



Remediation Management Services Company

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July 27, 2023

Washington Department of Ecology
Northwest Regional Office
Attn: Mr. Michael Warfel
15700 Dayton Avenue North
Shoreline, WA 98133

Dear Mr. Warfel:

Please find the enclosed Semi-Annual Groundwater Monitoring Report – First Half of 2023, that documents the results at Former BP Facility No. 11060 located at 4580 Fauntleroy Way SW, Seattle, Washington.

Sincerely yours,

A handwritten signature in blue ink, appearing to read 'Wade Melton', written over a light blue rectangular background.

Wade Melton
Operations Project Manager
Remediation Management Services Company
An affiliate of Atlantic Richfield Company

cc: File, Antea Group



Semi-Annual Groundwater Monitoring Report

First Half of 2023
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, Washington

Antea[®]Group

Understanding today.
Improving tomorrow.

PREPARED FOR

Remediation Management Services
Company

An affiliate of Atlantic Richfield Company
4 Centerpointe Drive, Suite 200
Room LPR-4-222
La Palma, CA 90623

PREPARED BY

Antea Group – Seattle, WA
July 27, 2023

Project No. WA – 11060 Seattle
FSID No. 99437681

us.anteagroup.com

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Semi-Annual Groundwater Monitoring Report

First Half of 2023

Former ARCO Facility No. 11060

4580 Fauntleroy Way SW, Seattle, Washington

Former BP Facility No.	11060
Address	4580 Fauntleroy Way SW, Seattle, Washington
Atlantic Richfield Project Manager	Wade Melton, +1 360 594 7978
Consulting Co. /Contact Person	Antea Group / Lonnie Dent, +1 303 807 3627
Consultant Project Number	WA – 11060 Seattle
Ecology Facility Site ID No./VCP ID No.	Washington State Department of Ecology FSID # 99437681 / VCP # NW3308

WORK PERFORMED DURING FIRST HALF OF 2023

- Antea Group conducted routine remediation system operation and maintenance (O&M) with data collection on January 18, February 24, March 31, April 21, and June 29, 2023.
- Antea Group performed non-routine remediation system O&M activity on January 13, January 16, May 18, and June 29, 2023.
- Antea Group conducted quarterly groundwater monitoring and sampling on February 27 and May 25, 2023.
- During the sampling event on February 27, 2023, monitoring wells MW-1, and MW-5 did not contain sufficient groundwater to collect samples for laboratory analyses. MW-4 was also dry, but deployed passive diffusion bags (PDBs) in MW-4 did contain water so a sample was collected from the PDB.
- During the sampling event on May 25, 2023, monitoring wells MW-1, and MW-5 did not contain sufficient groundwater to collect samples for laboratory analyses. MW-4 was also dry, but deployed PDBs in MW-4 did contain water so a sample was collected from the PDB.
- Antea Group prepared this semi-annual groundwater monitoring report.

WORK SCHEDULED FOR SECOND HALF OF 2023

- Antea Group will conduct quarterly groundwater monitoring and sampling.
- Antea Group will conduct remediation system O&M.
- Antea Group will prepare a workplan for subsurface investigation (SSI).
- Antea Group will conduct a subsurface investigation (SSI) to close data gaps.
- Antea Group will prepare a semi-annual groundwater monitoring and SSI report.

Current Phase of Project	Remediation	
Frequency of Groundwater Sampling and Monitoring	Quarterly	
Are LPH Present On-Site	None	
LPH Recovered this Reporting Period	None	
Cumulative LPH Recovered to Date	Unknown	
Amount of Soil Removed to Date	Unknown	
Current Remediation Techniques	SVE system operation	
Approximate Depth to Groundwater	February 27, 2023 May 25, 2023	18.10- 25.85 ft. 22.40 – 27.62 ft.
Groundwater Gradient	February 27, 2023 May 25, 2023	East 0.080 ft./linear ft. Southeast 0.034 ft./linear ft.

REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

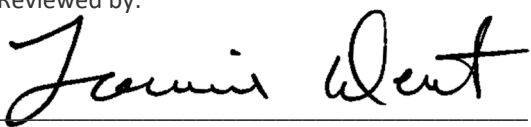
Prepared by



Nathan Han
Project Professional

Date: July 27, 2023

Reviewed by:



Lonnie Dent
Senior Project Manager

Date: July 27, 2023

Reviewed by:



Megan Richard, LG
Senior Project Manager

Date: July 27, 2023

cc: Mr. Michael Warfel, Washington Department of Ecology, Northwest Regional Office (Hardcopy, Electronic Copy)
Mr. Richard Wright, Jackson Energy (Electronic Copy)
Mr. Ken Lederman, McCullough Hill Leary P.S (Electronic Copy)
Mr. Nathan Block, BP Legal (Electronic Copy)
Mr. Wade Melton, Remediation Management Services Company (Electronic Copy - RMO Upload)
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CONTACT INFORMATION

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Tables

Table 1 - Groundwater Gauging Data

Table 2 - Groundwater Analytical Data

Table 3 - PAH Groundwater Analytical Data

Table 4 - Select VOCs Groundwater Analytical Data

Table 5 - Baseline Bioparameter Groundwater Analytical Data

Table 6 - SVE/AS System Operational Data

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
AS-1	5/7/2015	--	23.30	NP	--	--	NS
AS-1	3/2/2016	--	23.31	NP	--	--	NS
AS-2	3/2/2016	--	21.18	NP	--	--	NS
AS-3	3/2/2016	--	21.63	NP	--	--	NS
AS-4	3/2/2016	--	21.65	NP	--	--	NS
AS-5	3/2/2016	--	--	--	--	--	Dry
AS-6	3/2/2016	--	25.61	NP	--	--	NS
CW-2	3/2/2016	--	19.53	NP	--	--	NS
CW-3	3/2/2016	--	21.57	NP	--	--	NS
CW-4	3/2/2016	--	20.61	NP	--	--	NS
EW-1	5/9/2013	268.20	24.49	24.32	0.17	243.85	--
EW-1	5/7/2015	268.20	25.75	24.73	1.02	243.27	--
EW-1	3/2/2016	268.20	24.81	NP	--	243.39	NS
EW-1	6/6/2016	268.20	25.94	25.28	0.66	242.79	--
EW-1	9/12/2016	268.20	26.89	26.16	0.73	241.89	--
EW-1	12/12/2016	268.20	25.49	24.70	0.79	243.34	--
EW-1	2/22/2017	268.20	24.98	24.20	0.78	243.84	--
EW-1	8/29/2017	268.20	26.28	25.68	0.60	242.40	--
EW-1	10/25/2018	268.20	27.52	NP	--	240.68	NS
EW-1	2/20/2019	268.20	26.85	NP	--	241.35	NS
EW-1	5/14/2019	268.20	27.18	NP	--	241.02	NS
EW-1	8/27/2019	268.20	27.83	NP	--	240.37	NS
EW-1	11/25/2019	268.20	27.84	NP	--	240.36	NS
EW-1	3/25/2020	268.20	26.50	NP	--	241.70	NS
EW-1	8/6/2020	268.20	26.85	NP	--	241.35	NS
EW-2	5/9/2013	267.93	24.11	NP	--	243.82	NS
EW-2	5/7/2015	267.93	24.78	NP	--	243.15	NS
EW-2	3/2/2016	267.93	24.80	NP	--	243.13	NS
EW-2	6/6/2016	267.93	25.17	NP	--	242.76	NS
EW-2	9/12/2016	267.93	26.22	NP	--	241.71	NS
EW-2	12/12/2016	267.93	24.64	NP	--	243.29	NS
EW-2	2/22/2017	267.93	24.10	NP	--	243.83	NS
EW-2	8/29/2017	267.93	25.56	NP	--	242.37	NS
EW-2	10/25/2018	267.93	27.30	NP	--	240.63	NS

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Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
EW-2	2/20/2019	267.93	26.52	NP	--	241.41	NS
EW-2	5/14/2019	267.93	26.96	NP	--	240.97	NS
EW-2	8/27/2019	267.93	27.65	NP	--	240.28	NS
EW-2	11/25/2019	267.93	27.81	NP	--	240.12	NS
EW-2	3/25/2020	267.93	26.21	NP	--	241.72	NS
EW-2	8/6/2020	267.93	26.61	NP	--	241.32	NS
EW-3	5/9/2013	268.50	24.90	24.59	0.31	243.85	--
EW-3	5/7/2015	268.50	25.77	23.23	2.54	244.76	--
EW-3	3/2/2016	268.50	25.44	25.19	0.25	243.26	--
EW-3	9/12/2016	268.50	27.17	25.63	1.54	242.56	--
EW-3	12/12/2016	268.50	25.58	24.75	0.83	243.58	--
EW-3	2/22/2017	268.50	25.06	24.22	0.84	244.11	--
EW-3	8/29/2017	268.50	26.75	25.99	0.76	242.36	--
EW-3	10/25/2018	268.50	27.81	NP	--	240.69	NS
EW-3	2/20/2019	268.50	26.93	NP	--	241.57	NS
EW-3	5/14/2019	268.50	27.45	NP	--	241.05	NS
EW-3	8/27/2019	268.50	27.98	NP	--	240.52	NS
EW-3	11/25/2019	268.50	27.98	NP	--	240.52	NS
EW-3	3/25/2020	268.50	26.69	NP	--	241.81	NS
EW-3	8/6/2020	268.50	27.11	NP	--	241.39	NS
GMW-1	5/10/2011	--	22.08	NP	--	--	--
GMW-1	11/29/2011	--	23.83	NP	--	--	--
GMW-1	6/1/2012	--	--	--	--	--	NM
GMW-1	11/29/2012	265.63	--	--	--	--	NM
GMW-1	5/9/2013	265.63	22.58	NP	--	243.05	--
GMW-1	11/19/2013	265.63	24.00	NP	--	241.63	--
GMW-1	5/13/2014	265.63	22.83	NP	--	242.80	NS
GMW-1	5/14/2014	265.63	--	--	--	--	--
GMW-1	5/7/2015	265.63	23.48	NP	--	242.15	--
GMW-1	3/2/2016	265.63	22.48	NP	--	243.15	--
GMW-1	6/6/2016	265.63	23.51	NP	--	242.12	--
GMW-1	9/12/2016	265.63	24.89	NP	--	240.74	--
GMW-1	12/12/2016	265.63	22.95	NP	--	242.68	--
GMW-1	2/22/2017	265.63	22.02	NP	--	243.61	--
GMW-1	8/29/2017	265.63	23.86	NP	--	241.77	--
GMW-1	3/13/2018	265.63	23.20	NP	--	242.43	--
GMW-1	10/25/2018	265.63	26.22	26.16	0.06	239.46	--
GMW-1	2/20/2019	265.63	24.34	NP	--	241.29	--
GMW-1	5/13/2019	265.63	25.28	NP	--	240.35	--
GMW-1	8/27/2019	265.63	26.68	NP	--	238.95	--
GMW-1	11/25/2019	265.63	26.95	26.90	0.05	238.72	NS
GMW-1	3/25/2020	265.63	24.91	NP	--	240.72	--

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4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
GMW-1	6/2/2020	265.63	25.05	NP	--	240.58	--
GMW-1	8/6/2020	265.63	25.92	NP	--	239.71	--
GMW-1	12/10/2020	265.63	25.50	25.49	0.01	240.14	--
GMW-1	3/8/2021	265.63	23.35	NP	--	242.28	--
GMW-1	6/9/2021	265.63	24.62	NP	--	241.01	--
GMW-1	9/13/2021	265.63	26.70	NP	--	238.93	Dry
GMW-1	12/7/2021	265.63	24.55	NP	--	241.08	--
GMW-1	9/22/2022	265.63	25.45	NP	--	240.18	--
GMW-1	11/29/2022	265.63	26.24	NP	--	239.39	--
GMW-1	2/27/2023	265.63	24.34	NP	--	241.29	--
GMW-1	5/25/2023	265.63	24.30	NP	--	241.33	--
MW-1	5/11/1993	99.89	23.02	NP	--	76.87	--
MW-1	3/4/1994	99.89	24.32	NP	--	75.57	--
MW-1	7/6/1994	99.89	24.60	NP	--	75.29	--
MW-1	10/7/1994	99.89	24.97	NP	--	74.92	--
MW-1	12/28/1994	99.89	24.86	NP	--	75.03	--
MW-1	3/13/1995	99.89	24.16	NP	--	75.73	--
MW-1	6/30/1995	99.89	23.98	NP	--	75.91	--
MW-1	9/6/1995	99.89	24.30	NP	--	75.59	--
MW-1	12/8/1995	99.89	24.41	NP	--	75.48	--
MW-1	3/11/1996	99.89	23.11	NP	--	76.78	--
MW-1	6/18/1996	99.89	22.80	NP	--	77.09	--
MW-1	9/9/1996	99.89	23.11	NP	--	76.78	--
MW-1	12/11/1996	99.89	23.07	NP	--	76.82	--
MW-1	3/13/1997	99.89	22.12	NP	--	77.77	--
MW-1	6/5/1997	99.89	21.75	NP	--	78.14	--
MW-1	9/5/1997	99.89	22.03	NP	--	77.86	--
MW-1	4/2/1998	99.89	21.27	NP	--	78.62	--
MW-1	6/8/1998	99.89	21.53	NP	--	78.36	--
MW-1	12/9/1998	99.89	22.22	NP	--	77.67	--
MW-1	6/26/1999	99.89	21.08	NP	--	78.81	--
MW-1	9/28/1999	99.89	21.88	NP	--	78.01	--
MW-1	1/19/2000	99.89	21.46	NP	--	78.43	--
MW-1	3/24/2000	99.89	21.40	NP	--	78.49	--
MW-1	7/2/2000	99.89	21.92	NP	--	77.97	--
MW-1	9/14/2000	99.89	22.54	NP	--	77.35	--
MW-1	12/14/2000	99.89	22.81	NP	--	77.08	--
MW-1	9/22/2001	99.89	23.55	NP	--	76.34	--
MW-1	12/9/2001	99.89	23.63	NP	--	76.26	--
MW-1	3/20/2002	99.89	22.88	NP	--	77.01	--
MW-1	6/11/2002	99.89	23.02	NP	--	76.87	--
MW-1	12/21/2002	99.89	24.54	NP	--	75.35	NS
MW-1	3/19/2003	99.89	24.50	NP	--	75.39	NS

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Former ARCO Facility No. 11060
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		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-1	6/18/2003	99.89	24.36	NP	--	75.53	NS
MW-1	9/23/2003	99.89	--	--	--	--	NS
MW-1	10/21/2003	99.89	25.04	NP	--	74.85	--
MW-1	6/29/2004	99.89	24.22	NP	--	75.67	NS
MW-1	11/15/2004	99.89	25.11	NP	--	74.78	NS
MW-1	4/14/2005	99.89	25.10	NP	--	74.79	NS
MW-1	12/18/2005	99.89	25.46	NP	--	74.43	--
MW-1	6/11/2006	99.89	24.54	NP	--	75.35	--
MW-1	11/5/2006	99.89	25.59	NP	--	74.30	--
MW-1	9/25/2007	99.89	25.08	NP	--	74.81	--
MW-1	12/31/2007	99.89	25.23	NP	--	74.66	--
MW-1	5/29/2008	99.89	25.01	NP	--	74.88	--
MW-1	10/28/2008	99.89	25.80	NP	--	74.09	--
MW-1	6/22/2009	99.89	26.11	NP	--	73.78	--
MW-1	12/15/2009	99.89	26.31	NP	--	73.58	--
MW-1	5/24/2010	267.43	25.20	NP	--	242.23	--
MW-1	10/12/2010	267.43	25.09	NP	--	242.34	--
MW-1	5/10/2011	267.43	23.60	NP	--	243.83	--
MW-1	11/29/2011	267.43	24.84	NP	--	242.59	--
MW-1	6/1/2012	267.43	23.67	NP	--	243.76	--
MW-1	11/29/2012	267.43	24.00	NP	--	243.43	--
MW-1	5/9/2013	267.43	23.79	NP	--	243.64	--
MW-1	11/19/2013	267.43	25.30	NP	--	242.13	--
MW-1	5/13/2014	267.43	24.12	NP	--	243.31	--
MW-1	5/7/2015	267.43	24.26	NP	--	243.17	--
MW-1	3/2/2016	267.43	24.53	NP	--	242.90	--
MW-1	6/6/2016	267.43	24.82	NP	--	242.61	NS
MW-1	9/12/2016	267.43	26.88	NP	--	240.55	IW
MW-1	12/12/2016	267.43	24.76	NP	--	242.67	NS
MW-1	2/22/2017	267.43	24.11	NP	--	243.32	--
MW-1	8/29/2017	267.43	25.20	NP	--	242.23	--
MW-1	3/13/2018	267.43	25.35	NP	--	242.08	--
MW-1	10/25/2018	267.43	26.43	NP	--	241.00	NS
MW-1	2/20/2019	267.43	26.37	NP	--	241.06	NS
MW-1	2/22/2019	267.43	26.33	NP	--	241.10	--
MW-1	5/14/2019	267.43	26.70	NP	--	240.73	--
MW-1	8/27/2019	267.43	27.20	NP	--	240.23	NS
MW-1	11/25/2019	267.43	27.21	NP	--	240.22	NS
MW-1	3/26/2020	267.43	26.02	NP	--	241.41	--
MW-1	6/3/2020	267.43	25.92	NP	--	241.51	--
MW-1	8/6/2020	267.43	26.32	NP	--	241.11	--
MW-1	12/10/2020	267.43	--	--	--	--	Dry
MW-1	3/8/2021	267.43	25.27	NP	--	242.16	--
MW-1	6/9/2021	267.43	25.76	25.76	0.00	241.67	--

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Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-1	9/13/2021	267.43	26.77	NP	--	240.66	Dry
MW-1	12/7/2021	--	--	--	--	--	Dry
MW-1	3/8/2022	267.43	25.89	NP	--	241.54	--
MW-1	6/22/2022	267.43	26.07	NP	--	241.36	--
MW-1	9/22/2022	267.43	26.81	NP	--	240.62	--
MW-1	11/29/2022	267.43	27.20	NP	--	240.23	IW
MW-1	12/12/2022	267.43	27.16	NP	--	240.27	--
MW-1	2/27/2023	267.43	--	NP	--	--	Dry
MW-1	5/25/2023	267.43	--	NP	--	--	Dry
MW-2	5/11/1993	99.05	22.98	NP	--	76.07	--
MW-2	3/4/1994	99.05	24.30	NP	--	74.75	--
MW-2	7/6/1994	99.05	24.54	NP	--	74.51	--
MW-2	10/7/1994	99.05	24.94	NP	--	74.11	--
MW-2	12/28/1994	99.05	24.60	NP	--	74.45	--
MW-2	3/13/1995	99.05	23.84	NP	--	75.21	--
MW-2	6/30/1995	99.05	23.72	NP	--	75.33	--
MW-2	9/6/1995	99.05	23.97	NP	--	75.08	--
MW-2	12/8/1995	99.05	23.97	NP	--	75.08	--
MW-2	3/11/1996	99.05	22.66	NP	--	76.39	--
MW-2	6/18/1996	99.05	22.18	NP	--	76.87	--
MW-2	9/9/1996	99.05	22.72	NP	--	76.33	--
MW-2	12/11/1996	99.05	22.67	NP	--	76.38	--
MW-2	3/13/1997	99.05	21.91	NP	--	77.14	--
MW-2	6/5/1997	99.05	21.06	NP	--	77.99	--
MW-2	9/5/1997	99.05	21.74	NP	--	77.31	--
MW-2	4/2/1998	99.05	20.71	NP	--	78.34	--
MW-2	6/8/1998	99.05	21.25	NP	--	77.80	--
MW-2	9/17/1998	99.05	22.10	NP	--	76.95	--
MW-2	12/9/1998	99.05	21.99	NP	--	77.06	--
MW-2	3/17/1999	99.05	19.67	NP	--	79.38	--
MW-2	6/26/1999	99.05	21.26	NP	--	77.79	--
MW-2	9/28/1999	99.05	21.75	NP	--	77.30	--
MW-2	1/19/2000	99.05	21.12	NP	--	77.93	--
MW-2	3/24/2000	99.05	20.74	NP	--	78.31	--
MW-2	7/2/2000	99.05	21.51	NP	--	77.54	--
MW-2	9/14/2000	99.05	22.31	NP	--	76.74	--
MW-2	12/14/2000	99.05	22.97	NP	--	76.08	--
MW-2	9/22/2001	99.05	23.59	NP	--	75.46	--
MW-2	12/9/2001	99.05	23.27	NP	--	75.78	--
MW-2	3/20/2002	99.05	22.41	NP	--	76.64	--
MW-2	6/11/2002	99.05	22.61	NP	--	76.44	--
MW-2	12/21/2002	99.05	24.30	NP	--	74.75	--
MW-2	3/19/2003	99.05	23.90	NP	--	75.15	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-2	6/18/2003	99.05	23.87	NP	--	75.18	--
MW-2	9/23/2003	99.05	24.33	NP	--	74.72	--
MW-2	10/21/2003	99.05	24.38	NP	--	74.67	--
MW-2	6/29/2004	99.05	23.74	NP	--	75.31	--
MW-2	11/15/2004	99.05	24.70	NP	--	74.35	--
MW-2	4/14/2005	99.05	24.69	NP	--	74.36	--
MW-2	12/18/2005	99.05	25.15	NP	--	73.90	--
MW-2	6/11/2006	99.05	24.01	NP	--	75.04	--
MW-2	11/5/2006	99.05	25.40	NP	--	73.65	--
MW-2	9/25/2007	99.05	24.72	NP	--	74.33	--
MW-2	12/31/2007	99.05	24.67	NP	--	74.38	--
MW-2	5/29/2008	99.05	24.73	NP	--	74.32	--
MW-2	10/28/2008	99.05	25.74	NP	--	73.31	--
MW-2	6/22/2009	99.05	25.91	NP	--	73.14	--
MW-2	12/15/2009	99.05	25.87	NP	--	73.18	--
MW-2	5/24/2010	266.69	24.64	NP	--	242.05	--
MW-2	10/12/2010	266.69	25.03	NP	--	241.66	--
MW-2	5/10/2011	266.69	23.23	NP	--	243.46	--
MW-2	11/29/2011	266.69	24.82	NP	--	241.87	--
MW-2	6/1/2012	266.69	23.60	NP	--	243.09	--
MW-2	11/29/2012	266.69	23.86	NP	--	242.83	--
MW-2	5/9/2013	266.69	23.41	NP	--	243.28	--
MW-2	11/19/2013	266.69	24.40	NP	--	242.29	--
MW-2	5/13/2014	266.69	23.74	NP	--	242.95	--
MW-2	5/7/2015	266.69	24.14	NP	--	242.55	--
MW-2	3/2/2016	266.69	23.79	NP	--	242.90	--
MW-2	6/6/2016	266.69	24.49	NP	--	242.20	--
MW-2	9/12/2016	266.69	26.69	NP	--	240.00	--
MW-2	12/12/2016	266.69	23.96	NP	--	242.73	--
MW-2	2/22/2017	266.69	23.18	NP	--	243.51	--
MW-2	8/29/2017	266.69	24.86	NP	--	241.83	--
MW-2	3/13/2018	266.69	24.45	NP	--	242.24	--
MW-2	10/25/2018	266.69	26.85	NP	--	239.84	--
MW-2	2/20/2019	266.69	25.27	NP	--	241.42	--
MW-2	5/14/2019	266.69	26.20	NP	--	240.49	--
MW-2	8/27/2019	266.69	27.30	NP	--	239.39	NS
MW-2	11/26/2019	266.69	27.29	NP	--	239.40	--
MW-2	3/26/2020	266.69	25.44	NP	--	241.25	--
MW-2	6/3/2020	266.69	25.60	NP	--	241.09	--
MW-2	8/7/2020	266.69	26.22	NP	--	240.47	--
MW-2	12/10/2020	266.69	24.06	NP	--	242.63	--
MW-2	3/8/2021	266.69	24.32	NP	--	242.37	--
MW-2	6/9/2021	266.69	25.45	NP	--	241.24	--
MW-2	9/13/2021	266.69	27.79	NP	--	238.90	Dry

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-2	12/7/2021	266.69	25.12	NP	--	241.57	--
MW-2	3/8/2022	266.69	24.48	NP	--	242.21	--
MW-2	6/22/2022	266.69	25.03	NP	--	241.66	--
MW-2	9/22/2022	266.69	26.51	NP	--	240.18	--
MW-2	11/29/2022	266.69	25.93	NP	--	240.76	--
MW-2	2/27/2023	266.69	25.08	NP	--	241.61	--
MW-2	5/25/2023	266.69	25.52	NP	--	241.17	--
MW-3	6/7/1993	98.53	22.28	NP	--	76.25	--
MW-3	3/4/1994	98.53	23.62	NP	--	74.91	--
MW-3	7/6/1994	98.53	23.84	NP	--	74.69	--
MW-3	10/7/1994	98.53	24.21	NP	--	74.32	--
MW-3	12/28/1994	98.53	23.91	NP	--	74.62	--
MW-3	3/13/1995	98.53	23.12	NP	--	75.41	--
MW-3	6/30/1995	98.53	23.87	NP	--	74.66	--
MW-3	9/6/1995	98.53	23.14	NP	--	75.39	--
MW-3	12/8/1995	98.53	23.20	NP	--	75.33	--
MW-3	3/11/1996	98.53	21.63	NP	--	76.90	--
MW-3	6/18/1996	98.53	21.20	NP	--	77.33	--
MW-3	9/9/1996	98.53	21.67	NP	--	76.86	--
MW-3	12/11/1996	98.53	21.87	NP	--	76.66	--
MW-3	3/13/1997	98.53	20.67	NP	--	77.86	--
MW-3	6/5/1997	98.53	19.83	NP	--	78.70	--
MW-3	9/5/1997	98.53	20.72	NP	--	77.81	--
MW-3	4/2/1998	98.53	19.63	NP	--	78.90	--
MW-3	6/8/1998	98.53	20.26	NP	--	78.27	--
MW-3	9/17/1998	98.53	21.21	NP	--	77.32	--
MW-3	12/9/1998	98.53	21.06	NP	--	77.47	--
MW-3	3/17/1999	98.53	18.72	NP	--	79.81	--
MW-3	6/26/1999	98.53	19.92	NP	--	78.61	--
MW-3	9/28/1999	98.53	20.79	NP	--	77.74	--
MW-3	1/19/2000	98.53	20.19	NP	--	78.34	--
MW-3	3/24/2000	98.53	19.64	NP	--	78.89	--
MW-3	7/2/2000	98.53	20.53	NP	--	78.00	--
MW-3	9/14/2000	98.53	21.34	NP	--	77.19	--
MW-3	12/14/2000	98.53	21.90	NP	--	76.63	--
MW-3	9/22/2001	98.53	22.82	NP	--	75.71	--
MW-3	12/9/2001	98.53	22.50	NP	--	76.03	--
MW-3	3/20/2002	98.53	21.55	NP	--	76.98	--
MW-3	6/11/2002	98.53	21.69	NP	--	76.84	--
MW-3	12/21/2002	98.53	24.37	NP	--	74.16	--
MW-3	3/19/2003	98.53	23.17	NP	--	75.36	NS
MW-3	6/18/2003	98.53	22.82	NP	--	75.71	--
MW-3	9/23/2003	98.53	23.55	NP	--	74.98	NS

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-3	10/21/2003	98.53	23.52	NP	--	75.01	--
MW-3	6/29/2004	98.53	--	--	--	--	NS
MW-3	11/15/2004	98.53	23.95	NP	--	74.58	--
MW-3	4/14/2005	98.53	23.90	NP	--	74.63	--
MW-3	12/18/2005	98.53	24.42	NP	--	74.11	--
MW-3	6/11/2006	98.53	23.48	NP	--	75.05	--
MW-3	11/5/2006	98.53	24.59	NP	--	73.94	--
MW-3	9/25/2007	98.53	23.84	NP	--	74.69	--
MW-3	12/31/2007	98.53	23.83	NP	--	74.70	--
MW-3	5/29/2008	98.53	23.90	NP	--	74.63	--
MW-3	10/28/2008	98.53	24.97	NP	--	73.56	--
MW-3	6/22/2009	98.53	25.29	NP	--	73.24	--
MW-3	12/15/2009	98.53	25.14	NP	--	73.39	--
MW-3	5/24/2010	266.00	24.10	NP	--	241.90	--
MW-3	10/12/2010	266.00	24.40	NP	--	241.60	--
MW-3	5/10/2011	266.00	22.55	NP	--	243.45	--
MW-3	11/29/2011	266.00	24.19	NP	--	241.81	--
MW-3	6/1/2012	266.00	22.94	NP	--	243.06	--
MW-3	11/29/2012	266.00	22.90	NP	--	243.10	--
MW-3	5/9/2013	266.00	22.72	NP	--	243.28	--
MW-3	11/19/2013	266.00	24.30	NP	--	241.70	--
MW-3	5/13/2014	266.00	22.95	NP	--	243.05	--
MW-3	5/7/2015	266.00	23.52	NP	--	242.48	--
MW-3	3/2/2016	266.00	22.12	NP	--	243.88	--
MW-3	6/6/2016	266.00	23.76	NP	--	242.24	--
MW-3	9/12/2016	266.00	25.08	NP	--	240.92	--
MW-3	12/12/2016	266.00	22.42	NP	--	243.58	--
MW-3	2/22/2017	266.00	20.02	NP	--	245.98	--
MW-3	8/29/2017	266.00	24.09	NP	--	241.91	--
MW-3	3/13/2018	266.00	23.22	NP	--	242.78	--
MW-3	10/25/2018	266.00	26.11	NP	--	239.89	--
MW-3	2/20/2019	266.00	23.86	NP	--	242.14	NS
MW-3	5/14/2019	266.00	25.42	NP	--	240.58	--
MW-3	8/27/2019	266.00	26.38	NP	--	239.62	NS
MW-3	11/25/2019	266.00	24.70	NP	--	241.30	--
MW-3	3/26/2020	266.00	25.79	NP	--	240.21	--
MW-3	6/2/2020	266.00	24.64	NP	--	241.36	NS
MW-3	8/7/2020	266.00	25.53	NP	--	240.47	--
MW-3	12/10/2020	266.00	24.59	NP	--	241.41	--
MW-3	3/8/2021	266.00	23.11	NP	--	242.89	--
MW-3	6/9/2021	266.00	24.63	NP	--	241.37	--
MW-3	9/13/2021	266.00	26.07	NP	--	239.93	--
MW-3	12/7/2021	266.00	22.98	NP	--	243.02	--
MW-3	3/8/2022	266.00	23.19	NP	--	242.81	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-3	6/22/2022	266.00	24.07	NP	--	241.93	--
MW-3	9/22/2022	266.00	25.76	NP	--	240.24	--
MW-3	11/29/2022	266.00	24.19	NP	--	241.81	--
MW-3	2/27/2023	266.00	22.40	NP	--	243.60	--
MW-3	5/25/2023	266.00	24.78	NP	--	241.22	--
MW-4	5/11/1993	100.26	23.03	NP	--	77.23	--
MW-4	3/4/1994	100.26	26.83	22.83	4.00	76.63	--
MW-4	7/6/1994	100.26	25.63	24.20	1.43	75.77	--
MW-4	10/7/1994	100.26	26.07	24.44	1.63	75.49	--
MW-4	12/28/1994	100.26	25.85	24.42	1.43	75.55	--
MW-4	3/13/1995	100.26	25.59	23.71	1.88	76.17	--
MW-4	6/30/1995	100.26	24.64	23.53	1.11	76.51	--
MW-4	9/6/1995	100.26	24.78	23.73	1.05	76.32	--
MW-4	12/8/1995	100.26	24.94	23.89	1.05	76.16	--
MW-4	3/11/1996	100.26	24.68	22.30	2.38	77.48	--
MW-4	6/18/1996	100.26	24.04	21.93	2.11	77.91	--
MW-4	9/9/1996	100.26	24.08	22.23	1.85	77.66	--
MW-4	12/11/1996	100.26	23.07	22.69	0.38	77.49	--
MW-4	3/17/1999	100.26	--	--	--	--	--
MW-4	9/28/1999	100.26	--	--	--	--	--
MW-4	1/19/2000	100.26	--	--	--	--	--
MW-4	3/24/2000	100.26	--	--	--	--	--
MW-4	7/2/2000	100.26	--	--	--	--	--
MW-4	9/14/2000	100.26	--	--	--	--	--
MW-4	9/22/2001	100.26	26.60	23.33	3.27	76.28	--
MW-4	12/9/2001	100.26	25.50	23.13	2.37	76.66	--
MW-4	3/20/2002	100.26	26.50	22.77	3.73	76.74	--
MW-4	6/11/2002	100.26	24.25	23.15	1.10	76.89	--
MW-4	12/21/2002	100.26	--	--	--	--	NS
MW-4	3/19/2003	100.26	--	--	--	--	NS
MW-4	6/18/2003	100.26	--	--	--	--	NS
MW-4	9/23/2003	100.26	22.31	22.24	0.07	78.01	--
MW-4	10/21/2003	100.26	21.79	NP	--	78.47	--
MW-4	6/29/2004	100.26	22.88	NP	--	77.38	--
MW-4	11/15/2004	100.26	23.07	21.62	1.45	78.35	--
MW-4	4/14/2005	100.26	23.82	21.93	1.89	77.95	--
MW-4	12/18/2005	100.26	23.43	23.35	0.08	76.89	--
MW-4	6/11/2006	100.26	21.87	21.86	0.01	78.40	--
MW-4	11/5/2006	100.26	22.92	22.91	0.01	77.35	--
MW-4	9/25/2007	100.26	22.15	22.13	0.02	78.13	--
MW-4	12/31/2007	100.26	--	--	--	--	NS
MW-4	5/29/2008	100.26	--	--	--	--	NM
MW-4	10/28/2008	100.26	--	--	--	--	Dry

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-4	6/22/2009	100.26	24.21	24.17	0.04	76.08	--
MW-4	12/15/2009	100.26	24.04	23.76	0.28	76.44	--
MW-4	5/24/2010	267.78	--	--	--	--	NM
MW-4	5/10/2011	267.78	--	--	--	--	NM
MW-4	11/29/2011	267.78	--	--	--	--	NM
MW-4	6/1/2012	267.78	--	--	--	--	NM
MW-4	11/29/2012	267.78	24.00	23.90	0.10	243.86	--
MW-4	5/9/2013	267.78	26.48	22.65	3.83	244.36	--
MW-4	11/19/2013	267.78	26.61	24.80	1.81	242.62	--
MW-4	5/13/2014	267.78	25.80	23.30	2.50	243.98	--
MW-4	5/7/2015	267.78	26.50	23.55	2.95	243.64	--
MW-4	3/2/2016	267.78	24.67	23.27	1.40	244.23	--
MW-4	6/6/2016	267.78	25.86	24.33	1.53	243.14	--
MW-4	9/12/2016	267.78	26.51	25.40	1.11	242.16	--
MW-4	12/12/2016	267.78	23.27	NP	--	244.51	--
MW-4	2/22/2017	267.78	22.63	22.56	0.07	245.21	--
MW-4	8/29/2017	267.78	26.50	24.82	1.68	242.62	NS
MW-4	3/13/2018	267.78	24.74	24.26	0.48	243.42	NS
MW-4	10/25/2018	267.78	26.76	26.48	0.28	241.24	NS
MW-4	2/20/2019	267.78	24.80	NP	--	242.98	NS
MW-4	5/14/2019	267.78	26.33	NP	--	241.45	NS
MW-4	8/27/2019	267.78	26.51	NP	--	241.27	NS
MW-4	11/25/2019	267.78	26.51	NP	--	241.27	NS
MW-4	3/26/2020	267.78	24.62	NP	--	243.16	--
MW-4	6/2/2020	267.78	24.65	NP	--	243.13	NS
MW-4	8/6/2020	267.78	26.29	26.15	0.14	241.60	NS
MW-4	12/10/2020	267.78	25.81	25.76	0.05	242.01	--
MW-4	3/8/2021	267.78	24.01	NP	--	243.77	--
MW-4	6/9/2021	267.78	25.28	NP	--	242.50	--
MW-4	9/13/2021	267.78	26.82	NP	--	240.96	Dry
MW-4	12/7/2021	267.78	24.36	NP	--	243.42	--
MW-4	3/8/2022	267.78	23.40	NP	--	244.38	--
MW-4	6/22/2022	267.78	25.41	NP	--	242.37	--
MW-4	9/22/2022	267.78	26.70	NP	--	241.08	IW
MW-4	11/29/2022	267.78	26.76	26.75	0.01	241.03	IW
MW-4	12/12/2022	267.78	23.49	NP	--	244.29	--
MW-4	2/27/2023	267.78	22.01	NP	--	245.77	--
MW-4	5/25/2023	267.78	--	NP	--	--	Dry
MW-5	5/11/1993	100.88	22.97	NP	--	77.91	--
MW-5	3/4/1994	100.88	24.35	NP	--	76.53	--
MW-5	7/6/1994	100.88	24.72	NP	--	76.16	--
MW-5	10/7/1994	100.88	25.02	NP	--	75.86	--
MW-5	12/28/1994	100.88	24.98	NP	--	75.90	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-5	3/13/1995	100.88	24.41	NP	--	76.47	--
MW-5	6/30/1995	100.88	24.06	NP	--	76.82	--
MW-5	9/6/1995	100.88	24.27	NP	--	76.61	--
MW-5	12/8/1995	100.88	24.49	NP	--	76.39	--
MW-5	3/11/1996	100.88	23.33	NP	--	77.55	--
MW-5	6/18/1996	100.88	22.91	NP	--	77.97	--
MW-5	9/9/1996	100.88	23.07	NP	--	77.81	--
MW-5	12/11/1996	100.88	23.13	NP	--	77.75	--
MW-5	3/13/1997	100.88	22.28	NP	--	78.60	--
MW-5	6/5/1997	100.88	21.78	NP	--	79.10	--
MW-5	9/5/1997	100.88	21.92	NP	--	78.96	--
MW-5	4/2/1998	100.88	21.35	NP	--	79.53	--
MW-5	6/8/1998	100.88	21.48	NP	--	79.40	--
MW-5	9/17/1998	100.88	22.12	NP	--	78.76	--
MW-5	12/9/1998	100.88	22.33	NP	--	78.55	--
MW-5	3/17/1999	100.88	20.93	NP	--	79.95	--
MW-5	6/26/1999	100.88	21.02	NP	--	79.86	--
MW-5	9/28/1999	100.88	21.76	NP	--	79.12	--
MW-5	1/19/2000	100.88	21.65	NP	--	79.23	--
MW-5	3/24/2000	100.88	21.48	NP	--	79.40	--
MW-5	7/2/2000	100.88	22.01	NP	--	78.87	--
MW-5	9/14/2000	100.88	22.59	NP	--	78.29	--
MW-5	12/14/2000	100.88	22.95	NP	--	77.93	--
MW-5	9/22/2001	100.88	23.86	NP	--	77.02	--
MW-5	12/9/2001	100.88	23.90	NP	--	76.98	--
MW-5	3/20/2002	100.88	23.13	NP	--	77.75	--
MW-5	6/11/2002	100.88	23.09	NP	--	77.79	--
MW-5	12/21/2002	100.88	24.65	NP	--	76.23	--
MW-5	3/19/2003	100.88	24.68	NP	--	76.20	--
MW-5	6/18/2003	100.88	24.37	NP	--	76.51	--
MW-5	9/23/2003	100.88	24.88	NP	--	76.00	--
MW-5	10/21/2003	100.88	24.99	NP	--	75.89	--
MW-5	6/29/2004	100.88	24.22	NP	--	76.66	--
MW-5	11/15/2004	100.88	24.97	NP	--	75.91	--
MW-5	4/14/2005	100.88	25.08	NP	--	75.80	--
MW-5	12/18/2005	100.88	25.47	NP	--	75.41	--
MW-5	6/11/2006	100.88	24.43	NP	--	76.45	--
MW-5	11/5/2006	100.88	25.55	NP	--	75.33	--
MW-5	9/25/2007	100.88	24.95	NP	--	75.93	--
MW-5	12/31/2007	100.88	25.16	NP	--	75.72	--
MW-5	5/29/2008	100.88	25.01	NP	--	75.87	--
MW-5	10/28/2008	100.88	25.89	NP	--	74.99	--
MW-5	6/22/2009	100.88	26.95	NP	--	73.93	--
MW-5	12/15/2009	100.88	26.57	NP	--	74.31	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-5	5/24/2010	100.88	25.55	NP	--	75.33	--
MW-5	10/12/2010	268.46	25.74	NP	--	242.72	--
MW-5	5/10/2011	268.46	24.61	NP	--	243.85	--
MW-5	11/29/2011	268.46	25.55	NP	--	242.91	--
MW-5	6/1/2012	268.46	24.60	NP	--	243.86	--
MW-5	11/29/2012	268.46	25.31	NP	--	243.15	--
MW-5	5/9/2013	268.46	24.52	NP	--	243.94	--
MW-5	11/19/2013	268.46	26.35	NP	--	242.11	--
MW-5	5/13/2014	268.46	25.18	NP	--	243.28	--
MW-5	5/7/2015	268.46	25.22	NP	--	243.24	--
MW-5	3/2/2016	268.46	25.55	NP	--	242.91	--
MW-5	6/6/2016	268.46	25.74	NP	--	242.72	--
MW-5	9/12/2016	268.46	27.43	NP	--	241.03	IW
MW-5	12/12/2016	268.46	25.36	NP	--	243.10	--
MW-5	2/22/2017	268.46	25.00	NP	--	243.46	--
MW-5	8/29/2017	268.46	26.20	NP	--	242.26	--
MW-5	3/13/2018	268.46	26.39	NP	--	242.07	--
MW-5	10/25/2018	268.46	27.13	NP	--	241.33	NS
MW-5	2/20/2019	268.46	27.33	NP	--	241.13	NS
MW-5	5/14/2019	268.46	27.24	NP	--	241.22	--
MW-5	8/27/2019	268.46	27.40	NP	--	241.06	NS
MW-5	11/25/2019	268.46	27.55	NP	--	240.91	NS
MW-5	3/25/2020	268.46	26.84	NP	--	241.62	--
MW-5	6/2/2020	268.46	26.80	NP	--	241.66	NS
MW-5	8/6/2020	268.46	27.03	NP	--	241.43	NS
MW-5	12/10/2020	268.46	--	--	--	--	Dry
MW-5	3/8/2021	268.46	26.06	NP	--	242.40	--
MW-5	6/9/2021	268.46	26.70	NP	--	241.76	--
MW-5	9/13/2021	268.46	--	--	--	--	Dry
MW-5	12/7/2021	268.46	--	--	--	--	Dry
MW-5	3/8/2022	268.46	26.61	NP	--	241.85	IW
MW-5	6/22/2022	268.46	26.90	NP	--	241.56	--
MW-5	9/22/2022	268.46	27.15	NP	--	241.31	IW
MW-5	11/29/2022	268.46	27.19	NP	--	241.27	IW
MW-5	12/12/2022	268.46	27.19	NP	--	241.27	--
MW-5	2/27/2023	268.46	--	--	--	--	Dry
MW-5	5/25/2023	268.46	27.62	NP	--	240.84	--
MW-6	9/5/1997	98.62	21.20	NP	--	77.42	--
MW-6	4/2/1998	98.62	19.70	NP	--	78.92	--
MW-6	6/8/1998	98.62	20.58	NP	--	78.04	--
MW-6	9/17/1998	98.62	21.87	NP	--	76.75	--
MW-6	12/9/1998	98.62	21.20	NP	--	77.42	--
MW-6	3/17/1999	98.62	18.49	NP	--	80.13	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-6	6/26/1999	98.62	18.49	NP	--	80.13	--
MW-6	9/28/1999	98.62	21.40	NP	--	77.22	--
MW-6	1/19/2000	98.62	20.39	NP	--	78.23	--
MW-6	3/24/2000	98.62	19.63	NP	--	78.99	--
MW-6	9/14/2000	98.62	21.92	NP	--	76.70	--
MW-6	12/14/2000	98.62	22.51	NP	--	76.11	--
MW-6	9/22/2001	98.62	23.31	NP	--	75.31	--
MW-6	12/9/2001	98.62	22.24	NP	--	76.38	--
MW-6	3/20/2002	98.62	21.44	NP	--	77.18	--
MW-6	6/11/2002	98.62	21.90	NP	--	76.72	--
MW-6	12/21/2002	98.62	--	--	--	--	NS
MW-6	3/19/2003	98.62	--	--	--	--	NS
MW-6	6/18/2003	98.62	--	--	--	--	NS
MW-6	9/23/2003	98.62	--	--	--	--	NS
MW-6	10/21/2003	98.62	22.69	NP	--	75.93	--
MW-6	6/29/2004	98.62	22.88	NP	--	75.74	--
MW-6	11/15/2004	98.62	24.12	NP	--	74.50	--
MW-6	4/14/2005	98.62	23.75	NP	--	74.87	--
MW-6	12/18/2005	98.62	24.79	NP	--	73.83	--
MW-6	6/11/2006	98.62	23.09	NP	--	75.53	--
MW-6	11/5/2006	98.62	25.80	NP	--	72.82	--
MW-6	9/25/2007	98.62	24.13	NP	--	74.49	--
MW-6	12/31/2007	98.62	23.59	NP	--	75.03	--
MW-6	5/29/2008	98.62	24.21	NP	--	74.41	--
MW-6	10/28/2008	98.62	25.47	NP	--	73.15	--
MW-6	6/22/2009	98.62	25.32	NP	--	73.30	--
MW-6	12/15/2009	98.62	23.33	NP	--	75.29	--
MW-6	5/24/2010	266.06	22.90	NP	--	243.16	--
MW-6	10/12/2010	266.06	23.06	NP	--	243.00	--
MW-6	5/10/2011	266.06	22.01	NP	--	244.05	--
MW-6	11/29/2011	266.06	23.42	NP	--	242.64	--
MW-6	6/1/2012	266.06	22.75	NP	--	243.31	--
MW-6	11/29/2012	266.06	--	--	--	--	NM
MW-6	5/9/2013	266.06	22.82	NP	--	243.24	--
MW-6	11/19/2013	266.06	24.00	NP	--	242.06	--
MW-6	5/13/2014	266.06	22.76	NP	--	243.30	--
MW-6	5/7/2015	266.06	23.71	NP	--	242.35	--
MW-6	6/6/2016	266.06	23.82	NP	--	242.24	--
MW-6	9/12/2016	266.06	25.22	NP	--	240.84	--
MW-6	12/12/2016	266.06	22.66	NP	--	243.40	--
MW-6	2/22/2017	266.06	21.24	NP	--	244.82	--
MW-6	8/29/2017	266.06	24.16	NP	--	241.90	--
MW-6	3/13/2018	265.97	23.04	NP	--	242.93	--
MW-6	10/25/2018	265.97	26.28	NP	--	239.69	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-6	2/20/2019	265.97	13.90	NP	--	252.07	NS
MW-6	2/22/2019	265.97	14.14	NP	--	251.83	--
MW-6	5/14/2019	265.97	25.51	NP	--	240.46	NS
MW-6	8/27/2019	265.97	26.73	NP	--	239.24	--
MW-6	11/26/2019	265.97	26.86	NP	--	239.11	NS
MW-6	3/26/2020	265.97	15.40	NP	--	250.57	--
MW-6	6/2/2020	265.97	15.09	NP	--	250.88	--
MW-6	8/7/2020	265.97	26.00	NP	--	239.97	NS
MW-6	12/10/2020	265.97	14.24	NP	--	251.73	--
MW-6	3/8/2021	265.97	13.52	NP	--	252.45	--
MW-6	6/9/2021	265.97	24.83	NP	--	241.14	--
MW-6	9/13/2021	265.97	26.14	NP	--	239.83	--
MW-6	12/7/2021	265.97	14.09	NP	--	251.88	--
MW-6	3/8/2022	265.97	15.19	NP	--	250.78	--
MW-6	6/22/2022	265.97	15.03	NP	--	250.94	--
MW-6	9/22/2022	265.97	25.64	NP	--	240.33	--
MW-6	11/29/2022	265.97	24.75	NP	--	241.22	--
MW-6	2/27/2023	265.97	18.10	NP	--	247.87	--
MW-6	5/25/2023	265.97	24.19	NP	--	241.78	--
MW-7	4/2/1998	97.32	18.79	NP	--	78.53	--
MW-7	6/8/1998	97.32	19.60	NP	--	77.72	--
MW-7	9/17/1998	97.32	20.82	NP	--	76.50	--
MW-7	12/9/1998	97.32	20.21	NP	--	77.11	--
MW-7	3/17/1999	97.32	17.61	NP	--	79.71	--
MW-7	6/26/1999	97.32	19.29	NP	--	78.03	--
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	97.32	--	--	--	--	AB
MW-8	4/2/1998	98.49	19.99	NP	--	78.50	--
MW-8	6/8/1998	98.49	20.39	NP	--	78.10	--
MW-8	9/17/1998	98.49	21.21	NP	--	77.28	--
MW-8	12/9/1998	98.49	21.03	NP	--	77.46	--
MW-8	3/17/1999	98.49	19.03	NP	--	79.46	--
MW-8	6/26/1999	98.49	20.02	NP	--	78.47	--
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	98.49	--	--	--	--	AB

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-9	10/12/2010	263.35	23.89	NP	--	239.46	--
MW-9	5/10/2011	263.35	20.70	NP	--	242.65	--
MW-9	11/29/2011	263.35	22.64	NP	--	240.71	--
MW-9	6/1/2012	263.35	--	--	--	--	NM
MW-9	11/29/2012	263.35	--	--	--	--	NM
MW-9	5/9/2013	263.35	21.09	NP	--	242.26	--
MW-9	11/19/2013	263.35	22.80	NP	--	240.55	--
MW-9	5/13/2014	263.35	21.39	NP	--	241.96	--
MW-9	5/7/2015	263.35	22.04	NP	--	241.31	--
MW-9	3/2/2016	263.35	22.29	NP	--	241.06	NS
MW-9	6/6/2016	263.35	22.01	NP	--	241.34	NS
MW-9	9/12/2016	263.35	23.43	NP	--	239.92	--
MW-9	2/22/2017	263.35	21.71	NP	--	241.64	NS
MW-9	8/29/2017	263.35	22.47	NP	--	240.88	--
MW-9	3/13/2018	263.35	21.78	NP	--	241.57	NS
MW-9	10/25/2018	263.35	24.61	NP	--	238.74	--
MW-9	2/20/2019	263.35	23.27	NP	--	240.08	--
MW-9	5/13/2019	263.35	23.78	NP	--	239.57	--
MW-9	8/27/2019	263.35	25.09	NP	--	238.26	--
MW-9	11/26/2019	263.35	25.60	NP	--	237.75	--
MW-9	3/26/2020	263.35	23.72	NP	--	239.63	--
MW-9	6/2/2020	263.35	23.76	NP	--	239.59	--
MW-9	8/7/2020	263.35	24.48	NP	--	238.87	--
MW-9	12/10/2020	263.35	24.33	NP	--	239.02	--
MW-9	3/8/2021	263.35	23.00	NP	--	240.35	--
MW-9	6/9/2021	263.35	23.02	NP	--	240.33	--
MW-9	9/13/2021	263.35	24.60	NP	--	238.75	--
MW-9	12/7/2021	263.35	23.47	NP	--	239.88	--
MW-9	9/22/2022	263.35	23.66	NP	--	239.69	--
MW-9	11/29/2022	263.35	23.65	NP	--	239.70	--
MW-9	5/25/2023	263.35	22.40	NP	--	240.95	--
MW-10	6/1/2012	268.30	24.20	NP	--	244.10	--
MW-10	11/29/2012	268.30	25.00	NP	--	243.30	--
MW-10	5/9/2013	268.30	24.25	NP	--	244.05	--
MW-10	11/19/2013	268.30	25.80	NP	--	242.50	--
MW-10	5/13/2014	268.30	24.78	NP	--	243.52	--
MW-10	5/7/2015	268.30	24.84	NP	--	243.46	--
MW-10	9/12/2016	268.30	26.52	NP	--	241.78	--
MW-10	8/29/2017	268.30	25.93	NP	--	242.37	--
MW-11	10/25/2018	266.38	26.40	NP	--	239.98	--
MW-11	2/20/2019	266.38	25.49	NP	--	240.89	--
MW-11	5/13/2019	266.38	25.99	NP	--	240.39	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-11	8/27/2019	266.38	26.83	NP	--	239.55	--
MW-11	11/25/2019	266.38	27.13	NP	--	239.25	--
MW-11	3/25/2020	266.38	25.39	NP	--	240.99	--
MW-11	6/2/2020	266.38	25.34	NP	--	241.04	--
MW-11	8/6/2020	266.38	25.79	NP	--	240.59	--
MW-11	12/10/2020	266.38	26.25	NP	--	240.13	--
MW-11	3/8/2021	266.38	24.40	NP	--	241.98	--
MW-11	6/9/2021	266.38	25.12	NP	--	241.26	--
MW-11	9/13/2021	266.38	26.32	NP	--	240.06	--
MW-11	12/7/2021	266.38	25.70	NP	--	240.68	--
MW-11	9/22/2022	266.38	26.16	NP	--	240.22	--
MW-11	11/29/2022	266.38	26.41	NP	--	239.97	--
MW-11	2/27/2023	266.38	25.41	NP	--	240.97	--
MW-11	5/25/2023	266.38	25.45	NP	--	240.93	--
MW-12	10/25/2018	266.51	27.39	NP	--	239.12	--
MW-12	2/20/2019	266.51	26.21	NP	--	240.30	--
MW-12	5/13/2019	266.51	26.78	NP	--	239.73	--
MW-12	8/27/2019	266.51	27.82	NP	--	238.69	--
MW-12	11/25/2019	266.51	28.19	NP	--	238.32	--
MW-12	3/26/2020	266.51	26.50	NP	--	240.01	--
MW-12	6/2/2020	266.51	26.53	NP	--	239.98	--
MW-12	8/6/2020	266.51	27.05	NP	--	239.46	--
MW-12	12/10/2020	266.51	27.31	NP	--	239.20	--
MW-12	3/8/2021	266.51	25.32	NP	--	241.19	--
MW-12	6/9/2021	266.51	26.11	NP	--	240.40	--
MW-12	9/13/2021	266.51	27.40	NP	--	239.11	--
MW-12	12/7/2021	266.51	26.55	NP	--	239.96	--
MW-12	9/22/2022	266.51	26.87	NP	--	239.64	--
MW-12	11/29/2022	266.51	27.05	NP	--	239.46	--
MW-12	2/27/2023	266.51	25.85	NP	--	240.66	--
MW-12	5/25/2023	266.51	25.71	NP	--	240.80	--
VE-1	4/2/1998	--	--	--	--	--	--
VE-1	9/17/1998	--	--	--	--	--	--
VE-1	12/9/1998	--	--	--	--	--	--
VE-1	3/17/1999	--	--	--	--	--	--
VE-1	6/26/1999	--	--	--	--	--	--
VE-1	9/28/1999	--	--	--	--	--	--
VE-1	3/24/2000	--	--	--	--	--	--
VE-1	7/2/2000	--	--	--	--	--	--
VE-1	9/14/2000	--	--	--	--	--	--
VE-1	12/14/2000	--	23.02	NP	--	--	--
VE-1	9/22/2001	--	24.22	NP	--	--	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
VE-1	12/9/2001	--	23.90	23.83	0.07	--	--
VE-1	3/20/2002	--	23.30	23.25	0.05	--	--
VE-1	6/11/2002	--	23.25	23.14	0.11	--	--
VE-1	12/21/2002	--	24.89	NP	--	--	--
VE-1	3/19/2003	--	24.71	NP	--	--	--
VE-1	6/18/2003	--	24.50	24.45	0.05	--	--
VE-1	9/23/2003	--	25.01	24.98	0.03	--	--
VE-1	10/22/2003	--	24.98	24.81	0.17	--	--
VE-1	6/29/2004	--	25.12	NP	--	--	--
VE-1	11/15/2004	--	25.40	24.79	0.61	--	--
VE-1	4/14/2005	--	26.15	24.84	1.31	--	--
VE-1	12/18/2005	--	26.00	25.65	0.35	--	--
VE-1	6/11/2006	--	26.53	NP	--	--	--
VE-1	11/5/2006	--	26.33	25.88	0.45	--	--
VE-1	9/25/2007	--	25.02	24.88	0.14	--	--
VE-1	12/31/2007	--	--	--	--	--	NS
VE-1	5/29/2008	--	25.63	24.79	0.84	--	--
VE-1	10/28/2008	--	26.07	25.80	0.27	--	--
VE-1	6/22/2009	--	--	--	--	--	Dry
VE-1	12/15/2009	--	26.56	26.50	0.06	--	--
VE-1	5/24/2010	268.17	26.70	NP	--	241.47	NS
VE-1	5/10/2011	268.17	--	--	--	--	NM
VE-1	11/29/2012	268.17	24.05	23.95	0.10	244.20	--
VE-1	5/9/2013	268.17	24.23	NP	--	243.94	NS
VE-1	11/19/2013	268.17	26.35	25.80	0.55	242.26	--
VE-1	5/13/2014	268.17	25.20	24.80	0.40	243.29	--
VE-1	5/7/2015	268.17	25.40	24.79	0.61	243.26	--
VE-1	3/2/2016	268.17	24.99	NP	--	243.18	NS
VE-2	5/7/2015	--	--	--	--	--	Dry
VE-2	3/2/2016	--	13.84	NP	--	--	NS
VE-3	3/2/2016	--	12.99	NP	--	--	NS
VE-4	3/2/2016	--	14.45	NP	--	--	NS
VE-5	3/2/2016	--	14.15	NP	--	--	NS

Table 1
Groundwater Gauging Data
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4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers

Notes:

TOC - Top of Casing

ft - feet (in NAVD 88)

LNAPL - Light Non-Aqueous Phase Liquid

* - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.80)

Wells were resurveyed in 2010 and are referenced to vertical datum NAVD 88 and horizontal datum NAD 83/98

-- - No Information Available

NP - No Product

Dry - Well Dry

AB - Well Abandoned

IW - Insufficient volume of water in the well to collect representative sample

NM - Not Measured

NS - Not Sampled

12/12/2022 - Data collected at MW-1, MW-4, and MW-5 prior to PetroFix injection for baseline readings

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	1000/800 ¹	500	500	15	15
Well ID	Date												
GMW-1	5/10/2011	2.4	< 1.0	69.7	94.8	< 1.0	--	--	5,930	1,900	< 420	28.4	--
GMW-1	11/29/2011	< 1.0	< 1.0	86.9	113	--	--	--	6,080	610	< 380	< 10.0	--
GMW-1	5/9/2013	< 1.0	< 1.0	4.4	4.6	< 1.0	--	--	1,010	< 420	< 420	< 10.0	< 10.0
GMW-1	11/19/2013	< 0.50	< 0.70	6.6	6.8	< 0.50	--	--	1,400	2,500	< 73	16.7	1.2
GMW-1	5/14/2014	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	590	560	< 66	< 4.7	< 4.7
GMW-1	5/7/2015	< 0.50	< 0.50	10	10	< 0.50	--	--	1,600	480	< 66	< 4.7	< 4.7
GMW-1	3/2/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	1,400	< 46	< 100	--	--
GMW-1	6/6/2016	< 0.50	< 0.50	5.3	4.0	< 0.50	--	--	3,300	130	< 100	--	--
GMW-1	9/12/2016	< 0.50	< 0.50	32	34	< 0.50	--	--	4,600	210	< 67	--	--
GMW-1	12/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	350	< 50	400	--	--
GMW-1	2/22/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	82.2 J	< 82.5	< 165	--	--
GMW-1	8/29/2017	< 0.331	0.480 J	2.45	2.66 J	< 0.367	--	--	2,070	216	104 J	--	--
GMW-1	3/13/2018	< 1.00	< 1.00	0.394 J	< 3.00	< 1.00	--	--	2,500	99.7 J	< 250	--	--
GMW-1	10/25/2018	< 1.00	< 1.00	9.58	12.8	< 1.00	< 0.0100	< 1.00	4,200	9,050	346 J	16.2	14.5
GMW-1	2/20/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	773 B	143 J	< 83.3	< 1.90	< 1.90
GMW-1	5/13/2019	< 0.331	< 0.412	2.36	4.18	< 0.367	< 0.00240	< 0.361	985	771	< 83.3	< 1.90	--
GMW-1	8/27/2019	< 0.0896	< 0.412	12	13.9	< 0.102	< 0.00240	< 0.108	2,750	777	< 167	8.01	--
GMW-1	3/25/2020	0.171 J	< 0.412	1.1	1.06 J	< 0.102	< 0.00240	< 0.108	594	409	< 83.3	< 1.90	--
GMW-1	6/2/2020	< 0.0941	< 0.278	0.216 J	0.210 J	< 0.101	< 0.00536	< 0.0819	1,840	--	--	< 2.95	--
GMW-1	8/6/2020	0.242 J	1.98	4.55	4.15	< 0.101	< 0.00536	< 0.0819	1,400	751	< 83.3	3.04 J	--
GMW-1	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	< 120	< 370	< 10	< 10
GMW-1	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	2,200	420	< 370	< 2.0	< 2.0
GMW-1	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	260	< 270	1.9	< 0.50
GMW-1	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	150	< 360	2.3	< 2.0
GMW-1	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	180	< 370	< 2.0	< 2.0
GMW-1	5/25/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	200	< 370	74	< 2.0
MW-1	5/11/1993	82	11	8	14	--	--	--	3,300	--	--	--	--
MW-1	3/4/1994	6	3	3	11	--	--	--	830	580	--	38	< 3
MW-1	7/6/1994	5	< 0.5	2	10	--	--	--	900	< 250	--	--	--
MW-1	10/7/1994	6	< 0.5	3	11	--	--	--	1,500	--	--	--	--
MW-1	12/28/1994	5	< 0.5	2	7	--	--	--	1,400	--	--	--	--
MW-1	3/13/1995	16	< 0.5	3	9	--	--	--	1,400	--	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	1000/800 ¹	500	500	15	15
MW-1	6/30/1995	4	< 0.5	3	7	--	--	--	1,400	--	--	--	--
MW-1	9/6/1995	5	< 0.5	3	6	--	--	--	1,300	--	--	--	--
MW-1	12/8/1995	7	2	2	7	--	--	--	1,300	--	--	--	--
MW-1	3/11/1996	3	< 0.5	< 0.5	1	--	--	--	900	--	--	--	--
MW-1	6/18/1996	1	1	< 0.5	2	--	--	--	400	--	--	--	--
MW-1	9/9/1996	2	< 0.5	1	1	13	--	--	600	--	--	--	--
MW-1	12/11/1996	4	2	2	4	< 10	--	--	710	--	--	--	--
MW-1	3/13/1997	< 0.5	< 0.5	< 0.5	< 1.0	< 5	--	--	100	--	--	--	--
MW-1	6/5/1997	2	2	< 0.5	< 1.5	5	--	--	250	--	--	--	--
MW-1	9/5/1997	8	4	2	6	8	--	--	300	--	--	--	--
MW-1	4/2/1998	1	3	< 0.5	< 1.5	< 5	--	--	210	--	--	--	--
MW-1	6/8/1998	< 0.5	3	1	4	6	--	--	300	--	--	--	--
MW-1	12/9/1998	< 0.5	< 5.0	< 5.0	< 5.0	< 5.0	--	--	< 500	--	--	--	--
MW-1	6/26/1999	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 100	--	--	--	--
MW-1	1/19/2000	< 0.5	4	1	3	< 0.5	--	--	< 50	--	--	--	--
MW-1	7/2/2000	1	< 0.5	1	2	2	--	--	120	--	--	--	--
MW-1	12/14/2000	< 10	19	< 10	< 30	< 40	--	--	1,700	--	--	--	--
MW-1	10/21/2003	32.5	4.61	17.3	19.2	< 1.00	--	--	3,270	--	--	--	--
MW-1	12/18/2005	10.8	2.04	1.23	2.76	< 1.00	--	--	2,960	--	--	--	--
MW-1	6/11/2006	11.4	1.12	1.6	2.34	19.8	--	--	1,840	--	--	--	--
MW-1	11/5/2006	73.2	6.12	2.04	< 6.00	--	--	--	3,880	--	--	--	--
MW-1	9/25/2007	27.8	1.67	0.86	< 3.00	--	--	--	1,640	--	--	--	--
MW-1	12/31/2007	22.7	1.34	1.03	< 3.00	--	--	--	1,970	--	--	--	--
MW-1	5/29/2008	3.58	0.58	< 0.500	< 3.00	--	--	--	2,370	--	--	--	--
MW-1	10/28/2008	2.8	1.07	< 0.500	< 3.00	--	--	--	1,450	--	--	--	--
MW-1	6/22/2009	30	5.7	24	30.5	--	--	--	2,200	--	--	4.9	< 2.00
MW-1	12/15/2009	11	2	4.8	3.6	--	--	--	1,500	--	--	3.8	< 2.00
MW-1	5/24/2010	18	< 2.5	< 2.5	6.4	--	--	--	940	--	--	--	--
MW-1	10/12/2010	2.8	< 1.0	1.2	< 3.0	5.2	--	--	849	--	--	< 10.0	--
MW-1	5/10/2011	17.8	6.6	1.8	10.9	2.5	--	--	642	840	< 420	< 10.0	--
MW-1	11/29/2011	5.5	< 1.0	< 1.0	< 3.0	--	--	--	815	< 75	< 380	10.3	--
MW-1	6/1/2012	3.6	< 1.0	< 1.0	3.0	7.4	--	--	544	362	< 396	< 10.0	< 10.0
MW-1	11/29/2012	1.2	< 1.0	< 1.0	< 3.0	< 1.0	--	--	1,320	< 430	< 430	11.3	< 3.0
MW-1	5/9/2013	6.3	< 1.0	< 1.0	4.1	1.6	--	--	557	620	< 430	< 10.0	< 10.0

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4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	1000/800 ¹	500	500	15	15
MW-1	11/19/2013	1.9 J	< 0.70	< 0.80	1.7 J	1.5 J	--	--	470	400	320	4.8	0.15 J
MW-1	5/13/2014	1.4	< 0.50	< 0.50	0.57 J	0.67 J	--	--	490	250	110 J	6.9 J	< 4.7
MW-1	5/7/2015	1.2	< 0.50	< 0.50	< 0.50	< 0.50	--	--	610	270	190 J	18.7	7.1 J
MW-1	3/2/2016	1.2	< 0.50	0.77 J	3.0	< 0.50	--	--	460	140	< 110	--	--
MW-1	2/22/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	212	447	222 J	--	--
MW-1	8/29/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	526	611	450	--	--
MW-1	3/13/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	--	--	298 B	369	352	--	--
MW-1	2/22/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	< 31.6	369	322	< 1.90	< 1.90
MW-1	5/14/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	40.0 J	271	220 J	< 1.90	< 1.90
MW-1	3/26/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	104 B	339	131 J	< 1.90	--
MW-1	6/3/2020	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.00536	< 0.0819	160	--	--	< 2.95	--
MW-1	8/6/2020	0.133 J	< 0.278	< 0.137	< 0.174	< 0.101	< 0.00536	< 0.0819	186 B	261	101 J	< 2.95	--
MW-1	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	410	360	< 10	< 10
MW-1	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	510	< 350	< 2.0	< 2.0
MW-1	3/8/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	100	1,700	930	< 2.0	< 2.0
MW-1	6/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	630	< 250	< 0.50	< 0.50
MW-2	5/11/1993	2,500	48	100	240	--	--	--	17,000	--	--	--	--
MW-2	3/4/1994	1,500	20	130	180	--	--	--	4,300	1,300	--	5	< 3
MW-2	7/6/1994	1,100	16	53	97	--	--	--	4,400	390	--	--	--
MW-2	10/7/1994	1,100	18	57	82	--	--	--	4,400	--	--	--	--
MW-2	12/28/1994	250	5	13	14	--	--	--	2,100	--	--	--	--
MW-2	3/13/1995	200	12	29	50	--	--	--	2,700	--	--	--	--
MW-2	6/30/1995	400	8	50	39	--	--	--	3,400	--	--	--	--
MW-2	9/6/1995	350	8	50	35	--	--	--	3,400	--	--	--	--
MW-2	12/8/1995	610	5	29	36	--	--	--	3,100	--	--	--	--
MW-2	3/11/1996	280	12	100	120	--	--	--	5,400	--	--	--	--
MW-2	6/18/1996	280	12	130	56	--	--	--	4,500	--	--	--	--
MW-2	9/9/1996	790	5	78	35	< 1.0	--	--	4,100	--	--	--	--
MW-2	12/11/1996	460	13	65	41	43	--	--	3,700	--	--	--	--
MW-2	3/13/1997	140	12	130	48	< 50	--	--	3,200	--	--	--	--
MW-2	6/5/1997	160	22	180	79	< 100	--	--	3,400	--	--	--	--
MW-2	4/2/1998	170	51	35	210	< 50	--	--	4,700	--	--	--	--
MW-2	6/8/1998	420	26	150	75	140	--	--	3,800	--	--	--	--

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CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	1000/800 ¹	500	500	15	15
MW-2	9/17/1998	720	15	79	44	< 5.0	--	--	2,900	--	--	--	--
MW-2	12/9/1998	520	8	100	62	< 5.0	--	--	4,500	--	--	--	--
MW-2	3/17/1999	19	27	300	230	< 5.0	--	--	5,000	--	--	--	--
MW-2	6/26/1999	400	29	160	130	13	--	--	3,400	--	--	--	--
MW-2	9/28/1999	690	20	23	110	87	--	--	7,300	--	--	--	--
MW-2	1/19/2000	920	20	260	74	< 0.5	--	--	8,700	--	--	--	--
MW-2	3/24/2000	310	79	240	97	< 5	--	--	10,000	--	--	--	--
MW-2	7/2/2000	520	35	190	85	49	--	--	8,200	--	--	--	--
MW-2	9/14/2000	1,100	100	110	100	< 5	--	--	14,000	--	--	--	--
MW-2	12/14/2000	740	< 10	68	< 30	< 40	--	--	15,000	--	--	--	--
MW-2	9/22/2001	180	9	240	110	20	--	--	12,000	--	--	--	--
MW-2	12/9/2001	310	9.5	100	96	< 4.0	--	--	14,000	--	--	--	--
MW-2	3/20/2002	250	< 5.0	220	98	280	--	--	15,000	--	--	--	--
MW-2	6/11/2002	290	< 10	160	57	< 40	--	--	13,000	--	--	--	--
MW-2	12/21/2002	111	13.4	211	70.3	148	--	--	5,970	--	--	--	--
MW-2	3/19/2003	79.9	8.71	156	55	< 25.0	--	--	5,270	--	--	--	--
MW-2	6/18/2003	36.7	14.7	245	119	143	--	--	6,770	--	--	--	--
MW-2	9/23/2003	40.5	15.8	179	103	< 20.0	--	--	6,490	--	--	--	--
MW-2	10/21/2003	31.1	9.38	86	61	< 1.00	--	--	4,600	--	--	--	--
MW-2	6/29/2004	17.8	11.2	228	76.5	95.2	--	--	5,550	--	--	--	--
MW-2	11/15/2004	12.3	6.11	135	63.3	< 2.00	--	--	5,670	--	--	--	--
MW-2	4/14/2005	130	2.8	41.8	26.6	< 2.00	--	--	4,680	--	--	--	--
MW-2	12/18/2005	122	3.5	43.9	27.8	< 5.00	--	--	5,700	--	--	--	--
MW-2	6/11/2006	4.48	5.8	118	56.7	< 2.00	--	--	5,450	--	--	--	--
MW-2	11/5/2006	263	< 5.00	46.2	< 30.0	--	--	--	7,490	--	--	--	--
MW-2	9/25/2007	715	9.74	50.8	64	--	--	--	7,530	--	--	--	--
MW-2	12/31/2007	477	10.6	69.3	76.3	--	--	--	6,000	--	--	--	--
MW-2	5/29/2008	648	11.1	55.9	48.4	--	--	--	9,600	--	--	--	--
MW-2	10/28/2008	1,430	16	194	145	--	--	--	10,300	--	--	--	--
MW-2	6/22/2009	1,200	40	100	130	--	--	--	4,800	--	--	< 2.00	< 2.00
MW-2	12/15/2009	1,600	8.2	66	82	--	--	--	4,300	--	--	< 2.00	< 2.00
MW-2	5/24/2010	320	7.7	69	84	--	--	--	4,200	--	--	--	--
MW-2	10/12/2010	1,890	14.8	54.8	39.7	15.5	--	--	3,590	--	--	< 10.0	--
MW-2	5/10/2011	281	4.2	69.9	49.9	7.3	--	--	5,520	1,000	2,000	< 10.0	--

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CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	1000/800 ¹	500	500	15	15
MW-2	11/29/2011	549	7.0	82.6	61.6	--	--	--	5,640	98	< 380	< 10.0	--
MW-2	6/1/2012	107	12.7	64.2	46.1	5.0	--	--	2,940	2,240	3,080	10.0	< 10.0
MW-2	11/29/2012	399	10.2	187	154	14.7	--	--	10,400	2,100	760	7.7	3.2
MW-2	5/9/2013	42.9	6.2	115	35.4	< 5.0	--	--	3,660	1,700	< 400	12.3	< 10.0
MW-2	11/19/2013	7.3	4.4 J	17	40	6.3	--	--	1,400	280	100 J	9.8	3.2
MW-2	5/13/2014	79	3.3 J	58	20	6.0	--	--	3,100	1,800	880	6.6 J	< 4.7
MW-2	5/7/2015	33	6.1	91	32	2.4	--	--	2,700	1,900	690	34.1	< 4.7
MW-2	3/2/2016	54	5.3 J	94	26	< 5.0	--	--	5,100	1,600	< 100	--	--
MW-2	6/6/2016	43	4.9	92	21	1.1 J	--	--	5,000	880	790	--	--
MW-2	9/12/2016	130	6.5	83	20	2.2	--	--	5,000	710	660	--	--
MW-2	12/12/2016	4.1	0.74 J	12	10	< 0.50	--	--	1,000	590	< 110	--	--
MW-2	2/22/2017	< 0.331	< 0.412	2.06	2.08 J	< 0.367	--	--	1,310	1,370	321 J	--	--
MW-2	8/29/2017	27.4	10.7	90.9	29.4	< 0.367	--	--	10,000	1,070	242 J	--	--
MW-2	3/13/2018	7.65	11.5	90.0	14.6	< 1.00	--	--	3,110	2,360	742	--	--
MW-2	10/25/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0100	< 1.00	171 B	788	444	25.5	0.623 J
MW-2	2/20/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	85.8 BJ	199 J	175 J	< 1.90	< 1.90
MW-2	5/14/2019	1.45	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	40.0 J	250	197 J	< 1.90	--
MW-2	11/26/2019	0.883 J	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	256 B	414	706	79.2	< 1.90
MW-2	3/26/2020	1.39	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	134 B	2,400	456	8.84	--
MW-2	6/3/2020	0.307 J	< 0.278	0.337 J	1.52 J	< 0.101	< 0.00536	< 0.0819	3,320	--	--	8.7	--
MW-2	8/7/2020	0.910 J	349 J	0.452 J	1.36 J	< 0.101	< 0.00536	< 0.0819	377 B	4,300	431	< 2.95	--
MW-2	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	590	190	< 350	< 4.0	< 4.0
MW-2	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	590	190	< 350	< 4.0	< 4.0
MW-2	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	300	< 370	< 10	< 10
MW-2	6/9/2021	1.3	< 1.0	< 1.0	< 2.0	< 1.0	--	--	410	1,200	< 350	< 2.0	< 2.0
MW-2	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	220	420	< 2.0	< 2.0
MW-2	3/8/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	140	< 380	< 2.0	< 2.0
MW-2	6/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 260	< 0.50	< 0.50
MW-2	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	230	< 260	1.4	< 0.50
MW-2	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0 F1	< 1.0	--	--	< 250	120	< 360	< 2.0	< 2.0
MW-2	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	< 120	< 370	< 2.0	< 2.0
MW-3	6/7/1993	140	7	13	14	--	--	--	2,200	--	--	--	--
MW-3	3/4/1994	99	2	11	10	--	--	--	1,200	590	--	4	< 3

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	1000/800 ¹	500	500	15	15
MW-3	7/6/1994	44	6	26	27	--	--	--	1,500	270	--	--	--
MW-3	10/7/1994	63	4	16	13	--	--	--	1,500	--	--	--	--
MW-3	12/28/1994	77	3	13	9	--	--	--	1,800	--	--	--	--
MW-3	3/13/1995	87	4	18	10	--	--	--	1,700	--	--	--	--
MW-3	6/30/1995	90	3	52	13	--	--	--	1,800	--	--	--	--
MW-3	9/6/1995	96	3	41	14	--	--	--	1,700	--	--	--	--
MW-3	12/8/1995	73	4	23	15	--	--	--	1,800	--	--	--	--
MW-3	3/11/1996	120	11	170	36	--	--	--	2,800	--	--	--	--
MW-3	6/18/1996	150	18	320	59	--	--	--	3,500	--	--	--	--
MW-3	9/9/1996	62	16	220	96	15	--	--	3,500	--	--	--	--
MW-3	12/11/1996	96	9	< 0.5	34	< 10	--	--	2,100	--	--	--	--
MW-3	3/13/1997	97	13	250	65	< 50	--	--	3,100	--	--	--	--
MW-3	6/5/1997	46	19	250	130	< 100	--	--	3,900	--	--	--	--
MW-3	9/5/1997	98	29	270	140	< 5	--	--	4,400	--	--	--	--
MW-3	4/2/1998	80	25	320	150	< 50	--	--	3,700	--	--	--	--
MW-3	6/8/1998	60	22	240	96	< 50	--	--	3,500	--	--	--	--
MW-3	12/9/1998	63	9	170	59	< 5.0	--	--	3,200	--	--	--	--
MW-3	6/26/1999	72	16	270	52	56	--	--	3,100	--	--	--	--
MW-3	1/19/2000	72	29	430	110	< 0.5	--	--	5,700	--	--	--	--
MW-3	7/2/2000	35	18	230	64	7	--	--	3,300	--	--	--	--
MW-3	12/14/2000	40	< 10	210	< 30	< 40	--	--	5,500	--	--	--	--
MW-3	12/9/2001	42	4.1	77	22	< 4.0	--	--	4,200	--	--	--	--
MW-3	6/11/2002	77	< 5.0	320	54	< 20	--	--	8,400	--	--	--	--
MW-3	12/21/2002	37.7	3.31	68.6	18.3	39.3	--	--	3,440	--	--	--	--
MW-3	6/18/2003	39.1	4.22	113	30.3	62.6	--	--	4,020	--	--	--	--
MW-3	10/21/2003	19.8	2.92	31.2	16.3	< 1.00	--	--	3,190	--	--	--	--
MW-3	11/15/2004	15.8	2.36	20.9	11.1	2.36	--	--	3,170	--	--	--	--
MW-3	4/14/2005	17.1	5.21	14.3	11.2	< 2.00	--	--	3,340	--	--	--	--
MW-3	12/18/2005	15.1	2.92	20.7	15.1	< 1.00	--	--	4,150	--	--	--	--
MW-3	6/11/2006	20.9	3.6	30	21.3	1.11	--	--	4,000	--	--	--	--
MW-3	11/5/2006	16.8	2.85	19	16.6	--	--	--	4,970	--	--	--	--
MW-3	9/25/2007	18.2	2.34	17.1	13.8	--	--	--	4,530	--	--	--	--
MW-3	12/31/2007	16.5	2.38	32.7	16.1	--	--	--	4,490	--	--	--	--
MW-3	5/29/2008	16.5	1.83	14.4	15	--	--	--	5,350	--	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	1000/800 ¹	500	500	15	15
MW-3	10/28/2008	14.4	1.86	13.8	10.3	--	--	--	3,250	--	--	--	--
MW-3	6/22/2009	15	1.7	35	7.3	--	--	--	2,000	--	--	< 2.00	< 2.00
MW-3	12/15/2009	13	1.5	28	7.3	--	--	--	2,100	--	--	7.7	< 2.00
MW-3	5/24/2010	29	6.2	28	19	--	--	--	2,300	--	--	--	--
MW-3	10/12/2010	31.1	< 1.0	16.6	4.7	< 1.0	--	--	2,380	--	--	< 10.0	--
MW-3	5/10/2011	33.6	1.2	57.5	7.9	2.4	--	--	3,280	820	840	< 10.0	--
MW-3	11/29/2011	30.4	< 1.0	21.0	6.9	--	--	--	3,130	< 76	< 380	< 10.0	--
MW-3	6/1/2012	29.0	< 1.0	35.9	7.6	2.6	--	--	2,360	512	446	< 10.0	< 10.0
MW-3	11/29/2012	3.2	1.9	40.7	10.6	1.8	--	--	2,320	670	500	4.1	< 3.0
MW-3	5/9/2013	32.8	4.2	98.3	13.9	2.7	--	--	2,850	610	< 420	< 10.0	< 10.0
MW-3	11/19/2013	3.5 J	< 0.70	3.4 J	1.3 J	0.68 J	--	--	380	620	340	3.2	0.47 J
MW-3	5/13/2014	8.4	0.94 J	17	3.7	1.1	--	--	1,100	710	700	< 4.7	< 4.7
MW-3	5/7/2015	9.9	< 0.50	10	2.1	1.2	--	--	1,800	430	440	< 4.7	< 4.7
MW-3	3/2/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 48	150 J	--	--
MW-3	6/6/2016	1.4	< 0.50	0.78 J	< 0.50	< 0.50	--	--	500	110	180 J	--	--
MW-3	9/12/2016	4.3	< 0.50	2.1	< 0.50	< 0.50	--	--	1,200	100	< 67	--	--
MW-3	12/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	53 J	210	140 J	--	--
MW-3	2/22/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	245	254	< 165	--	--
MW-3	8/29/2017	3.87	0.434 J	3.82	1.78 J	< 0.367	--	--	1,310	383	238 J	--	--
MW-3	3/13/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	--	--	52.8 B J	79.1 J	115 J	--	--
MW-3	10/25/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0100	< 1.00	35.6 B J	69.3 J	< 250	0.868 B J	0.602 J
MW-3	5/14/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	< 31.6	71.9 J	101 J	< 1.90	--
MW-3	11/25/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00245	< 0.361	63.6 BJ	< 66.7	276	2.06 J	--
MW-3	3/26/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	< 31.6	101 J	94.3 J	< 1.90	--
MW-3	8/7/2020	< 0.0941	< 0.278	< 0.137	1.44 J	< 0.101	< 0.00536	< 0.0819	66.5 BJ	109 J	101 J	< 2.95	--
MW-3	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-3	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-3	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	120	< 360	< 10	< 10
MW-3	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	120	< 350	< 2.0	< 2.0
MW-3	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	140	< 350	< 2.0	< 2.0
MW-3	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	110	< 360	< 2.0	< 2.0
MW-3	3/8/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	< 110	< 360	< 2.0	< 2.0
MW-3	6/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 250	< 0.50	< 0.50
MW-3	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 260	0.55	< 0.50

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	1000/800 ¹	500	500	15	15
MW-3	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 110	< 350	< 2.0	< 2.0
MW-3	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	130	< 370	< 2.0	< 2.0
MW-4	5/11/1993	8,700	4,000	57	3,200	--	--	--	31,000	--	--	--	--
MW-4	3/17/1999	12,000	17,000	1,800	10,000	< 50	--	--	100,000	--	--	--	--
MW-4	9/28/1999	27,000	65,000	18,000	100,000	< 1000	--	--	97,000	--	--	--	--
MW-4	1/19/2000	22,000	18,000	2,400	15,000	< 5	--	--	100,000	--	--	--	--
MW-4	3/24/2000	13,000	18,000	2,200	13,000	< 5	--	--	100,000	--	--	--	--
MW-4	7/2/2000	13,000	17,000	1,800	10,000	220	--	--	92,000	--	--	--	--
MW-4	9/14/2000	22,000	27,000	6,900	23,000	< 5	--	--	160,000	--	--	--	--
MW-4	12/9/2001	12,000	10,000	1,900	8,800	< 40	--	--	110,000	--	--	--	--
MW-4	3/20/2002	13,000	19,000	2,500	13,000	360	--	--	100,000	--	--	--	--
MW-4	6/11/2002	13,000	17,000	2,300	12,000	< 400	--	--	95,000	--	--	--	--
MW-4	9/23/2003	7,140	8,980	1,270	8,820	< 50.0	--	--	75,900	--	--	--	--
MW-4	10/21/2003	3,190	6,370	779	6,160	< 500	--	--	44,700	--	--	--	--
MW-4	6/29/2004	11,200	16,300	3,550	22,600	2,500	--	--	378,000	--	--	--	--
MW-4	12/18/2005	9,430	12,800	2,000	13,500	< 100	--	--	214,000	--	--	--	--
MW-4	6/11/2006	13,000	18,200	2,300	14,000	< 1000	--	--	117,000	--	--	--	--
MW-4	11/5/2006	6,950	10,500	2,070	13,500	--	--	--	120,000	--	--	--	--
MW-4	12/12/2016	120	37	57	1,000	< 2.5	--	--	25,000	2,100	380	--	--
MW-4	3/26/2020	162	209	130	1,670	< 5.10	< 0.00240	< 5.40	17,400	11,200	439	204	53.5
MW-4	3/8/2021	80	530	330	3,300	< 1.0	--	< 1.0	23,000	7,700	1,600	74	24
MW-4	6/9/2021	85	120	130	1,800	< 1.0	--	--	15,000	13,000	2,000	82	29
MW-4	12/7/2021	61	73	130	2,300 H	< 1.0	--	--	19,000	11,000	1,900	220	110
MW-4	3/8/2022	1.6	< 1.0	6.3	61	< 1.0	--	--	1,000	760	630	74	46
MW-4	6/22/2022	15	10	45	340	< 1.0	--	--	6,800	7,000	< 260	110	48
MW-4	12/12/2022	< 10	11	66	830	< 10	--	--	5,800	2,500/2300 H*1	750/780 H*1	67	41
MW-4	2/27/2023	< 10	< 10	< 10	< 20	< 10	--	--	< 500	--	--	1,200	< 2.0
MW-4 ²	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	240	< 380	--	--
MW-4 ²	5/25/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	--	--	--	--
MW-5	5/11/1993	130	25	23	22	--	--	--	1,800	--	--	--	--
MW-5	3/4/1994	26	6	11	8	--	--	--	710	420	--	27	< 3
MW-5	7/6/1994	11	3	1	4	--	--	--	400	< 250	--	--	--

Table 2
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Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	1000/800 ¹	500	500	15	15
MW-5	10/7/1994	13	4	2	4	--	--	--	510	--	--	--	--
MW-5	12/28/1994	46	13	20	22	--	--	--	1,300	--	--	--	--
MW-5	3/13/1995	34	8	40	28	--	--	--	2,800	--	--	--	--
MW-5	6/30/1995	50	11	12	15	--	--	--	1,100	--	--	--	--
MW-5	9/6/1995	42	14	30	18	--	--	--	1,100	--	--	--	--
MW-5	12/8/1995	32	7	42	62	--	--	--	1,700	--	--	--	--
MW-5	3/11/1996	85	9	210	140	--	--	--	8,100	--	--	--	--
MW-5	6/18/1996	100	17	88	25	--	--	--	2,700	--	--	--	--
MW-5	9/9/1996	180	29	100	27	< 1.0	--	--	2,200	--	--	--	--
MW-5	12/11/1996	110	18	96	250	12	--	--	4,900	--	--	--	--
MW-5	3/13/1997	190	35	190	73	< 50	--	--	5,500	--	--	--	--
MW-5	6/5/1997	290	42	200	37	< 100	--	--	4,100	--	--	--	--
MW-5	9/5/1997	420	83	190	730	< 50	--	--	3,100	--	--	--	--
MW-5	4/2/1998	470	89	340	83	< 50	--	--	5,400	--	--	--	--
MW-5	6/8/1998	360	110	220	66	71	--	--	4,200	--	--	--	--
MW-5	12/9/1998	170	41	120	120	< 1.0	--	--	4,900	--	--	--	--
MW-5	6/26/1999	180	82	210	24	8	--	--	3,300	--	--	--	--
MW-5	1/19/2000	480	350	370	87	< 0.5	--	--	6,500	--	--	--	--
MW-5	7/2/2000	390	110	290	54	20	--	--	6,100	--	--	--	--
MW-5	12/14/2000	26	< 10	< 10	< 30	< 40	--	--	4,000	--	--	--	--
MW-5	12/9/2001	51	< 10	120	140	< 10	--	--	12,000	--	--	--	--
MW-5	6/11/2002	94	21	110	24	< 20	--	--	5,700	--	--	--	--
MW-5	12/21/2002	6.32	2.95	6.59	11.1	5.88	--	--	1,300	--	--	--	--
MW-5	6/18/2003	7.18	1.95	12	24.7	6	--	--	1,950	--	--	--	--
MW-5	10/21/2003	1.18	2.19	0.732	3.38	< 1.00	--	--	322	--	--	--	--
MW-5	6/29/2004	5.4	3.24	4.79	14.1	6.95	--	--	1,180	--	--	--	--
MW-5	11/15/2004	0.74	< 0.500	< 0.500	< 1.00	< 2.00	--	--	399	--	--	--	--
MW-5	4/14/2005	14.3	13.4	33.9	40	< 2.00	--	--	2,900	--	--	--	--
MW-5	12/18/2005	2.49	2.43	3.58	5.11	< 1.00	--	--	661	--	--	--	--
MW-5	6/11/2006	6.08	1.05	2.78	3.1	< 1.00	--	--	2,830	--	--	--	--
MW-5	11/5/2006	1.41	0.78	1.29	< 3.00	--	--	--	723	--	--	--	--
MW-5	9/25/2007	1.86	0.53	0.77	< 3.00	--	--	--	712	--	--	--	--
MW-5	12/31/2007	9.4	11.3	38.1	75.7	--	--	--	7,190	--	--	--	--
MW-5	5/29/2008	7.47	9.12	15.7	23.7	--	--	--	2,740	--	--	--	--

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4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	1000/800 ¹	500	500	15	15
MW-5	10/28/2008	2.01	1.46	< 0.500	3.48	--	--	--	516	--	--	--	--
MW-5	6/22/2009	36	24	87	49.9	--	--	--	4,800	--	--	23	--
MW-5	12/15/2009	24	19	29	23	--	--	--	2,300	--	--	12	11
MW-5	5/24/2010	59	8.4	96	41	--	--	--	4,200	--	--	--	--
MW-5	10/12/2010	31.4	2.6	12.7	4.8	< 1.0	--	--	2,320	--	--	< 10.0	--
MW-5	5/10/2011	12.4	4.1	39.3	25.5	< 1.0	--	--	4,710	470	< 400	< 10.0	--
MW-5	11/29/2011	12.3	2.2	6.4	3.1	--	--	--	2,210	95	< 380	10.5	--
MW-5	6/1/2012	13.3	3.0	9.6	10.7	< 1.0	--	--	1,620	1,040	< 392	< 10.0	< 10.0
MW-5	11/29/2012	18.0	8.0	61.7	28.2	< 1.0	--	--	4,160	1,100	< 440	42.5	< 3.0
MW-5	5/9/2013	19.0	6.7	48.3	18.5	< 1.0	--	--	3,470	< 400	< 400	< 10.0	< 10.0
MW-5	11/19/2013	24	5.7	17	6.3	< 0.50	--	--	1,800	240	660	6.7	1.3
MW-5	5/13/2014	17	7.5	69	23	< 0.50	--	--	4,400	440	370	16.2	9.2 J
MW-5	5/7/2015	11	4.8	32	12	< 0.50	--	--	2,800	240	260	18.4	5.2 J
MW-5	3/2/2016	4.5	2.8	24	13	< 0.50	--	--	4,100	320	530	--	--
MW-5	6/6/2016	6.9	4.4	23	15	< 0.50	--	--	5,300	310	620	--	--
MW-5	12/12/2016	1.7	1.8	9.0	4.5	< 0.50	--	--	4,300	17,000	< 540	--	--
MW-5	2/22/2017	0.572 J	< 0.412	1.39	1.10 J	< 0.367	--	--	3,440	9,890	204 J	--	--
MW-5	8/29/2017	7.48	1.60	6.01	11.1	< 0.367	--	--	1,810	7,040	432	--	--
MW-5	3/13/2018	< 1.00	< 1.00	0.544 J	< 3.00	< 1.00	--	--	356 B	1,440	216 J	--	--
MW-5	5/14/2019	0.403 J	< 0.412	< 0.384	5.45	< 0.367	< 0.00240	< 0.361	54.5 J	1,120	122 J	--	--
MW-5	3/25/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	< 31.6	300	108 J	21.2	3.84 J
MW-5	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	170	< 360	< 10	< 10
MW-5	3/8/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	270	< 360	6.8	< 2.0
MW-5	12/12/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	--	--	--	--
MW-6	9/5/1997	< 0.5	19	6	15	32	--	--	930	--	--	--	--
MW-6	4/2/1998	< 0.5	10	3	11	6	--	--	600	--	--	--	--
MW-6	6/8/1998	< 0.5	6	2	5	10	--	--	430	--	--	--	--
MW-6	12/9/1998	< 1.0	< 1.0	1	3	2	--	--	260	--	--	--	--
MW-6	1/19/2000	< 0.5	< 0.5	6	10	7	--	--	330	--	--	--	--
MW-6	12/14/2000	< 10	< 10	< 10	< 30	< 40	--	--	1,000	--	--	--	--
MW-6	10/21/2003	10	3.66	0.898	5.03	< 1.00	--	--	254	--	--	--	--
MW-6	6/29/2004	6.8	1.73	< 0.500	5.65	6.35	--	--	540	--	--	--	--
MW-6	11/15/2004	43.5	14.5	0.58	10.4	< 2.00	--	--	370	--	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	1000/800 ¹	500	500	15	15
MW-6	4/14/2005	6.39	0.95	< 0.500	3.75	< 2.00	--	--	443	--	--	--	--
MW-6	12/18/2005	< 0.500	< 0.500	< 0.500	3.01	< 1.00	--	--	694	--	--	--	--
MW-6	6/11/2006	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	--	--	601	--	--	--	--
MW-6	11/5/2006	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	444	--	--	--	--
MW-6	9/25/2007	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	321	--	--	--	--
MW-6	12/31/2007	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	168	--	--	--	--
MW-6	5/29/2008	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	1,620	--	--	--	--
MW-6	10/28/2008	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	481	--	--	--	--
MW-6	6/22/2009	< 1.00	< 1.00	< 1.00	< 3.00	--	--	--	< 50.0	--	--	< 2.00	< 2.00
MW-6	12/15/2009	< 1.00	< 1.00	< 1.00	< 2.00	--	--	--	190	--	--	< 2.00	< 2.00
MW-6	5/24/2010	8.1	< 2.5	< 2.5	< 5.0	--	--	--	280	--	--	--	--
MW-6	10/12/2010	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 50.0	--	--	< 10.0	--
MW-6	5/10/2011	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	96.0	180	< 390	< 10.0	--
MW-6	11/29/2011	< 1.0	< 1.0	< 1.0	< 3.0	--	--	--	< 50.0	< 78	< 390	< 10.0	--
MW-6	6/1/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	124	< 76.9	< 385	< 10.0	< 10.0
MW-6	5/9/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	216	< 400	< 400	< 10.0	< 10.0
MW-6	11/19/2013	< 0.50	< 0.70	< 0.80	< 0.80	< 0.50	--	--	130 J	31 J	< 71	0.97 J	0.12 J
MW-6	5/13/2014	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	120 J	80 J	180 J	< 4.7	< 4.7
MW-6	5/7/2015	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 28	< 65	< 4.7	< 4.7
MW-6	6/6/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 46	< 100	--	--
MW-6	9/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	140	280	--	--
MW-6	12/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 47	< 100	--	--
MW-6	2/22/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	33.5 J	< 82.5	< 165	--	--
MW-6	8/29/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	160	< 139	183 J	--	--
MW-6	3/13/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	--	--	40.0 B J	< 200	< 250	--	--
MW-6	10/25/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0100	< 1.00	< 100	73.4 J	< 250	< 2.00	< 2.00
MW-6	2/22/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	< 31.6	76.5 J	214 J	< 1.90	< 1.90
MW-6	8/27/2019	< 0.0896	< 0.412	< 0.158	< 1.06	< 0.367	< 0.00245	< 1.00	< 31.6	79.6 J	85.9 J	3.18 J	--
MW-6	3/26/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	< 31.6	73.9 J	152 J	< 1.90	--
MW-6	6/2/2020	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.00536	< 0.0819	< 31.6	--	--	< 2.95	--
MW-6	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-6	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-6	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	< 110	< 360	< 10	< 10
MW-6	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	--	--	--	--

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CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	1000/800 ¹	500	500	15	15
MW-6	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	< 110	< 350	< 2.0	< 2.0
MW-6	12/7/2021	< 1.0	< 1.0	< 1.0	3.5	< 1.0	--	--	< 250	< 110	< 350	< 2.0	< 2.0
MW-6	3/8/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	250	400	< 2.0	< 2.0
MW-6	6/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 260	< 0.50	< 0.50
MW-6	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 110	< 270	< 5.0	< 0.50
MW-6	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 110	< 350	< 2.0	< 2.0
MW-6	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	< 120	< 370	< 2.0	< 2.0
MW-7	4/2/1998	< 5	35	480	1,100	< 50	--	--	13,100	--	--	--	--
MW-7	6/8/1998	< 5.0	40	420	810	63	--	--	12,000	--	--	--	--
MW-7	12/9/1998	< 5.0	26	360	610	11	--	--	9,600	--	--	--	--
MW-7	6/26/1999	11	24	410	600	< 5.0	--	--	8,300	--	--	--	--
MW-8	4/2/1998	< 0.5	1	< 0.5	< 1.5	< 5	--	--	< 100	--	--	--	--
MW-8	6/8/1998	< 0.5	1	2	< 1.5	< 5.0	--	--	< 100	--	--	--	--
MW-8	12/9/1998	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	< 500	--	--	--	--
MW-8	6/26/1999	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	< 500	--	--	--	--
MW-9	10/12/2010	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 50.0	--	--	< 10.0	--
MW-9	5/10/2011	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 50.0	160	< 420	< 10.0	--
MW-9	11/29/2011	< 1.0	< 1.0	< 1.0	< 3.0	--	--	--	< 50.0	< 76	< 380	< 10.0	--
MW-9	5/9/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 100	< 400	< 400	< 10.0	< 10.0
MW-9	11/19/2013	< 0.50	< 0.70	< 0.80	< 0.80	< 0.50	--	--	< 50	49 J	< 75	1.0	0.090 J
MW-9	5/13/2014	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 29	< 67	< 4.7	< 4.7
MW-9	5/7/2015	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	28 J	< 65	< 4.7	< 4.7
MW-9	9/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	190	170 J	--	--
MW-9	8/29/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	52.9 J	115 J	101 J	--	--
MW-9	10/25/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0101	< 1.00	78.3 BJ	217	140 J	0.299 B J	< 2.00
MW-9	2/20/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	36.7 BJ	116 J	120 J	< 1.90	< 1.90
MW-9	5/13/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	< 31.6	220	107 J	< 1.90	--
MW-9	8/27/2019	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	< 31.6	107 J	98.9 J	< 1.90	--
MW-9	11/26/2019	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	47 BJ	108 J	227 J	< 1.90	--
MW-9	3/26/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	< 31.6	190 J	199 J	< 1.90	--
MW-9	6/2/2020	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.00536	< 0.0819	< 31.6	--	--	< 2.95	--

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CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	1000/800 ¹	500	500	15	15
MW-9	8/7/2020	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.00536	< 0.0819	< 31.6	216	110 J	< 2.95	--
MW-9	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-9	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-9	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	< 120	< 370	< 10	< 10
MW-9	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	210	< 360	< 2.0	< 2.0
MW-9	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	170	< 360	< 2.0	< 2.0
MW-9	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	< 110	< 360	< 2.0	< 2.0
MW-9	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 250	< 0.50	< 0.50
MW-9	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 120	< 370	< 2.0	< 2.0
MW-10	6/1/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 50.0	< 76.9	< 385	< 10.0	< 10.0
MW-10	11/29/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 100	< 420	< 420	20.4	< 3.0
MW-10	5/9/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 100	< 400	< 400	< 10.0	< 10.0
MW-10	11/19/2013	< 0.50	< 0.70	< 0.80	< 0.80	< 0.50	--	--	66 J	< 34	< 78	12.8	< 0.085
MW-10	5/13/2014	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 28	< 66	< 4.7	< 4.7
MW-10	5/7/2015	< 0.50	< 0.50	0.81 J	7.1	< 0.50	--	--	150 J	75 J	150 J	6.3 J	< 4.7
MW-10	9/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	130 J	< 29	< 68	--	--
MW-10	8/29/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	< 31.6	78.2 J	126 J	--	--
MW-11	10/25/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0100	< 1.00	170 B	343	419	1.09 B J	0.582 J
MW-11	2/20/2019	< 0.331	< 0.412	< 0.384	< 1.06	1.04	< 0.00240	< 0.361	132 B	354	466	< 1.90	< 1.90
MW-11	5/13/2019	< 0.331	< 0.412	< 0.384	< 1.06	0.674 J	< 0.00240	< 0.361	40.1 J	423	308	< 1.90	--
MW-11	8/27/2019	< 0.0896	< 0.412	< 0.158	< 0.316	0.818	< 0.00240	< 0.108	< 31.6	227	295	2.51 J	--
MW-11	11/25/2019	< 0.0896	< 0.412	< 0.158	< 0.316	0.771	< 0.00240	< 0.108	137 B	220	408	< 1.90	--
MW-11	3/25/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	75.1 BJ	747	131 J	< 1.90	--
MW-11	6/2/2020	< 0.0941	< 0.278	< 0.137	< 0.174	0.229 J	< 0.00536	< 0.0819	91.5 J	--	--	3.23 J	--
MW-11	8/6/2020	< 0.0941	< 0.278	< 0.137	< 0.174	0.266 J	< 0.00536	< 0.0819	85.2 BJ	289	317	< 2.95	--
MW-11	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-11	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-11	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	840	< 370	< 10	< 10
MW-11	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	390	< 350	< 2.0	< 2.0
MW-11	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	370	390	< 2.0	< 2.0
MW-11	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	540	480	< 2.0	< 2.0
MW-11	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	290	< 270	< 0.50	< 0.50

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CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	1000/800 ¹	500	500	15	15
MW-11	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	680	460	< 2.0	< 2.0
MW-11	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	420	< 360	< 2.0	< 2.0
MW-11	5/25/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	310	< 360	< 2.0	< 2.0
MW-12	10/25/2018	1.17	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0100	< 1.00	867	705	189 J	1.00 B J	< 2.00
MW-12	2/20/2019	4.91	< 0.412	2.81	2.54 J	< 0.367	< 0.00240	< 0.361	3,370	486	206 J	< 1.90	< 1.90
MW-12	5/13/2019	3.79	< 0.412	0.457 J	< 1.06	< 0.367	< 0.00240	< 0.361	1,320	394	198 J	< 1.90	--
MW-12	8/27/2019	3.11	< 0.412	0.705	0.404 J	< 0.102	< 0.00245	< 0.108	260	404	192 J	< 1.90	--
MW-12	11/25/2019	2.79	< 0.412	1.06	0.464 J	< 0.102	< 0.00240	< 0.108	855	349	183 J	25.8	< 1.90
MW-12	3/26/2020	1.18	< 0.412	0.844	0.318 J	< 0.102	< 0.00240	< 0.108	300 B	1,710	281	< 1.90	--
MW-12	6/2/2020	0.872	< 0.278	2.35	0.526 J	< 0.101	< 0.00536	< 0.0819	917	--	--	< 2.95	--
MW-12	8/6/2020	0.644 J	< 0.278	0.500 J	0.448 J	< 0.101	< 0.00536	< 0.0819	268 J	1,630	317	< 2.95	--
MW-12	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	290	400	< 350	< 4.0	< 4.0
MW-12	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	290	400	< 350	< 4.0	< 4.0
MW-12	3/8/2021	< 1.0 F1F2	< 1.0 F1F2	18 F1	< 2.0 F1F2	< 1.0 F1F2	--	< 1.0 F1F2	1,600	2,500	< 360	< 10 F1	< 10
MW-12	6/9/2021	< 1.0	< 1.0	2.2	< 2.0	< 1.0	--	--	530	3,000	390	< 2.0	< 2.0
MW-12	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	430	2,700	370	< 2.0	< 2.0
MW-12	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	440	2,700	420	< 2.0	< 2.0
MW-12	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	950	440	< 240	< 0.50	< 0.50
MW-12	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	510	870	< 350	< 2.0	< 2.0
MW-12	2/27/2023	< 1.0	< 1.0	1.2	< 2.0	< 1.0	--	--	1,100	900	< 370	< 2.0	< 2.0
MW-12	5/25/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	820	1,300	< 360	< 2.0	< 2.0
VE-1	4/2/1998	3,900	2,300	820	4,500	< 2500	--	--	60,500	--	--	--	--
VE-1	9/17/1998	2,700	2,000	1,400	7,700	< 100	--	--	240,000	--	--	--	--
VE-1	12/9/1998	2,200	1,400	770	3,700	< 25	--	--	73,000	--	--	--	--
VE-1	3/17/1999	4,000	2,400	790	4,100	< 25	--	--	42,000	--	--	--	--
VE-1	6/26/1999	3,800	2,600	670	3,500	< 100	--	--	42,000	--	--	--	--
VE-1	9/28/1999	3,400	2,000	630	3,000	< 25	--	--	25,000	--	--	--	--
VE-1	3/24/2000	3,200	610	27	3,600	< 5	--	--	31,000	--	--	--	--
VE-1	7/2/2000	3,200	1,900	620	3,000	130	--	--	27,000	--	--	--	--
VE-1	9/14/2000	3,200	2,200	920	3,000	< 5	--	--	29,000	--	--	--	--
VE-1	12/14/2000	2,400	1,300	580	2,600	< 40	--	--	28,000	--	--	--	--
VE-1	12/9/2001	1,300	880	510	2,400	< 40	--	--	24,000	--	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT UNIT		B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	EDB ug/L	EDC ug/L	TPH-G ug/L	TPH-D ug/L	TPH-O ug/L	Total Lead ug/L	Dissolved Lead ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	1000/800 ¹	500	500	15	15
VE-1	3/20/2002	1,800	1,300	560	2,400	280	--	--	52,000	--	--	--	--
VE-1	6/11/2002	2,800	1,600	650	2,900	< 80	--	--	26,000	--	--	--	--
VE-1	12/21/2002	1,630	1,150	741	3,660	< 200	--	--	25,900	--	--	--	--
VE-1	3/19/2003	1,590	1,450	743	3,640	< 250	--	--	27,100	--	--	--	--
VE-1	6/18/2003	2,190	1,710	929	5,230	79.8	--	--	37,000	--	--	--	--
VE-1	9/23/2003	1,620	1,270	704	3,500	< 20.0	--	--	28,300	--	--	--	--
VE-1	10/22/2003	3,360	1,850	847	4,130	< 50.0	--	--	36,700	--	--	--	--
VE-1	6/29/2004	8,070	7,030	2,230	10,400	820	--	--	192,000	--	--	--	--
VE-1	11/15/2004	5,680	6,280	3,430	17,600	< 100	--	--	99,900	--	--	--	--
VE-1	4/14/2005	3,120	3,300	1,210	5,560	< 40.0	--	--	39,600	--	--	--	--
VE-1	12/18/2005	6,140	5,850	1,400	6,750	< 100	--	--	142,000	--	--	--	--
VE-1	6/11/2006	7,200	8,100	3,900	25,100	< 500	--	--	68,300	--	--	--	--
VE-1	11/5/2006	3,780	4,320	1,190	6,390	--	--	--	60,500	--	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS	5	1000	700	1000	20	0.01	5	1000/800 ¹	500	500	15	15

Notes:

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes, Total

MTBE = Methyl-tertiary-butyl ether

TPH-G = Total petroleum hydrocarbons as gasoline by Northwest Method NWTPH-Gx

TPH-D = Total petroleum hydrocarbons as diesel by Northwest Method NWTPH-Dx

TPH-O = Total petroleum hydrocarbons as oil by Northwest Method NWTPH-Dx

EDB = Ethylene dibromide

EDC = 1,2-Dichloroethane

1,000/800¹ ug/L if no detectable levels of Benzene in the sample - otherwise 800 ug/L

<1.0 = Concentrations were not detected above the laboratory method reporting limit.

ug/L = Micrograms per liter (ppb)

-- = No value given/Not analyzed/Not applicable

MTCA = Model Toxics Control Act

Results in **bold** indicate concentrations in excess of MTCA Method A Cleanup Levels

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

B = The same analyte is found in the associated blank.

F1 = MS and/or MSD recovery exceeds control limits

F2 = MS/MSD RPD exceeds control limits

H = Sample was prepped or analyzed beyond the specified holding time

*1 = LCS/LCSD RPD exceeds control limits.

² = Sample collected from a Passive Diffusion Bag (PDB)

Regarding MW-4_20221212: Method NWTPH-Dx: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-413921 and analytical batch 580-414023 recovered outside control limits for the following analytes: #2 Diesel (C10-C24) and Motor Oil (>C24-C36). The following sample was re-prepared outside of preparation holding time due to low surrogate in the method blank MW4 _ 20221212 (580-121302-1). Both data sets are reported.

MW-5 12/12/2022 samples were not analyzed for TPH-D, TPH-O, Total Lead, or Dissolved Lead due to insufficient sample volume remaining in the well during time of collection.

Table 3
PAH Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Total Naphthalenes	Phenanthrene	Pyrene	Total Polynuclear Aromatic Hydrocarbons
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS						0.1									160			160			0.1
Well ID	Date																				
GMW-1	5/7/2015	--	--	--	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010	< 0.010	--	--	< 0.010	7.4	1.8	4	13.2	--	--	< 0.00755
GMW-1	3/2/2016	--	--	--	0.043 J	0.029 J	0.032 J	--	0.031 J	0.071	0.032 J	--	--	0.032 J	< 0.030	0.079	0.17	0.264	--	--	0.04861
GMW-1	6/6/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	2.2	0.53	1.1	3.83	--	--	--
GMW-1	9/12/2016	--	--	--	< 0.0095	< 0.0095	< 0.0095	--	< 0.0095	< 0.0095	< 0.0095	--	--	< 0.0095	7.1	1.4	2.8	11.3	--	--	< 0.00717
GMW-1	9/12/2016	--	--	--	< 0.0095	< 0.0095	< 0.0095	--	< 0.0095	< 0.0095	< 0.0095	--	--	< 0.0095	6.8	1.4	2.8	11	--	--	< 0.00717
GMW-1	2/20/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	< 0.0198	0.0121 J	0.024 J	< 0.046	--	--	< 0.007783
GMW-1	5/13/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.377	0.0625 J	0.0189 J	0.4584	--	--	< 0.007783
GMW-1	8/27/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.642	0.0389 J	0.140 J	0.8209	--	--	< 0.007783
GMW-1	3/25/2020	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.200 BJ	0.0274 J	0.0130 J	0.24	--	--	< 0.007783
GMW-1	6/2/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	0.108 J	< 0.0687	< 0.0674	< 0.176	--	--	< 0.0137
GMW-1	8/6/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	< 0.917	< 0.687	< 0.674	< 1.14	--	--	< 0.0137
GMW-1	6/9/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.20	< 0.10	< 0.051	< 0.10	< 0.10	< 0.20	--	< 0.10	< 0.10	--
MW-1	5/7/2015	--	--	--	0.025 J	0.026 J	0.044 J	--	0.020 J	0.032 J	0.018 J	--	--	0.033 J	< 0.031	0.023 J	0.026 J	0.0645	--	--	0.04032
MW-1	3/2/2016	--	--	--	< 0.011	< 0.011	< 0.011	--	< 0.011	< 0.011	< 0.011	--	--	< 0.011	0.4	0.12	0.2	0.72	--	--	< 0.008305
MW-1	2/23/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	< 0.0198	0.0129 J	0.0207 J	< 0.0435	--	--	< 0.007783
MW-1	5/14/2019	--	--	--	< 0.00820	< 0.0232	< 0.00424	--	< 0.0272	< 0.0216	< 0.00792	--	--	< 0.0296	0.110 J	0.0309 J	0.0414 J	0.1823	--	--	< 0.015566
MW-1	3/26/2020	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0777 BJ	< 0.00821	< 0.00902	< 0.0863	--	--	< 0.007783
MW-1	6/3/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	< 0.0917	< 0.0687	< 0.0674	< 0.114	--	--	< 0.0137
MW-1	8/6/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	0.0925 J	< 0.687	< 0.674	< 0.773	--	--	< 0.0137
MW-1	6/9/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.20	< 0.10	< 0.051	< 0.10	< 0.10	< 0.20	--	< 0.10	< 0.10	--
MW-2	5/7/2015	--	--	--	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010	< 0.010	--	--	< 0.010	4.3	1.1	0.35	5.75	--	--	< 0.0137
MW-2	3/2/2016	--	--	--	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010	< 0.010	--	--	< 0.010	4.3	1.7	0.34	6.34	--	--	< 0.0137
MW-2	6/6/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	4.6	2.5	0.29	7.39	--	--	< 0.0137
MW-2	9/12/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0137
MW-2	2/20/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	< 0.0198	0.00849 J	0.0174 J	< 0.03579	--	--	< 0.0137
MW-2	5/14/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0593 J	0.0214 J	0.0228 J	0.1035	--	--	< 0.0137
MW-2	8/27/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0137
MW-2	11/26/2019	--	--	--	0.00684 BJ	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0680 BJ	0.0255 BJ	0.0174 BJ	0.1109	--	--	< 0.0137
MW-2	3/26/2020	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0939 BJ	< 0.00821	< 0.00902	< 0.103	--	--	< 0.0137
MW-2	6/3/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	0.188 J	< 0.0687	0.150 J	< 0.372	--	--	< 0.0137
MW-2	8/7/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	0.171 J	< 0.687	< 0.674	< 0.852	--	--	< 0.0137
MW-2	6/9/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.20	< 0.10	< 0.051	< 0.10	< 0.10	< 0.20	--	< 0.10	< 0.10	--
MW-2	12/7/2021	< 0.10	< 0.052	< 0.10	< 0.052	< 0.10	< 0.052	< 0.052	< 0.052	< 0.10	< 0.10	< 0.21	< 0.10	< 0.052	< 0.10	< 0.10	< 0.21	--	< 0.10	< 0.10	--
MW-3	5/7/2015	--	--	--	0.016 J	0.015 J	0.025 J	--	< 0.010	0.018 J	< 0.010	--	--	0.016 J	< 0.030	0.76	0.041	0.816	--	--	0.02188
MW-3	3/2/2016	--	--	--	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010	< 0.010	--	--	< 0.010	< 0.030	< 0.010	< 0.010	< 0.025	--	--	< 0.00755
MW-3	6/6/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.031	0.032 J	< 0.010	0.053	--	--	--
MW-3	9/12/2016	--	--	--	< 0.0095	< 0.0095	< 0.0095	--	< 0.0095	< 0.0095	< 0.0095	--	--	< 0.0095	< 0.029	0.19	< 0.0095	0.20925	--	--	< 0.00717
MW-3	5/14/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0335 J	< 0.00821	< 0.00902	< 0.0421	--	--	< 0.007783
MW-3	11/25/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	< 0.0198	< 0.00821	< 0.00902	< 0.0185	--	--	< 0.007783
MW-3	3/26/2020	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0293 BJ	< 0.00821	< 0.00902	< 0.0379	--	--	< 0.007783
MW-3	8/7/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	< 0.917	< 0.687	< 0.674	< 1.14	--	--	< 0.0137
MW-3	6/9/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.20	< 0.10	< 0.051	< 0.10	< 0.10	< 0.20	--	< 0.10	< 0.10	--
MW-3	9/13/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.20	< 0.10	< 0.051	< 0.10	< 0.10	< 0.20	--	< 0.10	< 0.10	--
MW-3	12/7/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.21	< 0.10	< 0.051	0.59	< 0.10	< 0.21	--	< 0.10	< 0.10	--
MW-4	3/26/2020	--	--	--	0.0381 J	0.0250 J	0.0344 J	--	< 0.0272	< 0.0216	< 0.00792	--	--	< 0.0296	113	21.7	35.5	170.2	--	--	< 0.03559
MW-4	6/9/2021	< 5.1	< 2.5	< 0.10	< 0.051	< 0.10	0.061	0.076	< 0.051	< 0.10	< 0.051	< 0.20	< 5.1	< 0.051	76	16	28	--	0.34	0.23	--
MW-4	12/7/2021	< 0.11	< 0.053	< 0.11	< 0.053	< 0.11	0.063	< 0.053	< 0.053	< 0.11	< 0.11	< 0.21	< 0.11	< 0.053	28	4.4	8.7	--	0.16	0.17	--
MW-5	5/7/2015	--	--	--	< 0.010	< 0.010	0.014 J	--	< 0.010	< 0.010	< 0.010	--	--	< 0.010	11	3	2.5	16.5	--	--	0.00845
MW-5	3/2/2016	--	--	--	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010	< 0.010	--	--	< 0.010	9.9	2.7	2.8	15.4	--	--	< 0.00755
MW-5	6/6/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	7.3	2.3	2.3	11.9	--	--	--
MW-5	3/25/2020	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0349 BJ	< 0.00821	< 0.00902	< 0.0435	--	--	< 0.007783
MW-6	5/7/2015	--	--	--	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010	< 0.010	--	--	< 0.010	< 0.030	0.011 J	0.012 J	0.038	--	--	< 0.00755
MW-6	6/6/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.031	< 0.010	< 0.010	< 0.026	--	--	--
MW-6	9/12/2016	--	--	--	< 0.0095	< 0.0095	< 0.0095	--	< 0.0095	< 0.0095	< 0.0095	--	--	< 0.							

Table 3
PAH Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Total Naphthalenes	Phenanthrene	Pyrene	Total Polynuclear Aromatic Hydrocarbons
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS						0.1									160			160			0.1
MW-11	3/25/2020	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0887 BJ	0.0194 J	0.0106 J	0.119	--	--	< 0.00778
MW-11	6/2/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	< 0.0917	< 0.0687	< 0.0674	< 0.114	--	--	< 0.0137
MW-11	8/6/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	0.0917 J	< 0.687	0.0678 BJ	< 0.503	--	--	< 0.0137
MW-11	6/9/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.20	< 0.10	< 0.051	< 0.10	< 0.10	< 0.20	--	< 0.10	< 0.10	--
MW-11	9/13/2021	< 0.10	< 0.052	< 0.10	< 0.052	< 0.10	< 0.052	< 0.052	< 0.052	< 0.10	< 0.10	< 0.21	< 0.10	< 0.052	< 0.10	< 0.10	< 0.21	--	< 0.10	< 0.10	--
MW-11	12/7/2021	< 0.10	< 0.052	< 0.10	< 0.052	< 0.10	< 0.052	< 0.052	< 0.052	< 0.10	< 0.10	< 0.21	< 0.10	< 0.052	0.38	< 0.10	< 0.21	--	< 0.10	< 0.10	--
MW-12	2/20/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	4.81	0.897	0.782	6.489	--	--	< 0.0137
MW-12	5/13/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.463	0.328	0.0239 J	0.8149	--	--	< 0.0137
MW-12	8/27/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.257 B	0.235 J	0.0224 J	0.5144	--	--	< 0.0137
MW-12	11/25/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.659	0.244 J	0.0269 J	0.9299	--	--	< 0.0137
MW-12	3/26/2020	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.523	0.190 J	0.0407 J	0.754	--	--	< 0.0137
MW-12	6/2/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	0.519	0.138 J	0.0727 J	0.73	--	--	< 0.0137
MW-12	8/6/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	< 0.917	< 0.687	< 0.674	< 1.14	--	--	< 0.0137
MW-12	6/9/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.20	< 0.10	< 0.051	1.6	0.44	0.59	--	< 0.10	< 0.10	--
MW-12	9/13/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.20	< 0.10	< 0.051	< 0.10	< 0.10	< 0.20	--	< 0.10	< 0.10	--
MW-12	12/7/2021	< 0.10	0.11	< 0.10	< 0.050	< 0.10	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.20	< 0.10	< 0.050	0.32	< 0.10	< 0.20	--	< 0.10	< 0.10	--

Notes:
PAH = Polycyclic Aromatic Hydrocarbons
Total Carcinogenic PAH (cPAH) value is the sum of all analyzed cPAHs
Total naphthlenes value is the sum of the naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene values
<1.0 = Concentrations were not detected above the laboratory method reporting limit.
ug/L = Micrograms per liter (ppb)
-- = No value given/Not analyzed/Not applicable
MTCA = Model Toxics Control Act
Results in **bold** indicate concentrations in excess of MTCA Method A Cleanup Levels
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
B = The same analyte is found in the associated blank

Table 4
Select VOCs Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		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	1,1,2-Trichloroethane	Trichloroethene (TCE)	Tetrachloroethene (PCE)
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS						0.2					5	5
Well ID	Date											
GMW-1	8/27/2019	< 0.157	< 0.0860	< 42	6.17	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
GMW-1	3/25/2020	< 0.157	< 0.0860	< 42.0 J0	< 0.305	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
GMW-1	6/2/2020	< 0.337 J0	< 0.111	< 42.0	< 0.749	< 0.234	< 0.188	< 0.126	< 0.149	< 0.158	< 0.190	< 0.300
GMW-1	3/8/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GMW-1	6/9/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 *+	< 1.0 *+
MW-1	6/3/2020	< 0.337 J0	< 0.111	< 42.0	< 0.749	< 0.234	< 0.188	< 0.126	< 0.149	< 0.158	< 0.190	< 0.300
MW-1	3/8/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-1	6/9/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 *+	< 1.0 *+
MW-2	6/3/2020	< 0.337 J0	< 0.111	46.6 J	< 0.749	< 0.234	< 0.188	< 0.126	< 0.149	< 0.158	< 0.190	< 0.300
MW-2	3/8/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-2	6/9/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 *+	< 1.0 *+
MW-2	12/7/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-3	3/8/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-3	6/9/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 *+	< 1.0 *+
MW-3	9/13/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-3	12/7/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-4	3/8/2021	11	4.0	--	81	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-4	6/9/2021	5.4	< 1.0	--	53	< 1.0 *+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-4	12/7/2021	3.1	< 1.0	--	41	< 1.0	< 1.0	< 1.0	< 1.0	31	< 1.0	< 1.0
MW-5	3/8/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-6	6/2/2020	< 0.337 J0	< 0.111	< 42.0	< 0.749	< 0.234	< 0.188	< 0.126	< 0.149	< 0.158	< 0.190	< 0.300
MW-6	3/8/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-6	6/9/2021	< 1.0 *1	< 1.0	--	< 3.0	< 1.0 *+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-6	9/13/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-6	12/7/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-9	8/27/2019	< 0.157	< 0.0860	< 42	< 0.305	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
MW-9	11/26/2019	< 0.157	< 0.0860	54.0 J,J4	< 0.305	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
MW-9	3/26/2020	< 0.157	< 0.0860	< 42.0 J0	< 0.305	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
MW-9	6/2/2020	< 0.337 J0	< 0.111	< 42.0	< 0.749	< 0.234	< 0.188	< 0.126	< 0.149	< 0.158	< 0.190	< 0.300
MW-9	3/8/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-9	6/9/2021	< 1.0	< 1.0	--	< 3.0	< 1.0 *+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-9	9/13/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-9	12/7/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-11	8/27/2019	< 0.157	< 0.0860	< 42	< 0.305	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
MW-11	11/25/2019	< 0.157	< 0.0860	< 42 J4	< 0.305	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
MW-11	3/25/2020	< 0.157	< 0.0860	< 42 J0	< 0.305	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199

Table 4
Select VOCs Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		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	1,1,2-Trichloroethane	Trichloroethene (TCE)	Tetrachloroethene (PCE)
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS						0.2					5	5
Well ID	Date											
MW-11	6/2/2020	< 0.337 J0	< 0.111	< 42.0	< 0.749	< 0.234	< 0.188	< 0.126	< 0.149	< 0.158	< 0.190	< 0.300
MW-11	3/8/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-11	6/9/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 *+
MW-11	9/13/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-11	12/7/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-12	8/27/2019	< 0.157	< 0.0860	< 42	< 0.305	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
MW-12	11/25/2019	< 0.157	< 0.0860	< 42 J4	1.82 J	< 0.118	< 0.188	< 0.0933	< 0.152	3.39	< 0.153	< 0.199
MW-12	3/26/2020	< 0.157	< 0.0860	< 42.0 J0	1.82 J	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
MW-12	6/2/2020	< 0.337 J0	< 0.111	< 42.0	1.54 J	< 0.234	< 0.188	< 0.126	< 0.149	< 0.158	< 0.190	< 0.300
MW-12	3/8/2021	< 1.0 F2	< 1.0 F1F2	--	< 3.0 F2	< 1.0 F2	< 1.0 F1F2	< 1.0 F1F2	< 1.0 F1F2	< 1.0 F1F2	< 1.0 F1F2	< 1.0 F1F2
MW-12	6/9/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 *+
MW-12	9/13/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-12	12/7/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:

<1.0 = Concentrations were not detected above the laboratory method reporting limit.

ug/L = Micrograms per liter (ppb)

-- = No value given/Not analyzed/Not applicable

MTCA = Model Toxics Control Act

Results in **bold** indicate concentrations in excess of MTCA Method A Cleanup Levels

J = estimated value – The result is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)

J0 = The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration met method criteria

J4 = The associated batch QC was outside the established quality control range for accuracy

*+ = The LCS and/or LCSD is outside acceptance limits, high biased

F1 = MS and/or MSD recovery exceeds control limits

F2 = MS/MSD RPD exceeds control limits

Table 5
Groundwater Analytical Bioparameters
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		Nitrogen, Nitrite as N	Nitrogen, Nitrate as N	Sulfate	Total Dissolved Solids	Arsenic
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS						5
Well ID	Date					
GMW-1	11/29/2022	< 400	860	42,000	150,000	< 5.0
GMW-1	2/27/2023	< 400 HH3	< 200 HH3	29,000	640,000	< 5.0
MW-2	11/29/2022	< 400	13,000	110,000	320,000	< 5.0
MW-2	2/27/2023	< 400 HH3	820 HH3	110,000	240,000	< 5.0
MW-3	11/29/2022	< 400	1,900	36,000	120,000	< 5.0
MW-3	2/27/2023	< 400 HH3	< 200 HH3	26,000	78,000	< 5.0
MW-4	12/12/2022	< 400 HH3	< 200 HH3	300,000	610,000	< 5.0
MW-4	2/27/2023	< 400 HH3	< 200 HH3	170,000	440,000	< 5.0
MW-5	12/12/2022	--	--	--	--	38
MW-6	11/29/2022	< 400	1,500	11,000	230,000	< 5.0
MW-6	2/27/2023	< 400 HH3F1	1,300 HH3F1	26,000 F1	110,000	< 5.0
MW-9	11/29/2022	< 400	820	20,000	69,000	< 5.0
MW-11	11/29/2022	< 400	5,500	230,000	800,000	< 5.0
MW-11	2/27/2023	< 2000 HH3	50,000 HH3	550,000	1,100,000	< 5.0
MW-12	11/29/2022	< 400	< 200	260,000	780,000	< 5.0
MW-12	2/27/2023	< 400 HH3	< 200 HH3	20,000	450,000	8.4

Notes:

ug/L = Micrograms per liter (ppb)

< = Concentrations were not detected above the laboratory method reporting limit.

-- = No value given/Not analyzed/Not applicable

H - Sample was prepped or analyzed beyond the specified holding time

H3 - Sample was received and analyzed past holding time

F1 = MS and/or MSD recovery exceeds control limits

Table 6
SVE/AS System Operational Data
Former ARCO Facility 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Date	SVE Operation (on or off) Arrival / Departure	SVE Hour Meter (Hours)	SVE Period Operation (Hours)	SVE Percent Uptime (%)	AS Operation (on or off) Arrival / Departure	AS Hour Meter (Hours)	AS Period Operation (Hours)	AS Percent Uptime (%)	Cat Ox Inlet Temperature (°F)	Post-Dilution ¹						Effluent PID (ppmv)	Destruction Efficiency (%)	VOC Mass Removal Rate (lbs/day)	VOC Mass Removal Rate (lbs/period)	Cumulative VOC Removal (lbs)		Comments
										Pressure (in. Wc)	Influent Temperature (°F)	Influent Velocity (fpm)	Influent Flowrate (acfm)	Influent Flowrate (scfm)	Influent PID (ppmv)							
Permit Requirements		--	--	--		--	--	--	> 625	--	--		--	<120	--	<200	>98% ²					
04/20/16	off / on	6021.5	--	--	on / on	37.8	--	--	633.0	3.0	83.0	1080.0	36.8	35.5	316.0	0.9	100%	3.61	--	--	Mass removal calculated with data from 12/17/15	
04/22/16	on / on	6064.0	42.5	88.5%	on / on	37.8	0.0	0.0%	649.0	2.0	89.0	1110.0	37.9	36.0	283.7	2.1	99%	3.29	5.83			
04/27/16	on / on	6189.6	125.6	100.0%	off / off	37.8	0.0	0.0%	626.0	3.0	88.0	840.0	28.6	27.4	367.5	6.0	98%	3.24	16.96	22.78		
05/04/16	on / on	6354.2	164.6	100.0%	on / on	37.8	0.0	0.0%	626.0	3.0	91.0	920.0	31.4	29.8	245.5	1.4	99%	2.36	16.17	38.95		
05/10/16	on / on	6496.4	142.2	100.0%	on / on	37.8	0.0	0.0%	647.6	3.0	99.0	760.0	25.9	24.3	211.0	1.5	99%	1.65	9.78	48.73		
06/13/16	off / on	7131.0	634.6	77.8%	off / on	37.8	0.0	0.0%	649.4	2.0	90.0	897.0	30.6	29.1	586.0	2.5	100%	5.48	177.48	226.21		
7/12/16 ³	on / on	--	--	--	off / off	--	--	--	--	--	--	--	--	--	--	0.0	--	--	--	226.21		
08/24/16	on / on	7492.0	361.0	20.9%	on / on	37.8	0.0	0.0%	644.0	5.0	86.5	1650.0	56.3	54.2	288.9	0.4	100%	5.04	75.83	302.03		
09/20/16	on / on	8141.5	649.5	100.2%	on / on	37.8	0.0	0.0%	662.0	4.0	84.0	1029.0	35.1	33.9	398.0	1.1	100%	4.34	117.46	419.50		
10/27/16	off / on	8721.0	579.5	65.3%	off / on	37.8	0.0	0.0%	662.0	1.0	75.0	120.0	4.1	4.0	135.0	0.0	100%	0.17	4.18	423.68		
11/16/16	off / on	8831.1	110.1	22.9%	off / on	37.8	0.0	0.0%	719.6	1.0	59.0	290.0	9.9	9.9	451.8	5.2	99%	1.44	6.63	430.31		
12/15/16	off / on	8989.1	158.0	22.7%	off / on	37.8	0.0	0.0%	645.8	0.5	65.0	280.0	9.5	9.5	388.0	6.4	98%	1.18	7.79	438.10		
01/31/17	on / on	10005.0	1015.9	90.1%	on / on	38.2	0.4	0.0%	662.0	1.0	62.0	480.0	16.4	16.3	159.6	2.5	98%	0.84	35.55	473.65		
02/13/17	off / on	10104.9	99.9	32.0%	off / on	38.2	0.0	0.0%	625.8	1.0	94.5	745.0	25.4	23.9	182.8	0.0	100%	1.41	5.85	479.51		
03/01/17	off / on	10112.1	7.2	1.9%	off / on	38.3	0.1	0.0%	663.8	3.0	120.0	885.0	30.2	27.3	215.0	0.5	100%	1.89	0.57	480.07		
04/26/17	on / on	11208.2	1096.1	81.6%	on / on	38.3	0.0	0.0%	645.8	5.0	78.0	1800.0	61.4	60.1	64.4	0.9	99%	1.25	56.87	536.94		
06/06/17	off / on	11250.7	42.5	4.3%	off / on	38.4	0.1	0.0%	665.6	9.0	152.7	2290.0	78.1	67.7	198.8	3.0	98%	4.34	7.68	544.62		
07/07/17	on / on	11967.3	716.6	96.3%	on / on	38.4	0.0	0.0%	663.8	9.0	122.4	1460.0	49.8	45.4	160.0	3.2	98%	2.34	69.89	614.51		
08/30/17	on / on	13184.3	1217.0	93.9%	off / on	38.4	0.0	0.0%	663.8	10.0	85.0	1900.0	64.8	63.3	395.0	4.5	99%	8.06	408.47	1022.98		
09/21/17	on / on	13708.3	524.0	99.2%	on / on	38.4	0.0	0.0%	663.8	8.0	127.5	2105.0	71.8	64.8	385.5	1.3	100%	8.04	175.56	1198.54		
10/05/17	off / on	13903.3	195.0	58.0%	off / on	38.4	0.0	0.0%	665.6	12.0	127.0	2502.0	85.3	77.8	402.0	2.4	99%	10.07	81.83	1280.37		
11/02/17	on / on	14536.5	633.2	94.2%	on / on	38.4	0.0	0.0%	676.4	8.0	84.2	1882.0	64.2	62.5	230.0	0.2	100%	4.63	122.17	1402.54		
12/27/17	on / on	15330.2	793.7	60.1%	on / on	38.5	0.0	0.0%	663.8	2.0	72.0	860.0	29.3	28.8	24.6	0.1	100%	0.23	7.55	1410.09		
01/30/18	on / on	16147.3	817.1	100.1%	off/off	38.5	0.0	0.0%	663.8	3.0	93.5	980.0	33.4	31.6	13.4	0.2	99%	0.14	4.65	1414.73		
02/21/18	on / on	16675.8	528.5	100.1%	off / off	38.5	0.0	0.0%	663.8	1.9	58.9	819.0	27.9	28.1	19.6	0.0	100%	0.18	3.91	1418.64		
03/13/18	on / on	17135.6	459.8	95.8%	on / on	39.6	1.1	0.2%	662.0	15.0	65.0	2297.0	78.3	80.4	60.9	1.3	98%	1.58	30.22	1448.86		
04/18/18	off / on	17399.9	264.3	30.6%	off / on	281.4	241.8	28.0%	667.0	20.0	68.0	2875.0	98.0	101.3	263.7	2.9	99%	8.60	94.71	1543.57		
05/21/18	on / on	18190.8	790.9	100.0%	on / on	999.2	717.8	90.6%	694.4	1.0	145.0	840.0	28.6	24.7	148.0	3.1	98%	1.18	38.76	1582.33		
06/19/18	off / on	--	--	--	off / on	--	--	--	690.0	--	--	--	--	105.0	140.0	2.0	99%	4.73	--	1582.33		
07/18/18	off / on	19156.4	965.6	69.4%	off / off	1548.9	549.7	39.5%	674.6	12.0	90.0	3105.0	105.9	103.1	49.0	1.0	98%	1.63	65.42	1647.75		
08/23/18	off / on	20019.6	863.2	99.9%	off / off	1548.9	0	0.0%	671.0	30.0	88.0	2234.0	76.2	77.6	104.0	1.0	99%	2.60	93.48	1741.22		
09/13/18	on / on	20523.2	503.6	99.9%	off / off	1548.9	0	0.0%	671.0	5.0	91.5	1730.0	59.0	56.3	102.4	2.3	98%	1.86	38.96	1780.18		
10/05/18	on / on	21048.9	525.7	99.6%	off / off	1548.9	0	0.0%	671.0	5.0	73.0	778.0	26.53	26.2	68.0	0.8	99%	0.57	12.57	1792.74		
11/06/18	off / on	21197.4	148.5	19.3%	off / off	1548.9	0	0.0%	678.2	10.0	108.0	724.0	24.69	23.2	148.0	1.9	99%	1.10	6.83	1799.57		
12/13/18	off / on	21892.5	695.1	78.3%	off / off	1548.9	0	0.0%	789.8	2.0	77.7	758.0	25.85	25.1	578.2	11.7	98%	4.68	135.45	1935.02		
01/10/19	off / on	22560.6	668.1	99.4%	off / off	1548.9	0	0.0%	788.0	4.0	85.0	1100.0	37.51	36.1	377.0	7.8	98%	4.39	122.13			

Table 6
SVE/AS System Operational Data
Former ARCO Facility 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Date	SVE Operation (on or off) Arrival / Departure	SVE Hour Meter (Hours)	SVE Period Operation (Hours)	SVE Percent Uptime (%)	AS Operation (on or off) Arrival / Departure	AS Hour Meter (Hours)	AS Period Operation (Hours)	AS Percent Uptime (%)	Cat Ox Inlet Temperature (°F)	Post-Dilution ¹						Effluent PID (ppmv)	Destruction Efficiency (%)	VOC Mass Removal Rate (lbs/day)	VOC Mass Removal Rate (lbs/period)	Cumulative VOC Removal (lbs)	Comments
										Pressure (in. Wc)	Influent Temperature (°F)	Influent Velocity (fpm)	Influent Flowrate (acfm)	Influent Flowrate (scfm)	Influent PID (ppmv)						
Permit Requirements		--	--	--		--	--	--	> 625	--	--		--	<120	--	<200	>98% ²				
05/05/22	on / on	34333.4	673.8	100.0%	off / off	1564.1	0	0.0%	629.6	8.0	52.0	2237.1	76.29	79.0	3.8	0.0	100%	0.10	2.71	2409.43	Pre vac event readings
05/05/22	on / on	34333.9	0.5	100.0%	off / off	1564.1	0	0.0%	633.2	6.0	78.0	2481.7	84.63	83.0	25.5	0.0	100%	0.68	0.01	2409.45	Post vac event readings
05/29/22	off / on	34338.7	4.8	0.9%	off / off	1564.1	0	0.0%	629.6	8.0	65.0	1650.0	69.31	70.0	45.3	1.4	97%	1.02	0.20	2409.65	
06/30/22	on / on	35125.3	786.6	100.0%	off / off	1564.1	0	0.0%	629.6	7.0	70.0	1880.6	64.13	64.0	38.9	0.8	98%	0.80	26.27	2435.92	System shutdown due to alarm engaging, no alarm sent
07/21/22	off / on	35190.0	64.7	12.8%	off / off	1564.1	0	0.0%	629.6	7.0	135.0	2639.1	89.99	80.0	59.2	2.2	96%	1.52	4.11	2440.03	System Shutdown with inactive telemetry alarm
07/27/22	on / on	35333.2	143.2	99.4%	off / off	1564.1	0	0.0%	629.6	8.0	130.0	2447.4	83.46	75.0	39.3	0.0	100%	0.95	5.66	2445.70	
08/30/22	on / on	36147.9	814.7	99.8%	off / off	1564.1	0	0.0%	629.6	9.0	125.0	2517.7	85.85	78.0	33.3	0.0	100%	0.84	28.39	2474.09	
09/21/22	on / on	36640.9	493.0	93.4%	off / off	1564.1	0	0.0%	629.6	8.0	105.0	2406.2	82.05	77.0	50.1	0.1	100%	1.24	25.52	2499.60	
10/24/22	on / on	37408.0	767.1	96.9%	off / off	1564.1	0	0.0%	627.8	9.0	95.0	2449.8	83.54	80.0	25.7	0.1	100%	0.66	21.16	2520.76	
11/21/22	on/on	37947.7	539.7	80.3%	off / off	1564.1	0	0.0%	629.6	6.0	75.0	1367.7	46.64	46.0	21.7	0.0	100%	0.32	7.23	2527.99	System shutdown down during cold temperatures
12/20/22	off / off	38163.7	216.0	31.0%	off / off	1564.1	0	0.0%	629.6	--	--	--	--	--	16.8	0.0	100%	--	--	--	System shutdown down during cold temperatures, readings for permit compliance
01/18/23	on / on	38195.2	31.5	4.5%	off / off	1564.1	0	0.0%	629.6	1.0	70.0	1600.0	73.21	72.0	0.1	0.0	100%	0.00	0.00	2527.99	
02/24/23	on / on	39079.7	884.5	99.6%	off / off	1564.1	0	0.0%	629.6	7.0	80.0	1300.0	68.40	67.0	0.6	0.0	100%	0.01	0.48	2528.47	
03/31/23	on / on	39844.3	764.6	91.0%	off / off	1564.1	0	0.0%	629.6	5.0	87.0	1950.3	66.51	64.0	0.6	0.0	100%	0.01	0.39	2528.86	
04/21/23	on / off	40284.4	440.1	87.3%	off / off	1564.1	0	0.0%	629.6	1.0	60.0	2047.8	69.83	70.0	0.4	0.0	100%	0.01	0.17	2529.03	System shutdown after readings
06/29/23	off / on	40286.0	1.6	0.1%	off / off	1564.1	0	0.0%	631.4	10.0	75.0	2591.5	88.37	88.0	1.3	0.0	100%	0.04	0.00	2529.03	System started up for rebound study
06/29/23	on / on	40288.3	2.3	100.0%	off / off	1564.1	0	0.0%	627.8	10.0	80.0	2675.1	91.22	90.0	3.8	0.0	100%	0.11	0.01	2529.04	Increased number of SVE wells under vacuum

2023 Annual Operational Hours	2,093
2023 Average Uptime Percentage	53.83%
2023 Average SVE flow rate (scfm):	75.2

SVE = Soil Vapor Extraction
AS = Air Sparge
Air Sparge and Soil Vapor Extraction = Ambient air is pressurized and pumped into the subsurface to volatilize constituents for extraction by the SVE System. Vapor is extracted by vacuum and is treated by combustion before discharging to the atmosphere.

PSCAA Permit = Puget Sound Clean Air Agency (PSCAA) emission discharge permit #29642
< = Operation data must be less than the permit requirement
> = Operation data must be greater than the permit requirement
Period = Length of time since the previous date that operational data was collected
% = Percentage
Uptime = Calculated percentage of operation during the period. (Hours of operation per period / total hours per period)
Cat Ox = Catalytic Oxidizer, the system component that catalyzes combustion of extracted Volatile Organic Compounds (VOCs)
°F = Fahrenheit
in Wc = Inches of water column
fpm = feet per minute
acfm = Actual cubic feet per minute measured by anemometer
scfm = Standard cubic feet per minute. scfm = acfm * (Pactual / Pstandard) * (Tstandard / Tactual)
Pstandard = Standard pressure = 1 atmosphere (14.7 pounds per square inch [psi])
Tstandard = Standard temperature = 68 °F, as used by the National Institute of Standards and Technology (NIST)
Pactual = Influent vacuum. Units converted in the formula from in.Hg to psi.
Tactual = Influent temperature. Units converted in the formula from °F to ° R (degrees Rankine)

PID = Photoionization Detector
PSD = Process Safety Device
ppmv = Parts per million volume
Destruction Efficiency = (influent VOCs - effluent VOCs) / (influent VOCs). VOCs measured by PID
Mass Removal Rate= Flowrate * time * Concentration * Molecular Weight * Molar Density of Air

VOC molecular weight = 86 lb / [lb mol]
Molar density of air = P/RT = 1 atm / (0.7302 [ft³ * atm] / [lb mol * °R]) / (68 + 459.67)°R = 0.00260 lb mol / ft³
Molar density of air based on standard pressure of 1 atm and standard temperature of 68°F, as used by the National Institute of Standards and Technology (NIST).
P = pressure
R = gas constant
°R = degrees Rankine
T = temperature
atm = atmosphere
lb mol = Pound per Mole
ft³ = cubic feet

lbs = Pounds
lbs/day = Pounds per day
lbs/period = Pounds per period
Cumulative mass removed = Previous mass removed + Removal rate * Elapsed time
-- = Not collected/ not available

1= Influent sample port is located post-dilution thus flow rate through cat ox is equal to exhaust flowrate and compliant with Puget Sound Clean Air Agency (PSCAA) permit #29664 subpart 7b.
2= Destruction Efficiency must be >97% when TPH influent is greater than 200 ppmv per PSCAA permit # 29664 subpart 5.
3=System shut down on 7/13/16 before O&M measurements were collected for the month. System restarted on 8/19/19. Effluent PID collected on 7/12/16 on system visit.
4=Post dilution flow rate is taken in a 2.5-inch pipe. Flow rate on field forms may differ from final table due to flow calculation based on a 2-inch pipe.
5= Flow rate for the 6/19/18 O&M Event was collected from the PLC Screen.
6= New CATOX Installed

$$scfm = acfm \cdot \frac{(14.7 \text{ [psi]} + (influent \text{ pressure} \cdot 0.0361 [\frac{psi}{in. \text{ Wc}}])}{14.7 \text{ [psi]}} \cdot \frac{68 \text{ }^{\circ}\text{F} + 460 \text{ }^{\circ}\text{R}}{(460^{\circ}\text{R} + influent \text{ temperature } ^{\circ}\text{F})}$$

$$Mass \text{ Removal Rate} = (flowrate \text{ [scfm]} * 60 \text{ [min]}x \text{ 24 [hr]})x \text{ (VOCs [ppmv]} * 10^6x \text{ 86 } [\frac{lbs}{mol}]x \text{ .0026 } [\frac{lbmol}{ft^3}])$$

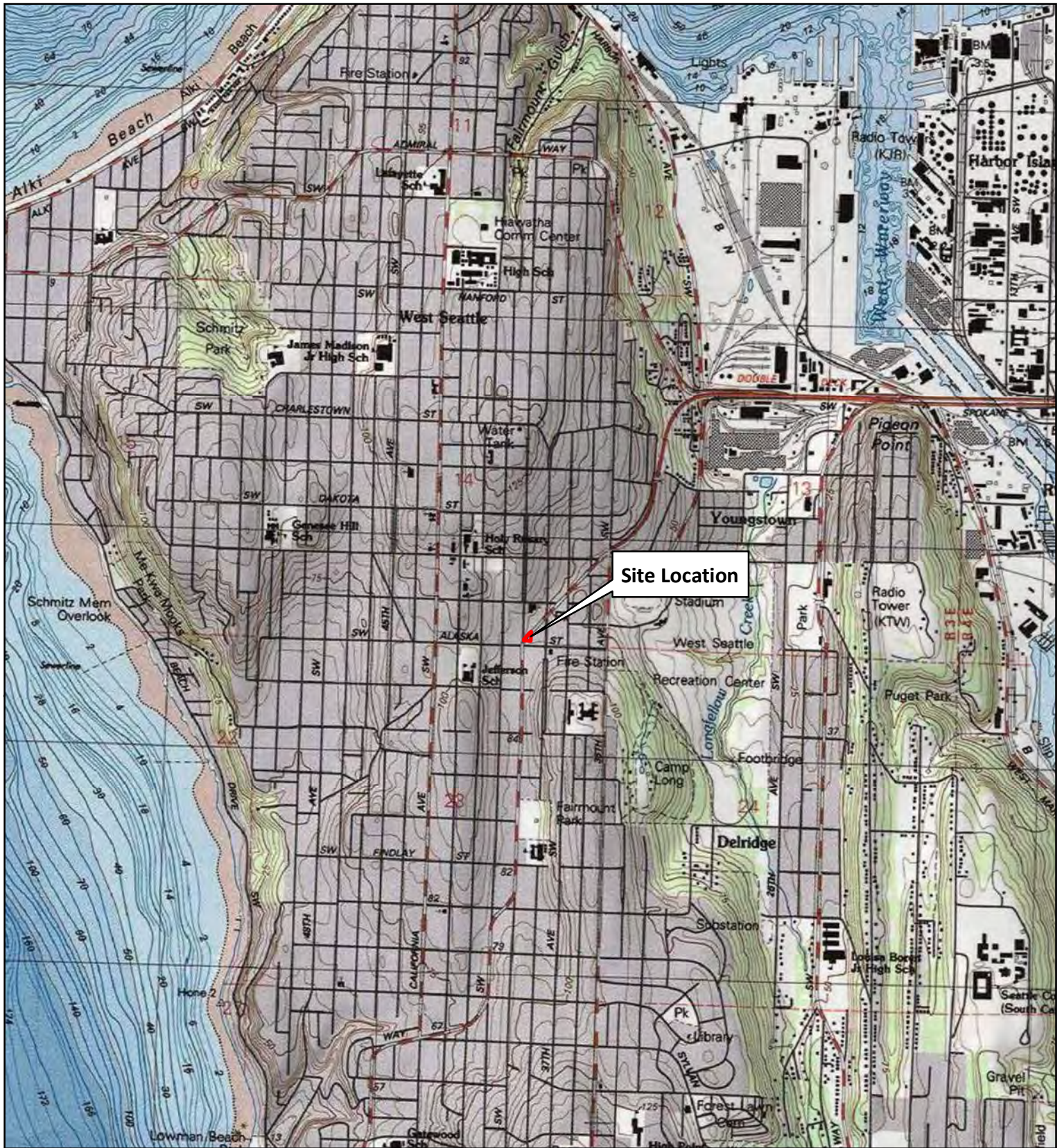
Figures

Figure 1 - Site Location Map

Figure 2 - Site Aerial Map

Figure 3 - Groundwater Analytical and Elevation Contour Map – February 27, 2023

Figure 4 - Groundwater Analytical and Elevation Contour Map – May 25, 2023



USGS Topographic Map 1:24,000
Duwamish Head, WA 2017

0 500 1,000 2,000 3,000 4,000 Feet

FIGURE 1

SITE LOCATION MAP
FORMER ARCO FACILITY NO. 11060
4580 FAUNTLEROY WAY SW
SEATTLE, WA

PROJECT NO.
WA - 11060 SEATTLE

PREPARED BY
SAA

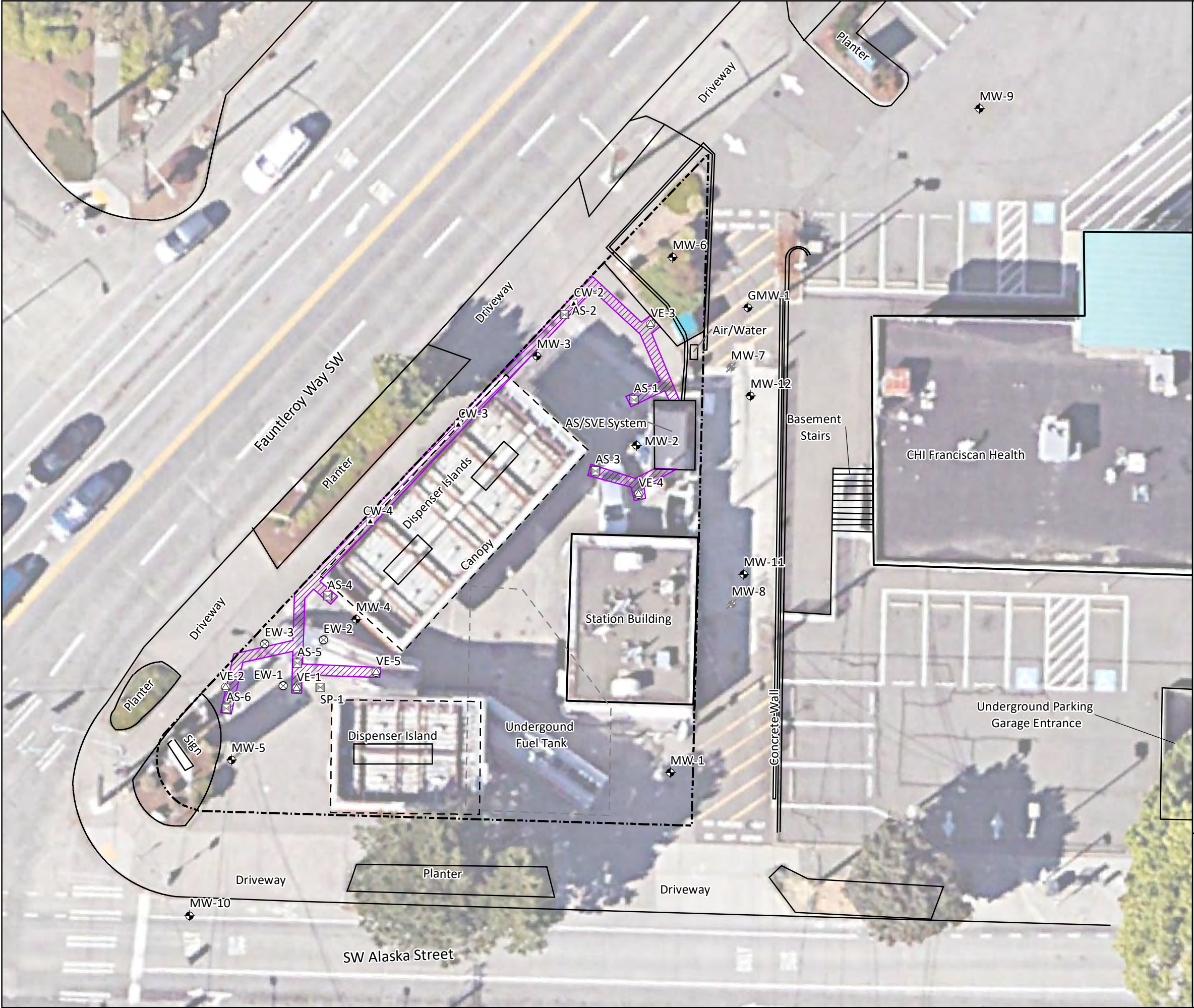
REF SCALE
1:24,000

DATE
2/15/2021

REVIEWED BY
JS

MAP SCALE
1 INCH = 2,000 FEET





- Legend**
- ☒ Air Sparge
 - ⊗ Vapor Extraction Well
 - ⬢ Combination Air Sparge and Vapor Extraction Well
 - ⊗ Extraction Well
 - ⬢ Monitoring Well
 - ✖ Abandoned Monitoring Well
 - - - Approximate Property Boundary
 - ▨ Trench Location

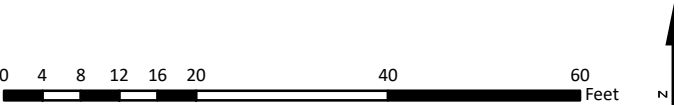
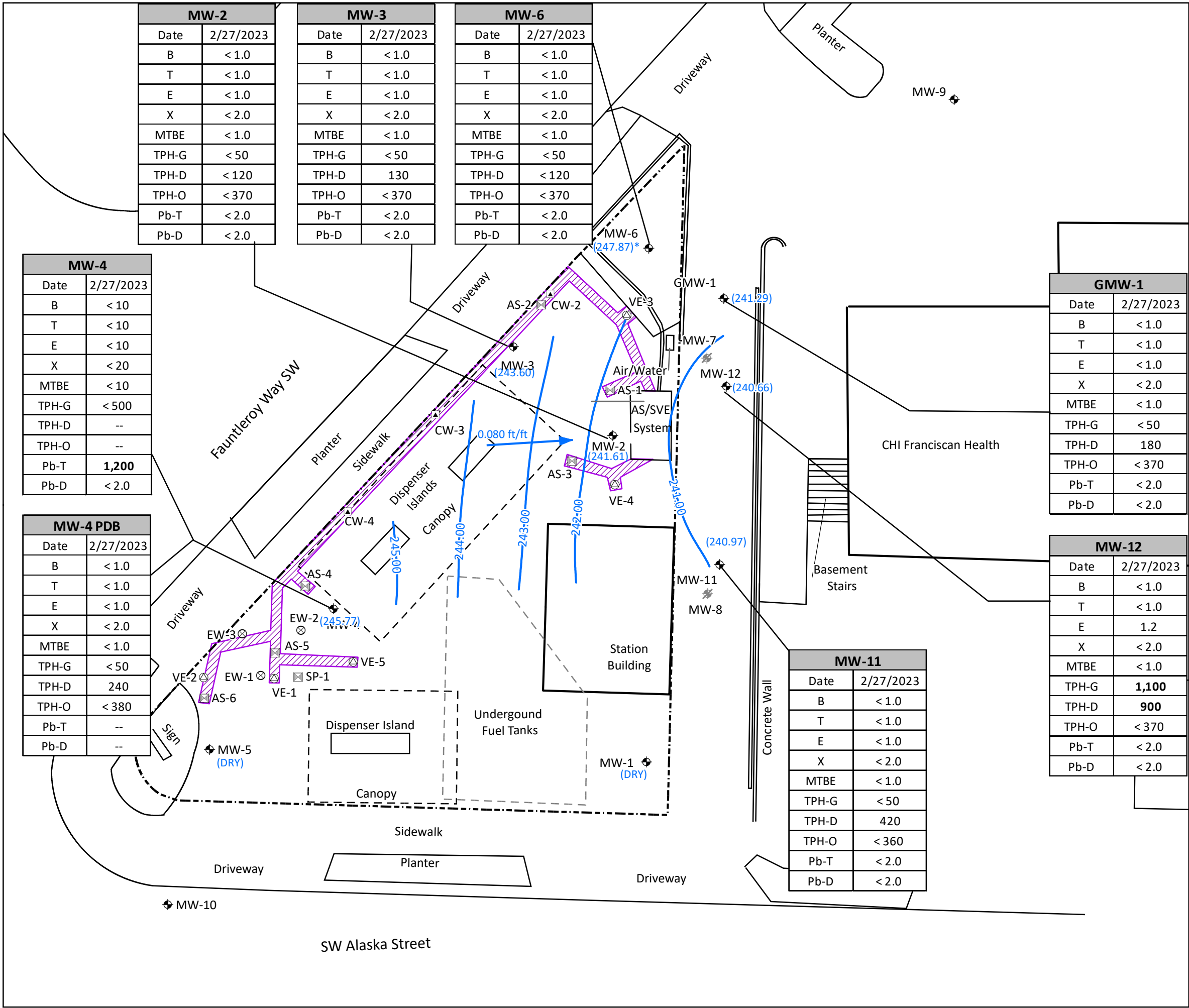


FIGURE 2
SITE AERIAL MAP
FORMER ARCO FACILITY NO. 11060 4580
FAUNTLEROY WAY SEATTLE, WA

PROJECT NO. WA - 11060 SEATTLE	PREPARED BY SAA	REF SCALE 1:240	
DATE 2/15/2021	REVIEWED BY JS	MAP SCALE 1 INCH = 20 FEET	



Legend

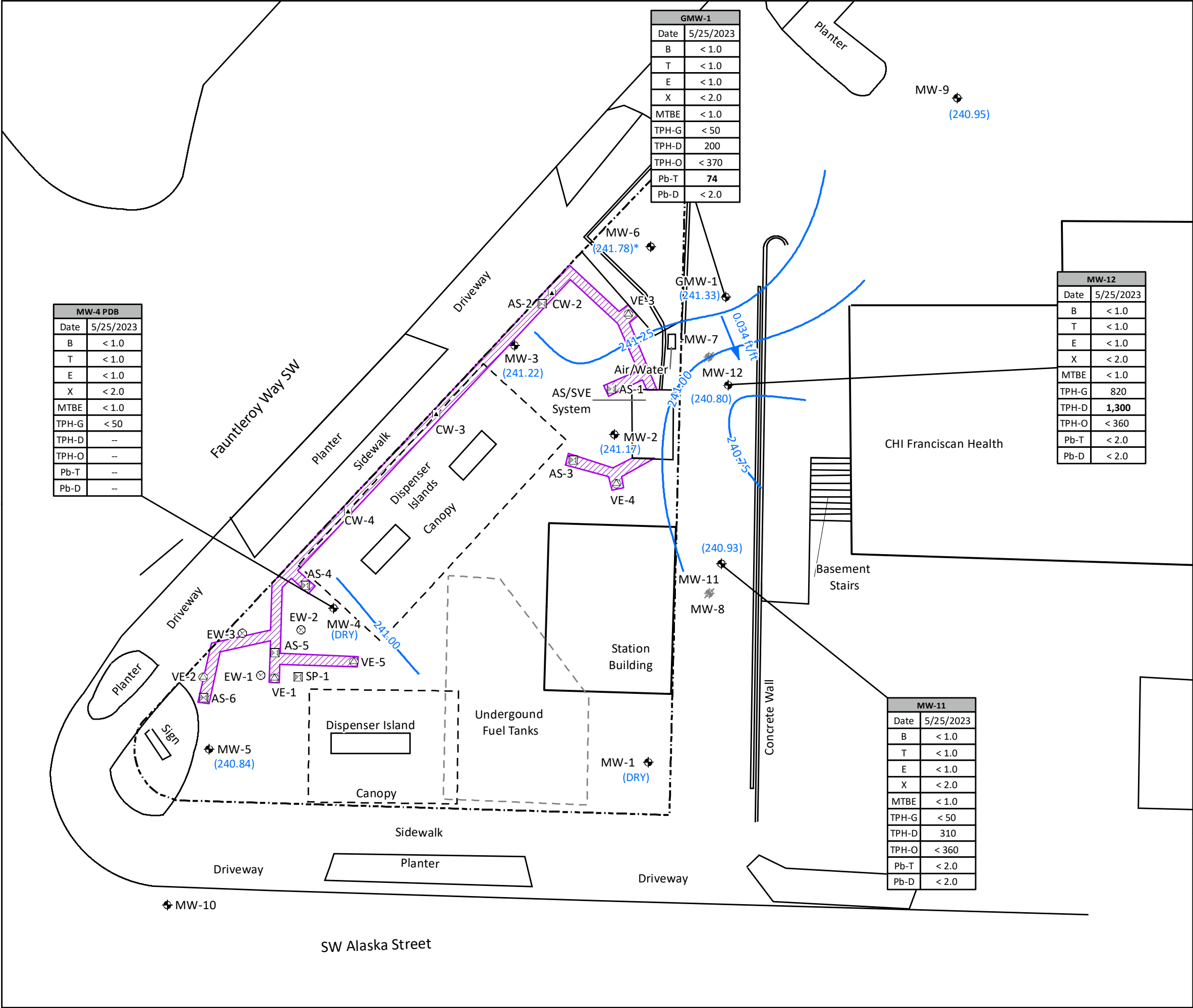
- Monitoring Well
- Abandoned Monitoring Well
- Air Sparge
- Vapor Extraction Well
- Combination Air Sparge and Vapor Extraction Well
- Extraction Well
- Trench Location
- Groundwater Elevation Contour (1.00 feet)
- Inferred Groundwater Flow Direction

0.080 ft/ft with Groundwater Gradient (feet / foot)
(240.97) Groundwater Elevation (feet)
* Not Used in Contouring

Notes:
All concentrations reported in micrograms per liter (ug/L)
B - Benzene
T - Toluene
E - Ethylbenzene
X - Total Xylenes
MTBE - Methyl-tertiary-butyl ether
TPH-G = Total petroleum hydrocarbons as gasoline
TPH-D = Total petroleum hydrocarbons as diesel
TPH-O = Total petroleum hydrocarbons as oil
Pb-T = Total Lead
Pb-D = Dissolved Lead
< - Concentrations were not detected above the laboratory method reporting limit
Bold = Value above MTCA Method A Cleanup Level
MTCA = Model Toxics Control Act

FIGURE 3
GROUNDWATER ANALYTICAL AND ELEVATION CONTOUR MAP
FEBRUARY 27, 2023
FORMER ARCO FACILITY NO. 11060
4580 FAUNTLEROY WAY
SEATTLE, WA

PROJECT NO. WA - 11060 Seattle	PREPARED BY JS	REF SCALE 1:240
DATE 7/13/2023	REVIEWED BY NH	MAP SCALE 1 INCH = 20 FEET



Legend

- Monitoring Well
- Abandoned Monitoring Well
- Air Sparge
- Vapor Extraction Well
- Combination Air Sparge and Vapor Extraction Well
- Extraction Well
- Trench Location
- Groundwater Elevation Contour (0.25 feet)
- Inferred Groundwater Flow Direction

0.034 ft/ft with Groundwater Gradient (feet / foot)
(240.95) Groundwater Elevation (feet)
* Not Used in Contouring

Notes:
All concentrations reported in micrograms per liter (ug/L)
B - Benzene
T - Toluene
E - Ethylbenzene
X - Total Xylenes
MTBE - Methyl-tertiary-butyl ether
TPH-G = Total petroleum hydrocarbons as gasoline
TPH-D = Total petroleum hydrocarbons as diesel
TPH-O = Total petroleum hydrocarbons as oil
Pb-T = Total Lead
Pb-D = Dissolved Lead
< - Concentrations were not detected above the laboratory method reporting limit
Bold = Value above MTCA Method A Cleanup Level
MTCA = Model Toxics Control Act
MW-4 sample was collected from a Passive Diffusion Bag (PDB)

FIGURE 4
GROUNDWATER ANALYTICAL AND ELEVATION CONTOUR MAP
MAY 25, 2023
FORMER BP FACILITY NO. 11060
4580 FAUNTLEROY WAY
SEATTLE, WA

PROJECT NO. WA - 11060 Seattle	PREPARED BY JS	REF SCALE 1:240
DATE 7/19/2023	REVIEWED BY NH	MAP SCALE 1 INCH = 20 FEET

Appendix A - Analytical Lab Reports and Chain-of-Custody Documentation



ANALYTICAL REPORT

PREPARED FOR

Attn: Megan Richard
Antea USA Inc.
18378-B Redmond Way
Redmond, Washington 98052
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JOB DESCRIPTION

BP - ARCO 11060

JOB NUMBER

580-124247-1

Eurofins Seattle

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

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

Authorization



Authorized for release by
Katie Grant, Project Manager I
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(253)922-2310

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Revision 1

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Definitions/Glossary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.

Glossary

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

Case Narrative

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Job ID: 580-124247-1

Laboratory: Eurofins Seattle

Narrative

Job Narrative 580-124247-1

Revision March 17

Dissolved arsenic was added to the report.

Comments

No additional comments.

Receipt

The samples were received on 3/3/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -2.0° C, -0.2° C and 1.4° C.

Receipt Exceptions

The following sample does not appear to be a sample that can be treated as a water however the laboratory will need to make this determination. MW-4_20230227 (580-124247-3)

The following samples were received outside of holding time for Nitrate, Nitrite analysis.: MW-2_20230227 (580-124247-1), MW-3_20230227 (580-124247-2), MW-4_20230227 (580-124247-3), MW-6_20230227 (580-124247-4), MW-11_20230227 (580-124247-5), MW-12_20230227 (580-124247-6) and GMW-1_20230227 (580-124247-7).

The sample ID on the container labels for the following sample did not match the information listed on the Chain-of-Custody (COC): GMW-1_20230227 (580-124247-7). The container labels list GWM-1_20230227, while the COC lists GMW-1_20230227. The samples were logged per the COC pending client verification.

GC/MS VOA

Method NWTPH-Gx: The continuing calibration verification (CCV) associated with batch 580-419618 recovered above the upper control limit for Gasoline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-2_20230227 (580-124247-1), MW-3_20230227 (580-124247-2), MW-4_20230227 (580-124247-3), MW-6_20230227 (580-124247-4), MW-11_20230227 (580-124247-5), GMW-1_20230227 (580-124247-7), MW-4-PDB_20230227 (580-124247-8) and (CCVIS 580-419618/5).

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

GC Semi VOA

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

Metals

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

General Chemistry

Method 300.0: Due to the high concentration of Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 580-419794 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 300.0: Due to the high concentration of certain analytes, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 580-419958 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 580-419796 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300.0: The following samples were received outside of holding time: MW-2_20230227 (580-124247-1), MW-3_20230227 (580-124247-2), MW-4_20230227 (580-124247-3), MW-6_20230227 (580-124247-4), MW-11_20230227 (580-124247-5), MW-12_20230227 (580-124247-6) and GMW-1_20230227 (580-124247-7).

Case Narrative

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Job ID: 580-124247-1 (Continued)

Laboratory: Eurofins Seattle (Continued)

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

Organic Prep

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

VOA Prep

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

Detection Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Client Sample ID: MW-2_20230227

Lab Sample ID: 580-124247-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	110		7.5	4.0	mg/L	5		300.0	Total/NA
Nitrate as N	0.82	H H3	0.20	0.030	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.82	H H3	0.40	0.070	mg/L	1		300.0	Total/NA
Total Dissolved Solids	240		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-3_20230227

Lab Sample ID: 580-124247-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	130		120	68	ug/L	1		NWTPH-Dx	Total/NA
Sulfate	26		1.5	0.80	mg/L	1		300.0	Total/NA
Total Dissolved Solids	78		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-4_20230227

Lab Sample ID: 580-124247-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1200		20	2.0	ug/L	5		6020B	Total Recoverable
Sulfate	170		7.5	4.0	mg/L	5		300.0	Total/NA
Total Dissolved Solids	440		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-6_20230227

Lab Sample ID: 580-124247-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	26	F1	1.5	0.80	mg/L	1		300.0	Total/NA
Nitrate as N	1.3	H H3 F1	0.20	0.030	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	1.3	H H3 F1	0.40	0.070	mg/L	1		300.0	Total/NA
Total Dissolved Solids	110		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-11_20230227

Lab Sample ID: 580-124247-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	420		110	67	ug/L	1		NWTPH-Dx	Total/NA
Sulfate	550		15	8.0	mg/L	10		300.0	Total/NA
Nitrate as N	50	H H3	1.0	0.15	mg/L	5		300.0	Total/NA
Nitrate Nitrite as N	50	H H3	2.0	0.35	mg/L	5		300.0	Total/NA
Total Dissolved Solids	1100		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-12_20230227

Lab Sample ID: 580-124247-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.2		1.0	0.50	ug/L	1		8260D	Total/NA
Gasoline	1100		50	14	ug/L	1		NWTPH-Gx	Total/NA
#2 Diesel (C10-C24)	900		120	68	ug/L	1		NWTPH-Dx	Total/NA
Arsenic	8.4		5.0	1.0	ug/L	5		6020B	Dissolved
Sulfate	20		1.5	0.80	mg/L	1		300.0	Total/NA
Total Dissolved Solids	450		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: GMW-1_20230227

Lab Sample ID: 580-124247-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	180		120	69	ug/L	1		NWTPH-Dx	Total/NA
Sulfate	29		1.5	0.80	mg/L	1		300.0	Total/NA
Total Dissolved Solids	640		10	10	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Seattle

Detection Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Client Sample ID: MW-4-PDB_20230227

Lab Sample ID: 580-124247-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	240		120	71	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-4_20230227

Lab Sample ID: 580-124247-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Client Sample ID: MW-2_20230227

Lab Sample ID: 580-124247-1

Date Collected: 02/27/23 10:00

Matrix: Water

Date Received: 03/03/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			03/06/23 15:20	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/06/23 15:20	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/06/23 15:20	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/06/23 15:20	1
o-Xylene	ND		1.0	0.39	ug/L			03/06/23 15:20	1
Toluene	ND		1.0	0.39	ug/L			03/06/23 15:20	1
Xylenes, Total	ND		2.0	0.53	ug/L			03/06/23 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		03/06/23 15:20	1
4-Bromofluorobenzene (Surr)	98		80 - 120		03/06/23 15:20	1
Dibromofluoromethane (Surr)	100		80 - 120		03/06/23 15:20	1
Toluene-d8 (Surr)	95		80 - 120		03/06/23 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	14	ug/L			03/06/23 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		77 - 123		03/06/23 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		120	69	ug/L		03/06/23 11:11	03/07/23 13:38	1
Motor Oil (>C24-C36)	ND		370	100	ug/L		03/06/23 11:11	03/07/23 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150	03/06/23 11:11	03/07/23 13:38	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		03/08/23 18:22	03/09/23 13:37	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		03/10/23 13:57	03/13/23 14:28	5
Arsenic	ND		5.0	1.0	ug/L		03/10/23 13:57	03/13/23 14:28	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N (EPA 300.0)	ND	H H3	0.40	0.070	mg/L			03/06/23 14:38	1
Sulfate (EPA 300.0)	110		7.5	4.0	mg/L			03/06/23 14:50	5
Nitrate as N (EPA 300.0)	0.82	H H3	0.20	0.030	mg/L			03/06/23 14:38	1
Nitrate Nitrite as N (EPA 300.0)	0.82	H H3	0.40	0.070	mg/L			03/06/23 14:38	1
Total Dissolved Solids (SM 2540C)	240		10	10	mg/L			03/06/23 13:24	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Client Sample ID: MW-3_20230227

Lab Sample ID: 580-124247-2

Date Collected: 02/27/23 10:40

Matrix: Water

Date Received: 03/03/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			03/06/23 15:44	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/06/23 15:44	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/06/23 15:44	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/06/23 15:44	1
o-Xylene	ND		1.0	0.39	ug/L			03/06/23 15:44	1
Toluene	ND		1.0	0.39	ug/L			03/06/23 15:44	1
Xylenes, Total	ND		2.0	0.53	ug/L			03/06/23 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		03/06/23 15:44	1
4-Bromofluorobenzene (Surr)	95		80 - 120		03/06/23 15:44	1
Dibromofluoromethane (Surr)	101		80 - 120		03/06/23 15:44	1
Toluene-d8 (Surr)	96		80 - 120		03/06/23 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	14	ug/L			03/06/23 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		77 - 123		03/06/23 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	130		120	68	ug/L		03/06/23 11:11	03/07/23 13:57	1
Motor Oil (>C24-C36)	ND		370	100	ug/L		03/06/23 11:11	03/07/23 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	71		50 - 150	03/06/23 11:11	03/07/23 13:57	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		03/08/23 18:22	03/09/23 14:42	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		03/10/23 13:57	03/13/23 14:31	5
Arsenic	ND		5.0	1.0	ug/L		03/10/23 13:57	03/13/23 14:31	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N (EPA 300.0)	ND	H H3	0.40	0.070	mg/L			03/06/23 15:01	1
Sulfate (EPA 300.0)	26		1.5	0.80	mg/L			03/06/23 15:01	1
Nitrate as N (EPA 300.0)	ND	H H3	0.20	0.030	mg/L			03/06/23 15:01	1
Nitrate Nitrite as N (EPA 300.0)	ND	H H3	0.40	0.070	mg/L			03/06/23 15:01	1
Total Dissolved Solids (SM 2540C)	78		10	10	mg/L			03/06/23 13:24	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Client Sample ID: MW-4_20230227

Lab Sample ID: 580-124247-3

Date Collected: 02/27/23 14:40

Matrix: Water

Date Received: 03/03/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		10	2.4	ug/L			03/06/23 21:48	10
Ethylbenzene	ND		10	5.0	ug/L			03/06/23 21:48	10
Methyl tert-butyl ether	ND		10	4.4	ug/L			03/06/23 21:48	10
m-Xylene & p-Xylene	ND		20	5.3	ug/L			03/06/23 21:48	10
o-Xylene	ND		10	3.9	ug/L			03/06/23 21:48	10
Toluene	ND		10	3.9	ug/L			03/06/23 21:48	10
Xylenes, Total	ND		20	5.3	ug/L			03/06/23 21:48	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		03/06/23 21:48	10
4-Bromofluorobenzene (Surr)	95		80 - 120		03/06/23 21:48	10
Dibromofluoromethane (Surr)	102		80 - 120		03/06/23 21:48	10
Toluene-d8 (Surr)	98		80 - 120		03/06/23 21:48	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		500	140	ug/L			03/06/23 21:48	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		77 - 123					03/06/23 21:48	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1200		20	2.0	ug/L		03/08/23 18:22	03/09/23 14:54	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		03/10/23 13:57	03/13/23 14:33	5
Arsenic	ND		5.0	1.0	ug/L		03/10/23 13:57	03/13/23 14:33	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N (EPA 300.0)	ND	H H3	0.40	0.070	mg/L			03/06/23 15:13	1
Sulfate (EPA 300.0)	170		7.5	4.0	mg/L			03/06/23 15:25	5
Nitrate as N (EPA 300.0)	ND	H H3	0.20	0.030	mg/L			03/06/23 15:13	1
Nitrate Nitrite as N (EPA 300.0)	ND	H H3	0.40	0.070	mg/L			03/06/23 15:13	1
Total Dissolved Solids (SM 2540C)	440		10	10	mg/L			03/06/23 13:24	1

Client Sample ID: MW-6_20230227

Lab Sample ID: 580-124247-4

Date Collected: 02/27/23 11:30

Matrix: Water

Date Received: 03/03/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			03/06/23 16:32	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/06/23 16:32	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/06/23 16:32	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/06/23 16:32	1
o-Xylene	ND		1.0	0.39	ug/L			03/06/23 16:32	1
Toluene	ND		1.0	0.39	ug/L			03/06/23 16:32	1
Xylenes, Total	ND		2.0	0.53	ug/L			03/06/23 16:32	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Client Sample ID: MW-6_20230227

Lab Sample ID: 580-124247-4

Date Collected: 02/27/23 11:30

Matrix: Water

Date Received: 03/03/23 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		03/06/23 16:32	1
4-Bromofluorobenzene (Surr)	94		80 - 120		03/06/23 16:32	1
Dibromofluoromethane (Surr)	98		80 - 120		03/06/23 16:32	1
Toluene-d8 (Surr)	98		80 - 120		03/06/23 16:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	14	ug/L			03/06/23 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		77 - 123					03/06/23 16:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		120	69	ug/L		03/06/23 11:11	03/07/23 14:35	1
Motor Oil (>C24-C36)	ND		370	100	ug/L		03/06/23 11:11	03/07/23 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	73		50 - 150				03/06/23 11:11	03/07/23 14:35	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		03/08/23 18:22	03/09/23 13:34	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		03/10/23 13:57	03/13/23 14:36	5
Arsenic	ND		5.0	1.0	ug/L		03/10/23 13:57	03/13/23 14:36	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N (EPA 300.0)	ND	H H3 F1	0.40	0.070	mg/L			03/06/23 15:36	1
Sulfate (EPA 300.0)	26	F1	1.5	0.80	mg/L			03/06/23 15:36	1
Nitrate as N (EPA 300.0)	1.3	H H3 F1	0.20	0.030	mg/L			03/06/23 15:36	1
Nitrate Nitrite as N (EPA 300.0)	1.3	H H3 F1	0.40	0.070	mg/L			03/06/23 15:36	1
Total Dissolved Solids (SM 2540C)	110		10	10	mg/L			03/06/23 13:24	1

Client Sample ID: MW-11_20230227

Lab Sample ID: 580-124247-5

Date Collected: 02/27/23 13:20

Matrix: Water

Date Received: 03/03/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			03/06/23 16:57	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/06/23 16:57	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/06/23 16:57	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/06/23 16:57	1
o-Xylene	ND		1.0	0.39	ug/L			03/06/23 16:57	1
Toluene	ND		1.0	0.39	ug/L			03/06/23 16:57	1
Xylenes, Total	ND		2.0	0.53	ug/L			03/06/23 16:57	1

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Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Client Sample ID: MW-11_20230227

Lab Sample ID: 580-124247-5

Date Collected: 02/27/23 13:20

Matrix: Water

Date Received: 03/03/23 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		03/06/23 16:57	1
4-Bromofluorobenzene (Surr)	93		80 - 120		03/06/23 16:57	1
Dibromofluoromethane (Surr)	105		80 - 120		03/06/23 16:57	1
Toluene-d8 (Surr)	98		80 - 120		03/06/23 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	14	ug/L			03/06/23 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		77 - 123					03/06/23 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	420		110	67	ug/L		03/06/23 11:11	03/07/23 14:54	1
Motor Oil (>C24-C36)	ND		360	98	ug/L		03/06/23 11:11	03/07/23 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		50 - 150				03/06/23 11:11	03/07/23 14:54	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		03/08/23 18:22	03/09/23 14:44	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		03/10/23 13:57	03/13/23 14:38	5
Arsenic	ND		5.0	1.0	ug/L		03/10/23 13:57	03/13/23 14:38	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N (EPA 300.0)	ND	H H3	2.0	0.35	mg/L			03/06/23 16:58	5
Sulfate (EPA 300.0)	550		15	8.0	mg/L			03/06/23 17:10	10
Nitrate as N (EPA 300.0)	50	H H3	1.0	0.15	mg/L			03/06/23 16:58	5
Nitrate Nitrite as N (EPA 300.0)	50	H H3	2.0	0.35	mg/L			03/06/23 16:58	5
Total Dissolved Solids (SM 2540C)	1100		10	10	mg/L			03/06/23 13:24	1

Client Sample ID: MW-12_20230227

Lab Sample ID: 580-124247-6

Date Collected: 02/27/23 12:40

Matrix: Water

Date Received: 03/03/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			03/06/23 17:45	1
Ethylbenzene	1.2		1.0	0.50	ug/L			03/06/23 17:45	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/06/23 17:45	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/06/23 17:45	1
o-Xylene	ND		1.0	0.39	ug/L			03/06/23 17:45	1
Toluene	ND		1.0	0.39	ug/L			03/06/23 17:45	1
Xylenes, Total	ND		2.0	0.53	ug/L			03/06/23 17:45	1

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Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Client Sample ID: MW-12_20230227

Lab Sample ID: 580-124247-6

Date Collected: 02/27/23 12:40

Matrix: Water

Date Received: 03/03/23 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		03/06/23 17:45	1
4-Bromofluorobenzene (Surr)	101		80 - 120		03/06/23 17:45	1
Dibromofluoromethane (Surr)	98		80 - 120		03/06/23 17:45	1
Toluene-d8 (Surr)	100		80 - 120		03/06/23 17:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1100		50	14	ug/L			03/13/23 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		77 - 123					03/13/23 18:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	900		120	68	ug/L		03/06/23 11:11	03/07/23 15:12	1
Motor Oil (>C24-C36)	ND		370	100	ug/L		03/06/23 11:11	03/07/23 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	63		50 - 150				03/06/23 11:11	03/07/23 15:12	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		03/08/23 18:22	03/09/23 14:47	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		03/10/23 13:57	03/13/23 14:41	5
Arsenic	8.4		5.0	1.0	ug/L		03/10/23 13:57	03/13/23 14:41	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N (EPA 300.0)	ND	H H3	0.40	0.070	mg/L			03/06/23 17:22	1
Sulfate (EPA 300.0)	20		1.5	0.80	mg/L			03/07/23 17:26	1
Nitrate as N (EPA 300.0)	ND	H H3	0.20	0.030	mg/L			03/06/23 17:22	1
Nitrate Nitrite as N (EPA 300.0)	ND	H H3	0.40	0.070	mg/L			03/06/23 17:22	1
Total Dissolved Solids (SM 2540C)	450		10	10	mg/L			03/06/23 13:24	1

Client Sample ID: GMW-1_20230227

Lab Sample ID: 580-124247-7

Date Collected: 02/27/23 12:10

Matrix: Water

Date Received: 03/03/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			03/06/23 18:10	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/06/23 18:10	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/06/23 18:10	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/06/23 18:10	1
o-Xylene	ND		1.0	0.39	ug/L			03/06/23 18:10	1
Toluene	ND		1.0	0.39	ug/L			03/06/23 18:10	1
Xylenes, Total	ND		2.0	0.53	ug/L			03/06/23 18:10	1

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Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Client Sample ID: GMW-1_20230227

Lab Sample ID: 580-124247-7

Date Collected: 02/27/23 12:10

Matrix: Water

Date Received: 03/03/23 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		03/06/23 18:10	1
4-Bromofluorobenzene (Surr)	95		80 - 120		03/06/23 18:10	1
Dibromofluoromethane (Surr)	103		80 - 120		03/06/23 18:10	1
Toluene-d8 (Surr)	95		80 - 120		03/06/23 18:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	14	ug/L			03/06/23 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		77 - 123					03/06/23 18:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	180		120	69	ug/L		03/06/23 11:11	03/07/23 15:31	1
Motor Oil (>C24-C36)	ND		370	100	ug/L		03/06/23 11:11	03/07/23 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	64		50 - 150				03/06/23 11:11	03/07/23 15:31	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		03/08/23 18:22	03/09/23 14:49	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		03/10/23 13:57	03/13/23 14:43	5
Arsenic	ND		5.0	1.0	ug/L		03/10/23 13:57	03/13/23 14:43	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N (EPA 300.0)	ND	H H3	0.40	0.070	mg/L			03/06/23 17:33	1
Sulfate (EPA 300.0)	29		1.5	0.80	mg/L			03/06/23 17:33	1
Nitrate as N (EPA 300.0)	ND	H H3	0.20	0.030	mg/L			03/06/23 17:33	1
Nitrate Nitrite as N (EPA 300.0)	ND	H H3	0.40	0.070	mg/L			03/06/23 17:33	1
Total Dissolved Solids (SM 2540C)	640		10	10	mg/L			03/06/23 13:24	1

Client Sample ID: MW-4-PDB_20230227

Lab Sample ID: 580-124247-8

Date Collected: 02/27/23 14:15

Matrix: Water

Date Received: 03/03/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			03/06/23 18:34	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/06/23 18:34	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/06/23 18:34	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/06/23 18:34	1
o-Xylene	ND		1.0	0.39	ug/L			03/06/23 18:34	1
Toluene	ND		1.0	0.39	ug/L			03/06/23 18:34	1
Xylenes, Total	ND		2.0	0.53	ug/L			03/06/23 18:34	1

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Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Client Sample ID: MW-4-PDB_20230227

Lab Sample ID: 580-124247-8

Date Collected: 02/27/23 14:15

Matrix: Water

Date Received: 03/03/23 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		03/06/23 18:34	1
4-Bromofluorobenzene (Surr)	96		80 - 120		03/06/23 18:34	1
Dibromofluoromethane (Surr)	101		80 - 120		03/06/23 18:34	1
Toluene-d8 (Surr)	98		80 - 120		03/06/23 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	14	ug/L			03/06/23 18:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		77 - 123					03/06/23 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	240		120	71	ug/L		03/06/23 11:11	03/07/23 15:50	1
Motor Oil (>C24-C36)	ND		380	100	ug/L		03/06/23 11:11	03/07/23 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150				03/06/23 11:11	03/07/23 15:50	1

Client Sample ID: MW-4_20230227

Lab Sample ID: 580-124247-9

Date Collected: 02/27/23 14:40

Matrix: Waste

Date Received: 03/03/23 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		2200	550	mg/Kg		03/08/23 17:13	03/09/23 14:16	1
Motor Oil (>C24-C36)	ND		2200	780	mg/Kg		03/08/23 17:13	03/09/23 14:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150				03/08/23 17:13	03/09/23 14:16	1

Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	BFB (80-120)	DBFM (80-120)	TOL (80-120)
580-124247-1	MW-2_20230227	102	98	100	95
580-124247-2	MW-3_20230227	98	95	101	96
580-124247-3	MW-4_20230227	102	95	102	98
580-124247-4	MW-6_20230227	104	94	98	98
580-124247-5	MW-11_20230227	106	93	105	98
580-124247-6	MW-12_20230227	99	101	98	100
580-124247-7	GMW-1_20230227	104	95	103	95
580-124247-8	MW-4-PDB_20230227	106	96	101	98
LCS 580-419616/7	Lab Control Sample	97	100	99	99
LCSD 580-419616/8	Lab Control Sample Dup	100	107	99	103
MB 580-419616/6	Method Blank	102	99	102	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (77-123)			
580-124247-1	MW-2_20230227	98			
580-124247-2	MW-3_20230227	95			
580-124247-3	MW-4_20230227	95			
580-124247-4	MW-6_20230227	94			
580-124247-5	MW-11_20230227	93			
580-124247-6	MW-12_20230227	103			
580-124247-7	GMW-1_20230227	95			
580-124247-8	MW-4-PDB_20230227	96			
LCS 580-419618/9	Lab Control Sample	104			
LCSD 580-420235/9	Lab Control Sample	103			
LCSD 580-419618/10	Lab Control Sample Dup	99			
LCSD 580-420235/10	Lab Control Sample Dup	107			
MB 580-419618/6	Method Blank	99			
MB 580-420235/6	Method Blank	100			

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Waste

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		OTPH (50-150)			
580-124247-9	MW-4_20230227	84			
580-124247-9 DU	MW-4_20230227	89			
LCS 580-419928/2-A	Lab Control Sample	93			

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Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

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

Matrix: Waste

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	OTPH (50-150)
LCSD 580-419928/3-A	Lab Control Sample Dup	96
MB 580-419928/1-A	Method Blank	68
Surrogate Legend		
OTPH = o-Terphenyl		

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	OTPH (50-150)
580-124247-1	MW-2_20230227	67
580-124247-2	MW-3_20230227	71
580-124247-4	MW-6_20230227	73
580-124247-5	MW-11_20230227	71
580-124247-6	MW-12_20230227	63
580-124247-7	GMW-1_20230227	64
580-124247-8	MW-4-PDB_20230227	65
LCS 580-419603/2-A	Lab Control Sample	98
LCSD 580-419603/3-A	Lab Control Sample Dup	92
MB 580-419603/1-A	Method Blank	68
Surrogate Legend		
OTPH = o-Terphenyl		

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

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

Lab Sample ID: MB 580-419616/6

Matrix: Water

Analysis Batch: 419616

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			03/06/23 13:18	1
Ethylbenzene	ND		1.0	0.50	ug/L			03/06/23 13:18	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			03/06/23 13:18	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			03/06/23 13:18	1
o-Xylene	ND		1.0	0.39	ug/L			03/06/23 13:18	1
Toluene	ND		1.0	0.39	ug/L			03/06/23 13:18	1
Xylenes, Total	ND		2.0	0.53	ug/L			03/06/23 13:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		03/06/23 13:18	1
4-Bromofluorobenzene (Surr)	99		80 - 120		03/06/23 13:18	1
Dibromofluoromethane (Surr)	102		80 - 120		03/06/23 13:18	1
Toluene-d8 (Surr)	99		80 - 120		03/06/23 13:18	1

Lab Sample ID: LCS 580-419616/7

Matrix: Water

Analysis Batch: 419616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	10.0	10.4		ug/L		104	80 - 122
Ethylbenzene	10.0	10.1		ug/L		101	80 - 120
Methyl tert-butyl ether	10.0	10.5		ug/L		105	72 - 120
m-Xylene & p-Xylene	10.0	9.91		ug/L		99	80 - 120
o-Xylene	10.0	10.0		ug/L		100	80 - 120
Toluene	10.0	10.1		ug/L		101	80 - 120
Xylenes, Total	20.0	19.9		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 580-419616/8

Matrix: Water

Analysis Batch: 419616

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	10.0	11.0		ug/L		110	80 - 122	5	14
Ethylbenzene	10.0	10.8		ug/L		108	80 - 120	6	14
Methyl tert-butyl ether	10.0	11.0		ug/L		110	72 - 120	5	18
m-Xylene & p-Xylene	10.0	10.8		ug/L		108	80 - 120	8	14
o-Xylene	10.0	10.8		ug/L		108	80 - 120	8	16
Toluene	10.0	11.0		ug/L		110	80 - 120	8	13
Xylenes, Total	20.0	21.6		ug/L		108	80 - 120	8	16

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

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

Lab Sample ID: LCSD 580-419616/8

Matrix: Water

Analysis Batch: 419616

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	107		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	103		80 - 120

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

Lab Sample ID: MB 580-419618/6

Matrix: Water

Analysis Batch: 419618

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	14	ug/L			03/06/23 13:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		77 - 123					03/06/23 13:18	1

Lab Sample ID: LCS 580-419618/9

Matrix: Water

Analysis Batch: 419618

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline	1000	992		ug/L		99	55 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	104		77 - 123				

Lab Sample ID: LCSD 580-419618/10

Matrix: Water

Analysis Batch: 419618

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	1000	990		ug/L		99	55 - 148	0	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		77 - 123						

Lab Sample ID: MB 580-420235/6

Matrix: Water

Analysis Batch: 420235

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	14	ug/L			03/13/23 14:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		77 - 123					03/13/23 14:36	1

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

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

Lab Sample ID: LCS 580-420235/9

Matrix: Water

Analysis Batch: 420235

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline			1000	997		ug/L		100	55 - 148		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	103		77 - 123								

Lab Sample ID: LCSD 580-420235/10

Matrix: Water

Analysis Batch: 420235

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Data: 12/1/00											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline			1000	984		ug/L	-	98	55 - 148	1	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	107		77 - 123								

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

Lab Sample ID: MB 580-419603/1-A

Matrix: Water

Analysis Batch: 419712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 419603

Analysis Date: 11/01/12							Prep Date: 11/03/12		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		110	65	ug/L		03/06/23 11:11	03/07/23 12:42	1
Motor Oil (>C24-C36)	ND		350	96	ug/L		03/06/23 11:11	03/07/23 12:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	68		50 - 150				03/06/23 11:11	03/07/23 12:42	1

Lab Sample ID: LCS 580-419603/2-A

Matrix: Water

Analysis Batch: 419712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 419603

Analysis Data: #09-12				#09-12 Data: #09-12					
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
#2 Diesel (C10-C24)			4000	3630		ug/L		91	50 - 120
Motor Oil (>C24-C36)			4000	3910		ug/L		98	64 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
o-Terphenyl	98		50 - 150						

Lab Sample ID: LCSD 580-419603/3-A

Matrix: Water

Analysis Batch: 419712

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 419603

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	4000	3300		ug/L		82	50 - 120	10	26
Motor Oil (>C24-C36)	4000	3630		ug/L		91	64 - 120	8	24

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

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

Lab Sample ID: LCSD 580-419603/3-A

Matrix: Water

Analysis Batch: 419712

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 419603

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
o-Terphenyl	92		50 - 150

Lab Sample ID: MB 580-419928/1-A

Matrix: Waste

Analysis Batch: 419997

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 419928

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
#2 Diesel (C10-C24)	ND		2500	620	mg/Kg		03/08/23 17:13	03/09/23 13:19	1	
Motor Oil (>C24-C36)	ND		2500	880	mg/Kg		03/08/23 17:13	03/09/23 13:19	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
o-Terphenyl	68		50 - 150				03/08/23 17:13	03/09/23 13:19	1	

Lab Sample ID: LCS 580-419928/2-A

Matrix: Waste

Analysis Batch: 419997

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 419928

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
#2 Diesel (C10-C24)			25000	23000		mg/Kg		92	70 - 125	
Motor Oil (>C24-C36)			25000	22500		mg/Kg		90	70 - 129	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
o-Terphenyl	93		50 - 150							

Lab Sample ID: LCSD 580-419928/3-A

Matrix: Waste

Analysis Batch: 419997

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 419928

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)			25000	25000		mg/Kg		100	70 - 125	9	16
Motor Oil (>C24-C36)			25000	24400		mg/Kg		98	70 - 129	8	16
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
o-Terphenyl	96		50 - 150								

Lab Sample ID: 580-124247-9 DU

Matrix: Waste

Analysis Batch: 419997

Client Sample ID: MW-4_20230227

Prep Type: Total/NA

Prep Batch: 419928

	Sample	Sample		DU	DU					RPD	
Analyte	Result	Qualifier		Result	Qualifier	Unit	D			RPD	Limit
#2 Diesel (C10-C24)	ND			ND		mg/Kg				NC	35
Motor Oil (>C24-C36)	ND			ND		mg/Kg				NC	35
	DU	DU									
Surrogate	%Recovery	Qualifier	Limits								
o-Terphenyl	89		50 - 150								

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-419934/17-A
Matrix: Water
Analysis Batch: 420073

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 419934

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.40	0.040	ug/L		03/08/23 18:22	03/09/23 13:32	1

Lab Sample ID: LCS 580-419934/18-A
Matrix: Water
Analysis Batch: 420073

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 419934

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1000	1050		ug/L		105	80 - 120

Lab Sample ID: LCSD 580-419934/19-A
Matrix: Water
Analysis Batch: 420073

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 419934

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	1000	1070		ug/L		107	80 - 120	1	20

Lab Sample ID: 580-124247-1 MS
Matrix: Water
Analysis Batch: 420073

Client Sample ID: MW-2_20230227
Prep Type: Total Recoverable
Prep Batch: 419934

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		1000	1130		ug/L		113	80 - 120

Lab Sample ID: 580-124247-1 MSD
Matrix: Water
Analysis Batch: 420073

Client Sample ID: MW-2_20230227
Prep Type: Total Recoverable
Prep Batch: 419934

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1000	1070		ug/L		107	80 - 120	5	20

Lab Sample ID: 580-124247-1 DU
Matrix: Water
Analysis Batch: 420073

Client Sample ID: MW-2_20230227
Prep Type: Total Recoverable
Prep Batch: 419934

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	ND		ND		ug/L		NC	20

Lab Sample ID: MB 580-420019/10-B
Matrix: Water
Analysis Batch: 420289

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 420113

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.40	0.040	ug/L		03/10/23 13:57	03/13/23 13:07	1
Arsenic	ND		1.0	0.20	ug/L		03/10/23 13:57	03/13/23 13:07	1

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QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-420019/11-B

Matrix: Water

Analysis Batch: 420289

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 420113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1000	948		ug/L		95	80 - 120
Arsenic	1000	944		ug/L		94	80 - 120

Lab Sample ID: LCSD 580-420019/12-B

Matrix: Water

Analysis Batch: 420289

Client Sample ID: Lab Control Sample Dup

Prep Type: Dissolved

Prep Batch: 420113

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	1000	1020		ug/L		102	80 - 120	7	20
Arsenic	1000	1010		ug/L		101	80 - 120	7	20

Lab Sample ID: 580-124251-B-1-D MS

Matrix: Water

Analysis Batch: 420289

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 420113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	12		1000	1090		ug/L		108	80 - 120
Arsenic	5.0		1000	1110		ug/L		111	80 - 120

Lab Sample ID: 580-124251-B-1-E MSD

Matrix: Water

Analysis Batch: 420289

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 420113

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	12		1000	1100		ug/L		109	80 - 120	1	20
Arsenic	5.0		1000	1140		ug/L		113	80 - 120	2	20

Lab Sample ID: 580-124251-B-1-C DU

Matrix: Water

Analysis Batch: 420289

Client Sample ID: Duplicate

Prep Type: Dissolved

Prep Batch: 420113

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	12		11.7		ug/L				0.1	20
Arsenic	5.0		5.15		ug/L				2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-419794/5

Matrix: Water

Analysis Batch: 419794

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.80	mg/L			03/06/23 14:03	1

Lab Sample ID: LCS 580-419794/6

Matrix: Water

Analysis Batch: 419794

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	50.0	52.5		mg/L		105	90 - 110

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QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-419794/7

Matrix: Water

Analysis Batch: 419794

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	50.0	52.6		mg/L		105	90 - 110	0	15

Lab Sample ID: 580-124247-4 MS

Matrix: Water

Analysis Batch: 419794

Client Sample ID: MW-6_20230227

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	26	F1	50.0	88.6	F1	mg/L		125	90 - 110		

Lab Sample ID: 580-124247-4 MSD

Matrix: Water

Analysis Batch: 419794

Client Sample ID: MW-6_20230227

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	26	F1	50.0	88.3	F1	mg/L		124	90 - 110	0	15

Lab Sample ID: MB 580-419796/5

Matrix: Water

Analysis Batch: 419796

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40	0.070	mg/L			03/06/23 14:03	1
Nitrate as N	ND		0.20	0.030	mg/L			03/06/23 14:03	1
Nitrate Nitrite as N	ND		0.40	0.070	mg/L			03/06/23 14:03	1

Lab Sample ID: LCS 580-419796/6

Matrix: Water

Analysis Batch: 419796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	5.00	5.43		mg/L		109	90 - 110		
Nitrate as N	5.00	5.18		mg/L		104	90 - 110		
Nitrate Nitrite as N	10.0	10.6		mg/L		106	90 - 110		

Lab Sample ID: LCSD 580-419796/7

Matrix: Water

Analysis Batch: 419796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	5.00	5.46		mg/L		109	90 - 110	0	15
Nitrate as N	5.00	5.20		mg/L		104	90 - 110	0	15
Nitrate Nitrite as N	10.0	10.7		mg/L		107	90 - 110	0	15

Lab Sample ID: 580-124247-4 MS

Matrix: Water

Analysis Batch: 419796

Client Sample ID: MW-6_20230227

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	ND	H H3 F1	5.00	6.24	F1	mg/L		125	90 - 110		
Nitrate as N	1.3	H H3 F1	5.00	7.41	F1	mg/L		122	90 - 110		

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QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 580-124247-4 MS

Matrix: Water

Analysis Batch: 419796

Client Sample ID: MW-6_20230227

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.3	H H3 F1	10.0	13.6	F1	mg/L		123	90 - 110

Lab Sample ID: 580-124247-4 MSD

Matrix: Water

Analysis Batch: 419796

Client Sample ID: MW-6_20230227

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	ND	H H3 F1	5.00	6.24	F1	mg/L		125	90 - 110	0	15
Nitrate as N	1.3	H H3 F1	5.00	7.38	F1	mg/L		121	90 - 110	0	15
Nitrate Nitrite as N	1.3	H H3 F1	10.0	13.6	F1	mg/L		123	90 - 110	0	15

Lab Sample ID: MB 580-419958/3

Matrix: Water

Analysis Batch: 419958

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.5	0.80	mg/L			03/07/23 11:23	1

Lab Sample ID: LCS 580-419958/4

Matrix: Water

Analysis Batch: 419958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	50.0	51.9		mg/L		104	90 - 110

Lab Sample ID: LCSD 580-419958/5

Matrix: Water

Analysis Batch: 419958

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	50.0	51.9		mg/L		104	90 - 110	0	15

Lab Sample ID: 580-124308-I-6 MS

Matrix: Water

Analysis Batch: 419958

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	24	F1	50.0	88.6	F1	mg/L		128	90 - 110

Lab Sample ID: 580-124308-I-6 MSD

Matrix: Water

Analysis Batch: 419958

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	24	F1	50.0	88.8	F1	mg/L		129	90 - 110	0	15

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QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-419633/1

Matrix: Water

Analysis Batch: 419633

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	10	mg/L			03/06/23 13:24	1

Lab Sample ID: LCS 580-419633/2

Matrix: Water

Analysis Batch: 419633

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1050		mg/L		105	80 - 120

Lab Sample ID: 580-124247-4 DU

Matrix: Water

Analysis Batch: 419633

Client Sample ID: MW-6_20230227

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	110		100		mg/L		10	20

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

GC/MS VOA

Analysis Batch: 419616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-1	MW-2_20230227	Total/NA	Water	8260D	
580-124247-2	MW-3_20230227	Total/NA	Water	8260D	
580-124247-3	MW-4_20230227	Total/NA	Water	8260D	
580-124247-4	MW-6_20230227	Total/NA	Water	8260D	
580-124247-5	MW-11_20230227	Total/NA	Water	8260D	
580-124247-6	MW-12_20230227	Total/NA	Water	8260D	
580-124247-7	GMW-1_20230227	Total/NA	Water	8260D	
580-124247-8	MW-4-PDB_20230227	Total/NA	Water	8260D	
MB 580-419616/6	Method Blank	Total/NA	Water	8260D	
LCS 580-419616/7	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-419616/8	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 419618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-1	MW-2_20230227	Total/NA	Water	NWTPH-Gx	
580-124247-2	MW-3_20230227	Total/NA	Water	NWTPH-Gx	
580-124247-3	MW-4_20230227	Total/NA	Water	NWTPH-Gx	
580-124247-4	MW-6_20230227	Total/NA	Water	NWTPH-Gx	
580-124247-5	MW-11_20230227	Total/NA	Water	NWTPH-Gx	
580-124247-7	GMW-1_20230227	Total/NA	Water	NWTPH-Gx	
580-124247-8	MW-4-PDB_20230227	Total/NA	Water	NWTPH-Gx	
MB 580-419618/6	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 580-419618/9	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 580-419618/10	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

Analysis Batch: 420235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-6	MW-12_20230227	Total/NA	Water	NWTPH-Gx	
MB 580-420235/6	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 580-420235/9	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 580-420235/10	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

GC Semi VOA

Prep Batch: 419603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-1	MW-2_20230227	Total/NA	Water	3510C	
580-124247-2	MW-3_20230227	Total/NA	Water	3510C	
580-124247-4	MW-6_20230227	Total/NA	Water	3510C	
580-124247-5	MW-11_20230227	Total/NA	Water	3510C	
580-124247-6	MW-12_20230227	Total/NA	Water	3510C	
580-124247-7	GMW-1_20230227	Total/NA	Water	3510C	
580-124247-8	MW-4-PDB_20230227	Total/NA	Water	3510C	
MB 580-419603/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-419603/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-419603/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 419712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-1	MW-2_20230227	Total/NA	Water	NWTPH-Dx	419603
580-124247-2	MW-3_20230227	Total/NA	Water	NWTPH-Dx	419603

Eurofins Seattle

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

GC Semi VOA (Continued)

Analysis Batch: 419712 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-4	MW-6_20230227	Total/NA	Water	NWTPH-Dx	419603
580-124247-5	MW-11_20230227	Total/NA	Water	NWTPH-Dx	419603
580-124247-6	MW-12_20230227	Total/NA	Water	NWTPH-Dx	419603
580-124247-7	GMW-1_20230227	Total/NA	Water	NWTPH-Dx	419603
580-124247-8	MW-4-PDB_20230227	Total/NA	Water	NWTPH-Dx	419603
MB 580-419603/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	419603
LCS 580-419603/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	419603
LCSD 580-419603/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	419603

Prep Batch: 419928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-9	MW-4_20230227	Total/NA	Waste	3580A	
MB 580-419928/1-A	Method Blank	Total/NA	Waste	3580A	
LCS 580-419928/2-A	Lab Control Sample	Total/NA	Waste	3580A	
LCSD 580-419928/3-A	Lab Control Sample Dup	Total/NA	Waste	3580A	
580-124247-9 DU	MW-4_20230227	Total/NA	Waste	3580A	

Analysis Batch: 419997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-9	MW-4_20230227	Total/NA	Waste	NWTPH-Dx	419928
MB 580-419928/1-A	Method Blank	Total/NA	Waste	NWTPH-Dx	419928
LCS 580-419928/2-A	Lab Control Sample	Total/NA	Waste	NWTPH-Dx	419928
LCSD 580-419928/3-A	Lab Control Sample Dup	Total/NA	Waste	NWTPH-Dx	419928
580-124247-9 DU	MW-4_20230227	Total/NA	Waste	NWTPH-Dx	419928

Metals

Prep Batch: 419934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-1	MW-2_20230227	Total Recoverable	Water	3005A	
580-124247-2	MW-3_20230227	Total Recoverable	Water	3005A	
580-124247-3	MW-4_20230227	Total Recoverable	Water	3005A	
580-124247-4	MW-6_20230227	Total Recoverable	Water	3005A	
580-124247-5	MW-11_20230227	Total Recoverable	Water	3005A	
580-124247-6	MW-12_20230227	Total Recoverable	Water	3005A	
580-124247-7	GMW-1_20230227	Total Recoverable	Water	3005A	
MB 580-419934/17-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-419934/18-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-419934/19-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
580-124247-1 MS	MW-2_20230227	Total Recoverable	Water	3005A	
580-124247-1 MSD	MW-2_20230227	Total Recoverable	Water	3005A	
580-124247-1 DU	MW-2_20230227	Total Recoverable	Water	3005A	

Filtration Batch: 420019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-1	MW-2_20230227	Dissolved	Water	FILTRATION	
580-124247-2	MW-3_20230227	Dissolved	Water	FILTRATION	
580-124247-3	MW-4_20230227	Dissolved	Water	FILTRATION	
580-124247-4	MW-6_20230227	Dissolved	Water	FILTRATION	
580-124247-5	MW-11_20230227	Dissolved	Water	FILTRATION	
580-124247-6	MW-12_20230227	Dissolved	Water	FILTRATION	

Eurofins Seattle

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Metals (Continued)

Filtration Batch: 420019 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-7	GMW-1_20230227	Dissolved	Water	FILTRATION	
MB 580-420019/10-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 580-420019/11-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 580-420019/12-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
580-124251-B-1-D MS	Matrix Spike	Dissolved	Water	FILTRATION	
580-124251-B-1-E MSD	Matrix Spike Duplicate	Dissolved	Water	FILTRATION	
580-124251-B-1-C DU	Duplicate	Dissolved	Water	FILTRATION	

Analysis Batch: 420073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-1	MW-2_20230227	Total Recoverable	Water	6020B	419934
580-124247-2	MW-3_20230227	Total Recoverable	Water	6020B	419934
580-124247-3	MW-4_20230227	Total Recoverable	Water	6020B	419934
580-124247-4	MW-6_20230227	Total Recoverable	Water	6020B	419934
580-124247-5	MW-11_20230227	Total Recoverable	Water	6020B	419934
580-124247-6	MW-12_20230227	Total Recoverable	Water	6020B	419934
580-124247-7	GMW-1_20230227	Total Recoverable	Water	6020B	419934
MB 580-419934/17-A	Method Blank	Total Recoverable	Water	6020B	419934
LCS 580-419934/18-A	Lab Control Sample	Total Recoverable	Water	6020B	419934
LCSD 580-419934/19-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	419934
580-124247-1 MS	MW-2_20230227	Total Recoverable	Water	6020B	419934
580-124247-1 MSD	MW-2_20230227	Total Recoverable	Water	6020B	419934
580-124247-1 DU	MW-2_20230227	Total Recoverable	Water	6020B	419934

Prep Batch: 420113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-1	MW-2_20230227	Dissolved	Water	3005A	420019
580-124247-2	MW-3_20230227	Dissolved	Water	3005A	420019
580-124247-3	MW-4_20230227	Dissolved	Water	3005A	420019
580-124247-4	MW-6_20230227	Dissolved	Water	3005A	420019
580-124247-5	MW-11_20230227	Dissolved	Water	3005A	420019
580-124247-6	MW-12_20230227	Dissolved	Water	3005A	420019
580-124247-7	GMW-1_20230227	Dissolved	Water	3005A	420019
MB 580-420019/10-B	Method Blank	Dissolved	Water	3005A	420019
LCS 580-420019/11-B	Lab Control Sample	Dissolved	Water	3005A	420019
LCSD 580-420019/12-B	Lab Control Sample Dup	Dissolved	Water	3005A	420019
580-124251-B-1-D MS	Matrix Spike	Dissolved	Water	3005A	420019
580-124251-B-1-E MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	420019
580-124251-B-1-C DU	Duplicate	Dissolved	Water	3005A	420019

Analysis Batch: 420289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-1	MW-2_20230227	Dissolved	Water	6020B	420113
580-124247-2	MW-3_20230227	Dissolved	Water	6020B	420113
580-124247-3	MW-4_20230227	Dissolved	Water	6020B	420113
580-124247-4	MW-6_20230227	Dissolved	Water	6020B	420113
580-124247-5	MW-11_20230227	Dissolved	Water	6020B	420113
580-124247-6	MW-12_20230227	Dissolved	Water	6020B	420113
580-124247-7	GMW-1_20230227	Dissolved	Water	6020B	420113
MB 580-420019/10-B	Method Blank	Dissolved	Water	6020B	420113
LCS 580-420019/11-B	Lab Control Sample	Dissolved	Water	6020B	420113

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QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Metals (Continued)

Analysis Batch: 420289 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 580-420019/12-B	Lab Control Sample Dup	Dissolved	Water	6020B	420113
580-124251-B-1-D MS	Matrix Spike	Dissolved	Water	6020B	420113
580-124251-B-1-E MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	420113
580-124251-B-1-C DU	Duplicate	Dissolved	Water	6020B	420113

General Chemistry

Analysis Batch: 419633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-1	MW-2_20230227	Total/NA	Water	SM 2540C	
580-124247-2	MW-3_20230227	Total/NA	Water	SM 2540C	
580-124247-3	MW-4_20230227	Total/NA	Water	SM 2540C	
580-124247-4	MW-6_20230227	Total/NA	Water	SM 2540C	
580-124247-5	MW-11_20230227	Total/NA	Water	SM 2540C	
580-124247-6	MW-12_20230227	Total/NA	Water	SM 2540C	
580-124247-7	GMW-1_20230227	Total/NA	Water	SM 2540C	
MB 580-419633/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 580-419633/2	Lab Control Sample	Total/NA	Water	SM 2540C	
580-124247-4 DU	MW-6_20230227	Total/NA	Water	SM 2540C	

Analysis Batch: 419794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-1	MW-2_20230227	Total/NA	Water	300.0	
580-124247-2	MW-3_20230227	Total/NA	Water	300.0	
580-124247-3	MW-4_20230227	Total/NA	Water	300.0	
580-124247-4	MW-6_20230227	Total/NA	Water	300.0	
580-124247-5	MW-11_20230227	Total/NA	Water	300.0	
580-124247-7	GMW-1_20230227	Total/NA	Water	300.0	
MB 580-419794/5	Method Blank	Total/NA	Water	300.0	
LCS 580-419794/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 580-419794/7	Lab Control Sample Dup	Total/NA	Water	300.0	
580-124247-4 MS	MW-6_20230227	Total/NA	Water	300.0	
580-124247-4 MSD	MW-6_20230227	Total/NA	Water	300.0	

Analysis Batch: 419796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-1	MW-2_20230227	Total/NA	Water	300.0	
580-124247-2	MW-3_20230227	Total/NA	Water	300.0	
580-124247-3	MW-4_20230227	Total/NA	Water	300.0	
580-124247-4	MW-6_20230227	Total/NA	Water	300.0	
580-124247-5	MW-11_20230227	Total/NA	Water	300.0	
580-124247-6	MW-12_20230227	Total/NA	Water	300.0	
580-124247-7	GMW-1_20230227	Total/NA	Water	300.0	
MB 580-419796/5	Method Blank	Total/NA	Water	300.0	
LCS 580-419796/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 580-419796/7	Lab Control Sample Dup	Total/NA	Water	300.0	
580-124247-4 MS	MW-6_20230227	Total/NA	Water	300.0	
580-124247-4 MSD	MW-6_20230227	Total/NA	Water	300.0	

Eurofins Seattle

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

General Chemistry

Analysis Batch: 419958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124247-6	MW-12_20230227	Total/NA	Water	300.0	
MB 580-419958/3	Method Blank	Total/NA	Water	300.0	
LCS 580-419958/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 580-419958/5	Lab Control Sample Dup	Total/NA	Water	300.0	
580-124308-I-6 MS	Matrix Spike	Total/NA	Water	300.0	
580-124308-I-6 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Client Sample ID: MW-2_20230227

Lab Sample ID: 580-124247-1

Date Collected: 02/27/23 10:00

Matrix: Water

Date Received: 03/03/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	419616	JSM	EET SEA	03/06/23 15:20
Total/NA	Analysis	NWTPH-Gx		1	419618	JSM	EET SEA	03/06/23 15:20
Total/NA	Prep	3510C			419603	TGO	EET SEA	03/06/23 11:11
Total/NA	Analysis	NWTPH-Dx		1	419712	KLW	EET SEA	03/07/23 13:38
Dissolved	Filtration	FILTRATION			420019	JL	EET SEA	03/09/23 15:00
Dissolved	Prep	3005A			420113	DLV	EET SEA	03/10/23 13:57
Dissolved	Analysis	6020B		5	420289	FCW	EET SEA	03/13/23 14:28
Total Recoverable	Prep	3005A			419934	DLV	EET SEA	03/08/23 18:22
Total Recoverable	Analysis	6020B		5	420073	FCW	EET SEA	03/09/23 13:37
Total/NA	Analysis	300.0		1	419796	CA	EET SEA	03/06/23 14:38
Total/NA	Analysis	300.0		5	419794	CA	EET SEA	03/06/23 14:50
Total/NA	Analysis	SM 2540C		1	419633	AUA	EET SEA	03/06/23 13:24

Client Sample ID: MW-3_20230227

Lab Sample ID: 580-124247-2

Date Collected: 02/27/23 10:40

Matrix: Water

Date Received: 03/03/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	419616	JSM	EET SEA	03/06/23 15:44
Total/NA	Analysis	NWTPH-Gx		1	419618	JSM	EET SEA	03/06/23 15:44
Total/NA	Prep	3510C			419603	TGO	EET SEA	03/06/23 11:11
Total/NA	Analysis	NWTPH-Dx		1	419712	KLW	EET SEA	03/07/23 13:57
Dissolved	Filtration	FILTRATION			420019	JL	EET SEA	03/09/23 15:00
Dissolved	Prep	3005A			420113	DLV	EET SEA	03/10/23 13:57
Dissolved	Analysis	6020B		5	420289	FCW	EET SEA	03/13/23 14:31
Total Recoverable	Prep	3005A			419934	DLV	EET SEA	03/08/23 18:22
Total Recoverable	Analysis	6020B		5	420073	FCW	EET SEA	03/09/23 14:42
Total/NA	Analysis	300.0		1	419794	CA	EET SEA	03/06/23 15:01
Total/NA	Analysis	300.0		1	419796	CA	EET SEA	03/06/23 15:01
Total/NA	Analysis	SM 2540C		1	419633	AUA	EET SEA	03/06/23 13:24

Client Sample ID: MW-4_20230227

Lab Sample ID: 580-124247-3

Date Collected: 02/27/23 14:40

Matrix: Water

Date Received: 03/03/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	419616	JSM	EET SEA	03/06/23 21:48
Total/NA	Analysis	NWTPH-Gx		10	419618	JSM	EET SEA	03/06/23 21:48
Dissolved	Filtration	FILTRATION			420019	JL	EET SEA	03/09/23 15:00
Dissolved	Prep	3005A			420113	DLV	EET SEA	03/10/23 13:57
Dissolved	Analysis	6020B		5	420289	FCW	EET SEA	03/13/23 14:33
Total Recoverable	Prep	3005A			419934	DLV	EET SEA	03/08/23 18:22
Total Recoverable	Analysis	6020B		5	420073	FCW	EET SEA	03/09/23 14:54
Total/NA	Analysis	300.0		1	419796	CA	EET SEA	03/06/23 15:13

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Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Client Sample ID: MW-4_20230227

Lab Sample ID: 580-124247-3

Date Collected: 02/27/23 14:40

Matrix: Water

Date Received: 03/03/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		5	419794	CA	EET SEA	03/06/23 15:25
Total/NA	Analysis	SM 2540C		1	419633	AUA	EET SEA	03/06/23 13:24

Client Sample ID: MW-6_20230227

Lab Sample ID: 580-124247-4

Date Collected: 02/27/23 11:30

Matrix: Water

Date Received: 03/03/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	419616	JSM	EET SEA	03/06/23 16:32
Total/NA	Analysis	NWTPH-Gx		1	419618	JSM	EET SEA	03/06/23 16:32
Total/NA	Prep	3510C			419603	TGO	EET SEA	03/06/23 11:11
Total/NA	Analysis	NWTPH-Dx		1	419712	KLW	EET SEA	03/07/23 14:35
Dissolved	Filtration	FILTRATION			420019	JL	EET SEA	03/09/23 15:00
Dissolved	Prep	3005A			420113	DLV	EET SEA	03/10/23 13:57
Dissolved	Analysis	6020B		5	420289	FCW	EET SEA	03/13/23 14:36
Total Recoverable	Prep	3005A			419934	DLV	EET SEA	03/08/23 18:22
Total Recoverable	Analysis	6020B		5	420073	FCW	EET SEA	03/09/23 13:34
Total/NA	Analysis	300.0		1	419794	CA	EET SEA	03/06/23 15:36
Total/NA	Analysis	300.0		1	419796	CA	EET SEA	03/06/23 15:36
Total/NA	Analysis	SM 2540C		1	419633	AUA	EET SEA	03/06/23 13:24

Client Sample ID: MW-11_20230227

Lab Sample ID: 580-124247-5

Date Collected: 02/27/23 13:20

Matrix: Water

Date Received: 03/03/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	419616	JSM	EET SEA	03/06/23 16:57
Total/NA	Analysis	NWTPH-Gx		1	419618	JSM	EET SEA	03/06/23 16:57
Total/NA	Prep	3510C			419603	TGO	EET SEA	03/06/23 11:11
Total/NA	Analysis	NWTPH-Dx		1	419712	KLW	EET SEA	03/07/23 14:54
Dissolved	Filtration	FILTRATION			420019	JL	EET SEA	03/09/23 15:00
Dissolved	Prep	3005A			420113	DLV	EET SEA	03/10/23 13:57
Dissolved	Analysis	6020B		5	420289	FCW	EET SEA	03/13/23 14:38
Total Recoverable	Prep	3005A			419934	DLV	EET SEA	03/08/23 18:22
Total Recoverable	Analysis	6020B		5	420073	FCW	EET SEA	03/09/23 14:44
Total/NA	Analysis	300.0		5	419796	CA	EET SEA	03/06/23 16:58
Total/NA	Analysis	300.0		10	419794	CA	EET SEA	03/06/23 17:10
Total/NA	Analysis	SM 2540C		1	419633	AUA	EET SEA	03/06/23 13:24

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Client Sample ID: MW-12_20230227

Lab Sample ID: 580-124247-6

Date Collected: 02/27/23 12:40

Matrix: Water

Date Received: 03/03/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	419616	JSM	EET SEA	03/06/23 17:45
Total/NA	Analysis	NWTPH-Gx		1	420235	JSM	EET SEA	03/13/23 18:15
Total/NA	Prep	3510C			419603	TGO	EET SEA	03/06/23 11:11
Total/NA	Analysis	NWTPH-Dx		1	419712	KLW	EET SEA	03/07/23 15:12
Dissolved	Filtration	FILTRATION			420019	JL	EET SEA	03/09/23 15:00
Dissolved	Prep	3005A			420113	DLV	EET SEA	03/10/23 13:57
Dissolved	Analysis	6020B		5	420289	FCW	EET SEA	03/13/23 14:41
Total Recoverable	Prep	3005A			419934	DLV	EET SEA	03/08/23 18:22
Total Recoverable	Analysis	6020B		5	420073	FCW	EET SEA	03/09/23 14:47
Total/NA	Analysis	300.0		1	419796	CA	EET SEA	03/06/23 17:22
Total/NA	Analysis	300.0		1	419958	CA	EET SEA	03/07/23 17:26
Total/NA	Analysis	SM 2540C		1	419633	AUA	EET SEA	03/06/23 13:24

Client Sample ID: GMW-1_20230227

Lab Sample ID: 580-124247-7

Date Collected: 02/27/23 12:10

Matrix: Water

Date Received: 03/03/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	419616	JSM	EET SEA	03/06/23 18:10
Total/NA	Analysis	NWTPH-Gx		1	419618	JSM	EET SEA	03/06/23 18:10
Total/NA	Prep	3510C			419603	TGO	EET SEA	03/06/23 11:11
Total/NA	Analysis	NWTPH-Dx		1	419712	KLW	EET SEA	03/07/23 15:31
Dissolved	Filtration	FILTRATION			420019	JL	EET SEA	03/09/23 15:00
Dissolved	Prep	3005A			420113	DLV	EET SEA	03/10/23 13:57
Dissolved	Analysis	6020B		5	420289	FCW	EET SEA	03/13/23 14:43
Total Recoverable	Prep	3005A			419934	DLV	EET SEA	03/08/23 18:22
Total Recoverable	Analysis	6020B		5	420073	FCW	EET SEA	03/09/23 14:49
Total/NA	Analysis	300.0		1	419794	CA	EET SEA	03/06/23 17:33
Total/NA	Analysis	300.0		1	419796	CA	EET SEA	03/06/23 17:33
Total/NA	Analysis	SM 2540C		1	419633	AUA	EET SEA	03/06/23 13:24

Client Sample ID: MW-4-PDB_20230227

Lab Sample ID: 580-124247-8

Date Collected: 02/27/23 14:15

Matrix: Water

Date Received: 03/03/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	419616	JSM	EET SEA	03/06/23 18:34
Total/NA	Analysis	NWTPH-Gx		1	419618	JSM	EET SEA	03/06/23 18:34
Total/NA	Prep	3510C			419603	TGO	EET SEA	03/06/23 11:11
Total/NA	Analysis	NWTPH-Dx		1	419712	KLW	EET SEA	03/07/23 15:50

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Client Sample ID: MW-4_20230227
Date Collected: 02/27/23 14:40
Date Received: 03/03/23 10:00

Lab Sample ID: 580-124247-9
Matrix: Waste

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3580A			419928	CLC	EET SEA	03/08/23 17:13
Total/NA	Analysis	NWTPH-Dx		1	419997	KLW	EET SEA	03/09/23 14:16

Laboratory References:
EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

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Accreditation/Certification Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Laboratory: Eurofins Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-23

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Method Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SEA
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	EET SEA
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	EET SEA
6020B	Metals (ICP/MS)	SW846	EET SEA
300.0	Anions, Ion Chromatography	EPA	EET SEA
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET SEA
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SEA
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SEA
3580A	Waste Dilution	SW846	EET SEA
5030B	Purge and Trap	SW846	EET SEA
FILTRATION	Sample Filtration	None	EET SEA

Protocol References:

EPA = US Environmental Protection Agency

None = None

NWTPH = Northwest Total Petroleum Hydrocarbon

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

Sample Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-124247-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-124247-1	MW-2_20230227	Water	02/27/23 10:00	03/03/23 10:00
580-124247-2	MW-3_20230227	Water	02/27/23 10:40	03/03/23 10:00
580-124247-3	MW-4_20230227	Water	02/27/23 14:40	03/03/23 10:00
580-124247-4	MW-6_20230227	Water	02/27/23 11:30	03/03/23 10:00
580-124247-5	MW-11_20230227	Water	02/27/23 13:20	03/03/23 10:00
580-124247-6	MW-12_20230227	Water	02/27/23 12:40	03/03/23 10:00
580-124247-7	GMW-1_20230227	Water	02/27/23 12:10	03/03/23 10:00
580-124247-8	MW-4-PDB_20230227	Water	02/27/23 14:15	03/03/23 10:00
580-124247-9	MW-4_20230227	Waste	02/27/23 14:40	03/03/23 10:00

Laboratory Management Program (LaMP) Chain of Custody Record
Soil, Sediment and Groundwater Samples

BP Site Node Path:

Former BP 11060

Reg Due Date (mm/dd/yy):

Standard TAT

Rush TAT Yes

No	X
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BP/RM Facility No:

Former BP Facility No. 11060

Lab Work Order Number:

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Lab Name: Eurofins						BP/ARC Facility Address: 4580 Fauntleroy Way SW						Consultant/Contractor: Antea Group																	
Lab Address: 5755 8th Street East, Tacoma, WA 98424						City, State, ZIP Code: Seattle, WA						Consultant/Contractor Project No: WA - 11060 Groundwater Monitoring																	
Lab PM: Katie Grant						Lead Regulatory Agency: Washington State Department of Ecology						Address: 18378-B Redmond Way, Redmond, WA 98052																	
Lab Phone: 253-922-2310						California Global ID No.: NA						Consultant/Contractor PM: Lonnie Dent																	
Lab Shipping Acct:						Enfos Proposal No: WR1027162/00C87-0002						Phone: 303-807-3827 Email: lonnie.dent@anteagroup.us																	
Lab Bottle Order No:						Accounting Mode: Provision ☒ X OOC-BU ☐ OOC-RM ☐						Send/Submit EDD to: lonnie.dent@anteagroup.us																	
Other Info: katie.grant@et.eurofinsus.com						Stage Commercial-Site Activities (70) Activity Contracts Management (116)						Invoice To: BP-RM ☐ BP/ARC ☒ X																	
BP/RM PM: Wade Melton						Sample Details						Requested Analyses						Report Type & QC Level											
																		Limited (Standard) Package ☐											
PM Phone: 360-594-7978																		Limited Plus Package ☐											
PM Email: wade.melton@bp.com																		Full Package ☐											
Lab No.		Sample Description		Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Analysis	Fitt	Pres	Comments														
												ETEX by EPA 8260B																	
												MTBE by EPA 8260B																	
												NMTPH-Gx																	
												NMTPH-Dx																	
												Total Lead by EPA 60007/000																	
												Dissolved Lead by EPA 60007/000																	
												Nitrite, Nitrate, and Sulfate by EPA 500																	
												Total dissolved solids (TDS) using Standard Method SM2540																	
MW-1						W				G		X	X	X	X	(SI)													
MW-2		20230227		2/27/23	1000	W				G		X	X	X	X	X	X	X											
MW-3		20230227		2/27/23	1040	W				G		X	X	X	X	X	X	X											
MW-4		20230227		2/27/23	1440	W				G		X	X	X	X	X	X	X	(SI)										
MW-5						W				G		X	X	X	X	X	X	X	(SI)										
MW-6						W				G		X	X	X	X	X	X	X	(SI)										
MW-6		20230227		2/27/23	1130							X	X	X	X	X	X	X											
Sampler's Name: PJ+JL						Relinquished By / Affiliation						Date		Time		Accepted By / Affiliation						Date		Time					
Sampler's Company: Antea Group						Sumner Frim / Antea						3/3/23		1000		[Signature]						3/3/23		1000					
Ship Method: Courier						Ship Date: 3/3/23																							
Shipment Tracking No:																													
Special Instructions:																													
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt:  : Yes / No																													

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt:



Yes / No

BP LAMP Solv/H2O COC July 2018

580-124247 Chain of Custody

Laboratory Management Program (LaMP) Chain of Custody Record
Soil, Sediment and Groundwater Samples

Page 2 of 2

BP Site Node Path:

Former BP 11060

Req Due Date (mm/dd/yy):

Standard TAT

Rush TAT Yes

No X

BP/RM Facility No:

Former BP Facility No. 11060

Lab Work Order Number:

Lab Name: Eurofins				BP/ARC Facility Address: 4580 Fauntleroy Way SW				Consultant/Contractor: Antea Group															
Lab Address: 6765 8th Street East, Tacoma, WA 98424				City, State, ZIP Code: Seattle, WA				Consultant/Contractor Project No: WA - 11060 Groundwater Monitoring															
Lab PM: Katie Grant				Lead Regulatory Agency: Washington State Department of Ecology				Address: 18378-B Redmond Way, Redmond, WA 98050															
Lab Phone: 253-922-2310				California Global ID No.: NA				Consultant/Contractor PM: Lonnie Dent															
Lab Shipping Acct:				Enfos Proposal No: WR1027162/00C87-0002				Phone: 303-807-3827		Email: lonnie.dent@anteagroup.us													
Lab Bottle Order No:				Accounting Mode: Provision ☒ OOC-BU ☐ OOC-RM ☐				Send/Submit EDD to: lonnie.dent@anteagroup.us															
Other Info: katie.grant@et.eurofinsus.com				Stage Commercial-Site Activities (70)		Activity Contracts Management (116)		Invoice To: BP-RM ☐ BP/ARC ☒															
BP/RM PM: Wade Melton				Sample Details				Requested Analyses				Report Type & QC Level											
												Limited (Standard) Package ☐											
												Limited Plus Package ☐											
												Full Package ☐											
PM Phone: 360-594-7978																							
PM Email: wade.melton@bp.com																							
Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Filt	Pres	Analysis	ETEX by EPA 8250B	MTBE by EPA 8250B	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 8020	Pb-D by EPA 8020	Total Lead by EPA 8000/7000	Dissolved Lead by EPA 6000/7000	Nitrite, Nitrate, and Sulfate by EPA 8000	Total dissolved solids (TDS) using Standard Method SM2540	Comments
	MW-8-2023			W				G					X	X	X	X	X	X	X	X	X	X	
	MW-11-20230227	2/27/23	1320	W				G					X	X	X	X	X	X	X	X	X	X	
	MW-12-20230227	2/27/23	1240	W				G					X	X	X	X	X	X	X	X	X	X	
	GMW-1-20230227	2/27/23	1210	W				G					X	X	X	X	X	X	X	X	X	X	
	Dup			W				G					X	X	X	X	X	X	X	X	X	X	
	Trip Blank			W				G					X	X	X	X	X	X	X	X	X	X	
	MW-4-PDB-2023	2/27/23	1415										X	X	X	X							
Sampler's Name: PJ+JL 0221				Relinquished By / Affiliation				Date		Time		Accepted By / Affiliation				Date		Time					
Sampler's Company: Antea Group				Samuel Hain / Antea				3/3/23		1600		Sandra VanDall				3/3/23		1000					
Ship Method: Courier				Ship Date: 3/3/23																			
Shipment Tracking No:																							
Special Instructions:																							
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: _____ °F/C Trip Blank: Yes / No MS/MSD Sample Submitted: Yes / No																							

BP LAMP BbW/H2O COC July 2018

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Therm. ID: 1810 Cor: -0.2 ° Unc: 0.1 °
 Cooler Desc: BB
 Packing: BUB
 Cust. Seal: Yes ☒ No ☒
 Blue Ice: Wet, Dry, None
 Lab Cour: ☒ Other: ☐

Therm. ID: 1810 Cor: -2.0 ° Unc: -2.3 °
 Cooler Desc: BB
 Packing: BUB
 Cust. Seal: Yes ☒ No ☒
 Blue Ice: Wet, Dry, None
 Lab Cour: ☒ Other: ☐

Therm. ID: A3 Cor: 1.4 ° Unc: 1.3 °
 Cooler Desc: BB
 Packing: BUB
 Cust. Seal: Yes ☒ No ☒
 Blue Ice: Wet, Dry, None
 Lab Cour: ☒ Other: ☐

Login Sample Receipt Checklist

Client: Antea USA Inc.

Job Number: 580-124247-1

Login Number: 124247

List Number: 1

Creator: Presley, Kim A

List Source: Eurofins Seattle

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

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-124247-1

SDG No.: _____

Batch Number: 419616 Batch Start Date: 03/06/23 11:41 Batch Analyst: McKell, Justin SBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00028	VOAMasterMix 00100	VOASTDGASweek 00139
MB 580-419616/6		8260D		5 mL	5 mL		1 uL		
LCS 580-419616/7		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
LCSD 580-419616/8		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
580-124247-A-1	MW-2_20230227	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-124247-B-2	MW-3_20230227	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-124247-B-4	MW-6_20230227	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-124247-B-5	MW-11_20230227	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-124247-B-6	MW-12_20230227	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-124247-B-7	GMW-1_20230227	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-124247-B-8	MW-4-PDB_20230227	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-124247-A-3	MW-4_20230227	8260D	T	5 mL	5 mL	<2 SU	1 uL		

Batch Notes

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 1

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-124247-1

SDG No.: _____

Batch Number: 419618 Batch Start Date: 03/06/23 11:41 Batch Analyst: McKell, Justin SBatch Method: NWTPH-Gx Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00028	GRO_LCS 00083	
MB 580-419618/6		NWTPH-Gx		5 mL	5 mL		1 uL		
LCS 580-419618/9		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
LCSD 580-419618/10		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
580-124247-A-1	MW-2_20230227	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-124247-B-2	MW-3_20230227	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-124247-B-4	MW-6_20230227	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-124247-B-5	MW-11_20230227	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-124247-B-7	GMW-1_20230227	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-124247-B-8	MW-4-PDB_20230227	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-124247-A-3	MW-4_20230227	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		

Batch Notes

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Gx

Page 1 of 1

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-124247-1

SDG No.: _____

Batch Number: 420235 Batch Start Date: 03/13/23 12:59 Batch Analyst: McKell, Justin SBatch Method: NWTPH-Gx Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00028	GRO_LCS 00083	
MB 580-420235/6		NWTPH-Gx		5 mL	5 mL		1 uL		
LCS 580-420235/9		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
LCSD 580-420235/10		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
580-124247-C-6	MW-12_20230227	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		

Batch Notes	
pH Indicator ID	HC203864
Vial Lot Number	0126501H

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Gx

Page 1 of 1

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-124247-1

SDG No.: _____

Batch Number: 419603Batch Start Date: 03/06/23 11:10Batch Analyst: Oseen, Taryn GBatch Method: 3510CBatch End Date: 03/06/23 17:22

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-419603/1		3510C, NWTPH-Dx				250 mL	2 mL	7 SU	2 SU
LCS 580-419603/2		3510C, NWTPH-Dx				250 mL	2 mL	7 SU	2 SU
LCSD 580-419603/3		3510C, NWTPH-Dx				250 mL	2 mL	7 SU	2 SU
580-124247-H-1	MW-2_20230227	3510C, NWTPH-Dx	T	00404.83 g	00168.39 g	236.4 mL	2 mL	2 SU	n/a SU
580-124247-G-2	MW-3_20230227	3510C, NWTPH-Dx	T	00405.76 g	00166.95 g	238.8 mL	2 mL	2 SU	n/a SU
580-124247-H-4	MW-6_20230227	3510C, NWTPH-Dx	T	00403.15 g	00168.06 g	235.1 mL	2 mL	2 SU	n/a SU
580-124247-H-5	MW-11_20230227	3510C, NWTPH-Dx	T	00411.67 g	00167.39 g	244.3 mL	2 mL	2 SU	n/a SU
580-124247-G-6	MW-12_20230227	3510C, NWTPH-Dx	T	00406.32 g	00168.16 g	238.2 mL	2 mL	2 SU	n/a SU
580-124247-G-7	GMW-1_20230227	3510C, NWTPH-Dx	T	00402.68 g	00167.00 g	235.7 mL	2 mL	2 SU	n/a SU
580-124247-G-8	MW-4-PDB_20230227	3510C, NWTPH-Dx	T	00397.17 g	00167.92 g	229.3 mL	2 mL	2 SU	n/a SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	TPH_Water_Spk 00037	TPH_WaterSurr 00097			
MB 580-419603/1		3510C, NWTPH-Dx		n/a SU		100 uL			
LCS 580-419603/2		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
LCSD 580-419603/3		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
580-124247-H-1	MW-2_20230227	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-124247-G-2	MW-3_20230227	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-124247-H-4	MW-6_20230227	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-124247-H-5	MW-11_20230227	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-124247-G-6	MW-12_20230227	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-124247-G-7	GMW-1_20230227	3510C, NWTPH-Dx	T	n/a SU		100 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

Page 1 of 3

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-124247-1

SDG No.: _____

Batch Number: 419603 Batch Start Date: 03/06/23 11:10 Batch Analyst: Oseen, Taryn GBatch Method: 3510C Batch End Date: 03/06/23 17:22

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	TPH_Water_Spk 00037	TPH_WaterSurr 00097			
580-124247-G-8	MW-4-PDB_20230227	3510C, NWTPH-Dx	T	n/a SU		100 uL			

Batch Notes	
Method/Fraction	3510C_LVI/8015D_DRO/NWTPH_Dx
Balance ID	SEA225
pH Indicator ID	10BDH3421/6105009/6204001
Pipette/Syringe/Dispenser ID	MP5
Analyst ID - Extraction	CS/AA/SL/TO
Reagent Water ID	DI
Analyst ID - Spike Analyst	AA
Analyst ID - Spike Witness Analyst	TO
Sufficient Volume for Batch QC	no
Acid Used for pH Adjustment ID	3212798
Prep Solvent ID	22K0762003
Prep Solvent Volume Used	100 mL
Filter ID	+H1380979012F3U
Na2SO4 ID	baked Na2SO4_00456
Analyst ID - Concentration	SL
Equipment ID - Concentration 1	Steambath 1
Thermometer ID - Concentration 1	61013-040-1
Concentration 1 Uncorrected Temperature	70.0-75.0 Degrees C
Concentration 1 Corrected Temperature	69.4-74.4 Degrees C
Equipment ID - Concentration 2	Turbovap 6
Thermometer ID - Concentration 2	DIGITAL READOUT
Concentration 2 Uncorrected Temperature	20.0 Degrees C
Concentration 2 Corrected Temperature	19.8 Degrees C
Vial Lot Number	13-09-1335
Analyst ID - Clean Up	CS
Batch Comment	Vialed by:CS

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

Page 2 of 3

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-124247-1

SDG No.: _____

Batch Number: 419603 Batch Start Date: 03/06/23 11:10 Batch Analyst: Oseen, Taryn GBatch Method: 3510C Batch End Date: 03/06/23 17:22

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

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GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-124247-1

SDG No.: _____

Batch Number: 419928 Batch Start Date: 03/08/23 17:12 Batch Analyst: Cox, Courtney LBatch Method: 3580A Batch End Date: 03/08/23 17:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TPH Spike_RZ 00111	TPH_SURR 00075		
MB 580-419928/1		3580A, NWTPH-Dx		0.2 g	10 mL		100 uL		
LCS 580-419928/2		3580A, NWTPH-Dx		0.2 g	10 mL	100 uL	100 uL		
LCSD 580-419928/3		3580A, NWTPH-Dx		0.2 g	10 mL	100 uL	100 uL		
580-124247-A-9	MW-4_20230227	3580A, NWTPH-Dx	T	0.225 g	10 mL		100 uL		
580-124247-A-9 DU	MW-4_20230227	3580A, NWTPH-Dx	T	0.220 g	10 mL		100 uL		

Batch Notes	
Method/Fraction	3580/Dx
Balance ID	SEA230
Pipette/Syringe/Dispenser ID	MP5
Analyst ID - Extraction	CC
Analyst ID - Spike Analyst	CC
Sufficient Volume for Batch QC	yes
Prep Solvent ID	3394266
Vial Lot Number	4-2-4
Batch Comment	vialed by CC

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

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METALS BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-124247-1

SDG No.: _____

Batch Number: 419934Batch Start Date: 03/08/23 18:20Batch Analyst: Vallelunga, Diana LBatch Method: 3005ABatch End Date: 03/08/23 23:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00022	ICP CAL 2 00022	MET Spike 3C 00042	
580-124247-I-1	MW-2_20230227	3005A, 6020B	R	50 mL	50 mL				
580-124247-I-1 DU	MW-2_20230227	3005A, 6020B	R	50 mL	50 mL				
580-124247-I-1 MS	MW-2_20230227	3005A, 6020B	R	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-124247-I-1 MSD	MW-2_20230227	3005A, 6020B	R	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-124247-I-2	MW-3_20230227	3005A, 6020B	R	50 mL	50 mL				
580-124247-I-3	MW-4_20230227	3005A, 6020B	R	5.0 mL	50 mL				
580-124247-I-4	MW-6_20230227	3005A, 6020B	R	50 mL	50 mL				
580-124247-I-5	MW-11_20230227	3005A, 6020B	R	50 mL	50 mL				
580-124247-I-6	MW-12_20230227	3005A, 6020B	R	50 mL	50 mL				
580-124247-I-7	GMW-1_20230227	3005A, 6020B	R	50 mL	50 mL				
MB 580-419934/17		3005A, 6020B		50 mL	50 mL				
LCS 580-419934/18		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-419934/19		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

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METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-124247-1

SDG No.: _____

Batch Number: 419934 Batch Start Date: 03/08/23 18:20 Batch Analyst: Vallelunga, Diana LBatch Method: 3005A Batch End Date: 03/08/23 23:00

Batch Notes	
Digestion Tube/Cup ID	3401249
Pipette/Syringe/Dispenser ID	metals prep 2
Analyst ID - Spike Analyst	JS
Analyst ID - Spike Witness Analyst	DLV
Sufficient Volume for Batch QC	yes
Hydrochloric Acid ID	3412755
Nitric Acid ID	3414333
Digestion Unit ID	BLOCK B
Thermometer ID	74261
Thermometer Location ID	B36
Temperature - Uncorrected - Start	93.0 Degrees C
Temperature - Corrected - Start	93.0 Degrees C
Digestion Start Time	03/08/2023 19:00
Digestion End Time	03/08/2023 23:00
Temperature - Uncorrected - End	93.0 Degrees C
Temperature - Corrected - End	93.0 Degrees C

Basis	Basis Description
R	Total Recoverable

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

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METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-124247-1

SDG No.: _____

Batch Number: 420019 Batch Start Date: 03/09/23 15:00 Batch Analyst: Lees, JensenBatch Method: FILTRATION Batch End Date: 03/09/23 15:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
580-124251-B-1		FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-124247-I-1	MW-2_20230227	FILTRATION, 3005A, 6020B	D	100 mL	100 mL				
580-124247-I-2	MW-3_20230227	FILTRATION, 3005A, 6020B	D	150 mL	150 mL				
580-124247-I-3	MW-4_20230227	FILTRATION, 3005A, 6020B	D	75 mL	75 mL				
580-124247-I-4	MW-6_20230227	FILTRATION, 3005A, 6020B	D	200 mL	200 mL				
580-124247-I-5	MW-11_20230227	FILTRATION, 3005A, 6020B	D	200 mL	200 mL				
580-124247-I-6	MW-12_20230227	FILTRATION, 3005A, 6020B	D	200 mL	200 mL				
580-124247-I-7	GMW-1_20230227	FILTRATION, 3005A, 6020B	D	200 mL	200 mL				
MB 580-420019/10		FILTRATION, 3005A, 6020B		250 mL	250 mL				
LCS 580-420019/11		FILTRATION, 3005A, 6020B		250 mL	250 mL				
LCSD 580-420019/12		FILTRATION, 3005A, 6020B		250 mL	250 mL				

Batch Notes

Filter ID	1372242
Nitric Acid ID	3414333

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

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METALS BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-124247-1

SDG No.: _____

Batch Number: 420113Batch Start Date: 03/10/23 13:56Batch Analyst: Vallelunga, Diana LBatch Method: 3005ABatch End Date: 03/10/23 23:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00022	ICP CAL 2 00022	MET Spike 3C 00042	
580-124251-B-1-A		3005A, 6020B	D	50 mL	50 mL				
580-124251-B-1-A DU		3005A, 6020B	D	50 mL	50 mL				
580-124251-B-1-A MS		3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-124251-B-1-A MSD		3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-124247-I-1-E	MW-2_20230227	3005A, 6020B	D	50 mL	50 mL				
580-124247-I-2-B	MW-3_20230227	3005A, 6020B	D	50 mL	50 mL				
580-124247-I-3-B	MW-4_20230227	3005A, 6020B	D	50 mL	50 mL				
580-124247-I-4-B	MW-6_20230227	3005A, 6020B	D	50 mL	50 mL				
580-124247-I-5-B	MW-11_20230227	3005A, 6020B	D	50 mL	50 mL				
580-124247-I-6-B	MW-12_20230227	3005A, 6020B	D	50 mL	50 mL				
580-124247-I-7-B	GMW-1_20230227	3005A, 6020B	D	50 mL	50 mL				
MB 580-420019/10-A		3005A, 6020B		50 mL	50 mL				
LCS 580-420019/11-A		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-420019/12-A		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

Page 1 of 2

METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-124247-1

SDG No.: _____

Batch Number: 420113 Batch Start Date: 03/10/23 13:56 Batch Analyst: Vallelunga, Diana LBatch Method: 3005A Batch End Date: 03/10/23 23:25

Batch Notes	
pH Indicator ID	M642888111G
Digestion Tube/Cup ID	3401249
Pipette/Syringe/Dispenser ID	metals prep 2
Analyst ID - Spike Analyst	JS
Analyst ID - Spike Witness Analyst	DLV
Sufficient Volume for Batch QC	yes
Hydrochloric Acid ID	3412754
Nitric Acid ID	3414332
Digestion Unit ID	BLOCK A
Thermometer ID	1108438
Thermometer Location ID	A26
Temperature - Uncorrected - Start	92.0 Degrees C
Temperature - Corrected - Start	91.6 Degrees C
Digestion Start Time	03/10/2023 19:25
Digestion End Time	03/10/2023 23:25
Temperature - Uncorrected - End	92.0 Degrees C
Temperature - Corrected - End	91.6 Degrees C

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-124247-1

SDG No.: _____

Batch Number: 419794 Batch Start Date: 03/06/23 12:02 Batch Analyst: Anderson, ChelseyBatch Method: 300.0 Batch End Date: 03/06/23 23:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC-Custom-EE 00031			
MB 580-419794/5		300.0		5 mL	5 mL				
LCS 580-419794/6		300.0		5 mL	5 mL	0.25 mL			
LCSD 580-419794/7		300.0		5 mL	5 mL	0.25 mL			
580-124247-K-1	MW-2_20230227	300.0	T	5 mL	5 mL				
580-124247-K-1 ^5	MW-2_20230227	300.0	T	5 mL	5 mL				
580-124247-L-2	MW-3_20230227	300.0	T	5 mL	5 mL				
580-124247-K-3	MW-4_20230227	300.0	T	5 mL	5 mL				
580-124247-K-3 ^5	MW-4_20230227	300.0	T	5 mL	5 mL				
580-124247-K-4	MW-6_20230227	300.0	T	5 mL	5 mL				
580-124247-K-4 MS	MW-6_20230227	300.0	T	5 mL	5 mL	0.25 mL			
580-124247-K-4 MSD	MW-6_20230227	300.0	T	5 mL	5 mL	0.25 mL			
580-124247-K-5	MW-11_20230227	300.0	T	5 mL	5 mL				
580-124247-K-5 ^5	MW-11_20230227	300.0	T	5 mL	5 mL				
580-124247-K-5 ^10	MW-11_20230227	300.0	T	5 mL	5 mL				
580-124247-K-7	GMW-1_20230227	300.0	T	5 mL	5 mL				
580-124247-K-7 ^20	GMW-1_20230227	300.0	T	5 mL	5 mL				

Batch Notes

Filter ID	FL0249
Pipette/Syringe/Dispenser ID	WC 10C/ WC 2C/ WC 0.1D/ 1145035
Sufficient Volume for Batch QC	Yes
Eluent 1 ID	220622

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

300.0

Page 1 of 1

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-124247-1

SDG No.: _____

Batch Number: 419796 Batch Start Date: 03/06/23 12:02 Batch Analyst: Anderson, ChelseyBatch Method: 300.0 Batch End Date: 03/06/23 18:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC-Custom-EE 00031			
MB 580-419796/5		300.0		5 mL	5 mL				
LCS 580-419796/6		300.0		5 mL	5 mL	0.25 mL			
LCSD 580-419796/7		300.0		5 mL	5 mL	0.25 mL			
580-124247-K-1	MW-2_20230227	300.0	T	5 mL	5 mL				
580-124247-K-1 ^5	MW-2_20230227	300.0	T	5 mL	5 mL				
580-124247-L-2	MW-3_20230227	300.0	T	5 mL	5 mL				
580-124247-K-3	MW-4_20230227	300.0	T	5 mL	5 mL				
580-124247-K-3 ^5	MW-4_20230227	300.0	T	5 mL	5 mL				
580-124247-K-4	MW-6_20230227	300.0	T	5 mL	5 mL				
580-124247-K-4 MS	MW-6_20230227	300.0	T	5 mL	5 mL	0.25 mL			
580-124247-K-4 MSD	MW-6_20230227	300.0	T	5 mL	5 mL	0.25 mL			
580-124247-K-5	MW-11_20230227	300.0	T	5 mL	5 mL				
580-124247-K-5 ^5	MW-11_20230227	300.0	T	5 mL	5 mL				
580-124247-K-5 ^10	MW-11_20230227	300.0	T	5 mL	5 mL				
580-124247-K-6	MW-12_20230227	300.0	T	5 mL	5 mL				
580-124247-K-7	GMW-1_20230227	300.0	T	5 mL	5 mL				
580-124247-K-7 ^20	GMW-1_20230227	300.0	T	5 mL	5 mL				

Batch Notes

Filter ID	FL0249
Pipette/Syringe/Dispenser ID	WC 10C/ WC 2C/ WC 0.1D/ 1145035/ WC 5A
Sufficient Volume for Batch QC	YES
Eluent 1 ID	220622

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

300.0

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-124247-1

SDG No.: _____

Batch Number: 419958 Batch Start Date: 03/07/23 10:59 Batch Analyst: Anderson, ChelseyBatch Method: 300.0 Batch End Date: 03/07/23 00:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC-Custom-EE 00031			
MB 580-419958/3		300.0		5 mL	5 mL				
LCS 580-419958/4		300.0		5 mL	5 mL	0.25 mL			
LCSD 580-419958/5		300.0		5 mL	5 mL	0.25 mL			
580-124308-I-6		300.0	T	5 mL	5 mL				
580-124308-I-6 MS		300.0	T	5 mL	5 mL	0.25 mL			
580-124308-I-6 MSD		300.0	T	5 mL	5 mL	0.25 mL			
580-124247-K-6	MW-12_20230227	300.0	T	5 mL	5 mL				

Batch Notes	
Filter ID	FL0249
Pipette/Syringe/Dispenser ID	WC 10C/ WC 2C/ WC 0.1D/ 1145035
Sufficient Volume for Batch QC	YES
Eluent 1 ID	220622

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

300.0

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-124247-1

SDG No.: _____

Batch Number: 419633Batch Start Date: 03/06/23 13:24Batch Analyst: Ulloa Aguilar, AshleyBatch Method: SM 2540CBatch End Date: 03/08/23 21:47

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	CrucibleID	InitialAmount	TareWeight	Weight1	Weight2
MB 580-419633/1		SM 2540C			B0894765	100 mL	3.9821 g	3.9822 g	3.9823 g
LCS 580-419633/2		SM 2540C			B0894423	50 mL	4.0110 g	4.0636 g	4.0635 g
580-124247-L-1	MW-2_20230227	SM 2540C	T	362 umhos/cm	B0894442	100 mL	4.0813 g	4.1048 g	4.1050 g
580-124247-L-2	MW-3_20230227	SM 2540C	T	202.8 umhos/cm	B0894769	100 mL	4.1455 g	4.1529 g	4.1533 g
580-124247-L-3	MW-4_20230227	SM 2540C	T	645 umhos/cm	B0894452	100 mL	4.0826 g	4.1264 g	4.1266 g
580-124247-L-4	MW-6_20230227	SM 2540C	T	257 umhos/cm	B0894446	100 mL	4.1869 g	4.1977 g	4.1979 g
580-124247-L-5	MW-11_20230227	SM 2540C	T	1487 umhos/cm	B0894438	100 mL	4.1309 g	4.2379 g	4.2383 g
580-124247-L-6	MW-12_20230227	SM 2540C	T	843 umhos/cm	B0894437	100 mL	4.1865 g	4.2314 g	4.2318 g
580-124247-L-7	GMW-1_20230227	SM 2540C	T	1286 umhos/cm	B0894436	100 mL	4.1462 g	4.2095 g	4.2099 g
580-124247-L-4 DU	MW-6_20230227	SM 2540C	T	257 umhos/cm	B0894447	100 mL	4.1756 g	4.1853 g	4.1856 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightOne%Diff	WeightTwo%Diff	Weight40K	Residue	Residue2	Residue3
MB 580-419633/1		SM 2540C		Pass	N/A	N/A	0.0001 g	0.0002 g	N/A g
LCS 580-419633/2		SM 2540C		Pass	N/A	N/A	0.0526 g	0.0525 g	N/A g
580-124247-L-1	MW-2_20230227	SM 2540C	T	Pass	N/A	N/A	0.0235 g	0.0237 g	N/A g
580-124247-L-2	MW-3_20230227	SM 2540C	T	Pass	N/A	N/A	0.0074 g	0.0078 g	N/A g
580-124247-L-3	MW-4_20230227	SM 2540C	T	Pass	N/A	N/A	0.0438 g	0.044 g	N/A g
580-124247-L-4	MW-6_20230227	SM 2540C	T	Pass	N/A	N/A	0.0108 g	0.011 g	N/A g
580-124247-L-5	MW-11_20230227	SM 2540C	T	Pass	N/A	N/A	0.107 g	0.1074 g	N/A g
580-124247-L-6	MW-12_20230227	SM 2540C	T	Pass	N/A	N/A	0.0449 g	0.0453 g	N/A g
580-124247-L-7	GMW-1_20230227	SM 2540C	T	Pass	N/A	N/A	0.0633 g	0.0637 g	N/A g
580-124247-L-4 DU	MW-6_20230227	SM 2540C	T	Pass	N/A	N/A	0.0097 g	0.01 g	N/A g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue4	FinalAmount	CalcMsg	TDS Std. 00091		
MB 580-419633/1		SM 2540C		N/A g	100 mL	OK			
LCS 580-419633/2		SM 2540C		N/A g	100 mL	OK	50 mL		
580-124247-L-1	MW-2_20230227	SM 2540C	T	N/A g	100 mL	OK			
580-124247-L-2	MW-3_20230227	SM 2540C	T	N/A g	100 mL	OK			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

SM 2540C

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-124247-1

SDG No.: _____

Batch Number: 419633 Batch Start Date: 03/06/23 13:24 Batch Analyst: Ulloa Aguilar, AshleyBatch Method: SM 2540C Batch End Date: 03/08/23 21:47

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue4	FinalAmount	CalcMsg	TDS Std. 00091		
580-124247-L-3	MW-4_20230227	SM 2540C	T	N/A g	100 mL	OK			
580-124247-L-4	MW-6_20230227	SM 2540C	T	N/A g	100 mL	OK			
580-124247-L-5	MW-11_20230227	SM 2540C	T	N/A g	100 mL	OK			
580-124247-L-6	MW-12_20230227	SM 2540C	T	N/A g	100 mL	OK			
580-124247-L-7	GMW-1_20230227	SM 2540C	T	N/A g	100 mL	OK			
580-124247-L-4 DU	MW-6_20230227	SM 2540C	T	N/A g	100 mL	OK			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

SM 2540C

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-124247-1

SDG No.: _____

Batch Number: 419633 Batch Start Date: 03/06/23 13:24 Batch Analyst: Ulloa Aguilar, AshleyBatch Method: SM 2540C Batch End Date: 03/08/23 21:47

Batch Notes	
Nominal Amount Used	100.0 mL
Conductivity Meter ID	TAC 132
Filter ID	17617475
Balance ID	SEA227/sea236
Vessel Lot ID	202250001-3052-LB
Oven ID - Low Temperature	TDS-TSS2
Thermometer ID - Low Temperature	Digital Readout
Date/Time - In	03/06/2023 18:54
Temperature - Start - Uncorrected	170.0 Celsius
Temperature - Start - Corrected	169.8 Celsius
Date/Time - Out	03/08/2023 09:29
Temperature - End - Uncorrected	170.0 Celsius
Temperature - End - Corrected	169.8 Celsius
Oven ID	TDS 1
Thermometer ID	Digital Readout
Weight(WT1) Start Date/Time	03/08/2023 09:30
Uncorrected Weight(WT1) Start Temp	180.0 Celsius
Weight(WT1) Start Temp	180.6 Celsius
Weight(WT1) Date/Time Out	03/08/2023 13:38
Uncorrected Weight(WT1) Temp Out	180.0 Celsius
Weight(WT1) Temp Out	180.6 Celsius
Date/Time - In - CW (WT2)	03/08/2023 15:10
Temperature - Start-CW(WT2) -Uncorrected	180.0 Celsius
Temperature - Start - CW (WT2) - Correct	180.6 Celsius
Date/Time - Out - CW (WT2)	03/08/2023 16:38
Temperature - End-CW(WT2) -Uncorrected	180.0 Celsius
Temperature - End - CW (WT2) - Correct	180.6 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

SM 2540C

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ANALYTICAL REPORT

PREPARED FOR

Attn: Megan Richard
Antea USA Inc.
18378-B Redmond Way
Redmond, Washington 98052

Generated 6/8/2023 1:41:46 PM

JOB DESCRIPTION

BP - ARCO 11060

JOB NUMBER

580-127691-1

Eurofins Seattle

Job Notes

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Definitions/Glossary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

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

Case Narrative

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

Job ID: 580-127691-1

Laboratory: Eurofins Seattle

Narrative

Job Narrative 580-127691-1

Receipt

The samples were received on 5/26/2023 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3° C.

Receipt Exceptions

The Chain-of-Custody (COC) is missing the collection time for Sample ID GMW-1_20230525. Sample was logged using information found on the container labels.

GC/MS VOA

Method 8260D: Dibromofluoromethane (Surr) recovery for the following sample was outside the upper control limit: MW-4_PDB_20230525 (580-127691-1). This sample did not contain any target analytes; therefore, re-analysis was not performed.

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

GC Semi VOA

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

Metals

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

Organic Prep

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

VOA Prep

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

Detection Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

Client Sample ID: MW-4_PDB_20230525

Lab Sample ID: 580-127691-1

No Detections.

Client Sample ID: MW-11_20230525

Lab Sample ID: 580-127691-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	310		110	66	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-12_20230525

Lab Sample ID: 580-127691-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	820		50	14	ug/L	1		NWTPH-Gx	Total/NA
#2 Diesel (C10-C24)	1300		110	67	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: GMW-1_20230525

Lab Sample ID: 580-127691-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	200		120	69	ug/L	1		NWTPH-Dx	Total/NA
Lead	74		2.0	0.20	ug/L	5		6020B	Total Recoverable

Client Sample ID: Trip Blank_20230525

Lab Sample ID: 580-127691-5

No Detections.

Client Sample ID: Field Blank_20230525

Lab Sample ID: 580-127691-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

Client Sample ID: MW-4_PDB_20230525

Lab Sample ID: 580-127691-1

Date Collected: 05/25/23 08:45

Matrix: Water

Date Received: 05/26/23 10:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			05/31/23 15:05	1
Ethylbenzene	ND		1.0	0.50	ug/L			05/31/23 15:05	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			05/31/23 15:05	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			05/31/23 15:05	1
o-Xylene	ND		1.0	0.39	ug/L			05/31/23 15:05	1
Toluene	ND		1.0	0.39	ug/L			05/31/23 15:05	1
Xylenes, Total	ND		2.0	0.53	ug/L			05/31/23 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		05/31/23 15:05	1
4-Bromofluorobenzene (Surr)	90		80 - 120		05/31/23 15:05	1
Dibromofluoromethane (Surr)	124	S1+	80 - 120		05/31/23 15:05	1
Toluene-d8 (Surr)	94		80 - 120		05/31/23 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	14	ug/L			05/31/23 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		77 - 123		05/31/23 15:05	1

Client Sample ID: MW-11_20230525

Lab Sample ID: 580-127691-2

Date Collected: 05/25/23 09:50

Matrix: Water

Date Received: 05/26/23 10:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			05/31/23 15:53	1
Ethylbenzene	ND		1.0	0.50	ug/L			05/31/23 15:53	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			05/31/23 15:53	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			05/31/23 15:53	1
o-Xylene	ND		1.0	0.39	ug/L			05/31/23 15:53	1
Toluene	ND		1.0	0.39	ug/L			05/31/23 15:53	1
Xylenes, Total	ND		2.0	0.53	ug/L			05/31/23 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		05/31/23 15:53	1
4-Bromofluorobenzene (Surr)	82		80 - 120		05/31/23 15:53	1
Dibromofluoromethane (Surr)	108		80 - 120		05/31/23 15:53	1
Toluene-d8 (Surr)	91		80 - 120		05/31/23 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	14	ug/L			05/31/23 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		77 - 123		05/31/23 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	310		110	66	ug/L		05/31/23 09:38	06/01/23 01:23	1
Motor Oil (>C24-C36)	ND		360	98	ug/L		05/31/23 09:38	06/01/23 01:23	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

Client Sample ID: MW-11_20230525

Lab Sample ID: 580-127691-2

Date Collected: 05/25/23 09:50

Matrix: Water

Date Received: 05/26/23 10:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	57		50 - 150	05/31/23 09:38	06/01/23 01:23	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		05/30/23 16:58	05/31/23 13:59	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		06/05/23 15:30	06/06/23 14:52	5

Client Sample ID: MW-12_20230525

Lab Sample ID: 580-127691-3

Date Collected: 05/25/23 10:30

Matrix: Water

Date Received: 05/26/23 10:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			05/31/23 16:17	1
Ethylbenzene	ND		1.0	0.50	ug/L			05/31/23 16:17	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			05/31/23 16:17	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			05/31/23 16:17	1
o-Xylene	ND		1.0	0.39	ug/L			05/31/23 16:17	1
Toluene	ND		1.0	0.39	ug/L			05/31/23 16:17	1
Xylenes, Total	ND		2.0	0.53	ug/L			05/31/23 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		05/31/23 16:17	1
4-Bromofluorobenzene (Surr)	92		80 - 120		05/31/23 16:17	1
Dibromofluoromethane (Surr)	105		80 - 120		05/31/23 16:17	1
Toluene-d8 (Surr)	100		80 - 120		05/31/23 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	820		50	14	ug/L			05/31/23 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		77 - 123		05/31/23 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	1300		110	67	ug/L		05/31/23 09:38	06/01/23 01:41	1
Motor Oil (>C24-C36)	ND		360	99	ug/L		05/31/23 09:38	06/01/23 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	60		50 - 150	05/31/23 09:38	06/01/23 01:41	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		05/30/23 16:58	05/31/23 14:02	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		06/05/23 15:30	06/06/23 14:47	5

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

Client Sample ID: GMW-1_20230525

Lab Sample ID: 580-127691-4

Date Collected: 05/25/23 00:00

Matrix: Water

Date Received: 05/26/23 10:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			05/31/23 16:41	1
Ethylbenzene	ND		1.0	0.50	ug/L			05/31/23 16:41	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			05/31/23 16:41	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			05/31/23 16:41	1
o-Xylene	ND		1.0	0.39	ug/L			05/31/23 16:41	1
Toluene	ND		1.0	0.39	ug/L			05/31/23 16:41	1
Xylenes, Total	ND		2.0	0.53	ug/L			05/31/23 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		05/31/23 16:41	1
4-Bromofluorobenzene (Surr)	86		80 - 120		05/31/23 16:41	1
Dibromofluoromethane (Surr)	107		80 - 120		05/31/23 16:41	1
Toluene-d8 (Surr)	102		80 - 120		05/31/23 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	14	ug/L			05/31/23 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		77 - 123		05/31/23 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	200		120	69	ug/L		05/31/23 09:38	06/01/23 02:00	1
Motor Oil (>C24-C36)	ND		370	100	ug/L		05/31/23 09:38	06/01/23 02:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	58		50 - 150	05/31/23 09:38	06/01/23 02:00	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	74		2.0	0.20	ug/L		05/30/23 16:58	05/31/23 14:05	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		06/05/23 15:30	06/06/23 14:49	5

Client Sample ID: Trip Blank_20230525

Lab Sample ID: 580-127691-5

Date Collected: 05/25/23 00:00

Matrix: Water

Date Received: 05/26/23 10:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			05/31/23 09:26	1
Toluene	ND		1.0	0.39	ug/L			05/31/23 09:26	1
Ethylbenzene	ND		1.0	0.50	ug/L			05/31/23 09:26	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			05/31/23 09:26	1
o-Xylene	ND		1.0	0.39	ug/L			05/31/23 09:26	1
Xylenes, Total	ND		2.0	0.53	ug/L			05/31/23 09:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		05/31/23 09:26	1

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Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

Client Sample ID: Trip Blank_20230525

Lab Sample ID: 580-127691-5

Date Collected: 05/25/23 00:00

Matrix: Water

Date Received: 05/26/23 10:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		05/31/23 09:26	1
4-Bromofluorobenzene (Surr)	94		80 - 120		05/31/23 09:26	1
Dibromofluoromethane (Surr)	106		80 - 120		05/31/23 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	14	ug/L			05/31/23 09:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		77 - 123					05/31/23 09:26	1

Client Sample ID: Field Blank_20230525

Lab Sample ID: 580-127691-6

Date Collected: 05/25/23 09:00

Matrix: Water

Date Received: 05/26/23 10:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			05/31/23 09:50	1
Toluene	ND		1.0	0.39	ug/L			05/31/23 09:50	1
Ethylbenzene	ND		1.0	0.50	ug/L			05/31/23 09:50	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			05/31/23 09:50	1
o-Xylene	ND		1.0	0.39	ug/L			05/31/23 09:50	1
Xylenes, Total	ND		2.0	0.53	ug/L			05/31/23 09:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120					05/31/23 09:50	1
1,2-Dichloroethane-d4 (Surr)	98		80 - 120					05/31/23 09:50	1
4-Bromofluorobenzene (Surr)	102		80 - 120					05/31/23 09:50	1
Dibromofluoromethane (Surr)	109		80 - 120					05/31/23 09:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	14	ug/L			05/31/23 09:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		77 - 123					05/31/23 09:50	1

Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(80-120)	(80-120)	(80-120)	(80-120)
580-127691-1	MW-4_PDB_20230525	103	90	124 S1+	94
580-127691-2	MW-11_20230525	101	82	108	91
580-127691-3	MW-12_20230525	99	92	105	100
580-127691-4	GMW-1_20230525	97	86	107	102
580-127691-5	Trip Blank_20230525	97	94	106	94
580-127691-6	Field Blank_20230525	98	102	109	92
LCS 580-427445/7	Lab Control Sample	92	110	104	100
LCSD 580-427445/8	Lab Control Sample Dup	96	104	100	99
MB 580-427445/6	Method Blank	100	94	103	91

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB
		(77-123)
580-127691-1	MW-4_PDB_20230525	90
580-127691-2	MW-11_20230525	82
580-127691-3	MW-12_20230525	92
580-127691-4	GMW-1_20230525	86
580-127691-5	Trip Blank_20230525	94
580-127691-6	Field Blank_20230525	102
LCS 580-427447/9	Lab Control Sample	107
LCSD 580-427447/10	Lab Control Sample Dup	98
MB 580-427447/6	Method Blank	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH
		(50-150)
580-127691-2	MW-11_20230525	57
580-127691-3	MW-12_20230525	60
580-127691-4	GMW-1_20230525	58
LCS 580-427460/2-A	Lab Control Sample	84
LCSD 580-427460/3-A	Lab Control Sample Dup	77
MB 580-427460/1-A	Method Blank	54

Surrogate Legend

OTPH = o-Terphenyl

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

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

Lab Sample ID: MB 580-427445/6

Matrix: Water

Analysis Batch: 427445

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			05/31/23 07:00	1
Ethylbenzene	ND		1.0	0.50	ug/L			05/31/23 07:00	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			05/31/23 07:00	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			05/31/23 07:00	1
o-Xylene	ND		1.0	0.39	ug/L			05/31/23 07:00	1
Toluene	ND		1.0	0.39	ug/L			05/31/23 07:00	1
Xylenes, Total	ND		2.0	0.53	ug/L			05/31/23 07:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		05/31/23 07:00	1
4-Bromofluorobenzene (Surr)	94		80 - 120		05/31/23 07:00	1
Dibromofluoromethane (Surr)	103		80 - 120		05/31/23 07:00	1
Toluene-d8 (Surr)	91		80 - 120		05/31/23 07:00	1

Lab Sample ID: LCS 580-427445/7

Matrix: Water

Analysis Batch: 427445

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	10.0	9.03		ug/L		90	80 - 122
Ethylbenzene	10.0	9.20		ug/L		92	80 - 120
Methyl tert-butyl ether	10.0	8.39		ug/L		84	72 - 120
m-Xylene & p-Xylene	10.0	8.98		ug/L		90	80 - 120
o-Xylene	10.0	8.76		ug/L		88	80 - 120
Toluene	10.0	8.96		ug/L		90	80 - 120
Xylenes, Total	20.0	17.7		ug/L		89	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	110		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 580-427445/8

Matrix: Water

Analysis Batch: 427445

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	10.0	9.34		ug/L		93	80 - 122	3	14
Ethylbenzene	10.0	8.88		ug/L		89	80 - 120	4	14
Methyl tert-butyl ether	10.0	8.87		ug/L		89	72 - 120	6	18
m-Xylene & p-Xylene	10.0	9.00		ug/L		90	80 - 120	0	14
o-Xylene	10.0	8.96		ug/L		90	80 - 120	2	16
Toluene	10.0	8.98		ug/L		90	80 - 120	0	13
Xylenes, Total	20.0	18.0		ug/L		90	80 - 120	1	16

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

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

Lab Sample ID: LCSD 580-427445/8

Matrix: Water

Analysis Batch: 427445

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	99		80 - 120

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

Lab Sample ID: MB 580-427447/6

Matrix: Water

Analysis Batch: 427447

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		50	14	ug/L			05/31/23 07:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		77 - 123					05/31/23 07:00	1

Lab Sample ID: LCS 580-427447/9

Matrix: Water

Analysis Batch: 427447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline	1000	874		ug/L		87	55 - 148		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	107		77 - 123						

Lab Sample ID: LCSD 580-427447/10

Matrix: Water

Analysis Batch: 427447

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	1000	958		ug/L		96	55 - 148	9	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		77 - 123						

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

Lab Sample ID: MB 580-427460/1-A

Matrix: Water

Analysis Batch: 427463

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 427460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		110	65	ug/L		05/31/23 09:38	05/31/23 19:42	1
Motor Oil (>C24-C36)	ND		350	96	ug/L		05/31/23 09:38	05/31/23 19:42	1

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

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

Lab Sample ID: MB 580-427460/1-A

Matrix: Water

Analysis Batch: 427463

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 427460

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	54		50 - 150	05/31/23 09:38	05/31/23 19:42	1

Lab Sample ID: LCS 580-427460/2-A

Matrix: Water

Analysis Batch: 427463

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 427460

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
#2 Diesel (C10-C24)			4000	3130		ug/L		78	50 - 120		
Motor Oil (>C24-C36)			4000	3310		ug/L		83	64 - 120		
			LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits								
o-Terphenyl	84		50 - 150								

Lab Sample ID: LCSD 580-427460/3-A

Matrix: Water

Analysis Batch: 427463

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 427460

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)			4000	2710		ug/L		68	50 - 120	15	26
Motor Oil (>C24-C36)			4000	2900		ug/L		72	64 - 120	13	24
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
o-Terphenyl	77		50 - 150								

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-427404/22-A

Matrix: Water

Analysis Batch: 427607

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 427404

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.40	0.040	ug/L		05/30/23 16:58	05/31/23 12:54	1

Lab Sample ID: LCS 580-427404/23-A

Matrix: Water

Analysis Batch: 427607

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 427404

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1000	1010		ug/L		101	80 - 120

Lab Sample ID: LCSD 580-427404/24-A

Matrix: Water

Analysis Batch: 427607

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 427404

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	1000	1100		ug/L		110	80 - 120	8	20

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-127660-R-1-C MS
Matrix: Water
Analysis Batch: 427607

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 427404

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		1000	1140		ug/L		114	80 - 120

Lab Sample ID: 580-127660-R-1-D MSD
Matrix: Water
Analysis Batch: 427607

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 427404

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1000	1070		ug/L		107	80 - 120	6	20

Lab Sample ID: 580-127660-R-1-B DU
Matrix: Water
Analysis Batch: 427607

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 427404

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	ND		ND		ug/L		NC	20

Lab Sample ID: MB 580-427616/1-B
Matrix: Water
Analysis Batch: 428116

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 427955

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		06/05/23 15:30	06/06/23 14:44	5

Lab Sample ID: LCS 580-427616/2-B
Matrix: Water
Analysis Batch: 428116

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 427955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1000	954		ug/L		95	80 - 120

Lab Sample ID: LCSD 580-427616/3-B
Matrix: Water
Analysis Batch: 428116

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 427955

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	1000	964		ug/L		96	80 - 120	1	20

Lab Sample ID: 580-127691-2 MS
Matrix: Water
Analysis Batch: 428116

Client Sample ID: MW-11_20230525
Prep Type: Dissolved
Prep Batch: 427955

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		1000	971		ug/L		97	80 - 120

Lab Sample ID: 580-127691-2 MSD
Matrix: Water
Analysis Batch: 428116

Client Sample ID: MW-11_20230525
Prep Type: Dissolved
Prep Batch: 427955

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1000	990		ug/L		99	80 - 120	2	20

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 580-127691-2 DU
Matrix: Water
Analysis Batch: 428116

Client Sample ID: MW-11_20230525
Prep Type: Dissolved
Prep Batch: 427955

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	ND		ND		ug/L		NC	20

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

GC/MS VOA

Analysis Batch: 427445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-127691-1	MW-4_PDB_20230525	Total/NA	Water	8260D	
580-127691-2	MW-11_20230525	Total/NA	Water	8260D	
580-127691-3	MW-12_20230525	Total/NA	Water	8260D	
580-127691-4	GMW-1_20230525	Total/NA	Water	8260D	
580-127691-5	Trip Blank_20230525	Total/NA	Water	8260D	
580-127691-6	Field Blank_20230525	Total/NA	Water	8260D	
MB 580-427445/6	Method Blank	Total/NA	Water	8260D	
LCS 580-427445/7	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-427445/8	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 427447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-127691-1	MW-4_PDB_20230525	Total/NA	Water	NWTPH-Gx	
580-127691-2	MW-11_20230525	Total/NA	Water	NWTPH-Gx	
580-127691-3	MW-12_20230525	Total/NA	Water	NWTPH-Gx	
580-127691-4	GMW-1_20230525	Total/NA	Water	NWTPH-Gx	
580-127691-5	Trip Blank_20230525	Total/NA	Water	NWTPH-Gx	
580-127691-6	Field Blank_20230525	Total/NA	Water	NWTPH-Gx	
MB 580-427447/6	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 580-427447/9	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 580-427447/10	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

GC Semi VOA

Prep Batch: 427460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-127691-2	MW-11_20230525	Total/NA	Water	3510C	
580-127691-3	MW-12_20230525	Total/NA	Water	3510C	
580-127691-4	GMW-1_20230525	Total/NA	Water	3510C	
MB 580-427460/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-427460/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-427460/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 427463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-127691-2	MW-11_20230525	Total/NA	Water	NWTPH-Dx	427460
580-127691-3	MW-12_20230525	Total/NA	Water	NWTPH-Dx	427460
580-127691-4	GMW-1_20230525	Total/NA	Water	NWTPH-Dx	427460
MB 580-427460/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	427460
LCS 580-427460/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	427460
LCSD 580-427460/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	427460

Metals

Prep Batch: 427404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-127691-2	MW-11_20230525	Total Recoverable	Water	3005A	
580-127691-3	MW-12_20230525	Total Recoverable	Water	3005A	
580-127691-4	GMW-1_20230525	Total Recoverable	Water	3005A	
MB 580-427404/22-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-427404/23-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-427404/24-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

Metals (Continued)

Prep Batch: 427404 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-127660-R-1-C MS	Matrix Spike	Dissolved	Water	3005A	
580-127660-R-1-D MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	
580-127660-R-1-B DU	Duplicate	Dissolved	Water	3005A	

Analysis Batch: 427607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-127691-2	MW-11_20230525	Total Recoverable	Water	6020B	427404
580-127691-3	MW-12_20230525	Total Recoverable	Water	6020B	427404
580-127691-4	GMW-1_20230525	Total Recoverable	Water	6020B	427404
MB 580-427404/22-A	Method Blank	Total Recoverable	Water	6020B	427404
LCS 580-427404/23-A	Lab Control Sample	Total Recoverable	Water	6020B	427404
LCSD 580-427404/24-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	427404
580-127660-R-1-C MS	Matrix Spike	Dissolved	Water	6020B	427404
580-127660-R-1-D MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	427404
580-127660-R-1-B DU	Duplicate	Dissolved	Water	6020B	427404

Filtration Batch: 427616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-127691-2	MW-11_20230525	Dissolved	Water	FILTRATION	
580-127691-3	MW-12_20230525	Dissolved	Water	FILTRATION	
580-127691-4	GMW-1_20230525	Dissolved	Water	FILTRATION	
MB 580-427616/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 580-427616/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 580-427616/3-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
580-127691-2 MS	MW-11_20230525	Dissolved	Water	FILTRATION	
580-127691-2 MSD	MW-11_20230525	Dissolved	Water	FILTRATION	
580-127691-2 DU	MW-11_20230525	Dissolved	Water	FILTRATION	

Prep Batch: 427955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-127691-2	MW-11_20230525	Dissolved	Water	3005A	427616
580-127691-3	MW-12_20230525	Dissolved	Water	3005A	427616
580-127691-4	GMW-1_20230525	Dissolved	Water	3005A	427616
MB 580-427616/1-B	Method Blank	Dissolved	Water	3005A	427616
LCS 580-427616/2-B	Lab Control Sample	Dissolved	Water	3005A	427616
LCSD 580-427616/3-B	Lab Control Sample Dup	Dissolved	Water	3005A	427616
580-127691-2 MS	MW-11_20230525	Dissolved	Water	3005A	427616
580-127691-2 MSD	MW-11_20230525	Dissolved	Water	3005A	427616
580-127691-2 DU	MW-11_20230525	Dissolved	Water	3005A	427616

Analysis Batch: 428116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-127691-2	MW-11_20230525	Dissolved	Water	6020B	427955
580-127691-3	MW-12_20230525	Dissolved	Water	6020B	427955
580-127691-4	GMW-1_20230525	Dissolved	Water	6020B	427955
MB 580-427616/1-B	Method Blank	Dissolved	Water	6020B	427955
LCS 580-427616/2-B	Lab Control Sample	Dissolved	Water	6020B	427955
LCSD 580-427616/3-B	Lab Control Sample Dup	Dissolved	Water	6020B	427955
580-127691-2 MS	MW-11_20230525	Dissolved	Water	6020B	427955
580-127691-2 MSD	MW-11_20230525	Dissolved	Water	6020B	427955
580-127691-2 DU	MW-11_20230525	Dissolved	Water	6020B	427955

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

Client Sample ID: MW-4_PDB_20230525

Lab Sample ID: 580-127691-1

Date Collected: 05/25/23 08:45

Matrix: Water

Date Received: 05/26/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	427445	JBT	EET SEA	05/31/23 15:05
Total/NA	Analysis	NWTPH-Gx		1	427447	JBT	EET SEA	05/31/23 15:05

Client Sample ID: MW-11_20230525

Lab Sample ID: 580-127691-2

Date Collected: 05/25/23 09:50

Matrix: Water

Date Received: 05/26/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	427445	JBT	EET SEA	05/31/23 15:53
Total/NA	Analysis	NWTPH-Gx		1	427447	JBT	EET SEA	05/31/23 15:53
Total/NA	Prep	3510C			427460	TGO	EET SEA	05/31/23 09:38
Total/NA	Analysis	NWTPH-Dx		1	427463	TL1	EET SEA	06/01/23 01:23
Dissolved	Filtration	FILTRATION			427616	TMH	EET SEA	06/01/23 11:49
Dissolved	Prep	3005A			427955	TMH	EET SEA	06/05/23 15:30
Dissolved	Analysis	6020B		5	428116	FCW	EET SEA	06/06/23 14:52
Total Recoverable	Prep	3005A			427404	TMH	EET SEA	05/30/23 16:58
Total Recoverable	Analysis	6020B		5	427607	FCW	EET SEA	05/31/23 13:59

Client Sample ID: MW-12_20230525

Lab Sample ID: 580-127691-3

Date Collected: 05/25/23 10:30

Matrix: Water

Date Received: 05/26/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	427445	JBT	EET SEA	05/31/23 16:17
Total/NA	Analysis	NWTPH-Gx		1	427447	JBT	EET SEA	05/31/23 16:17
Total/NA	Prep	3510C			427460	TGO	EET SEA	05/31/23 09:38
Total/NA	Analysis	NWTPH-Dx		1	427463	TL1	EET SEA	06/01/23 01:41
Dissolved	Filtration	FILTRATION			427616	TMH	EET SEA	06/01/23 11:49
Dissolved	Prep	3005A			427955	TMH	EET SEA	06/05/23 15:30
Dissolved	Analysis	6020B		5	428116	FCW	EET SEA	06/06/23 14:47
Total Recoverable	Prep	3005A			427404	TMH	EET SEA	05/30/23 16:58
Total Recoverable	Analysis	6020B		5	427607	FCW	EET SEA	05/31/23 14:02

Client Sample ID: GMW-1_20230525

Lab Sample ID: 580-127691-4

Date Collected: 05/25/23 00:00

Matrix: Water

Date Received: 05/26/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	427445	JBT	EET SEA	05/31/23 16:41
Total/NA	Analysis	NWTPH-Gx		1	427447	JBT	EET SEA	05/31/23 16:41
Total/NA	Prep	3510C			427460	TGO	EET SEA	05/31/23 09:38
Total/NA	Analysis	NWTPH-Dx		1	427463	TL1	EET SEA	06/01/23 02:00
Dissolved	Filtration	FILTRATION			427616	TMH	EET SEA	06/01/23 11:49
Dissolved	Prep	3005A			427955	TMH	EET SEA	06/05/23 15:30
Dissolved	Analysis	6020B		5	428116	FCW	EET SEA	06/06/23 14:49

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

Client Sample ID: GMW-1_20230525

Lab Sample ID: 580-127691-4

Date Collected: 05/25/23 00:00

Matrix: Water

Date Received: 05/26/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			427404	TMH	EET SEA	05/30/23 16:58
Total Recoverable	Analysis	6020B		5	427607	FCW	EET SEA	05/31/23 14:05

Client Sample ID: Trip Blank_20230525

Lab Sample ID: 580-127691-5

Date Collected: 05/25/23 00:00

Matrix: Water

Date Received: 05/26/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	427445	JBT	EET SEA	05/31/23 09:26
Total/NA	Analysis	NWTPH-Gx		1	427447	JBT	EET SEA	05/31/23 09:26

Client Sample ID: Field Blank_20230525

Lab Sample ID: 580-127691-6

Date Collected: 05/25/23 09:00

Matrix: Water

Date Received: 05/26/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	427445	JBT	EET SEA	05/31/23 09:50
Total/NA	Analysis	NWTPH-Gx		1	427447	JBT	EET SEA	05/31/23 09:50

Laboratory References:

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

Accreditation/Certification Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

Laboratory: Eurofins Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-23

- 1
- 2
- 3
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- 14
- 15
- 16

Method Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SEA
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	EET SEA
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	EET SEA
6020B	Metals (ICP/MS)	SW846	EET SEA
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SEA
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SEA
5030B	Purge and Trap	SW846	EET SEA
FILTRATION	Sample Filtration	None	EET SEA

Protocol References:

None = None

NWTPH = Northwest Total Petroleum Hydrocarbon

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

Laboratory References:

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

Sample Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-127691-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-127691-1	MW-4_PDB_20230525	Water	05/25/23 08:45	05/26/23 10:40
580-127691-2	MW-11_20230525	Water	05/25/23 09:50	05/26/23 10:40
580-127691-3	MW-12_20230525	Water	05/25/23 10:30	05/26/23 10:40
580-127691-4	GMW-1_20230525	Water	05/25/23 00:00	05/26/23 10:40
580-127691-5	Trip Blank_20230525	Water	05/25/23 00:00	05/26/23 10:40
580-127691-6	Field Blank_20230525	Water	05/25/23 09:00	05/26/23 10:40



Laboratory Management Program (LaMP) Chain of Custody Record
Soil, Sediment and Groundwater Samples

BP Site Node Path:

Former BP 11060

Req Due Date (mm/dd/yy): Standard TAT

Page 1 of 1
Rush TAT Yes No X

BP/RM Facility No:

Former BP Facility No. 11060

Lab Work Order Number:

Lab Name: Eurofins	BP/ARC Facility Address: 4580 Fauntleroy Way SW	Consultant/Contractor: Antea Group
Lab Address: 5755 8th Street East, Tacoma, WA 98424	City, State, ZIP Code: Seattle, WA	Consultant/Contractor Project No: WA - 11060 Groundwater Monitoring
Lab PM: Katie Grant	Lead Regulatory Agency: Washington State Department of Ecology	Address: 18378-B Redmond Way, Redmond, WA 98052
Lab Phone: 253-922-2310	California Global ID No.: NA	Consultant/Contractor PM: Lonnie Dent
Lab Shipping Acct:	Enfos Proposal No: WR1027162/00C87-0002	Phone: 303-807-3827 Email: lonnie.dent@anteagroup.us
Lab Bottle Order No:	Accounting Mode: Provision ☒ OOC-BU ☐ OOC-RM ☐	Send/Submit EDD to: lonnie.dent@anteagroup.us
Other Info: katie.grant@et.eurofinsus.com	Stage Commercial-Site Activities (70) Activity Contracts Management (116)	Invoice To: BP-RM ☐ BP/ARC ☒
BP/RM PM: Wade Melton		

Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Requested Analyses										Comments
										Analysis	BTEX by EPA 8260B	MTBE by EPA 8260B	NWTPH-Gx	NWTPH-Dx	Total Lead by EPA 6000/7000	Dissolved Lead by EPA 6000/7000				
MW-1				W				G			X	X	X	X	X	X				
MW-4				W				G			X	X	X	X	X	X				
MW-4_PDB	20230525	5/25/23	0845	W				G	6		X	X	X	X	X	X				
MW-5				W				G												
MW-11	20230525	5/25/23	0950	W				G	10		X	X	X	X	X	X				
MW-12	20230525	5/25/23	1030	W				G	10		X	X	X	X	X	X				
GMW-1	20230525	5/25/23		W				G			X	X	X	X	X	X				
Trip Blank	20230525	5/25/23	0000	W				G			X									



530-127691 Chain of Custody

Sampler's Name: Samantha Dine & Jesse Schewe	Relinquished By / Affiliation: Jesse Schewe / Antea Group	Date: 5/26/23	Time: 1040	Accepted By / Affiliation: Sydney Wynn	Date: 5/26/23	Time: 1040
Sampler's Company: Antea Group						
Ship Method: Courier	Ship Date: 5/26/23					
Shipment Tracking No:						

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Therm. ID: 1R9 Cor: 2.3 °C Unc: 2.6 °C LaMP Soil/H2O COC July 2018
Cooler Desc: BUB
Packing: BUB
FedEx: ☐
Cust. Seal: Yes ☒ No ☐
Blue Ice, Wet, Dry, None ☒
Other: ☐



Laboratory Management Program (LaMP) Chain of Custody Record
Soil, Sediment and Groundwater Samples

Page 2 of 2

BP Site Node Path:

Former BP 11060

Req Due Date (mm/dd/yy):

Standard TAT

Rush TAT Yes

No X

BP/RM Facility No:

Former BP Facility No. 11060

Lab Work Order Number:

Lab Name: Eurofins		BP/ARC Facility Address: 4580 Fauntleroy Way SW		Consultant/Contractor: Antea Group									
Lab Address: 5755 8th Street East, Tacoma, WA 98424		City, State, ZIP Code: Seattle, WA		Consultant/Contractor Project No: WA - 11060 Groundwater Monitoring									
Lab PM: Katie Grant		Lead Regulatory Agency: Washington State Department of Ecology		Address: 18378-B Redmond Way, Redmond, WA									
Lab Phone: 253-922-2310		California Global ID No.: NA		Consultant/Contractor PM: Lonnie Dent									
Lab Shipping Acct:		Enfos Proposal No: WR1027162/00C87-0002		Phone: 303-807-3627 Email: lonnie.dent@anteagroup.us									
Lab Bottle Order No:		Accounting Mode: Provision <u>X</u> OOC-BU <u> </u> OOC-RM <u> </u>		Send/Submit EDD to: lonnie.dent@anteagroup.us									
Other Info: katie.grant@et.eurofinsus.com		Stage Commercial-Site Activities (70) Activity Contracts Management (116)		Invoice To: BP-RM <u> </u> BP/ARC <u>X</u>									
BP/RM PM: Wade Melton		Sample Details		Requested Analyses									
PM Phone: 360--594-7978				Report Type & QC Level									
PM Email: wade.melton@bp.com				Limited (Standard) Package <u> </u>									
				Limited Plus Package <u> </u>									
				Full Package <u> </u>									
Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Analysis	Field	Pres	Comments
	Field Blank 210555	5/25/23	0900						3	STEX by EPA 8260B	X		
										MTBE by EPA 8260B	X		
										NWTPH-Gx			
										NWTPH-Dx			
										Pb-T by EPA 6020			
										Pb-D by EPA 6020			
										Total Lead by EPA 6000/7000			
										Dissolved Lead by EPA 6000/7000			
Sampler's Name: Samantha Ann B. Jesse Schewe		Relinquished By / Affiliation		Date	Time	Accepted By / Affiliation		Date	Time				
Sampler's Company: Antea Group		Jesse Schewe		5/26/23	1040	Sandra [unclear]		5/26/23	1040				
Ship Method: Courier		Ship Date: 5/26/23											
Shipment Tracking No:													
Special Instructions:													
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: <u> </u>													

Therm. ID: 109 Cor: 2.3 °C Unc: 2.0 °C
Cooler Desc: BB
Packing: Sub
Cust. Seal: Yes No X
Blue Ice: Wet, Dry, None
FedEx:
UPS:
Lab Cour:
Other:

BP LaMP Soil/H2O COC July 2018

Login Sample Receipt Checklist

Client: Antea USA Inc.

Job Number: 580-127691-1

Login Number: 127691

List Source: Eurofins Seattle

List Number: 1

Creator: Groves, Elizabeth

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

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-127691-1

SDG No.: _____

Batch Number: 427445 Batch Start Date: 05/31/23 05:23 Batch Analyst: Tucker, Jonathon BBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00028	VOAMasterMix 00103	VOASTDGASweek 00143
MB 580-427445/6		8260D		5 mL	5 mL		1 uL		
LCS 580-427445/7		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
LCSD 580-427445/8		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
580-127691-A-5	Trip Blank 20230525	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-127691-B-6	Field Blank 20230525	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-127691-C-1	MW-4_PDB_20230525	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-127691-B-2	MW-11_20230525	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-127691-A-3	MW-12_20230525	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-127691-A-4	GMW-1_20230525	8260D	T	5 mL	5 mL	<2 SU	1 uL		

Batch Notes

pH Indicator ID	HC203864
Vial Lot Number	0126501H

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 1

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-127691-1

SDG No.: _____

Batch Number: 427447 Batch Start Date: 05/31/23 05:23 Batch Analyst: Tucker, Jonathon BBatch Method: NWTPH-Gx Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00028	GRO_LCS 00087	
MB 580-427447/6		NWTPH-Gx		5 mL	5 mL		1 uL		
LCS 580-427447/9		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
LCSD 580-427447/10		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
580-127691-A-5	Trip Blank 20230525	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-127691-B-6	Field Blank 20230525	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-127691-C-1	MW-4_PDB_20230525	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-127691-B-2	MW-11_20230525	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-127691-A-3	MW-12_20230525	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-127691-A-4	GMW-1_20230525	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		

Batch Notes	
pH Indicator ID	HC203864
Vial Lot Number	0126501H

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Gx

Page 1 of 1

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-127691-1

SDG No.: _____

Batch Number: 427460Batch Start Date: 05/31/23 09:37Batch Analyst: Oseen, Taryn GBatch Method: 3510CBatch End Date: 05/31/23 13:54

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-427460/1		3510C, NWTPH-Dx				250 mL	2 mL	7 SU	2 SU
LCS 580-427460/2		3510C, NWTPH-Dx				250 mL	2 mL	7 SU	2 SU
LCSD 580-427460/3		3510C, NWTPH-Dx				250 mL	2 mL	7 SU	2 SU
580-127691-G-2	MW-11_20230525	3510C, NWTPH-Dx	T	00412.15 g	00167.16 g	245 mL	2 mL	2 SU	n/a SU
580-127691-H-3	MW-12_20230525	3510C, NWTPH-Dx	T	00409.92 g	00168.20 g	241.7 mL	2 mL	2 SU	n/a SU
580-127691-G-4	GMW-1_20230525	3510C, NWTPH-Dx	T	00404.51 g	00168.11 g	236.4 mL	2 mL	2 SU	n/a SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	TPH_Water_Spk 00038	TPH_WaterSurr 00100			
MB 580-427460/1		3510C, NWTPH-Dx		n/a SU		100 uL			
LCS 580-427460/2		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
LCSD 580-427460/3		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
580-127691-G-2	MW-11_20230525	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-127691-H-3	MW-12_20230525	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-127691-G-4	GMW-1_20230525	3510C, NWTPH-Dx	T	n/a SU		100 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

Page 1 of 2

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-127691-1

SDG No.: _____

Batch Number: 427460 Batch Start Date: 05/31/23 09:37 Batch Analyst: Oseen, Taryn GBatch Method: 3510C Batch End Date: 05/31/23 13:54

Batch Notes	
Method/Fraction	3510C_LVI/NWTPH_Dx
Balance ID	SEA225
pH Indicator ID	10BDH3421/6105009/6204001
Pipette/Syringe/Dispenser ID	MP5/E4
Analyst ID - Extraction	SL/TO/JW/AA
Reagent Water ID	DI
Analyst ID - Spike Analyst	AA
Analyst ID - Spike Witness Analyst	JW
Sufficient Volume for Batch QC	no
Acid Used for pH Adjustment ID	224621
Prep Solvent ID	23C0962008
Prep Solvent Volume Used	100 mL
Filter ID	09-790-12F
Na2SO4 ID	baked Na2SO4_00462
Analyst ID - Concentration	SL
Equipment ID - Concentration 1	Steambath 1
Thermometer ID - Concentration 1	61013-040-1
Concentration 1 Uncorrected Temperature	70.0-75.0 Degrees C
Concentration 1 Corrected Temperature	69.4-74.4 Degrees C
Equipment ID - Concentration 2	Turbovap 6
Thermometer ID - Concentration 2	DIGITAL READOUT
Concentration 2 Uncorrected Temperature	20.0 Degrees C
Concentration 2 Corrected Temperature	19.8 Degrees C
Vial Lot Number	13-09-1335
Silica Gel ID	180802
Batch Comment	Vialed by:AA

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

Page 2 of 2

METALS BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-127691-1

SDG No.: _____

Batch Number: 427404Batch Start Date: 05/30/23 16:58Batch Analyst: Hua, Tammy MBatch Method: 3005ABatch End Date: 05/30/23 22:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00025	ICP CAL 2 00022	MET Spike 3C 00044	
580-127660-R-1		3005A, 6020B	D	50 mL	50 mL				
580-127660-R-1 DU		3005A, 6020B	D	50 mL	50 mL				
580-127660-R-1 MS		3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-127660-R-1 MSD		3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-127691-J-2	MW-11_20230525	3005A, 6020B	R	50 mL	50 mL				
580-127691-J-3	MW-12_20230525	3005A, 6020B	R	50 mL	50 mL				
580-127691-J-4	GMW-1_20230525	3005A, 6020B	R	50 mL	50 mL				
MB 580-427404/22		3005A, 6020B		50 mL	50 mL				
LCS 580-427404/23		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-427404/24		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	

Batch Notes

Digestion Tube/Cup ID	3484657
Analyst ID - Spike Analyst	TH
Analyst ID - Spike Witness Analyst	JLS
Sufficient Volume for Batch QC	yes
Hydrochloric Acid ID	3383917
Nitric Acid ID	3468142
Digestion Unit ID	BLOCK B
Thermometer ID	N01205
Thermometer Location ID	B34
Temperature - Uncorrected - Start	90.5 Degrees C
Temperature - Corrected - Start	90.4 Degrees C
Digestion Start Time	05/30/2023 18:10
Digestion End Time	05/30/2023 22:10
Temperature - Uncorrected - End	90.5 Degrees C
Temperature - Corrected - End	90.4 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

Page 1 of 2

METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-127691-1

SDG No.: _____

Batch Number: 427404 Batch Start Date: 05/30/23 16:58 Batch Analyst: Hua, Tammy M

Batch Method: 3005A Batch End Date: 05/30/23 22:10

Basis	Basis Description
R	Total Recoverable
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

Page 2 of 2

METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-127691-1

SDG No.: _____

Batch Number: 427616 Batch Start Date: 06/01/23 11:49 Batch Analyst: Hua, Tammy MBatch Method: FILTRATION Batch End Date: 06/01/23 12:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
MB 580-427616/1		FILTRATION, 3005A, 6020B		250 mL	250 mL				
LCS 580-427616/2		FILTRATION, 3005A, 6020B		250 mL	250 mL				
LCSD 580-427616/3		FILTRATION, 3005A, 6020B		250 mL	250 mL				
580-127691-I-2	MW-11_20230525	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-127691-I-3	MW-12_20230525	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-127691-I-4	GMW-1_20230525	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				

Batch Notes	
Filter ID	1372242
Nitric Acid ID	3468142

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

Page 1 of 1

METALS BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-127691-1

SDG No.: _____

Batch Number: 427955Batch Start Date: 06/05/23 15:30Batch Analyst: Hua, Tammy MBatch Method: 3005ABatch End Date: 06/05/23 21:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00025	ICP CAL 2 00022	MET Spike 3C 00044	
580-127691-I-2-A	MW-11_20230525	3005A, 6020B	D	50 mL	50 mL				
580-127691-I-2-A DU	MW-11_20230525	3005A, 6020B	D	50 mL	50 mL				
580-127691-I-2-A MS	MW-11_20230525	3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-127691-I-2-A MSD	MW-11_20230525	3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-127691-I-3-A	MW-12_20230525	3005A, 6020B	D	50 mL	50 mL				
580-127691-I-4-A	GMW-1_20230525	3005A, 6020B	D	50 mL	50 mL				
MB 580-427616/1-A		3005A, 6020B		50 mL	50 mL				
LCS 580-427616/2-A		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-427616/3-A		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	

Batch Notes

First Start time	6-5-2023 @ 1750
First End time	6-5-2023 @ 2150
Lot # of hydrochloric acid	3383916
Lot # of Nitric Acid	3468139
Uncorrected Temperature	91.0 Celsius
Oven, Bath or Block Temperature 1	90.6
Uncorrected Temperature 2	91.0 Celsius
Oven, Bath or Block Temperature 2	90.6
Hot Block ID	BLOCK A
Digestion Tube/Cup ID	3483656
Thermometer Location ID	A38
Thermometer ID	1108438
Pipette ID	metals prep 2
Analyst ID - Spike Witness Analyst	JLS - TH

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

Page 1 of 2

METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-127691-1

SDG No.: _____

Batch Number: 427955 Batch Start Date: 06/05/23 15:30 Batch Analyst: Hua, Tammy M

Batch Method: 3005A Batch End Date: 06/05/23 21:50

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

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