1341137
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/06/2019 14:17	WG1341137
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	09/06/2019 14:17	WG1341137
2,2-Dichloropropane	U		0.0929	0.500	1	09/06/2019 14:17	WG1341137
Di-isopropyl ether	U		0.0924	0.500	1	09/06/2019 14:17	WG1341137
Ethylbenzene	U		0.158	0.500	1	09/06/2019 14:17	WG1341137
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/06/2019 14:17	WG1341137
2-Hexanone	U		0.757	5.00	1	09/06/2019 14:17	WG1341137

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
n-Hexane	U		0.305	5.00	1	09/06/2019 14:17	WG1341137
Iodomethane	U		0.377	10.0	1	09/06/2019 14:17	WG1341137
Isopropylbenzene	U		0.126	0.500	1	09/06/2019 14:17	WG1341137
p-Isopropyltoluene	U		0.138	0.500	1	09/06/2019 14:17	WG1341137
2-Butanone (MEK)	U		1.28	5.00	1	09/06/2019 14:17	WG1341137
Methylene Chloride	U		1.07	2.50	1	09/06/2019 14:17	WG1341137
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/06/2019 14:17	WG1341137
Methyl tert-butyl ether	U		0.102	0.500	1	09/06/2019 14:17	WG1341137
Naphthalene	U		0.174	2.50	1	09/06/2019 14:17	WG1341137
n-Propylbenzene	U		0.162	0.500	1	09/06/2019 14:17	WG1341137
Styrene	U		0.117	0.500	1	09/06/2019 14:17	WG1341137
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/06/2019 14:17	WG1341137
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/06/2019 14:17	WG1341137
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/06/2019 14:17	WG1341137
Tetrachloroethene	U		0.199	0.500	1	09/06/2019 14:17	WG1341137
Toluene	U		0.412	0.500	1	09/06/2019 14:17	WG1341137
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/06/2019 14:17	WG1341137
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/06/2019 14:17	WG1341137
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/06/2019 14:17	WG1341137
1,1,2-Trichloroethane	U		0.186	0.500	1	09/06/2019 14:17	WG1341137
Trichloroethene	U		0.153	0.500	1	09/06/2019 14:17	WG1341137
Trichlorofluoromethane	U		0.130	2.50	1	09/06/2019 14:17	WG1341137
1,2,3-Trichloropropane	U		0.247	2.50	1	09/06/2019 14:17	WG1341137
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/06/2019 14:17	WG1341137
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/06/2019 14:17	WG1341137
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/06/2019 14:17	WG1341137
Vinyl acetate	U		0.645	5.00	1	09/06/2019 14:17	WG1341137
Vinyl chloride	U		0.118	0.500	1	09/06/2019 14:17	WG1341137
Xylenes, Total	U		0.316	1.50	1	09/06/2019 14:17	WG1341137
tert-Butyl alcohol	3.72	J J0 J4	2.40	5.00	1	09/06/2019 14:17	WG1341137
Ethyl tert-butyl ether	U		0.270	1.00	1	09/06/2019 14:17	WG1341137
tert-Amyl Methyl Ether	U		0.260	1.00	1	09/06/2019 14:17	WG1341137
Ethanol	U		42.0	100	1	09/09/2019 14:21	WG1342309
(S) Toluene-d8	*103*			*80.0-120*		*09/06/2019 14:17*	WG1341137
(S) Toluene-d8	*113*			*80.0-120*		*09/09/2019 14:21*	WG1342309
(S) 4-Bromofluorobenzene	*98.2*			*77.0-126*		*09/06/2019 14:17*	WG1341137
(S) 4-Bromofluorobenzene	*92.6*			*77.0-126*		*09/09/2019 14:21*	WG1342309
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/06/2019 14:17*	WG1341137
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/09/2019 14:21*	WG1342309

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00240	0.0100	1	09/04/2019 02:12	WG1337585

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	107	J	66.7	200	1	09/04/2019 13:45	WG1338613
Residual Range Organics (RRO)	98.9	J	83.3	250	1	09/04/2019 13:45	WG1338613
(S) o-Terphenyl	*85.3*			*52.0-156*		*09/04/2019 13:45*	WG1338613

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U	J4	0.00410	0.0500	1	09/03/2019 00:40	WG1338624
Benzo(a)pyrene	U		0.0116	0.0500	1	09/03/2019 00:40	WG1338624
Benzo(b)fluoranthene	U		0.00212	0.0500	1	09/03/2019 00:40	WG1338624
Benzo(k)fluoranthene	U		0.0136	0.0500	1	09/03/2019 00:40	WG1338624
Chrysene	U		0.0108	0.0500	1	09/03/2019 00:40	WG1338624
Dibenz(a,h)anthracene	U	J3	0.00396	0.0500	1	09/03/2019 00:40	WG1338624
Indeno(1,2,3-cd)pyrene	U	J3	0.0148	0.0500	1	09/03/2019 00:40	WG1338624
Naphthalene	0.0350	B J	0.0198	0.250	1	09/03/2019 00:40	WG1338624
1-Methylnaphthalene	U		0.00821	0.250	1	09/03/2019 00:40	WG1338624
2-Methylnaphthalene	U		0.00902	0.250	1	09/03/2019 00:40	WG1338624
(S) Nitrobenzene-d5	*135*			*31.0-160*		*09/03/2019 00:40*	WG1338624
(S) 2-Fluorobiphenyl	*119*			*48.0-148*		*09/03/2019 00:40*	WG1338624
(S) p-Terphenyl-d14	*117*			*37.0-146*		*09/03/2019 00:40*	WG1338624

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	2.51	J	1.90	5.00	1	08/30/2019 13:35	WG1337503

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	09/02/2019 15:13	WG1338737
(S) a,a,a-Trifluorotoluene(FID)	*105*			*78.0-120*		*09/02/2019 15:13*	WG1338737

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	4.07	J	1.05	25.0	1	09/06/2019 14:37	WG1341137
Acrylonitrile	U		0.873	5.00	1	09/06/2019 14:37	WG1341137
Benzene	U		0.0896	0.500	1	09/06/2019 14:37	WG1341137
Bromobenzene	U		0.133	0.500	1	09/06/2019 14:37	WG1341137
Bromodichloromethane	U		0.0800	0.500	1	09/06/2019 14:37	WG1341137
Bromochloromethane	U		0.145	0.500	1	09/06/2019 14:37	WG1341137
Bromoform	U		0.186	0.500	1	09/06/2019 14:37	WG1341137
Bromomethane	U		0.157	2.50	1	09/06/2019 14:37	WG1341137
n-Butylbenzene	U		0.143	0.500	1	09/06/2019 14:37	WG1341137
sec-Butylbenzene	0.871		0.134	0.500	1	09/06/2019 14:37	WG1341137
tert-Butylbenzene	0.270	J	0.183	0.500	1	09/06/2019 14:37	WG1341137
Carbon disulfide	U		0.101	0.500	1	09/06/2019 14:37	WG1341137
Carbon tetrachloride	U		0.159	0.500	1	09/06/2019 14:37	WG1341137
Chlorobenzene	U		0.140	0.500	1	09/06/2019 14:37	WG1341137
Chlorodibromomethane	U		0.128	0.500	1	09/06/2019 14:37	WG1341137
Chloroethane	U		0.141	2.50	1	09/06/2019 14:37	WG1341137
Chloroform	U		0.0860	0.500	1	09/06/2019 14:37	WG1341137
Chloromethane	U		0.153	1.25	1	09/06/2019 14:37	WG1341137
2-Chlorotoluene	U		0.111	0.500	1	09/06/2019 14:37	WG1341137
4-Chlorotoluene	U		0.0972	0.500	1	09/06/2019 14:37	WG1341137
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/06/2019 14:37	WG1341137
1,2-Dibromoethane	U		0.193	0.500	1	09/06/2019 14:37	WG1341137
Dibromomethane	U		0.117	0.500	1	09/06/2019 14:37	WG1341137
1,2-Dichlorobenzene	0.134	J	0.101	0.500	1	09/06/2019 14:37	WG1341137
1,3-Dichlorobenzene	U		0.130	0.500	1	09/06/2019 14:37	WG1341137
1,4-Dichlorobenzene	U		0.121	0.500	1	09/06/2019 14:37	WG1341137
Dichlorodifluoromethane	U		0.127	2.50	1	09/06/2019 14:37	WG1341137
1,1-Dichloroethane	U		0.114	0.500	1	09/06/2019 14:37	WG1341137
1,2-Dichloroethane	U		0.108	0.500	1	09/06/2019 14:37	WG1341137
1,1-Dichloroethene	U		0.188	0.500	1	09/06/2019 14:37	WG1341137
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/06/2019 14:37	WG1341137
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/06/2019 14:37	WG1341137
1,2-Dichloropropane	U		0.190	0.500	1	09/06/2019 14:37	WG1341137
1,1-Dichloropropene	U		0.128	0.500	1	09/06/2019 14:37	WG1341137
1,3-Dichloropropane	U		0.147	1.00	1	09/06/2019 14:37	WG1341137
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/06/2019 14:37	WG1341137
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/06/2019 14:37	WG1341137
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	09/06/2019 14:37	WG1341137
2,2-Dichloropropane	U		0.0929	0.500	1	09/06/2019 14:37	WG1341137
Di-isopropyl ether	U		0.0924	0.500	1	09/06/2019 14:37	WG1341137
Ethylbenzene	U		0.158	0.500	1	09/06/2019 14:37	WG1341137
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/06/2019 14:37	WG1341137
2-Hexanone	U		0.757	5.00	1	09/06/2019 14:37	WG1341137

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
n-Hexane	U		0.305	5.00	1	09/06/2019 14:37	WG1341137
Iodomethane	U		0.377	10.0	1	09/06/2019 14:37	WG1341137
Isopropylbenzene	U		0.126	0.500	1	09/06/2019 14:37	WG1341137
p-Isopropyltoluene	U		0.138	0.500	1	09/06/2019 14:37	WG1341137
2-Butanone (MEK)	U		1.28	5.00	1	09/06/2019 14:37	WG1341137
Methylene Chloride	U		1.07	2.50	1	09/06/2019 14:37	WG1341137
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/06/2019 14:37	WG1341137
Methyl tert-butyl ether	0.818		0.102	0.500	1	09/06/2019 14:37	WG1341137
Naphthalene	U		0.174	2.50	1	09/06/2019 14:37	WG1341137
n-Propylbenzene	U		0.162	0.500	1	09/06/2019 14:37	WG1341137
Styrene	U		0.117	0.500	1	09/06/2019 14:37	WG1341137
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/06/2019 14:37	WG1341137
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/06/2019 14:37	WG1341137
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/06/2019 14:37	WG1341137
Tetrachloroethene	U		0.199	0.500	1	09/06/2019 14:37	WG1341137
Toluene	U		0.412	0.500	1	09/06/2019 14:37	WG1341137
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/06/2019 14:37	WG1341137
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/06/2019 14:37	WG1341137
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/06/2019 14:37	WG1341137
1,1,2-Trichloroethane	U		0.186	0.500	1	09/06/2019 14:37	WG1341137
Trichloroethene	U		0.153	0.500	1	09/06/2019 14:37	WG1341137
Trichlorofluoromethane	U		0.130	2.50	1	09/06/2019 14:37	WG1341137
1,2,3-Trichloropropane	U		0.247	2.50	1	09/06/2019 14:37	WG1341137
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/06/2019 14:37	WG1341137
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/06/2019 14:37	WG1341137
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/06/2019 14:37	WG1341137
Vinyl acetate	U		0.645	5.00	1	09/06/2019 14:37	WG1341137
Vinyl chloride	U		0.118	0.500	1	09/06/2019 14:37	WG1341137
Xylenes, Total	U		0.316	1.50	1	09/06/2019 14:37	WG1341137
tert-Butyl alcohol	11.8	J0 J4	2.40	5.00	1	09/06/2019 14:37	WG1341137
Ethyl tert-butyl ether	U		0.270	1.00	1	09/06/2019 14:37	WG1341137
tert-Amyl Methyl Ether	U		0.260	1.00	1	09/06/2019 14:37	WG1341137
Ethanol	U		42.0	100	1	09/09/2019 14:42	WG1342309
(S) Toluene-d8	*98.7*			*80.0-120*		*09/06/2019 14:37*	WG1341137
(S) Toluene-d8	*107*			*80.0-120*		*09/09/2019 14:42*	WG1342309
(S) 4-Bromofluorobenzene	*96.1*			*77.0-126*		*09/06/2019 14:37*	WG1341137
(S) 4-Bromofluorobenzene	*90.9*			*77.0-126*		*09/09/2019 14:42*	WG1342309
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/06/2019 14:37*	WG1341137
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/09/2019 14:42*	WG1342309

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00242	0.0101	1.01	09/04/2019 02:24	WG1337585

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	227		66.7	200	1	09/04/2019 14:05	WG1338613
Residual Range Organics (RRO)	295		83.3	250	1	09/04/2019 14:05	WG1338613
(S) o-Terphenyl	*85.3*			*52.0-156*		*09/04/2019 14:05*	WG1338613

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U	J4	0.00410	0.0500	1	09/03/2019 01:01	WG1338624
Benzo(a)pyrene	U		0.0116	0.0500	1	09/03/2019 01:01	WG1338624
Benzo(b)fluoranthene	U		0.00212	0.0500	1	09/03/2019 01:01	WG1338624
Benzo(k)fluoranthene	U		0.0136	0.0500	1	09/03/2019 01:01	WG1338624
Chrysene	U		0.0108	0.0500	1	09/03/2019 01:01	WG1338624
Dibenz(a,h)anthracene	U	J3	0.00396	0.0500	1	09/03/2019 01:01	WG1338624
Indeno(1,2,3-cd)pyrene	U	J3	0.0148	0.0500	1	09/03/2019 01:01	WG1338624
Naphthalene	0.169	B J	0.0198	0.250	1	09/03/2019 01:01	WG1338624
1-Methylnaphthalene	0.0102	J	0.00821	0.250	1	09/03/2019 01:01	WG1338624
2-Methylnaphthalene	0.0107	J	0.00902	0.250	1	09/03/2019 01:01	WG1338624
(S) Nitrobenzene-d5	*131*			*31.0-160*		*09/03/2019 01:01*	WG1338624
(S) 2-Fluorobiphenyl	*120*			*48.0-148*		*09/03/2019 01:01*	WG1338624
(S) p-Terphenyl-d14	*118*			*37.0-146*		*09/03/2019 01:01*	WG1338624

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	3.18	J	1.90	5.00	1	08/30/2019 13:38	WG1337503

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	09/02/2019 15:37	WG1338737
(S) a,a,a-Trifluorotoluene(FID)	*108*			*78.0-120*		*09/02/2019 15:37*	WG1338737

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.331	1.00	1	09/05/2019 04:56	WG1340167
Toluene	U		0.412	1.00	1	09/05/2019 04:56	WG1340167
Ethylbenzene	U		0.384	1.00	1	09/05/2019 04:56	WG1340167
Total Xylenes	U	J4	1.06	3.00	1	09/05/2019 04:56	WG1340167
Methyl tert-butyl ether	U		0.367	1.00	1	09/05/2019 04:56	WG1340167
1,2-Dichloroethane	U		0.361	1.00	1	09/05/2019 04:56	WG1340167
(S) Toluene-d8	*114*			*80.0-120*		*09/05/2019 04:56*	WG1340167
(S) 4-Bromofluorobenzene	*87.5*			*77.0-126*		*09/05/2019 04:56*	WG1340167
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/05/2019 04:56*	WG1340167

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00245	0.0102	1.02	09/04/2019 04:01	WG1338717

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	79.6	J	66.7	200	1	09/04/2019 14:25	WG1338613
Residual Range Organics (RRO)	85.9	J	83.3	250	1	09/04/2019 14:25	WG1338613
(S) o-Terphenyl	*83.7*			*52.0-156*		*09/04/2019 14:25*	WG1338613

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzo(a)anthracene	U	J4	0.00410	0.0500	1	09/03/2019 01:22	WG1338624
Benzo(a)pyrene	U		0.0116	0.0500	1	09/03/2019 01:22	WG1338624
Benzo(b)fluoranthene	U		0.00212	0.0500	1	09/03/2019 01:22	WG1338624
Benzo(k)fluoranthene	U		0.0136	0.0500	1	09/03/2019 01:22	WG1338624
Chrysene	U		0.0108	0.0500	1	09/03/2019 01:22	WG1338624
Dibenz(a,h)anthracene	U	J3	0.00396	0.0500	1	09/03/2019 01:22	WG1338624
Indeno(1,2,3-cd)pyrene	U	J3	0.0148	0.0500	1	09/03/2019 01:22	WG1338624
Naphthalene	0.0249	B J	0.0198	0.250	1	09/03/2019 01:22	WG1338624
1-Methylnaphthalene	U		0.00821	0.250	1	09/03/2019 01:22	WG1338624
2-Methylnaphthalene	U		0.00902	0.250	1	09/03/2019 01:22	WG1338624
(S) Nitrobenzene-d5	*124*			*31.0-160*		*09/03/2019 01:22*	WG1338624
(S) 2-Fluorobiphenyl	*123*			*48.0-148*		*09/03/2019 01:22*	WG1338624
(S) p-Terphenyl-d14	*118*			*37.0-146*		*09/03/2019 01:22*	WG1338624

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		1.90	5.00	1	08/30/2019 13:41	WG1337503

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	260		31.6	100	1	09/02/2019 16:01	WG1338737
(S) a,a,a-Trifluorotoluene(FID)	*90.5*			*78.0-120*		*09/02/2019 16:01*	WG1338737

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	09/06/2019 14:58	WG1341137
Acrylonitrile	U		0.873	5.00	1	09/06/2019 14:58	WG1341137
Benzene	3.11		0.0896	0.500	1	09/06/2019 14:58	WG1341137
Bromobenzene	U		0.133	0.500	1	09/06/2019 14:58	WG1341137
Bromodichloromethane	U		0.0800	0.500	1	09/06/2019 14:58	WG1341137
Bromochloromethane	U		0.145	0.500	1	09/06/2019 14:58	WG1341137
Bromoform	U		0.186	0.500	1	09/06/2019 14:58	WG1341137
Bromomethane	U		0.157	2.50	1	09/06/2019 14:58	WG1341137
n-Butylbenzene	U		0.143	0.500	1	09/06/2019 14:58	WG1341137
sec-Butylbenzene	0.836		0.134	0.500	1	09/06/2019 14:58	WG1341137
tert-Butylbenzene	U		0.183	0.500	1	09/06/2019 14:58	WG1341137
Carbon disulfide	U		0.101	0.500	1	09/06/2019 14:58	WG1341137
Carbon tetrachloride	U		0.159	0.500	1	09/06/2019 14:58	WG1341137
Chlorobenzene	U		0.140	0.500	1	09/06/2019 14:58	WG1341137
Chlorodibromomethane	U		0.128	0.500	1	09/06/2019 14:58	WG1341137
Chloroethane	U		0.141	2.50	1	09/06/2019 14:58	WG1341137
Chloroform	U		0.0860	0.500	1	09/06/2019 14:58	WG1341137
Chloromethane	U		0.153	1.25	1	09/06/2019 14:58	WG1341137
2-Chlorotoluene	U		0.111	0.500	1	09/06/2019 14:58	WG1341137
4-Chlorotoluene	U		0.0972	0.500	1	09/06/2019 14:58	WG1341137
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/06/2019 14:58	WG1341137
1,2-Dibromoethane	U		0.193	0.500	1	09/06/2019 14:58	WG1341137
Dibromomethane	U		0.117	0.500	1	09/06/2019 14:58	WG1341137
1,2-Dichlorobenzene	U		0.101	0.500	1	09/06/2019 14:58	WG1341137
1,3-Dichlorobenzene	U		0.130	0.500	1	09/06/2019 14:58	WG1341137
1,4-Dichlorobenzene	U		0.121	0.500	1	09/06/2019 14:58	WG1341137
Dichlorodifluoromethane	U		0.127	2.50	1	09/06/2019 14:58	WG1341137
1,1-Dichloroethane	U		0.114	0.500	1	09/06/2019 14:58	WG1341137
1,2-Dichloroethane	U		0.108	0.500	1	09/06/2019 14:58	WG1341137
1,1-Dichloroethene	U		0.188	0.500	1	09/06/2019 14:58	WG1341137
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/06/2019 14:58	WG1341137
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/06/2019 14:58	WG1341137
1,2-Dichloropropane	U		0.190	0.500	1	09/06/2019 14:58	WG1341137
1,1-Dichloropropene	U		0.128	0.500	1	09/06/2019 14:58	WG1341137
1,3-Dichloropropane	U		0.147	1.00	1	09/06/2019 14:58	WG1341137
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/06/2019 14:58	WG1341137
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/06/2019 14:58	WG1341137
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	09/06/2019 14:58	WG1341137
2,2-Dichloropropane	U		0.0929	0.500	1	09/06/2019 14:58	WG1341137
Di-isopropyl ether	U		0.0924	0.500	1	09/06/2019 14:58	WG1341137
Ethylbenzene	0.705		0.158	0.500	1	09/06/2019 14:58	WG1341137
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/06/2019 14:58	WG1341137
2-Hexanone	U		0.757	5.00	1	09/06/2019 14:58	WG1341137

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
n-Hexane	U		0.305	5.00	1	09/06/2019 14:58	WG1341137
Iodomethane	U		0.377	10.0	1	09/06/2019 14:58	WG1341137
Isopropylbenzene	2.74		0.126	0.500	1	09/06/2019 14:58	WG1341137
p-Isopropyltoluene	0.399	J	0.138	0.500	1	09/06/2019 14:58	WG1341137
2-Butanone (MEK)	U		1.28	5.00	1	09/06/2019 14:58	WG1341137
Methylene Chloride	U		1.07	2.50	1	09/06/2019 14:58	WG1341137
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/06/2019 14:58	WG1341137
Methyl tert-butyl ether	U		0.102	0.500	1	09/06/2019 14:58	WG1341137
Naphthalene	0.192	J	0.174	2.50	1	09/06/2019 14:58	WG1341137
n-Propylbenzene	1.10		0.162	0.500	1	09/06/2019 14:58	WG1341137
Styrene	U		0.117	0.500	1	09/06/2019 14:58	WG1341137
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/06/2019 14:58	WG1341137
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/06/2019 14:58	WG1341137
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/06/2019 14:58	WG1341137
Tetrachloroethene	U		0.199	0.500	1	09/06/2019 14:58	WG1341137
Toluene	U		0.412	0.500	1	09/06/2019 14:58	WG1341137
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/06/2019 14:58	WG1341137
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/06/2019 14:58	WG1341137
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/06/2019 14:58	WG1341137
1,1,2-Trichloroethane	U		0.186	0.500	1	09/06/2019 14:58	WG1341137
Trichloroethene	U		0.153	0.500	1	09/06/2019 14:58	WG1341137
Trichlorofluoromethane	U		0.130	2.50	1	09/06/2019 14:58	WG1341137
1,2,3-Trichloropropane	U		0.247	2.50	1	09/06/2019 14:58	WG1341137
1,2,4-Trimethylbenzene	0.884		0.123	0.500	1	09/06/2019 14:58	WG1341137
1,2,3-Trimethylbenzene	0.228	J	0.0739	0.500	1	09/06/2019 14:58	WG1341137
1,3,5-Trimethylbenzene	0.808		0.124	0.500	1	09/06/2019 14:58	WG1341137
Vinyl acetate	U		0.645	5.00	1	09/06/2019 14:58	WG1341137
Vinyl chloride	U		0.118	0.500	1	09/06/2019 14:58	WG1341137
Xylenes, Total	0.404	J	0.316	1.50	1	09/06/2019 14:58	WG1341137
tert-Butyl alcohol	14.6	J0 J4	2.40	5.00	1	09/06/2019 14:58	WG1341137
Ethyl tert-butyl ether	U		0.270	1.00	1	09/06/2019 14:58	WG1341137
tert-Amyl Methyl Ether	U		0.260	1.00	1	09/06/2019 14:58	WG1341137
Ethanol	U		42.0	100	1	09/09/2019 15:03	WG1342309
(S) Toluene-d8	*101*			*80.0-120*		*09/06/2019 14:58*	WG1341137
(S) Toluene-d8	*110*			*80.0-120*		*09/09/2019 15:03*	WG1342309
(S) 4-Bromofluorobenzene	*96.9*			*77.0-126*		*09/06/2019 14:58*	WG1341137
(S) 4-Bromofluorobenzene	*92.8*			*77.0-126*		*09/09/2019 15:03*	WG1342309
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/06/2019 14:58*	WG1341137
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/09/2019 15:03*	WG1342309

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00245	0.0102	1.02	09/04/2019 04:14	WG1338717

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	404		66.7	200	1	09/04/2019 14:45	WG1338613
Residual Range Organics (RRO)	192	J	83.3	250	1	09/04/2019 14:45	WG1338613
(S) o-Terphenyl	*88.9*			*52.0-156*		*09/04/2019 14:45*	WG1338613

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U	J4	0.00410	0.0500	1	09/03/2019 01:43	WG1338624
Benzo(a)pyrene	U		0.0116	0.0500	1	09/03/2019 01:43	WG1338624
Benzo(b)fluoranthene	U		0.00212	0.0500	1	09/03/2019 01:43	WG1338624
Benzo(k)fluoranthene	U		0.0136	0.0500	1	09/03/2019 01:43	WG1338624
Chrysene	U		0.0108	0.0500	1	09/03/2019 01:43	WG1338624
Dibenz(a,h)anthracene	U	J3	0.00396	0.0500	1	09/03/2019 01:43	WG1338624
Indeno(1,2,3-cd)pyrene	U	J3	0.0148	0.0500	1	09/03/2019 01:43	WG1338624
Naphthalene	0.257	B	0.0198	0.250	1	09/03/2019 01:43	WG1338624
1-Methylnaphthalene	0.235	J	0.00821	0.250	1	09/03/2019 01:43	WG1338624
2-Methylnaphthalene	0.0224	J	0.00902	0.250	1	09/03/2019 01:43	WG1338624
(S) Nitrobenzene-d5	*119*			*31.0-160*		*09/03/2019 01:43*	WG1338624
(S) 2-Fluorobiphenyl	*117*			*48.0-148*		*09/03/2019 01:43*	WG1338624
(S) p-Terphenyl-d14	*118*			*37.0-146*		*09/03/2019 01:43*	WG1338624

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	8.01		1.90	5.00	1	08/30/2019 13:43	WG1337503

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	2750		31.6	100	1	09/02/2019 16:25	WG1338737
(S) a,a,a-Trifluorotoluene(FID)	*96.8*			*78.0-120*		*09/02/2019 16:25*	WG1338737

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	09/06/2019 15:18	WG1341137
Acrylonitrile	U		0.873	5.00	1	09/06/2019 15:18	WG1341137
Benzene	U		0.0896	0.500	1	09/06/2019 15:18	WG1341137
Bromobenzene	U		0.133	0.500	1	09/06/2019 15:18	WG1341137
Bromodichloromethane	U		0.0800	0.500	1	09/06/2019 15:18	WG1341137
Bromochloromethane	U		0.145	0.500	1	09/06/2019 15:18	WG1341137
Bromoform	U		0.186	0.500	1	09/06/2019 15:18	WG1341137
Bromomethane	U		0.157	2.50	1	09/06/2019 15:18	WG1341137
n-Butylbenzene	U		0.143	0.500	1	09/06/2019 15:18	WG1341137
sec-Butylbenzene	3.99		0.134	0.500	1	09/06/2019 15:18	WG1341137
tert-Butylbenzene	U		0.183	0.500	1	09/06/2019 15:18	WG1341137
Carbon disulfide	0.614		0.101	0.500	1	09/06/2019 15:18	WG1341137
Carbon tetrachloride	U		0.159	0.500	1	09/06/2019 15:18	WG1341137
Chlorobenzene	U		0.140	0.500	1	09/06/2019 15:18	WG1341137
Chlorodibromomethane	U		0.128	0.500	1	09/06/2019 15:18	WG1341137
Chloroethane	U		0.141	2.50	1	09/06/2019 15:18	WG1341137
Chloroform	U		0.0860	0.500	1	09/06/2019 15:18	WG1341137
Chloromethane	U		0.153	1.25	1	09/06/2019 15:18	WG1341137
2-Chlorotoluene	1.71		0.111	0.500	1	09/06/2019 15:18	WG1341137
4-Chlorotoluene	U		0.0972	0.500	1	09/06/2019 15:18	WG1341137
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/06/2019 15:18	WG1341137
1,2-Dibromoethane	U		0.193	0.500	1	09/06/2019 15:18	WG1341137
Dibromomethane	U		0.117	0.500	1	09/06/2019 15:18	WG1341137
1,2-Dichlorobenzene	U		0.101	0.500	1	09/06/2019 15:18	WG1341137
1,3-Dichlorobenzene	U		0.130	0.500	1	09/06/2019 15:18	WG1341137
1,4-Dichlorobenzene	U		0.121	0.500	1	09/06/2019 15:18	WG1341137
Dichlorodifluoromethane	U		0.127	2.50	1	09/06/2019 15:18	WG1341137
1,1-Dichloroethane	U		0.114	0.500	1	09/06/2019 15:18	WG1341137
1,2-Dichloroethane	U		0.108	0.500	1	09/06/2019 15:18	WG1341137
1,1-Dichloroethene	U		0.188	0.500	1	09/06/2019 15:18	WG1341137
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/06/2019 15:18	WG1341137
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/06/2019 15:18	WG1341137
1,2-Dichloropropane	U		0.190	0.500	1	09/06/2019 15:18	WG1341137
1,1-Dichloropropene	U		0.128	0.500	1	09/06/2019 15:18	WG1341137
1,3-Dichloropropane	U		0.147	1.00	1	09/06/2019 15:18	WG1341137
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/06/2019 15:18	WG1341137
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/06/2019 15:18	WG1341137
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	09/06/2019 15:18	WG1341137
2,2-Dichloropropane	U		0.0929	0.500	1	09/06/2019 15:18	WG1341137
Di-isopropyl ether	U		0.0924	0.500	1	09/06/2019 15:18	WG1341137
Ethylbenzene	12.0		0.158	0.500	1	09/06/2019 15:18	WG1341137
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/06/2019 15:18	WG1341137
2-Hexanone	U		0.757	5.00	1	09/06/2019 15:18	WG1341137

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
n-Hexane	6.17		0.305	5.00	1	09/06/2019 15:18	WG1341137
Iodomethane	U		0.377	10.0	1	09/06/2019 15:18	WG1341137
Isopropylbenzene	12.7		0.126	0.500	1	09/06/2019 15:18	WG1341137
p-Isopropyltoluene	8.59		0.138	0.500	1	09/06/2019 15:18	WG1341137
2-Butanone (MEK)	U		1.28	5.00	1	09/06/2019 15:18	WG1341137
Methylene Chloride	U		1.07	2.50	1	09/06/2019 15:18	WG1341137
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/06/2019 15:18	WG1341137
Methyl tert-butyl ether	U		0.102	0.500	1	09/06/2019 15:18	WG1341137
Naphthalene	1.88	J	0.174	2.50	1	09/06/2019 15:18	WG1341137
n-Propylbenzene	15.3		0.162	0.500	1	09/06/2019 15:18	WG1341137
Styrene	U		0.117	0.500	1	09/06/2019 15:18	WG1341137
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/06/2019 15:18	WG1341137
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/06/2019 15:18	WG1341137
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/06/2019 15:18	WG1341137
Tetrachloroethene	U		0.199	0.500	1	09/06/2019 15:18	WG1341137
Toluene	U		0.412	0.500	1	09/06/2019 15:18	WG1341137
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/06/2019 15:18	WG1341137
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/06/2019 15:18	WG1341137
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/06/2019 15:18	WG1341137
1,1,2-Trichloroethane	U		0.186	0.500	1	09/06/2019 15:18	WG1341137
Trichloroethene	U		0.153	0.500	1	09/06/2019 15:18	WG1341137
Trichlorofluoromethane	U		0.130	2.50	1	09/06/2019 15:18	WG1341137
1,2,3-Trichloropropane	U		0.247	2.50	1	09/06/2019 15:18	WG1341137
1,2,4-Trimethylbenzene	73.0		0.123	0.500	1	09/06/2019 15:18	WG1341137
1,2,3-Trimethylbenzene	10.2		0.0739	0.500	1	09/06/2019 15:18	WG1341137
1,3,5-Trimethylbenzene	16.5		0.124	0.500	1	09/06/2019 15:18	WG1341137
Vinyl acetate	U		0.645	5.00	1	09/06/2019 15:18	WG1341137
Vinyl chloride	U		0.118	0.500	1	09/06/2019 15:18	WG1341137
Xylenes, Total	13.9		0.316	1.50	1	09/06/2019 15:18	WG1341137
tert-Butyl alcohol	7.02	J0 J4	2.40	5.00	1	09/06/2019 15:18	WG1341137
Ethyl tert-butyl ether	U		0.270	1.00	1	09/06/2019 15:18	WG1341137
tert-Amyl Methyl Ether	U		0.260	1.00	1	09/06/2019 15:18	WG1341137
Ethanol	U		42.0	100	1	09/09/2019 15:23	WG1342309
(S) Toluene-d8	*110*			*80.0-120*		*09/06/2019 15:18*	WG1341137
(S) Toluene-d8	*98.5*			*80.0-120*		*09/09/2019 15:23*	WG1342309
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*09/06/2019 15:18*	WG1341137
(S) 4-Bromofluorobenzene	*94.0*			*77.0-126*		*09/09/2019 15:23*	WG1342309
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*09/06/2019 15:18*	WG1341137
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/09/2019 15:23*	WG1342309

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	U		0.00245	0.0102	1.02	09/04/2019 04:26	WG1338717

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	777		133	400	2	09/04/2019 15:05	WG1338613
Residual Range Organics (RRO)	U		167	500	2	09/04/2019 15:05	WG1338613
(S) o-Terphenyl	*70.5*			*52.0-156*		*09/04/2019 15:05*	WG1338613

Sample Narrative:

L1134377-05 WG1338613: Dilution due to matrix impact during extraction procedure

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U	J4	0.00410	0.0500	1	09/03/2019 02:04	WG1338624
Benzo(a)pyrene	U		0.0116	0.0500	1	09/03/2019 02:04	WG1338624
Benzo(b)fluoranthene	U		0.00212	0.0500	1	09/03/2019 02:04	WG1338624
Benzo(k)fluoranthene	U		0.0136	0.0500	1	09/03/2019 02:04	WG1338624
Chrysene	U		0.0108	0.0500	1	09/03/2019 02:04	WG1338624
Dibenz(a,h)anthracene	U	J3	0.00396	0.0500	1	09/03/2019 02:04	WG1338624
Indeno(1,2,3-cd)pyrene	U	J3	0.0148	0.0500	1	09/03/2019 02:04	WG1338624
Naphthalene	0.642		0.0198	0.250	1	09/03/2019 02:04	WG1338624
1-Methylnaphthalene	0.0389	J	0.00821	0.250	1	09/03/2019 02:04	WG1338624
2-Methylnaphthalene	0.140	J	0.00902	0.250	1	09/03/2019 02:04	WG1338624
(S) Nitrobenzene-d5	*90.5*			*31.0-160*		*09/03/2019 02:04*	WG1338624
(S) 2-Fluorobiphenyl	*97.4*			*48.0-148*		*09/03/2019 02:04*	WG1338624
(S) p-Terphenyl-d14	*75.3*			*37.0-146*		*09/03/2019 02:04*	WG1338624

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	9.72		1.90	5.00	1	08/30/2019 13:46	WG1337503

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	2570		31.6	100	1	09/02/2019 16:49	WG1338737
(S) a,a,a-Trifluorotoluene(FID)	*97.3*			*78.0-120*		*09/02/2019 16:49*	WG1338737

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	09/06/2019 15:38	WG1341137
Acrylonitrile	U		0.873	5.00	1	09/06/2019 15:38	WG1341137
Benzene	U		0.0896	0.500	1	09/06/2019 15:38	WG1341137
Bromobenzene	U		0.133	0.500	1	09/06/2019 15:38	WG1341137
Bromodichloromethane	U		0.0800	0.500	1	09/06/2019 15:38	WG1341137
Bromochloromethane	U		0.145	0.500	1	09/06/2019 15:38	WG1341137
Bromoform	U		0.186	0.500	1	09/06/2019 15:38	WG1341137
Bromomethane	U		0.157	2.50	1	09/06/2019 15:38	WG1341137
n-Butylbenzene	1.27		0.143	0.500	1	09/06/2019 15:38	WG1341137
sec-Butylbenzene	4.04		0.134	0.500	1	09/06/2019 15:38	WG1341137
tert-Butylbenzene	0.446	J	0.183	0.500	1	09/06/2019 15:38	WG1341137
Carbon disulfide	0.345	J	0.101	0.500	1	09/06/2019 15:38	WG1341137
Carbon tetrachloride	U		0.159	0.500	1	09/06/2019 15:38	WG1341137
Chlorobenzene	U		0.140	0.500	1	09/06/2019 15:38	WG1341137
Chlorodibromomethane	U		0.128	0.500	1	09/06/2019 15:38	WG1341137
Chloroethane	U		0.141	2.50	1	09/06/2019 15:38	WG1341137
Chloroform	U		0.0860	0.500	1	09/06/2019 15:38	WG1341137
Chloromethane	U		0.153	1.25	1	09/06/2019 15:38	WG1341137
2-Chlorotoluene	U		0.111	0.500	1	09/06/2019 15:38	WG1341137
4-Chlorotoluene	U		0.0972	0.500	1	09/06/2019 15:38	WG1341137
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/06/2019 15:38	WG1341137
1,2-Dibromoethane	U		0.193	0.500	1	09/06/2019 15:38	WG1341137
Dibromomethane	U		0.117	0.500	1	09/06/2019 15:38	WG1341137
1,2-Dichlorobenzene	U		0.101	0.500	1	09/06/2019 15:38	WG1341137
1,3-Dichlorobenzene	U		0.130	0.500	1	09/06/2019 15:38	WG1341137
1,4-Dichlorobenzene	U		0.121	0.500	1	09/06/2019 15:38	WG1341137
Dichlorodifluoromethane	U		0.127	2.50	1	09/06/2019 15:38	WG1341137
1,1-Dichloroethane	U		0.114	0.500	1	09/06/2019 15:38	WG1341137
1,2-Dichloroethane	U		0.108	0.500	1	09/06/2019 15:38	WG1341137
1,1-Dichloroethene	U		0.188	0.500	1	09/06/2019 15:38	WG1341137
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/06/2019 15:38	WG1341137
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/06/2019 15:38	WG1341137
1,2-Dichloropropane	U		0.190	0.500	1	09/06/2019 15:38	WG1341137
1,1-Dichloropropene	U		0.128	0.500	1	09/06/2019 15:38	WG1341137
1,3-Dichloropropane	U		0.147	1.00	1	09/06/2019 15:38	WG1341137
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/06/2019 15:38	WG1341137
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/06/2019 15:38	WG1341137
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	09/06/2019 15:38	WG1341137
2,2-Dichloropropane	U		0.0929	0.500	1	09/06/2019 15:38	WG1341137
Di-isopropyl ether	U		0.0924	0.500	1	09/06/2019 15:38	WG1341137
Ethylbenzene	11.5		0.158	0.500	1	09/06/2019 15:38	WG1341137
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/06/2019 15:38	WG1341137
2-Hexanone	U		0.757	5.00	1	09/06/2019 15:38	WG1341137

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
n-Hexane	4.62	J	0.305	5.00	1	09/06/2019 15:38	WG1341137
Iodomethane	U		0.377	10.0	1	09/06/2019 15:38	WG1341137
Isopropylbenzene	12.2		0.126	0.500	1	09/06/2019 15:38	WG1341137
p-Isopropyltoluene	9.43		0.138	0.500	1	09/06/2019 15:38	WG1341137
2-Butanone (MEK)	U		1.28	5.00	1	09/06/2019 15:38	WG1341137
Methylene Chloride	U		1.07	2.50	1	09/06/2019 15:38	WG1341137
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/06/2019 15:38	WG1341137
Methyl tert-butyl ether	U		0.102	0.500	1	09/06/2019 15:38	WG1341137
Naphthalene	2.10	J	0.174	2.50	1	09/06/2019 15:38	WG1341137
n-Propylbenzene	15.7		0.162	0.500	1	09/06/2019 15:38	WG1341137
Styrene	U		0.117	0.500	1	09/06/2019 15:38	WG1341137
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/06/2019 15:38	WG1341137
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/06/2019 15:38	WG1341137
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/06/2019 15:38	WG1341137
Tetrachloroethene	U		0.199	0.500	1	09/06/2019 15:38	WG1341137
Toluene	U		0.412	0.500	1	09/06/2019 15:38	WG1341137
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/06/2019 15:38	WG1341137
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/06/2019 15:38	WG1341137
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/06/2019 15:38	WG1341137
1,1,2-Trichloroethane	U		0.186	0.500	1	09/06/2019 15:38	WG1341137
Trichloroethene	U		0.153	0.500	1	09/06/2019 15:38	WG1341137
Trichlorofluoromethane	U		0.130	2.50	1	09/06/2019 15:38	WG1341137
1,2,3-Trichloropropane	U		0.247	2.50	1	09/06/2019 15:38	WG1341137
1,2,4-Trimethylbenzene	72.2		0.123	0.500	1	09/06/2019 15:38	WG1341137
1,2,3-Trimethylbenzene	9.47		0.0739	0.500	1	09/06/2019 15:38	WG1341137
1,3,5-Trimethylbenzene	14.3		0.124	0.500	1	09/06/2019 15:38	WG1341137
Vinyl acetate	U		0.645	5.00	1	09/06/2019 15:38	WG1341137
Vinyl chloride	U		0.118	0.500	1	09/06/2019 15:38	WG1341137
Xylenes, Total	13.1		0.316	1.50	1	09/06/2019 15:38	WG1341137
tert-Butyl alcohol	7.03	J0 J4	2.40	5.00	1	09/06/2019 15:38	WG1341137
Ethyl tert-butyl ether	U		0.270	1.00	1	09/06/2019 15:38	WG1341137
tert-Amyl Methyl Ether	U		0.260	1.00	1	09/06/2019 15:38	WG1341137
Ethanol	U		42.0	100	1	09/09/2019 15:44	WG1342309
(S) Toluene-d8	*106*			*80.0-120*		*09/06/2019 15:38*	WG1341137
(S) Toluene-d8	*101*			*80.0-120*		*09/09/2019 15:44*	WG1342309
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*09/06/2019 15:38*	WG1341137
(S) 4-Bromofluorobenzene	*92.6*			*77.0-126*		*09/09/2019 15:44*	WG1342309
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/06/2019 15:38*	WG1341137
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/09/2019 15:44*	WG1342309

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00245	0.0102	1.02	09/04/2019 04:37	WG1338717

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	785		133	400	2	09/04/2019 15:25	WG1338613
Residual Range Organics (RRO)	U		167	500	2	09/04/2019 15:25	WG1338613
(S) o-Terphenyl	*71.6*			*52.0-156*		*09/04/2019 15:25*	WG1338613

Sample Narrative:

L1134377-06 WG1338613: Dilution due to matrix impact during extraction procedure

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzo(a)anthracene	U	J4	0.00410	0.0500	1	09/03/2019 02:24	WG1338624
Benzo(a)pyrene	U		0.0116	0.0500	1	09/03/2019 02:24	WG1338624
Benzo(b)fluoranthene	U		0.00212	0.0500	1	09/03/2019 02:24	WG1338624
Benzo(k)fluoranthene	U		0.0136	0.0500	1	09/03/2019 02:24	WG1338624
Chrysene	U		0.0108	0.0500	1	09/03/2019 02:24	WG1338624
Dibenz(a,h)anthracene	U	J3	0.00396	0.0500	1	09/03/2019 02:24	WG1338624
Indeno(1,2,3-cd)pyrene	U	J3	0.0148	0.0500	1	09/03/2019 02:24	WG1338624
Naphthalene	0.583		0.0198	0.250	1	09/03/2019 02:24	WG1338624
1-Methylnaphthalene	0.0383	J	0.00821	0.250	1	09/03/2019 02:24	WG1338624
2-Methylnaphthalene	0.134	J	0.00902	0.250	1	09/03/2019 02:24	WG1338624
(S) Nitrobenzene-d5	*87.9*			*31.0-160*		*09/03/2019 02:24*	WG1338624
(S) 2-Fluorobiphenyl	*95.3*			*48.0-148*		*09/03/2019 02:24*	WG1338624
(S) p-Terphenyl-d14	*73.2*			*37.0-146*		*09/03/2019 02:24*	WG1338624

Method Blank (MB)

(MB) R3446070-1 08/30/19 12:50

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Lead	U		1.90	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3446070-2 08/30/19 12:52 • (LCSD) R3446070-3 08/30/19 12:55

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Lead	1000	995	985	99.5	98.5	80.0-120			1.05	20

L1133848-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1133848-01 08/30/19 12:57 • (MS) R3446070-5 08/30/19 13:03 • (MSD) R3446070-6 08/30/19 13:05

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Lead	1000	13.9	1000	1010	98.6	99.7	1	75.0-125			1.09	20

Method Blank (MB)

(MB) R3447820-3 09/02/19 09:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*106*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3447820-2 09/02/19 08:17

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5660	103	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*90.3*	*78.0-120*	

Method Blank (MB)

(MB) R3448010-4 09/05/19 00:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
1,2-Dichloroethane	U		0.361	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*112*			*80.0-120*
(S) 4-Bromofluorobenzene	*96.0*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3448010-1 09/04/19 23:06 • (LCSD) R3448010-2 09/04/19 23:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	25.0	21.9	24.1	87.6	96.6	70.0-123			9.71	20
1,2-Dichloroethane	25.0	22.0	24.6	87.9	98.3	70.0-128			11.1	20
Ethylbenzene	25.0	20.1	21.3	80.4	85.1	79.0-123			5.72	20
Methyl tert-butyl ether	25.0	22.0	24.6	87.9	98.6	68.0-125			11.4	20
Toluene	25.0	22.0	23.1	88.1	92.2	79.0-120			4.56	20
Xylenes, Total	75.0	58.6	61.8	78.1	82.4	79.0-123	J4		5.32	20
(S) Toluene-d8				*97.1*	*94.5*	*80.0-120*				
(S) 4-Bromofluorobenzene				*85.1*	*84.2*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*105*	*108*	*70.0-130*				

Method Blank (MB)

(MB) R3448239-2 09/06/19 11:05

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

Method Blank (MB)

(MB) R3448239-2 09/06/19 11:05

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
tert-Amyl Methyl Ether	U		0.260	1.00
tert-Butyl alcohol	U		2.40	5.00
Ethyl tert-butyl ether	U		0.270	1.00
(S) Toluene-d8	*103*			*80.0-120*
(S) 4-Bromofluorobenzene	*98.7*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3448239-1 09/06/19 10:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	125	185	148	19.0-160	
Acrylonitrile	125	147	118	55.0-149	
Benzene	25.0	24.7	98.7	70.0-123	
Bromobenzene	25.0	27.1	108	73.0-121	
Bromodichloromethane	25.0	26.5	106	75.0-120	
Bromochloromethane	25.0	25.0	100	76.0-122	
Bromoform	25.0	28.0	112	68.0-132	
Bromomethane	25.0	24.3	97.2	10.0-160	
n-Butylbenzene	25.0	25.4	102	73.0-125	
sec-Butylbenzene	25.0	26.5	106	75.0-125	
tert-Butylbenzene	25.0	27.5	110	76.0-124	
Carbon disulfide	25.0	24.2	96.6	61.0-128	
Carbon tetrachloride	25.0	25.1	100	68.0-126	
Chlorobenzene	25.0	25.0	100	80.0-121	
Chlorodibromomethane	25.0	25.5	102	77.0-125	
Chloroethane	25.0	22.9	91.7	47.0-150	
Chloroform	25.0	25.2	101	73.0-120	
Chloromethane	25.0	22.2	88.8	41.0-142	
2-Chlorotoluene	25.0	27.8	111	76.0-123	
4-Chlorotoluene	25.0	28.3	113	75.0-122	
1,2-Dibromo-3-Chloropropane	25.0	26.1	104	58.0-134	
1,2-Dibromoethane	25.0	26.8	107	80.0-122	
Dibromomethane	25.0	25.3	101	80.0-120	
1,2-Dichlorobenzene	25.0	23.9	95.6	79.0-121	
1,3-Dichlorobenzene	25.0	24.8	99.1	79.0-120	
1,4-Dichlorobenzene	25.0	24.8	99.2	79.0-120	
Dichlorodifluoromethane	25.0	29.8	119	51.0-149	
1,1-Dichloroethane	25.0	24.0	96.1	70.0-126	
1,2-Dichloroethane	25.0	26.0	104	70.0-128	
1,1-Dichloroethene	25.0	25.1	101	71.0-124	
cis-1,2-Dichloroethene	25.0	23.8	95.3	73.0-120	
trans-1,2-Dichloroethene	25.0	25.3	101	73.0-120	
1,2-Dichloropropane	25.0	25.1	101	77.0-125	
1,1-Dichloropropene	25.0	25.2	101	74.0-126	
1,3-Dichloropropane	25.0	26.4	106	80.0-120	
cis-1,3-Dichloropropene	25.0	26.5	106	80.0-123	
trans-1,3-Dichloropropene	25.0	27.0	108	78.0-124	
trans-1,4-Dichloro-2-butene	25.0	25.1	100	33.0-144	
2,2-Dichloropropane	25.0	25.5	102	58.0-130	
Di-isopropyl ether	25.0	26.1	105	58.0-138	

Laboratory Control Sample (LCS)

(LCS) R3448239-1 09/06/19 10:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	25.0	25.1	100	79.0-123	
Hexachloro-1,3-butadiene	25.0	23.4	93.4	54.0-138	
2-Hexanone	125	147	117	67.0-149	
n-Hexane	25.0	25.9	104	57.0-133	
Iodomethane	125	125	100	33.0-147	
Isopropylbenzene	25.0	26.1	104	76.0-127	
p-Isopropyltoluene	25.0	26.5	106	76.0-125	
2-Butanone (MEK)	125	165	132	44.0-160	
Methylene Chloride	25.0	25.2	101	67.0-120	
4-Methyl-2-pentanone (MIBK)	125	147	118	68.0-142	
Methyl tert-butyl ether	25.0	27.3	109	68.0-125	
Naphthalene	25.0	22.3	89.0	54.0-135	
n-Propylbenzene	25.0	28.4	114	77.0-124	
Styrene	25.0	26.4	106	73.0-130	
1,1,1,2-Tetrachloroethane	25.0	25.2	101	75.0-125	
1,1,2,2-Tetrachloroethane	25.0	30.2	121	65.0-130	
1,1,2-Trichlorotrifluoroethane	25.0	26.8	107	69.0-132	
Tetrachloroethene	25.0	25.1	100	72.0-132	
Toluene	25.0	24.4	97.5	79.0-120	
1,2,3-Trichlorobenzene	25.0	23.2	92.9	50.0-138	
1,2,4-Trichlorobenzene	25.0	23.9	95.6	57.0-137	
1,1,1-Trichloroethane	25.0	25.8	103	73.0-124	
1,1,2-Trichloroethane	25.0	26.8	107	80.0-120	
Trichloroethene	25.0	25.3	101	78.0-124	
Trichlorofluoromethane	25.0	26.7	107	59.0-147	
1,2,3-Trichloropropane	25.0	31.9	128	73.0-130	
1,2,4-Trimethylbenzene	25.0	27.7	111	76.0-121	
1,2,3-Trimethylbenzene	25.0	26.0	104	77.0-120	
1,3,5-Trimethylbenzene	25.0	28.5	114	76.0-122	
Vinyl acetate	125	145	116	11.0-160	
Vinyl chloride	25.0	24.9	99.5	67.0-131	
Xylenes, Total	75.0	76.9	103	79.0-123	
tert-Amyl Methyl Ether	25.0	27.8	111	66.0-125	
tert-Butyl alcohol	25.0	230	920	27.0-160	J4
Ethyl tert-butyl ether	25.0	27.3	109	63.0-138	
(S) Toluene-d8			*103*	*80.0-120*	
(S) 4-Bromofluorobenzene			*99.7*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*110*	*70.0-130*	

Method Blank (MB)

(MB) R3449124-2 09/09/19 13:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethanol	U		42.0	100
(S) Toluene-d8	*111*			*80.0-120*
(S) 4-Bromofluorobenzene	*91.0*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3449124-1 09/09/19 11:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethanol	1000	1040	104	10.0-160	
(S) Toluene-d8			*104*	*80.0-120*	
(S) 4-Bromofluorobenzene			*87.9*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*109*	*70.0-130*	

Method Blank (MB)

(MB) R3447007-1 09/03/19 21:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Ethylene Dibromide	U		0.00240	0.0100

L1134148-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1134148-11 09/03/19 22:22 • (DUP) R3447007-3 09/03/19 22:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Ethylene Dibromide	U	0.000	1.02	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3447007-4 09/04/19 00:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Ethylene Dibromide	0.250	0.245	98.0	60.0-140	

Laboratory Control Sample (LCS)

(LCS) R3447007-5 09/04/19 02:49

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Ethylene Dibromide	0.250	0.241	96.4	60.0-140	

L1134225-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1134225-03 09/03/19 21:58 • (MS) R3447007-2 09/03/19 21:45

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	ug/l	ug/l	ug/l	%		%	
Ethylene Dibromide	0.101	ND	0.106	105	1.01	64.0-159	

Method Blank (MB)

(MB) R3447008-1 09/04/19 03:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Ethylene Dibromide	U		0.00240	0.0100

L1134377-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1134377-03 09/04/19 04:01 • (DUP) R3447008-3 09/04/19 03:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Ethylene Dibromide	U	0.000	1.02	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3447008-4 09/04/19 06:02 • (LCSD) R3447008-5 09/04/19 08:28

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Ethylene Dibromide	0.250	0.246	0.240	98.4	96.0	60.0-140			2.47	20

L1134674-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1134674-07 09/04/19 03:37 • (MS) R3447008-2 09/04/19 03:25

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	ug/l	ug/l	ug/l	%		%	
Ethylene Dibromide	0.101	U	0.112	111	1.01	64.0-159	

Method Blank (MB)

(MB) R3447170-1 09/04/19 05:22

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
(S) o-Terphenyl	*88.0*			*52.0-156*

Laboratory Control Sample (LCS)

(LCS) R3447170-2 09/04/19 05:42

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Diesel Range Organics (DRO)	1500	1490	99.3	50.0-150	
(S) o-Terphenyl			*91.0*	*52.0-156*	

L1134351-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1134351-11 09/04/19 11:04 • (MS) R3447170-3 09/04/19 11:24 • (MSD) R3447170-4 09/04/19 11:44

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Diesel Range Organics (DRO)	1500	ND	1620	1540	99.3	94.0	1	50.0-150			5.06	20
(S) o-Terphenyl					*89.5*	*90.5*		*52.0-156*				

Method Blank (MB)

(MB) R3446545-2 09/02/19 21:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzo(a)anthracene	U		0.00410	0.0500
Benzo(a)pyrene	U		0.0116	0.0500
Benzo(b)fluoranthene	U		0.00212	0.0500
Benzo(k)fluoranthene	U		0.0136	0.0500
Chrysene	U		0.0108	0.0500
Dibenz(a,h)anthracene	U		0.00396	0.0500
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500
Naphthalene	0.0291	J	0.0198	0.250
1-Methylnaphthalene	U		0.00821	0.250
2-Methylnaphthalene	U		0.00902	0.250
(S) Nitrobenzene-d5	*123*			*31.0-160*
(S) 2-Fluorobiphenyl	*99.0*			*48.0-148*
(S) p-Terphenyl-d14	*124*			*37.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3446545-3 09/02/19 22:15 • (LCSD) R3446545-1 09/02/19 21:13

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzo(a)anthracene	2.00	2.89	2.38	144	119	61.0-140	J4		19.4	20
Benzo(a)pyrene	2.00	2.77	2.56	138	128	60.0-143			7.88	20
Benzo(b)fluoranthene	2.00	2.68	2.44	134	122	58.0-141			9.37	20
Benzo(k)fluoranthene	2.00	2.63	2.49	132	124	58.0-148			5.47	20
Chrysene	2.00	2.71	2.49	135	124	64.0-144			8.46	20
Dibenz(a,h)anthracene	2.00	2.69	1.23	135	61.5	52.0-155		J3	74.5	20
Indeno(1,2,3-cd)pyrene	2.00	2.70	1.23	135	61.5	54.0-153		J3	74.8	20
Naphthalene	2.00	2.51	2.23	125	111	61.0-137			11.8	20
1-Methylnaphthalene	2.00	2.46	2.17	123	108	66.0-142			12.5	20
2-Methylnaphthalene	2.00	2.36	2.18	118	109	62.0-136			7.93	20
(S) Nitrobenzene-d5				*131*	*120*	*31.0-160*				
(S) 2-Fluorobiphenyl				*122*	*139*	*48.0-148*				
(S) p-Terphenyl-d14				*117*	*74.5*	*37.0-146*				

Sample Narrative:

LCS: QC bias high, reporting BDLs only for the impacted targets, data not impacted.

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration met method criteria.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

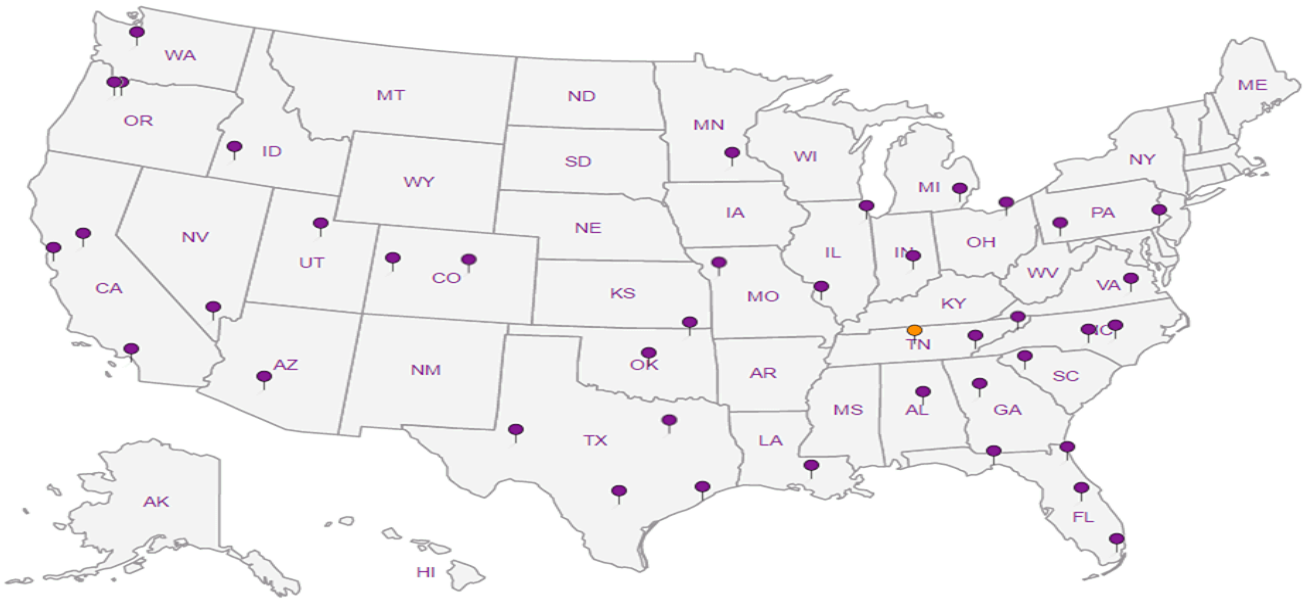
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



ARCADIS US - Seattle, WA

1100 Olive Way
Suite 800
Seattle, WA 98101

Billing Information:
Attn: Accounts Payable
630 Plaza Dr., Ste. 600
Highlands Ranch, CO 80129

Pres Chk

Report to: Ross LaGrandeur

Email To: Ross.LaGrandeur@arcadis.com; Ryan.Brauchla@arcadis.com;

Project Description: WA-11060

City/State Collected:

Please Circle: PT MT CT ET

Phone: 509-438-9828
Fax:

Client Project # 30014464

Lab Project # ARCABPWA-WA11060

Collected by (print): KILEY ZAUBI

Site/Facility ID # 4580 FAUNTLEROY WAY SW,

P.O. #

Collected by (signature): KCZ
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEXM,EDC 8260C 40mlAmb-HCl	EDB (SV8011) 40mlClr-NaThio	HOLD - Diss Pb 6010 250mlHDPE-NoPres	NWTPHDX LVINOSGT 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	PAHs (PAHSIMLVID) 40mlAmb-NoPres-WT	Total Pb 6010 250mlHDPE-HNO3	VOC+OXYs 8260LLC 40mlAmb-HCl			Remarks	Sample # (lab only)
MW-9	G	GW		8/27/19	1306	15		X	X	X	X	X	X	X				-01
MW-11	G	GW		8/27/19	1445	15		X	X	X	X	X	X	X				02
MW-6	G	GW		8/27/19	1500	15	X	X	X	X	X	X	X					03
MW-12	G	GW		8/27/19	1600	15		X	X	X	X	X	X	X				04
GMW-1	G	GW		8/27/19	1625	15		X	X	X	X	X	X	X				05
DUP-1	G	GW		8/27/19	—	15		X	X	X	X	X	X	X				06
		GW																
		GW																
		GW																
		GW																

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
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SDG # 1134377

Tab C207

Acctnum: ARCABPWA

Template: T154503

Prelogin: P724831

PM: 110 - Brian Ford

PB: TB 8-19-19

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
STAT
RAD SCREEN: <0.5 mR/hr

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__UPS __FedEx __Courier _____

Tracking # 4510 1661 9988

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

	Date:	Time:		
Relinquished by : (Signature)	8/28/19	1433	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR: 3
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2 °C 0.6+2=0.7 Bottles Received: 90
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8/29 Time: 0845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK