Remediation Management Services Company

4 Centerpointe Drive, Suite 200
La Palma, CA 90623
Room LPR 4-222
Office: (360) 594-7978
wade.melton@bp.com

February 14, 2022

Washington Department of Ecology
Northwest Regional Office
Attn: VCP Coordinator
15700 Dayton Avenue North
Shoreline, WA 98133

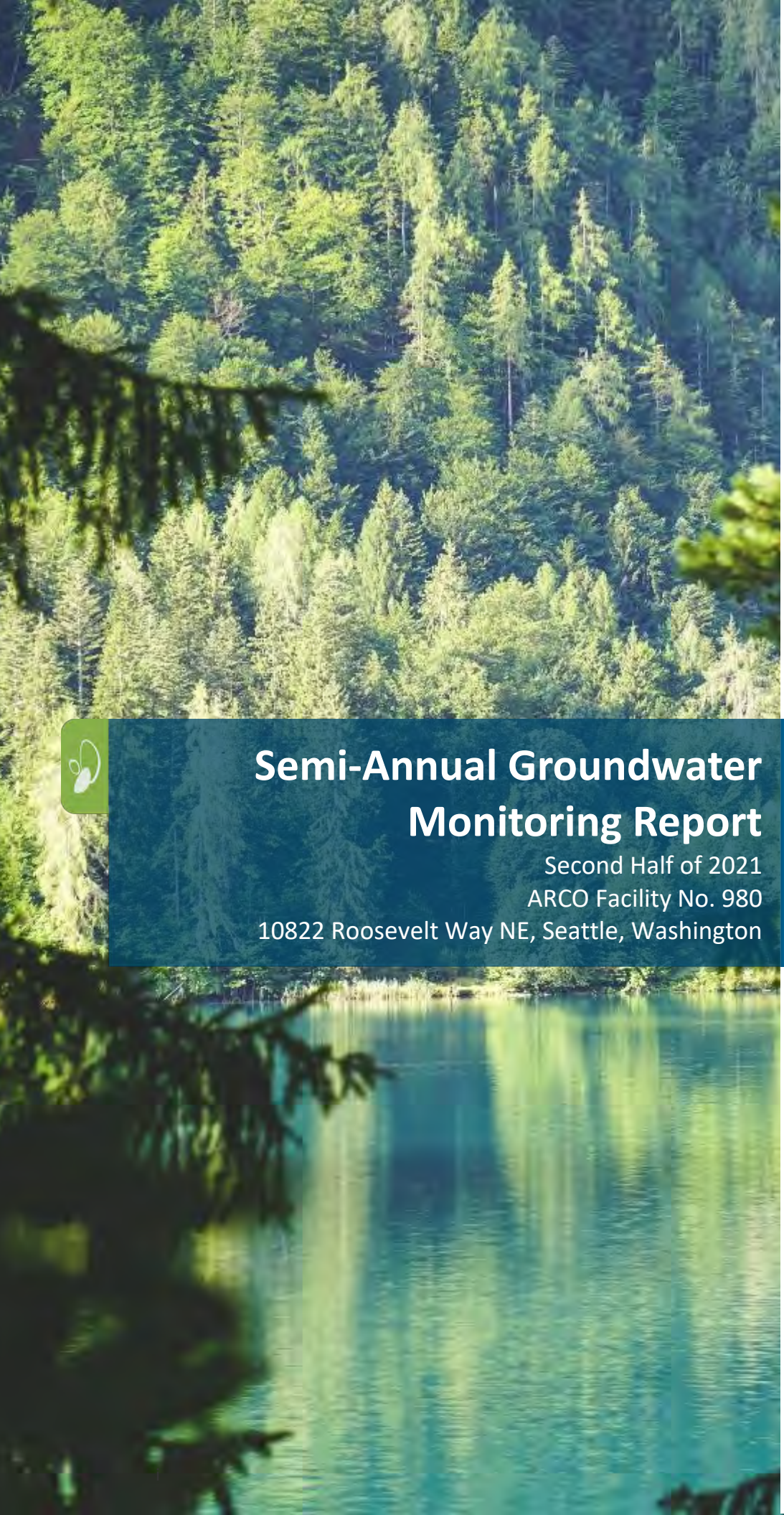
Dear VCP Coordinator:

Please find the enclosed Semi-Annual Groundwater Monitoring Report - Second Half of 2021, that documents the results at ARCO Facility No. 980 located at 10822 Roosevelt Way NE, Seattle, Washington.

Sincerely yours,

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

cc: File, Antea Group



Semi-Annual Groundwater Monitoring Report

Second Half of 2021
ARCO Facility No. 980
10822 Roosevelt Way NE, 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
February 14, 2022
Project # WA – 00980 Seattle

us.anteagroup.com

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Semi-Annual Groundwater Monitoring Report

Second Half of 2021
ARCO Facility No. 980
10822 Roosevelt Way NE, Seattle, Washington

ARCO Facility No.	980
Address	10822 Roosevelt Way NE, Seattle, Washington
Atlantic Richfield Project Manager	Wade Melton, +1 360 594-7978
Consulting Co. /Contact Person	Antea Group / Megan Richard, +1 206 854 0399
Consultant Project Number	WA – 00980 Seattle
Ecology Facility Site ID No.	Washington State Department of Ecology FSID # 68996432

WORK PERFORMED DURING SECOND HALF OF 2021

- Antea Group conducted a subsurface investigation on September 9 and September 10, 2021. Results of the investigation were presented in a separate report.
- Antea Group conducted semi-annual groundwater sampling on September 28 and November 5, 2021.
- Antea Group conducted baseline groundwater monitoring and sampling on November 8, 2021.
- Antea Group conducted a PetroFix™ injection event on November 9 and November 10, 2021. Target well and total volumes injected are summarized in the table below.

Well ID	Total Volume Injected (Gallons)
IW-1	185
IW-2	68
IW-3	260
IW-4	376
MW-13	882
MW-15	255

- Antea Group conducted performance sampling on December 13, 2021.
- Antea Group prepared this semi-annual groundwater monitoring report.

WORK SCHEDULED FOR FIRST HALF OF 2022

- Antea Group will conduct semi-annual groundwater monitoring and sampling.
- Antea Group will conduct quarterly performance monitoring and sampling on a limited well network.
- Antea Group will prepare a semi-annual groundwater monitoring report.

Current Phase of Project	Monitoring	
Frequency of Groundwater Sampling and Monitoring	Quarterly	
Are LPH Present On-Site	No	
LPH Recovered this Reporting Period	None	
Cumulative LPH Recovered to Date	Less than one gallon	
Amount of Soil Removed to Date	46.27 yd^3	
Current Remediation Techniques	Post PetroFix™ Injection Monitoring	
Approximate Depth to Groundwater	September 28, 2021	1.87 – 18.47 ft. bgs.
Groundwater Gradient	September 28, 2021	South-Southeast 0.1136 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

Samantha Hinze

Date: February 14, 2022

Samantha Hinze
Staff Professional

Reviewed by:

Date: February 14, 2022

Megan Richard, LG
Senior Project Manager

cc: VCP Coordinator, Department of Ecology, Northwest Regional Office (Hardcopy, Electronic Copy)
Mr. Michael Dahlstrom, Owner - Caribbean Apartments (Electronic Copy)
Mr. Joshua Pope, Montgomery Purdue Blankinship & Austin, PPLC (Electronic Copy)
Mr. Enjay Santos and Ms. Erica Knauf Santos, Knauf Santos Law (Electronic Copy)
Mr. Wade Melton, Remediation Management Service Company (Electronic Copy - RMO Upload)
File, Antea Group

CONTACT INFORMATION

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International +1 651 639 9449

Tables

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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	10/5/1994	262.35	2.31	NP	--	260.04	--
MW-1	2/15/1995	262.35	1.39	NP	--	260.96	--
MW-1	4/10/1995	262.35	1.11	NP	--	261.24	--
MW-1	7/20/1995	262.35	1.78	NP	--	260.57	--
MW-1	10/25/1995	262.35	1.53	NP	--	260.82	--
MW-1	1/23/1996	262.35	0.79	NP	--	261.56	--
MW-1	4/17/1996	262.35	1.13	NP	--	261.22	--
MW-1	7/8/1996	262.35	1.30	NP	--	261.05	--
MW-1	10/10/1996	262.35	1.67	NP	--	260.68	--
MW-1	3/11/1997	262.35	0.82	NP	--	261.53	--
MW-1	5/29/1997	262.35	0.99	NP	--	261.36	--
MW-1	8/5/1997	262.35	0.31	NP	--	262.04	--
MW-1	10/23/1997	262.35	0.32	NP	--	262.03	--
MW-1	3/11/1998	262.35	0.81	NP	--	261.54	--
MW-1	6/30/1998	262.35	1.26	NP	--	261.09	--
MW-1	9/25/1998	262.35	1.73	NP	--	260.62	--
MW-1	12/29/1998	262.35	0.84	NP	--	261.51	--
MW-1	3/9/1999	262.35	0.60	NP	--	261.75	--
MW-1	6/2/1999	262.35	1.04	NP	--	261.31	--
MW-1	9/27/1999	262.35	1.71	NP	--	260.64	--
MW-1	12/20/1999	262.35	1.60	NP	--	260.75	--
MW-1	3/16/2000	262.35	1.40	NP	--	260.95	--
MW-1	6/30/2000	262.35	1.50	NP	--	260.85	--
MW-1	9/27/2000	262.35	1.50	NP	--	260.85	--
MW-1	11/10/2000	262.35	1.43	NP	--	260.92	--
MW-1	3/19/2001	262.35	1.45	NP	--	260.90	--
MW-1	6/27/2001	262.35	1.75	NP	--	260.60	--
MW-1	9/26/2001	262.35	2.15	NP	--	260.20	--
MW-1	12/3/2001	262.35	1.35	NP	--	261.00	--
MW-1	6/6/2002	262.35	1.54	NP	--	260.81	--
MW-1	6/26/2003	262.35	1.62	NP	--	260.73	--
MW-1	12/9/2003	262.35	1.37	NP	--	260.98	--
MW-1	4/7/2004	262.35	1.25	NP	--	261.10	--
MW-1	11/16/2004	262.35	1.82	NP	--	260.53	--
MW-1	3/29/2005	262.35	1.00	NP	--	261.35	--
MW-1	6/22/2005	262.35	1.40	NP	--	260.95	--
MW-1	9/12/2005	262.35	1.95	NP	--	260.40	--
MW-1	12/6/2005	262.35	1.64	NP	--	260.71	--
MW-1	6/5/2006	262.35	1.77	NP	--	260.58	--
MW-1	9/24/2007	262.35	2.98	NP	--	259.37	--
MW-1	12/31/2007	262.35	--	--	--	--	WI
MW-1	1/30/2008	262.35	2.83	NP	--	259.52	--
MW-1	4/3/2008	262.35	3.13	NP	--	259.22	--
MW-1	7/2/2008	262.35	3.88	NP	--	258.47	--
MW-1	10/3/2008	262.35	3.53	NP	--	258.82	--
MW-1	1/5/2009	262.35	2.87	NP	--	259.48	--
MW-1	4/7/2009	262.35	3.08	NP	--	259.27	--
MW-1	7/8/2009	262.35	2.89	NP	--	259.46	--
MW-1	10/6/2009	262.35	3.03	NP	--	259.32	--
MW-1	1/5/2010	262.35	2.06	NP	--	260.29	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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	5/25/2010	262.35	2.20	NP	--	260.15	--
MW-1	8/19/2010	262.35	2.59	NP	--	259.76	--
MW-1	12/7/2010	262.35	2.18	NP	--	260.17	--
MW-1	1/26/2011	262.35	1.69	NP	--	260.66	--
MW-1	6/16/2011	262.35	1.97	NP	--	260.38	--
MW-1	9/22/2011	262.35	3.04	NP	--	259.31	--
MW-1	12/6/2011	262.35	3.40	NP	--	258.95	--
MW-1	3/8/2012	262.35	2.05	NP	--	260.30	--
MW-1	6/19/2012	262.35	2.04	NP	--	260.31	--
MW-1	9/21/2012	262.35	2.50	NP	--	259.85	--
MW-1	12/11/2012	262.35	1.57	NP	--	260.78	--
MW-1	6/25/2013	262.35	1.88	NP	--	260.47	--
MW-1	9/25/2013	262.35	2.14	NP	--	260.21	--
MW-1	11/14/2013	262.35	2.09	NP	--	260.26	--
MW-1	2/12/2014	262.35	1.62	NP	--	260.73	--
MW-1	4/1/2014	262.35	1.22	NP	--	261.13	--
MW-1	7/9/2014	262.35	1.90	NP	--	260.45	--
MW-1	10/20/2014	262.35	2.13	NP	--	260.22	--
MW-1	1/19/2015	262.35	1.45	NP	--	260.90	--
MW-1	12/14/2015	262.35	1.34	NP	--	261.01	--
MW-1	3/10/2016	262.35	0.74	NP	--	261.61	--
MW-1	3/9/2020	262.35	1.25	NP	--	261.10	--
MW-1	9/28/2020	262.35	1.89	NP	--	260.46	--
MW-1	3/23/2021	262.35	1.32	NP	--	261.03	--
MW-1	9/28/2021	262.35	1.87	NP	--	260.48	--
MW-2	10/5/1994	261.52	10.09	NP	--	251.43	--
MW-2	2/15/1995	261.52	9.05	NP	--	252.47	--
MW-2	4/11/1995	261.52	9.05	NP	--	252.47	--
MW-2	7/20/1995	261.52	9.70	NP	--	251.82	--
MW-2	10/25/1995	261.52	9.33	NP	--	252.19	--
MW-2	1/23/1996	261.52	8.22	NP	--	253.30	--
MW-2	4/17/1996	261.52	9.20	NP	--	252.32	--
MW-2	7/8/1996	261.52	9.45	NP	--	252.07	--
MW-2	10/10/1996	261.52	9.53	NP	--	251.99	--
MW-2	3/11/1997	261.52	8.31	NP	--	253.21	--
MW-2	5/29/1997	261.52	5.54	NP	--	255.98	--
MW-2	8/5/1997	261.52	9.40	NP	--	252.12	--
MW-2	10/23/1997	261.52	9.06	NP	--	252.46	--
MW-2	3/11/1998	261.52	12.71	NP	--	248.81	--
MW-2	6/30/1998	261.52	10.17	NP	--	251.35	--
MW-2	9/25/1998	261.52	10.14	NP	--	251.38	--
MW-2	3/9/1999	261.52	11.12	NP	--	250.40	--
MW-2	6/2/1999	261.52	9.66	NP	--	251.86	--
MW-2	9/27/1999	261.52	9.85	NP	--	251.67	--
MW-2	12/20/1999	261.52	8.85	NP	--	252.67	--
MW-2	3/16/2000	261.52	9.53	NP	--	251.99	--
MW-2	6/30/2000	261.52	9.74	NP	--	251.78	--
MW-2	9/27/2000	261.52	9.74	NP	--	251.78	--
MW-2	11/10/2000	261.52	8.80	NP	--	252.72	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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	3/19/2001	261.52	8.69	NP	--	252.83	--
MW-2	6/27/2001	261.52	9.32	NP	--	252.20	--
MW-2	9/26/2001	261.52	10.20	NP	--	251.32	--
MW-2	12/3/2001	261.52	9.00	NP	--	252.52	--
MW-2	6/6/2002	261.52	9.65	NP	--	251.87	--
MW-2	6/26/2003	261.52	9.68	NP	--	251.84	--
MW-2	12/9/2003	261.52	8.93	NP	--	252.59	--
MW-2	4/7/2004	261.52	8.21	NP	--	253.31	--
MW-2	11/16/2004	261.52	8.36	NP	--	253.16	--
MW-2	3/29/2005	261.52	7.35	NP	--	254.17	--
MW-2	6/22/2005	261.52	8.10	NP	--	253.42	--
MW-2	9/12/2005	261.52	9.01	NP	--	252.51	--
MW-2	12/6/2005	261.52	7.56	NP	--	253.96	--
MW-2	6/5/2006	261.52	7.66	NP	--	253.86	--
MW-2	9/29/2006	261.52	16.28	NP	--	245.24	--
MW-2	12/19/2006	261.52	8.05	NP	--	253.47	--
MW-2	9/24/2007	261.52	10.04	NP	--	251.48	--
MW-2	12/31/2007	261.52	9.01	NP	--	252.51	--
MW-2	1/30/2008	261.52	8.97	NP	--	252.55	--
MW-2	4/3/2008	261.52	15.90	NP	--	245.62	--
MW-2	7/2/2008	261.52	14.90	NP	--	246.62	--
MW-2	10/3/2008	261.52	15.56	NP	--	245.96	--
MW-2	1/5/2009	261.52	13.52	NP	--	248.00	--
MW-2	4/8/2009	261.52	15.38	NP	--	246.14	--
MW-2	7/8/2009	261.52	10.52	NP	--	251.00	--
MW-2	10/6/2009	261.52	10.60	NP	--	250.92	--
MW-2	1/5/2010	261.52	9.65	NP	--	251.87	--
MW-2	5/25/2010	261.52	9.89	NP	--	251.63	--
MW-2	8/19/2010	261.52	10.16	NP	--	251.36	--
MW-2	12/7/2010	261.52	9.68	NP	--	251.84	--
MW-2	1/26/2011	261.52	9.26	NP	--	252.26	--
MW-2	6/16/2011	261.52	9.59	NP	--	251.93	--
MW-2	9/22/2011	261.52	14.06	NP	--	247.46	--
MW-2	12/6/2011	261.52	17.30	NP	--	244.22	--
MW-2	3/8/2012	261.52	10.50	NP	--	251.02	--
MW-2	6/19/2012	261.52	9.72	NP	--	251.80	--
MW-2	9/21/2012	261.52	10.09	NP	--	251.43	--
MW-2	12/11/2012	261.52	8.86	NP	--	252.66	--
MW-2	6/25/2013	261.52	9.50	NP	--	252.02	--
MW-2	9/25/2013	261.52	9.69	NP	--	251.83	--
MW-2	11/14/2013	261.52	9.34	NP	--	252.18	--
MW-2	2/12/2014	261.52	8.92	NP	--	252.60	--
MW-2	4/2/2014	261.52	8.51	NP	--	253.01	--
MW-2	7/10/2014	261.52	9.42	NP	--	252.10	--
MW-2	10/21/2014	261.52	9.46	NP	--	252.06	--
MW-2	1/20/2015	261.52	8.75	NP	--	252.77	--
MW-2	12/14/2015	261.52	8.34	NP	--	253.18	--
MW-2	3/10/2016	261.52	7.81	NP	--	253.71	--
MW-2	8/29/2016	261.52	9.45	NP	--	252.07	--
MW-2	11/21/2016	261.52	8.30	NP	--	253.22	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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	2/15/2017	261.52	7.58	NP	--	253.94	--
MW-2	5/26/2017	261.52	--	--	--	--	WI
MW-2	10/17/2017	261.52	9.19	NP	--	252.33	--
MW-2	2/8/2018	261.52	7.73	NP	--	253.79	--
MW-2	9/11/2018	261.52	9.11	NP	--	252.41	--
MW-2	11/15/2018	261.52	8.93	NP	--	252.59	--
MW-2	1/29/2019	261.52	8.60	NP	--	252.92	--
MW-2	9/26/2019	261.52	9.23	NP	--	252.29	--
MW-2	3/9/2020	261.52	8.55	NP	--	252.97	--
MW-2	9/28/2020	261.52	9.25	NP	--	252.27	--
MW-2	3/23/2021	261.52	8.27	NP	--	253.25	--
MW-2	9/28/2021	261.52	9.09	NP	--	252.43	--
MW-3	10/5/1994	261.47	10.10	NP	--	251.37	--
MW-3	2/15/1995	261.47	8.83	NP	--	252.64	--
MW-3	4/10/1995	261.47	8.90	NP	--	252.57	--
MW-3	7/20/1995	261.47	9.65	NP	--	251.82	--
MW-3	10/25/1995	261.47	9.27	NP	--	252.20	--
MW-3	1/23/1996	261.47	8.12	NP	--	253.35	--
MW-3	4/17/1996	261.47	9.17	NP	--	252.30	--
MW-3	7/8/1996	261.47	9.21	NP	--	252.26	--
MW-3	10/10/1996	261.47	9.60	NP	--	251.87	--
MW-3	3/11/1997	261.47	8.21	NP	--	253.26	--
MW-3	5/29/1997	261.47	8.13	NP	--	253.34	--
MW-3	8/5/1997	261.47	8.13	NP	--	253.34	--
MW-3	10/23/1997	261.47	11.31	NP	--	250.16	--
MW-3	3/11/1998	261.47	9.57	NP	--	251.90	--
MW-3	6/30/1998	261.47	9.82	NP	--	251.65	--
MW-3	9/25/1998	261.47	10.14	NP	--	251.33	--
MW-3	12/29/1998	261.47	9.15	NP	--	252.32	--
MW-3	3/9/1999	261.47	9.50	NP	--	251.97	--
MW-3	6/2/1999	261.47	9.41	NP	--	252.06	--
MW-3	9/27/1999	261.47	9.43	NP	--	252.04	--
MW-3	12/20/1999	261.47	8.20	NP	--	253.27	--
MW-3	3/16/2000	261.47	9.30	NP	--	252.17	--
MW-3	6/30/2000	261.47	9.66	NP	--	251.81	--
MW-3	9/27/2000	261.47	9.78	NP	--	251.69	--
MW-3	11/10/2000	261.47	8.88	NP	--	252.59	--
MW-3	3/19/2001	261.47	8.90	NP	--	252.57	--
MW-3	6/27/2001	261.47	9.62	NP	--	251.85	--
MW-3	9/26/2001	261.47	10.28	NP	--	251.19	--
MW-3	12/3/2001	261.47	8.10	NP	--	253.37	--
MW-3	6/6/2002	261.47	9.70	NP	--	251.77	--
MW-3	6/26/2003	261.47	9.65	NP	--	251.82	--
MW-3	12/9/2003	261.47	8.87	NP	--	252.60	--
MW-3	4/7/2004	261.47	8.27	NP	--	253.20	--
MW-3	11/16/2004	261.47	8.40	NP	--	253.07	--
MW-3	3/29/2005	261.47	7.64	NP	--	253.83	--
MW-3	6/22/2005	261.47	8.67	NP	--	252.80	--
MW-3	9/12/2005	261.47	9.85	NP	--	251.62	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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	12/6/2005	261.47	7.83	NP	--	253.64	--
MW-3	6/5/2006	261.47	7.76	NP	--	253.71	--
MW-3	9/24/2007	261.47	10.20	NP	--	251.27	--
MW-3	12/31/2007	261.47	--	--	--	--	WI
MW-3	1/30/2008	261.47	8.73	NP	--	252.74	--
MW-3	4/3/2008	261.47	15.05	NP	--	246.42	--
MW-3	7/2/2008	261.47	14.86	NP	--	246.61	--
MW-3	10/3/2008	261.47	15.07	NP	--	246.40	--
MW-3	1/5/2009	261.47	12.74	NP	--	248.73	--
MW-3	4/7/2009	261.47	15.33	NP	--	246.14	--
MW-3	7/8/2009	261.47	10.41	NP	--	251.06	--
MW-3	10/6/2009	261.47	10.56	NP	--	250.91	--
MW-3	1/5/2010	261.47	9.48	NP	--	251.99	--
MW-3	5/25/2010	261.47	9.70	NP	--	251.77	--
MW-3	8/19/2010	261.47	10.15	NP	--	251.32	--
MW-3	12/7/2010	261.47	9.51	NP	--	251.96	--
MW-3	1/26/2011	261.47	8.80	NP	--	252.67	--
MW-3	6/16/2011	261.47	9.50	NP	--	251.97	--
MW-3	9/22/2011	261.47	14.25	NP	--	247.22	--
MW-3	3/8/2012	261.47	10.48	NP	--	250.99	--
MW-3	6/19/2012	261.47	9.54	NP	--	251.93	--
MW-3	9/21/2012	261.47	10.22	NP	--	251.25	--
MW-3	12/11/2012	261.47	8.35	NP	--	253.12	--
MW-3	6/25/2013	261.47	9.45	NP	--	252.02	--
MW-3	9/25/2013	261.47	9.78	NP	--	251.69	--
MW-3	11/14/2013	261.47	9.33	NP	--	252.14	--
MW-3	2/12/2014	261.47	8.83	NP	--	252.64	--
MW-3	4/2/2014	261.47	8.39	NP	--	253.08	--
MW-3	7/9/2014	261.47	9.53	NP	--	251.94	--
MW-3	10/20/2014	261.47	9.65	NP	--	251.82	--
MW-3	1/19/2015	261.47	8.64	NP	--	252.83	--
MW-3	3/9/2020	261.47	8.50	NP	--	252.97	--
MW-3	9/28/2020	261.47	9.40	NP	--	252.07	--
MW-3	3/23/2021	261.47	3.08	NP	--	258.39	--
MW-3	9/28/2021	261.47	9.69	NP	--	251.78	--
MW-4	10/5/1994	--	19.69	19.50	0.19	--	--
MW-4	2/15/1995	--	18.60	14.89	3.71	--	--
MW-4	4/10/1995	--	16.90	16.53	0.37	--	--
MW-4	10/25/1995	--	18.24	NP	--	--	--
MW-4	1/23/1996	--	15.37	NP	--	--	--
MW-4	4/17/1996	--	16.80	NP	--	--	--
MW-4	7/8/1996	--	15.29	NP	--	--	--
MW-4	10/10/1996	--	18.55	18.53	0.02	--	--
MW-4	3/11/1997	--	15.59	NP	--	--	--
MW-4	5/29/1997	--	15.65	14.93	0.72	--	--
MW-4	8/5/1997	--	16.39	15.91	0.48	--	--
MW-4	10/23/1997	--	19.72	19.70	0.02	--	--
MW-4	3/11/1998	--	14.74	NP	--	--	--
MW-4	6/30/1998	--	17.57	NP	--	--	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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	9/25/1998	--	17.80	NP	--	--	--
MW-4	12/29/1998	--	15.73	NP	--	--	--
MW-4	3/9/1999	--	14.70	NP	--	--	--
MW-4	6/2/1999	--	16.21	NP	--	--	--
MW-4	9/27/1999	--	18.58	NP	--	--	--
MW-4	12/20/1999	--	15.40	NP	--	--	--
MW-4	3/16/2000	--	15.85	NP	--	--	--
MW-4	6/30/2000	--	17.65	NP	--	--	--
MW-4	9/27/2000	--	18.25	NP	--	--	--
MW-4	11/10/2000	--	17.36	17.35	0.01	--	--
MW-4	3/19/2001	--	17.39	NP	--	--	--
MW-4	6/27/2001	--	17.83	NP	--	--	--
MW-4	9/26/2001	--	18.27	NP	--	--	--
MW-4	12/3/2001	--	16.05	NP	--	--	--
MW-4	6/6/2002	--	17.41	NP	--	--	--
MW-4	6/26/2003	--	17.56	NP	--	--	--
MW-4	12/9/2003	--	16.40	NP	--	--	--
MW-4	4/7/2004	--	16.53	NP	--	--	--
MW-4	11/16/2004	--	17.20	17.10	0.10	--	--
MW-4	3/29/2005	261.16	15.06	NP	--	246.10	--
MW-4	6/22/2005	261.16	16.97	NP	--	244.19	--
MW-4	9/12/2005	261.16	18.09	NP	--	243.07	--
MW-4	12/6/2005	261.16	16.75	NP	--	244.41	--
MW-4	6/5/2006	261.16	16.57	NP	--	244.59	--
MW-4	9/29/2006	261.16	25.28	NP	--	235.88	--
MW-4	12/19/2006	261.16	15.49	NP	--	245.67	--
MW-4	9/24/2007	261.16	18.45	NP	--	242.71	--
MW-4	12/31/2007	261.16	16.41	NP	--	244.75	--
MW-4	1/30/2008	261.16	16.49	NP	--	244.67	--
MW-4	4/3/2008	261.16	22.96	NP	--	238.20	--
MW-4	7/2/2008	261.16	20.43	NP	--	240.73	--
MW-4	10/3/2008	261.16	24.98	NP	--	236.18	--
MW-4	1/5/2009	261.16	21.07	NP	--	240.09	--
MW-4	4/8/2009	261.16	24.52	NP	--	236.64	--
MW-4	7/8/2009	261.16	18.37	NP	--	242.79	--
MW-4	10/6/2009	261.16	18.85	NP	--	242.31	--
MW-4	1/5/2010	261.16	16.52	NP	--	244.64	--
MW-4	5/25/2010	261.16	17.11	NP	--	244.05	--
MW-4	8/19/2010	261.16	18.00	NP	--	243.16	--
MW-4	12/7/2010	261.16	16.60	NP	--	244.56	--
MW-4	1/26/2011	261.16	15.32	NP	--	245.84	--
MW-4	6/16/2011	261.16	16.72	NP	--	244.44	--
MW-4	9/22/2011	261.16	20.26	NP	--	240.90	--
MW-4	12/6/2011	261.16	21.94	NP	--	239.22	--
MW-4	3/8/2012	261.16	17.42	NP	--	243.74	--
MW-4	6/19/2012	261.16	17.22	NP	--	243.94	--
MW-4	9/21/2012	261.16	18.25	NP	--	242.91	--
MW-4	12/11/2012	261.16	15.80	NP	--	245.36	--
MW-4	6/25/2013	261.16	17.15	NP	--	244.01	--
MW-4	9/25/2013	261.16	17.88	NP	--	243.28	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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	11/14/2013	261.16	17.32	NP	--	243.84	--
MW-4	2/12/2014	261.16	16.80	NP	--	244.36	--
MW-4	4/2/2014	261.16	14.55	NP	--	246.61	--
MW-4	7/10/2014	261.16	17.24	NP	--	243.92	--
MW-4	10/22/2014	261.16	17.44	NP	--	243.72	--
MW-4	1/20/2015	261.16	15.72	NP	--	245.44	--
MW-4	12/16/2015	261.16	15.04	NP	--	246.12	--
MW-4	3/11/2016	261.16	14.24	NP	--	246.92	--
MW-4	8/29/2016	261.16	18.04	NP	--	243.12	--
MW-4	11/21/2016	261.16	15.31	NP	--	245.85	--
MW-4	2/15/2017	261.16	14.20	NP	--	246.96	--
MW-4	5/26/2017	261.16	15.21	NP	--	245.95	--
MW-4	10/17/2017	261.16	17.98	NP	--	243.18	--
MW-4	2/8/2018	261.16	14.25	NP	--	246.91	--
MW-4	9/11/2018	261.16	17.85	NP	--	243.31	--
MW-4	11/15/2018	261.16	17.40	NP	--	243.76	--
MW-4	1/29/2019	261.16	15.93	NP	--	245.23	--
MW-4	8/27/2019	261.16	17.87	NP	--	243.29	--
MW-4	9/26/2019	261.16	18.74	NP	--	242.42	--
MW-4	3/9/2020	261.16	15.53	NP	--	245.63	--
MW-4	9/28/2020	261.16	17.59	NP	--	243.57	--
MW-4	3/23/2021	261.16	15.37	NP	--	245.79	--
MW-4	9/28/2021	261.16	18.02	NP	--	243.14	--
MW-4	11/8/2021	261.16	16.31	NP	--	244.85	--
MW-4	12/13/2021	261.16	14.97	NP	--	246.19	--
MW-5	10/5/1994	--	19.20	NP	--	--	--
MW-5	2/15/1995	--	16.20	NP	--	--	--
MW-5	4/10/1995	--	16.59	NP	--	--	--
MW-5	7/20/1995	--	16.96	NP	--	--	--
MW-5	10/26/1995	--	16.55	NP	--	--	--
MW-5	1/23/1996	--	15.30	NP	--	--	--
MW-5	4/17/1996	--	12.72	NP	--	--	--
MW-5	7/8/1996	--	16.25	NP	--	--	--
MW-5	3/11/1997	261.04	14.80	NP	--	246.24	--
MW-5	5/29/1997	261.04	12.38	NP	--	248.66	--
MW-5	8/5/1997	261.04	15.54	NP	--	245.50	--
MW-5	10/23/1997	261.04	15.29	NP	--	245.75	--
MW-5	3/11/1998	261.04	14.03	NP	--	247.01	--
MW-5	6/30/1998	261.04	13.17	NP	--	247.87	--
MW-5	9/25/1998	261.04	16.79	NP	--	244.25	--
MW-5	12/29/1998	261.04	13.12	NP	--	247.92	--
MW-5	3/9/1999	261.04	10.04	NP	--	251.00	--
MW-5	6/2/1999	261.04	16.11	NP	--	244.93	--
MW-5	9/27/1999	261.04	15.50	NP	--	245.54	--
MW-5	12/20/1999	261.04	15.00	NP	--	246.04	--
MW-5	3/16/2000	261.04	11.39	NP	--	249.65	--
MW-5	6/30/2000	261.04	16.93	NP	--	244.11	--
MW-5	9/27/2000	261.04	17.67	NP	--	243.37	--
MW-5	11/10/2000	261.04	17.10	NP	--	243.94	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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	3/19/2001	261.04	16.57	NP	--	244.47	--
MW-5	6/27/2001	261.04	16.52	NP	--	244.52	--
MW-5	9/26/2001	261.04	14.22	NP	--	246.82	--
MW-5	12/3/2001	261.04	15.32	NP	--	245.72	--
MW-5	6/26/2003	261.04	16.83	NP	--	244.21	--
MW-5	12/9/2003	261.04	15.59	NP	--	245.45	--
MW-5	4/7/2004	261.04	16.10	NP	--	244.94	--
MW-5	11/16/2004	261.04	16.58	NP	--	244.46	--
MW-5	3/29/2005	261.04	16.03	NP	--	245.01	--
MW-5	6/22/2005	261.04	16.57	NP	--	244.47	--
MW-5	9/12/2005	261.04	17.44	NP	--	243.60	--
MW-5	12/6/2005	261.04	15.86	NP	--	245.18	--
MW-5	6/5/2006	261.04	15.78	NP	--	245.26	--
MW-5	9/29/2006	261.04	23.75	NP	--	237.29	--
MW-5	12/19/2006	261.04	14.58	NP	--	246.46	--
MW-5	9/24/2007	261.04	17.61	NP	--	243.43	--
MW-5	12/31/2007	261.04	15.40	NP	--	245.64	--
MW-5	1/30/2008	261.04	15.50	NP	--	245.54	--
MW-5	4/3/2008	261.04	20.44	NP	--	240.60	--
MW-5	7/2/2008	261.04	19.21	NP	--	241.83	--
MW-5	10/3/2008	261.04	22.82	NP	--	238.22	--
MW-5	1/5/2009	261.04	20.60	NP	--	240.44	--
MW-5	4/8/2009	261.04	21.52	NP	--	239.52	--
MW-5	7/8/2009	261.04	17.51	NP	--	243.53	--
MW-5	10/6/2009	261.04	18.30	NP	--	242.74	--
MW-5	1/5/2010	261.04	15.62	NP	--	245.42	--
MW-5	5/25/2010	261.04	16.25	NP	--	244.79	--
MW-5	8/19/2010	261.04	17.40	NP	--	243.64	--
MW-5	12/7/2010	261.04	15.81	NP	--	245.23	--
MW-5	1/26/2011	261.04	14.56	NP	--	246.48	--
MW-5	6/16/2011	261.04	15.95	NP	--	245.09	--
MW-5	9/22/2011	261.04	19.22	NP	--	241.82	--
MW-5	12/6/2011	261.04	20.45	NP	--	240.59	--
MW-5	3/8/2012	261.04	16.40	NP	--	244.64	--
MW-5	6/19/2012	261.04	16.27	NP	--	244.77	--
MW-5	9/21/2012	261.04	17.65	NP	--	243.39	--
MW-5	12/11/2012	261.04	14.24	NP	--	246.80	--
MW-5	6/25/2013	261.04	16.34	NP	--	244.70	--
MW-5	9/25/2013	261.04	17.37	NP	--	243.67	--
MW-5	11/14/2013	261.04	16.69	NP	--	244.35	--
MW-5	2/12/2014	261.04	15.95	NP	--	245.09	--
MW-5	4/1/2014	261.04	14.15	NP	--	246.89	--
MW-5	7/10/2014	261.04	16.72	NP	--	244.32	--
MW-5	10/21/2014	261.04	17.05	NP	--	243.99	--
MW-5	1/20/2015	261.04	14.53	NP	--	246.51	--
MW-5	12/14/2015	261.04	15.09	NP	--	245.95	--
MW-5	3/10/2016	261.04	13.82	NP	--	247.22	--
MW-5	8/29/2016	261.04	17.70	NP	--	243.34	--
MW-5	11/21/2016	261.04	14.77	NP	--	246.27	--
MW-5	2/15/2017	261.04	13.42	NP	--	247.62	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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	5/26/2017	261.04	14.82	NP	--	246.22	--
MW-5	10/17/2017	261.04	17.61	NP	--	243.43	--
MW-5	2/8/2018	261.04	13.66	NP	--	247.38	--
MW-5	9/11/2018	261.04	--	--	--	--	--
MW-5	3/9/2020	261.04	14.92	NP	--	246.12	--
MW-5	3/23/2021	261.04	14.25	NP	--	246.79	--
MW-5	9/28/2021	261.04	17.72	NP	--	243.32	--
MW-6	10/5/1994	261.72	10.35	NP	--	251.37	--
MW-6	2/15/1995	261.72	9.24	NP	--	252.48	--
MW-6	4/10/1995	261.72	9.29	NP	--	252.43	--
MW-6	7/20/1995	261.72	10.08	NP	--	251.64	--
MW-6	10/25/1995	261.72	9.77	NP	--	251.95	--
MW-6	1/23/1996	261.72	8.56	NP	--	253.16	--
MW-6	4/17/1996	261.72	9.50	NP	--	252.22	--
MW-6	7/8/1996	261.72	9.65	NP	--	252.07	--
MW-6	10/10/1996	261.72	9.95	NP	--	251.77	--
MW-6	3/11/1997	261.72	8.69	NP	--	253.03	--
MW-6	5/29/1997	261.72	8.73	NP	--	252.99	--
MW-6	8/5/1997	261.72	8.90	NP	--	252.82	--
MW-6	10/23/1997	261.72	8.08	NP	--	253.64	--
MW-6	3/11/1998	261.72	11.51	NP	--	250.21	--
MW-6	6/30/1998	261.72	10.44	NP	--	251.28	--
MW-6	9/25/1998	261.72	10.56	NP	--	251.16	--
MW-6	12/29/1998	261.72	9.68	NP	--	252.04	--
MW-6	3/9/1999	261.72	11.23	NP	--	250.49	--
MW-6	6/2/1999	261.72	9.89	NP	--	251.83	--
MW-6	9/27/1999	261.72	8.22	NP	--	253.50	--
MW-6	12/20/1999	261.72	9.30	NP	--	252.42	--
MW-6	3/16/2000	261.72	9.64	NP	--	252.08	--
MW-6	6/30/2000	261.72	10.10	NP	--	251.62	--
MW-6	9/27/2000	261.72	10.51	NP	--	251.21	--
MW-6	11/10/2000	261.72	9.25	NP	--	252.47	--
MW-6	3/19/2001	261.72	9.15	NP	--	252.57	--
MW-6	6/27/2001	261.72	9.96	NP	--	251.76	--
MW-6	9/26/2001	261.72	10.53	NP	--	251.19	--
MW-6	12/3/2001	261.72	9.05	NP	--	252.67	--
MW-6	6/26/2003	261.72	10.02	NP	--	251.70	--
MW-6	12/9/2003	261.72	9.25	NP	--	252.47	--
MW-6	4/7/2004	261.72	8.65	NP	--	253.07	--
MW-6	11/16/2004	261.72	8.82	NP	--	252.90	--
MW-6	3/29/2005	261.72	8.10	NP	--	253.62	--
MW-6	6/22/2005	261.72	8.77	NP	--	252.95	--
MW-6	9/12/2005	261.72	9.65	NP	--	252.07	--
MW-6	12/6/2005	261.72	8.24	NP	--	253.48	--
MW-6	6/5/2006	261.72	8.08	NP	--	253.64	--
MW-6	9/29/2006	261.72	15.73	NP	--	245.99	--
MW-6	12/19/2006	261.72	8.21	NP	--	253.51	--
MW-6	9/24/2007	261.72	10.55	NP	--	251.17	--
MW-6	12/31/2007	261.72	--	--	--	--	WI

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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	1/30/2008	261.72	9.09	NP	--	252.63	--
MW-6	4/3/2008	261.72	15.89	NP	--	245.83	--
MW-6	7/2/2008	261.72	15.43	NP	--	246.29	--
MW-6	10/3/2008	261.72	15.48	NP	--	246.24	--
MW-6	1/5/2009	261.72	13.06	NP	--	248.66	--
MW-6	4/8/2009	261.72	17.48	NP	--	244.24	--
MW-6	7/8/2009	261.72	11.00	NP	--	250.72	--
MW-6	10/6/2009	261.72	11.17	NP	--	250.55	--
MW-6	1/5/2010	261.72	10.06	NP	--	251.66	--
MW-6	5/25/2010	261.72	10.26	NP	--	251.46	--
MW-6	8/19/2010	261.72	10.66	NP	--	251.06	--
MW-6	12/7/2010	261.72	10.04	NP	--	251.68	--
MW-6	1/26/2011	261.72	9.48	NP	--	252.24	--
MW-6	6/16/2011	261.72	9.98	NP	--	251.74	--
MW-6	9/22/2011	261.72	14.79	NP	--	246.93	--
MW-6	12/6/2011	261.72	17.88	NP	--	243.84	--
MW-6	3/8/2012	261.72	11.03	NP	--	250.69	--
MW-6	6/19/2012	261.72	15.09	NP	--	246.63	--
MW-6	9/21/2012	261.72	10.71	NP	--	251.01	--
MW-6	12/11/2012	261.72	9.46	NP	--	252.26	--
MW-6	6/25/2013	261.72	10.03	NP	--	251.69	--
MW-6	9/25/2013	261.72	10.32	NP	--	251.40	--
MW-6	11/14/2013	261.72	9.86	NP	--	251.86	--
MW-6	2/12/2014	261.72	9.44	NP	--	252.28	--
MW-6	4/1/2014	261.72	8.87	NP	--	252.85	--
MW-6	7/9/2014	261.72	9.97	NP	--	251.75	--
MW-6	10/20/2014	261.72	10.09	NP	--	251.63	--
MW-6	1/19/2015	261.72	9.05	NP	--	252.67	--
MW-6	12/14/2015	261.72	8.81	NP	--	252.91	--
MW-6	3/10/2016	261.72	8.46	NP	--	253.26	--
MW-6	3/9/2020	261.72	8.97	NP	--	252.75	--
MW-6	9/28/2020	261.72	9.98	NP	--	251.74	--
MW-6	3/23/2021	261.72	8.64	NP	--	253.08	--
MW-6	9/28/2021	261.72	10.16	NP	--	251.56	--
MW-7	10/5/1994	261.21	17.62	NP	--	243.59	--
MW-7	2/15/1995	261.21	15.00	NP	--	246.21	--
MW-7	4/10/1995	261.21	15.10	NP	--	246.11	--
MW-7	7/20/1995	261.21	16.70	NP	--	244.51	--
MW-7	10/26/1995	261.21	16.38	NP	--	244.83	--
MW-7	1/23/1996	261.21	14.26	NP	--	246.95	--
MW-7	4/17/1996	261.21	15.39	NP	--	245.82	--
MW-7	7/8/1996	261.21	15.65	NP	--	245.56	--
MW-7	10/10/1996	261.21	16.35	NP	--	244.86	--
MW-7	3/11/1997	261.21	14.21	NP	--	247.00	--
MW-7	5/29/1997	261.21	11.56	NP	--	249.65	--
MW-7	8/5/1997	261.21	14.92	NP	--	246.29	--
MW-7	10/23/1997	261.21	13.96	NP	--	247.25	--
MW-7	3/11/1998	261.21	14.30	NP	--	246.91	--
MW-7	6/30/1998	261.21	15.88	NP	--	245.33	--

Table 1
Groundwater Gauging Data
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10822 Roosevelt Way NE Seattle, Washington 98125

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-7	12/29/1998	261.21	13.98	NP	--	247.23	--
MW-7	3/9/1999	261.21	13.59	NP	--	247.62	--
MW-7	6/2/1999	261.21	14.84	NP	--	246.37	--
MW-7	9/27/1999	261.21	15.10	NP	--	246.11	--
MW-7	12/20/1999	261.21	14.00	NP	--	247.21	--
MW-7	3/16/2000	261.21	14.55	NP	--	246.66	--
MW-7	6/30/2000	261.21	16.08	NP	--	245.13	--
MW-7	9/27/2000	261.21	16.53	NP	--	244.68	--
MW-7	11/10/2000	261.21	15.85	NP	--	245.36	--
MW-7	3/19/2001	261.21	15.48	NP	--	245.73	--
MW-7	6/27/2001	261.21	16.11	NP	--	245.10	--
MW-7	9/26/2001	261.21	16.67	NP	--	244.54	--
MW-7	12/3/2001	261.21	14.29	NP	--	246.92	--
MW-7	12/9/2003	261.21	14.50	NP	--	246.71	--
MW-7	4/7/2004	261.21	14.97	NP	--	246.24	--
MW-7	11/16/2004	261.21	15.24	NP	--	245.97	--
MW-7	3/29/2005	261.21	14.41	NP	--	246.80	--
MW-7	6/22/2005	261.21	15.39	NP	--	245.82	--
MW-7	9/12/2005	261.21	16.18	NP	--	245.03	--
MW-7	12/6/2005	261.21	14.47	NP	--	246.74	--
MW-7	6/5/2006	261.21	14.43	NP	--	246.78	--
MW-7	9/29/2006	261.21	21.71	NP	--	239.50	--
MW-7	12/19/2006	261.21	13.63	NP	--	247.58	--
MW-7	9/24/2007	261.21	--	--	--	--	Dry
MW-7	12/31/2007	261.21	14.54	NP	--	246.67	--
MW-7	1/30/2008	261.21	14.66	NP	--	246.55	--
MW-7	4/3/2008	261.21	19.26	NP	--	241.95	--
MW-7	7/2/2008	261.21	18.34	NP	--	242.87	--
MW-7	10/3/2008	261.21	20.13	NP	--	241.08	--
MW-7	1/5/2009	261.21	18.50	NP	--	242.71	--
MW-7	4/8/2009	261.21	20.85	NP	--	240.36	--
MW-7	7/8/2009	261.21	16.45	NP	--	244.76	--
MW-7	10/6/2009	261.21	16.98	NP	--	244.23	--
MW-7	1/5/2010	261.21	14.77	NP	--	246.44	--
MW-7	5/25/2010	261.21	15.45	NP	--	245.76	--
MW-7	8/19/2010	261.21	16.30	NP	--	244.91	--
MW-7	12/7/2010	261.21	14.88	NP	--	246.33	--
MW-7	1/26/2011	261.21	13.84	NP	--	247.37	--
MW-7	6/16/2011	261.21	15.05	NP	--	246.16	--
MW-7	9/22/2011	261.21	18.12	NP	--	243.09	--
MW-7	12/6/2011	261.21	19.71	NP	--	241.50	--
MW-7	3/8/2012	261.21	15.50	NP	--	245.71	--
MW-7	6/19/2012	261.21	15.09	NP	--	246.12	--
MW-7	9/21/2012	261.21	16.37	NP	--	244.84	--
MW-7	12/11/2012	261.21	13.45	NP	--	247.76	--
MW-7	6/25/2013	261.21	15.19	NP	--	246.02	--
MW-7	9/25/2013	261.21	15.85	NP	--	245.36	--
MW-7	11/14/2013	261.21	15.32	NP	--	245.89	--
MW-7	2/12/2014	261.21	15.77	NP	--	245.44	--
MW-7	4/1/2014	261.21	13.15	NP	--	248.06	--

Table 1
Groundwater Gauging Data
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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-7	7/9/2014	261.21	15.56	NP	--	245.65	--
MW-7	10/20/2014	261.21	15.63	NP	--	245.58	--
MW-7	1/19/2015	261.21	14.06	NP	--	247.15	--
MW-7	3/9/2020	261.21	13.66	NP	--	247.55	--
MW-7	9/28/2020	261.21	15.10	NP	--	246.11	--
MW-7	3/23/2021	261.21	12.98	NP	--	248.23	--
MW-7	9/28/2021	261.21	16.36	NP	--	244.85	--
MW-8	10/5/1994	--	18.11	NP	--	--	--
MW-8	2/15/1995	--	15.07	NP	--	--	--
MW-8	4/10/1995	--	15.07	NP	--	--	--
MW-8	7/20/1995	--	16.96	NP	--	--	--
MW-8	10/25/1995	--	16.85	NP	--	--	--
MW-8	1/23/1996	259.58	13.95	NP	--	245.63	--
MW-8	4/17/1996	259.58	15.46	NP	--	244.12	--
MW-8	7/8/1996	259.58	15.89	NP	--	243.69	--
MW-8	10/10/1996	259.58	16.70	NP	--	242.88	--
MW-8	3/11/1997	259.58	14.19	NP	--	245.39	--
MW-8	5/29/1997	259.58	14.41	NP	--	245.17	--
MW-8	8/5/1997	259.58	14.10	NP	--	245.48	--
MW-8	10/23/1997	259.58	14.17	NP	--	245.41	--
MW-8	3/11/1998	259.58	14.00	NP	--	245.58	--
MW-8	6/30/1998	259.58	17.58	NP	--	242.00	--
MW-8	9/25/1998	259.58	17.08	NP	--	242.50	--
MW-8	12/29/1998	259.58	14.49	NP	--	245.09	--
MW-8	3/9/1999	259.58	13.48	NP	--	246.10	--
MW-8	6/2/1999	259.58	15.36	NP	--	244.22	--
MW-8	9/27/1999	259.58	16.79	NP	--	242.79	--
MW-8	12/20/1999	259.58	14.38	NP	--	245.20	--
MW-8	3/16/2000	259.58	14.80	NP	--	244.78	--
MW-8	6/30/2000	259.58	16.35	NP	--	243.23	--
MW-8	9/27/2000	259.58	17.24	NP	--	242.34	--
MW-8	11/10/2000	259.58	16.80	NP	--	242.78	--
MW-8	3/19/2001	259.58	16.05	NP	--	243.53	--
MW-8	6/27/2001	259.58	16.62	NP	--	242.96	--
MW-8	9/26/2001	259.58	17.64	NP	--	241.94	--
MW-8	12/3/2001	259.58	15.17	NP	--	244.41	--
MW-8	6/6/2002	259.58	16.00	NP	--	243.58	--
MW-8	6/26/2003	259.58	16.52	NP	--	243.06	--
MW-8	12/9/2003	259.58	15.45	NP	--	244.13	--
MW-8	4/7/2004	259.58	15.51	NP	--	244.07	--
MW-8	11/16/2004	259.58	16.45	NP	--	243.13	--
MW-8	3/29/2005	259.58	16.08	NP	--	243.50	--
MW-8	6/22/2005	259.58	16.12	NP	--	243.46	--
MW-8	9/12/2005	259.58	17.15	NP	--	242.43	--
MW-8	12/6/2005	259.58	15.80	NP	--	243.78	--
MW-8	6/5/2006	259.58	15.08	NP	--	244.50	--
MW-8	9/24/2007	259.58	17.16	NP	--	242.42	--
MW-8	12/31/2007	259.58	15.00	NP	--	244.58	--
MW-8	1/30/2008	259.58	14.87	NP	--	244.71	--

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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-8	4/2/2008	259.58	18.07	NP	--	241.51	--
MW-8	7/1/2008	259.58	18.34	NP	--	241.24	--
MW-8	10/3/2008	259.58	19.32	NP	--	240.26	--
MW-8	1/6/2009	259.58	18.14	NP	--	241.44	--
MW-8	4/8/2009	259.58	17.70	NP	--	241.88	--
MW-8	7/8/2009	259.58	16.95	NP	--	242.63	--
MW-8	10/6/2009	259.58	17.80	NP	--	241.78	--
MW-8	1/5/2010	259.58	15.11	NP	--	244.47	--
MW-8	5/25/2010	259.58	15.52	NP	--	244.06	--
MW-8	8/19/2010	259.58	16.80	NP	--	242.78	--
MW-8	12/7/2010	259.58	15.54	NP	--	244.04	--
MW-8	1/26/2011	259.58	13.80	NP	--	245.78	--
MW-8	6/16/2011	259.58	15.15	NP	--	244.43	--
MW-8	9/22/2011	259.58	18.25	NP	--	241.33	--
MW-8	12/6/2011	259.58	18.16	NP	--	241.42	--
MW-8	3/8/2012	259.58	15.89	NP	--	243.69	--
MW-8	6/19/2012	259.58	12.67	NP	--	246.91	--
MW-8	9/21/2012	259.58	17.20	NP	--	242.38	--
MW-8	12/11/2012	259.58	14.28	NP	--	245.30	--
MW-8	6/26/2013	259.58	15.85	NP	--	243.73	--
MW-8	9/25/2013	259.58	16.98	NP	--	242.60	--
MW-8	11/15/2013	259.58	16.45	NP	--	243.13	--
MW-8	2/13/2014	259.58	15.84	NP	--	243.74	--
MW-8	4/2/2014	259.58	13.65	NP	--	245.93	--
MW-8	7/10/2014	259.58	16.03	NP	--	243.55	--
MW-8	10/21/2014	259.58	16.79	NP	--	242.79	--
MW-8	1/19/2015	259.58	14.35	NP	--	245.23	--
MW-8	6/1/2016	259.58	15.25	NP	--	244.33	--
MW-8	8/29/2016	259.58	17.04	NP	--	242.54	--
MW-8	11/21/2016	259.58	14.69	NP	--	244.89	--
MW-8	2/15/2017	259.58	10.47	NP	--	249.11	--
MW-8	5/26/2017	259.58	12.43	NP	--	247.15	--
MW-8	10/17/2017	259.58	16.62	NP	--	242.96	--
MW-8	2/8/2018	259.58	11.71	NP	--	247.87	--
MW-8	9/11/2018	259.58	16.78	NP	--	242.80	--
MW-8	11/15/2018	259.58	16.66	NP	--	242.92	--
MW-8	1/29/2019	259.58	14.89	NP	--	244.69	--
MW-8	9/26/2019	259.58	17.06	NP	--	242.52	--
MW-8	3/9/2020	259.58	14.18	NP	--	245.40	--
MW-8	9/28/2020	259.58	17.10	NP	--	242.48	--
MW-8	3/23/2021	259.58	14.06	NP	--	245.52	--
MW-8	9/28/2021	259.58	17.60	NP	--	241.98	--
MW-9	10/5/1994	--	19.51	NP	--	--	--
MW-9	2/15/1995	--	16.71	NP	--	--	--
MW-9	4/10/1995	--	16.83	NP	--	--	--
MW-9	7/20/1995	--	18.66	NP	--	--	--
MW-9	10/25/1995	--	18.29	NP	--	--	--
MW-9	1/23/1996	258.96	15.47	NP	--	243.49	--
MW-9	4/17/1996	258.96	17.18	NP	--	241.78	--

Table 1
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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-9	7/8/1996	258.96	17.73	NP	--	241.23	--
MW-9	10/10/1996	258.96	18.47	NP	--	240.49	--
MW-9	3/11/1997	258.96	15.91	NP	--	243.05	--
MW-9	5/29/1997	258.96	14.77	NP	--	244.19	--
MW-9	8/5/1997	258.96	16.21	NP	--	242.75	--
MW-9	10/23/1997	258.96	15.81	NP	--	243.15	--
MW-9	3/11/1998	258.96	15.88	NP	--	243.08	--
MW-9	6/30/1998	258.96	17.97	NP	--	240.99	--
MW-9	9/25/1998	258.96	18.57	NP	--	240.39	--
MW-9	12/29/1998	258.96	15.84	NP	--	243.12	--
MW-9	3/9/1999	258.96	15.00	NP	--	243.96	--
MW-9	6/2/1999	258.96	17.17	NP	--	241.79	--
MW-9	9/27/1999	258.96	18.39	NP	--	240.57	--
MW-9	12/20/1999	258.96	15.85	NP	--	243.11	--
MW-9	3/16/2000	258.96	16.35	NP	--	242.61	--
MW-9	6/30/2000	258.96	18.05	NP	--	240.91	--
MW-9	9/27/2000	258.96	18.87	NP	--	240.09	--
MW-9	11/10/2000	258.96	18.04	NP	--	240.92	--
MW-9	3/19/2001	258.96	17.50	NP	--	241.46	--
MW-9	6/27/2001	258.96	18.08	NP	--	240.88	--
MW-9	9/26/2001	258.96	18.80	NP	--	240.16	--
MW-9	12/3/2001	258.96	16.25	NP	--	242.71	WI
MW-9	6/6/2002	258.96	17.72	NP	--	241.24	--
MW-9	6/26/2003	258.96	18.07	NP	--	240.89	--
MW-9	12/9/2003	258.96	16.51	NP	--	242.45	--
MW-9	4/7/2004	258.96	17.10	NP	--	241.86	--
MW-9	11/16/2004	258.96	17.21	NP	--	241.75	--
MW-9	3/29/2005	258.96	16.81	NP	--	242.15	--
MW-9	6/22/2005	258.96	17.70	NP	--	241.26	--
MW-9	9/12/2005	258.96	18.64	NP	--	240.32	--
MW-9	12/6/2005	258.96	17.10	NP	--	241.86	--
MW-9	6/5/2006	258.96	17.01	NP	--	241.95	--
MW-9	9/24/2007	258.96	18.88	NP	--	240.08	--
MW-9	12/31/2007	258.96	16.57	NP	--	242.39	--
MW-9	1/30/2008	258.96	--	--	--	--	WI
MW-9	4/2/2008	258.96	19.63	NP	--	239.33	--
MW-9	7/1/2008	258.96	19.99	NP	--	238.97	--
MW-9	10/3/2008	258.96	20.74	NP	--	238.22	--
MW-9	1/6/2009	258.96	19.11	NP	--	239.85	--
MW-9	4/8/2009	258.96	18.98	NP	--	239.98	--
MW-9	7/8/2009	258.96	18.55	NP	--	240.41	--
MW-9	10/6/2009	258.96	19.19	NP	--	239.77	--
MW-9	1/5/2010	258.96	15.50	NP	--	243.46	--
MW-9	5/25/2010	258.96	17.17	NP	--	241.79	--
MW-9	8/19/2010	258.96	18.39	NP	--	240.57	--
MW-9	12/7/2010	258.96	16.95	NP	--	242.01	--
MW-9	1/26/2011	258.96	15.18	NP	--	243.78	--
MW-9	6/16/2011	258.96	16.84	NP	--	242.12	--
MW-9	9/22/2011	258.96	19.62	NP	--	239.34	--
MW-9	12/6/2011	258.96	19.14	NP	--	239.82	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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	3/8/2012	258.96	17.17	NP	--	241.79	--
MW-9	6/19/2012	258.96	17.22	NP	--	241.74	--
MW-9	9/21/2012	258.96	18.54	NP	--	240.42	--
MW-9	12/11/2012	258.96	15.20	NP	--	243.76	--
MW-9	6/26/2013	258.96	17.31	NP	--	241.65	--
MW-9	9/25/2013	258.96	18.23	NP	--	240.73	--
MW-9	11/14/2013	258.96	17.64	NP	--	241.32	--
MW-9	2/14/2014	258.96	16.96	NP	--	242.00	--
MW-9	4/2/2014	258.96	15.05	NP	--	243.91	--
MW-9	7/10/2014	258.96	17.54	NP	--	241.42	--
MW-9	10/21/2014	258.96	17.90	NP	--	241.06	--
MW-9	1/20/2015	258.96	15.88	NP	--	243.08	--
MW-9	12/14/2015	258.96	15.40	NP	--	243.56	--
MW-9	3/10/2016	258.96	14.74	NP	--	244.22	--
MW-9	6/1/2016	258.96	17.06	NP	--	241.90	--
MW-9	8/29/2016	258.96	18.48	NP	--	240.48	--
MW-9	11/21/2016	258.96	15.80	NP	--	243.16	--
MW-9	2/15/2017	258.96	13.94	NP	--	245.02	--
MW-9	5/26/2017	258.96	15.34	NP	--	243.62	--
MW-9	10/17/2017	258.96	18.29	NP	--	240.67	--
MW-9	2/8/2018	258.96	14.09	NP	--	244.87	--
MW-9	9/11/2018	258.96	18.31	NP	--	240.65	--
MW-9	11/15/2018	258.96	17.71	NP	--	241.25	--
MW-9	1/29/2019	258.96	16.02	NP	--	242.94	--
MW-9	9/26/2019	258.96	18.02	NP	--	240.94	--
MW-9	3/9/2020	258.96	15.66	NP	--	243.30	--
MW-9	9/28/2020	258.96	18.10	NP	--	240.86	--
MW-9	3/23/2021	258.96	15.65	NP	--	243.31	--
MW-9	9/28/2021	258.96	18.47	NP	--	240.49	--
MW-10	10/5/1994	256.56	17.52	NP	--	239.04	--
MW-10	2/15/1995	256.56	14.70	NP	--	241.86	--
MW-10	4/10/1995	256.56	14.91	NP	--	241.65	--
MW-10	7/20/1995	256.56	16.67	NP	--	239.89	--
MW-10	10/25/1995	256.56	16.22	NP	--	240.34	--
MW-10	1/23/1996	256.56	13.40	NP	--	243.16	--
MW-10	4/17/1996	256.56	15.27	NP	--	241.29	--
MW-10	7/8/1996	256.56	15.85	NP	--	240.71	--
MW-10	10/10/1996	256.56	16.50	NP	--	240.06	--
MW-10	3/11/1997	256.56	13.91	NP	--	242.65	--
MW-10	5/29/1997	256.56	12.36	NP	--	244.20	--
MW-10	8/5/1997	256.56	16.49	NP	--	240.07	--
MW-10	10/23/1997	256.56	13.82	NP	--	242.74	--
MW-10	3/11/1998	256.56	14.09	NP	--	242.47	--
MW-10	6/30/1998	256.56	16.38	NP	--	240.18	--
MW-10	9/25/1998	256.56	16.69	NP	--	239.87	--
MW-10	12/29/1998	256.56	13.83	NP	--	242.73	--
MW-10	3/9/1999	256.56	13.44	NP	--	243.12	--
MW-10	6/2/1999	256.56	15.31	NP	--	241.25	--
MW-10	9/27/1999	256.56	16.51	NP	--	240.05	--

Table 1
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10822 Roosevelt Way NE Seattle, Washington 98125

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-10	12/20/1999	256.56	13.99	NP	--	242.57	--
MW-10	3/16/2000	256.56	14.60	NP	--	241.96	--
MW-10	6/30/2000	256.56	16.17	NP	--	240.39	--
MW-10	9/27/2000	256.56	17.02	NP	--	239.54	--
MW-10	11/10/2000	256.56	16.02	NP	--	240.54	--
MW-10	3/19/2001	256.56	15.55	NP	--	241.01	--
MW-10	6/27/2001	256.56	16.11	NP	--	240.45	--
MW-10	9/26/2001	256.56	16.90	NP	--	239.66	--
MW-10	12/3/2001	256.56	14.05	NP	--	242.51	WI
MW-10	6/6/2002	256.56	15.95	NP	--	240.61	--
MW-10	6/26/2003	256.56	16.30	NP	--	240.26	--
MW-10	12/9/2003	256.56	14.55	NP	--	242.01	--
MW-10	4/7/2004	256.56	15.36	NP	--	241.20	--
MW-10	11/16/2004	256.56	16.00	NP	--	240.56	--
MW-10	3/29/2005	256.56	14.88	NP	--	241.68	--
MW-10	6/22/2005	256.56	15.95	NP	--	240.61	--
MW-10	9/12/2005	256.56	16.80	NP	--	239.76	--
MW-10	12/6/2005	256.56	15.13	NP	--	241.43	--
MW-10	6/5/2006	256.56	15.22	NP	--	241.34	--
MW-10	9/24/2007	256.56	17.06	NP	--	239.50	--
MW-10	12/31/2007	256.56	14.74	NP	--	241.82	--
MW-10	1/30/2008	256.56	--	--	--	--	WI
MW-10	4/2/2008	256.56	17.65	NP	--	238.91	--
MW-10	7/1/2008	256.56	18.15	NP	--	238.41	--
MW-10	10/3/2008	256.56	18.83	NP	--	237.73	--
MW-10	1/6/2009	256.56	16.96	NP	--	239.60	--
MW-10	4/8/2009	256.56	16.88	NP	--	239.68	--
MW-10	7/8/2009	256.56	16.76	NP	--	239.80	--
MW-10	10/6/2009	256.56	17.32	NP	--	239.24	--
MW-10	1/5/2010	256.56	14.69	NP	--	241.87	--
MW-10	5/25/2010	256.56	15.57	NP	--	240.99	--
MW-10	8/19/2010	256.56	16.68	NP	--	239.88	--
MW-10	12/7/2010	256.56	15.15	NP	--	241.41	--
MW-10	1/26/2011	256.56	13.78	NP	--	242.78	--
MW-10	6/16/2011	256.56	15.41	NP	--	241.15	--
MW-10	9/22/2011	256.56	17.88	NP	--	238.68	--
MW-10	12/6/2011	256.56	17.11	NP	--	239.45	--
MW-10	3/8/2012	256.56	15.34	NP	--	241.22	--
MW-10	6/19/2012	256.56	15.63	NP	--	240.93	--
MW-10	9/21/2012	256.56	16.89	NP	--	239.67	--
MW-10	12/11/2012	256.56	13.59	NP	--	242.97	--
MW-10	6/26/2013	256.56	15.77	NP	--	240.79	--
MW-10	9/25/2013	256.56	16.42	NP	--	240.14	--
MW-10	11/14/2013	256.56	15.96	NP	--	240.60	--
MW-10	2/13/2014	256.56	15.24	NP	--	241.32	--
MW-10	4/2/2014	256.56	13.63	NP	--	242.93	--
MW-10	7/11/2014	256.56	16.15	NP	--	240.41	--
MW-10	10/21/2014	256.56	16.20	NP	--	240.36	--
MW-10	1/20/2015	256.56	14.33	NP	--	242.23	--
MW-10	3/11/2016	256.56	13.05	NP	--	243.51	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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-10	8/29/2016	256.56	16.92	NP	--	239.64	--
MW-10	11/21/2016	256.56	14.11	NP	--	242.45	--
MW-10	2/15/2017	256.56	12.77	NP	--	243.79	--
MW-10	5/26/2017	256.56	14.33	NP	--	242.23	--
MW-10	10/17/2017	256.56	16.68	NP	--	239.88	--
MW-10	2/8/2018	256.56	12.94	NP	--	243.62	--
MW-10	9/11/2018	256.56	16.81	NP	--	239.75	--
MW-10	11/15/2018	256.56	16.14	NP	--	240.42	--
MW-10	1/29/2019	256.56	14.65	NP	--	241.91	--
MW-10	9/26/2019	256.56	16.44	NP	--	240.12	--
MW-10	3/9/2020	256.56	14.43	NP	--	242.13	--
MW-10	9/28/2020	256.56	16.49	NP	--	240.07	--
MW-10	3/23/2021	256.56	14.31	NP	--	242.25	--
MW-10	9/28/2021	256.56	16.78	NP	--	239.78	--
MW-10	11/8/2021	256.56	15.16	NP	--	241.40	--
MW-10	12/13/2021	256.56	14.02	NP	--	242.54	--
MW-11	4/10/1995	--	16.95	16.25	0.70	--	--
MW-11	7/20/1995	--	19.04	19.02	0.02	--	--
MW-11	10/25/1995	--	17.98	17.96	0.02	--	--
MW-11	1/23/1996	--	13.35	NP	--	--	--
MW-11	4/17/1996	--	20.50	NP	--	--	--
MW-11	7/8/1996	261.85	20.55	15.50	5.05	245.09	--
MW-11	10/10/1996	261.85	16.25	15.00	1.25	246.54	--
MW-11	3/11/1997	261.85	16.39	15.47	0.92	246.15	--
MW-11	5/29/1997	261.85	12.99	12.82	0.17	248.99	--
MW-11	8/5/1997	261.85	14.81	14.11	0.70	247.57	--
MW-11	10/23/1997	261.85	20.04	19.93	0.11	241.89	--
MW-11	3/11/1998	261.85	15.00	NP	--	246.85	--
MW-11	6/30/1998	261.85	13.26	NP	--	248.59	--
MW-11	9/25/1998	261.85	16.49	16.47	0.02	245.38	--
MW-11	12/29/1998	261.85	14.43	NP	--	247.42	--
MW-11	3/9/1999	261.85	10.35	NP	--	251.50	--
MW-11	6/2/1999	261.85	16.34	16.32	0.02	245.53	--
MW-11	9/27/1999	261.85	15.80	NP	--	246.05	--
MW-11	12/20/1999	261.85	15.21	NP	--	246.64	--
MW-11	3/16/2000	261.85	11.90	NP	--	249.95	--
MW-11	6/30/2000	261.85	17.35	NP	--	244.50	--
MW-11	9/27/2000	261.85	18.20	18.14	0.06	243.70	--
MW-11	11/10/2000	261.85	17.28	17.26	0.02	244.59	--
MW-11	3/19/2001	261.85	17.16	17.15	0.01	244.70	--
MW-11	6/27/2001	261.85	16.80	NP	--	245.05	--
MW-11	9/26/2001	261.85	15.30	NP	--	246.55	WI
MW-11	12/3/2001	261.85	15.90	NP	--	245.95	--
MW-11	6/6/2002	261.85	16.84	NP	--	245.01	WI
MW-11	6/26/2003	261.85	17.49	17.45	0.04	244.39	WI
MW-11	12/9/2003	261.85	16.19	NP	--	245.66	--
MW-11	4/7/2004	261.85	16.48	16.46	0.02	245.39	--
MW-11	11/16/2004	261.85	17.00	NP	--	244.85	--
MW-11	3/29/2005	261.85	16.15	NP	--	245.70	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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	6/22/2005	261.85	17.15	NP	--	244.70	--
MW-11	9/12/2005	261.85	17.99	NP	--	243.86	--
MW-11	12/6/2005	261.85	16.68	NP	--	245.17	--
MW-11	6/5/2006	261.85	16.55	NP	--	245.30	--
MW-11	9/29/2006	261.85	20.90	NP	--	240.95	--
MW-11	12/19/2006	261.85	15.25	NP	--	246.60	--
MW-11	9/24/2007	261.85	14.42	NP	--	247.43	--
MW-11	12/31/2007	261.85	--	--	--	--	WI
MW-11	4/3/2008	261.85	--	--	--	--	WI
MW-11	7/1/2008	261.85	--	--	--	--	WI
MW-11	10/3/2008	261.85	21.82	NP	--	240.03	--
MW-11	1/6/2009	261.85	--	--	--	--	Dry
MW-11	4/8/2009	261.85	19.20	NP	--	242.65	--
MW-11	7/8/2009	261.85	18.09	NP	--	243.76	--
MW-11	10/6/2009	261.85	18.77	NP	--	243.08	--
MW-11	1/5/2010	261.85	16.14	NP	--	245.71	--
MW-11	5/25/2010	261.85	16.56	NP	--	245.29	--
MW-11	8/19/2010	261.85	17.84	NP	--	244.01	--
MW-11	12/7/2010	261.85	16.95	NP	--	244.90	--
MW-11	1/26/2011	261.85	14.91	NP	--	246.94	--
MW-11	6/16/2011	261.85	16.29	NP	--	245.56	--
MW-11	9/22/2011	261.85	20.40	NP	--	241.45	--
MW-11	12/6/2011	261.85	18.11	NP	--	243.74	--
MW-11	3/8/2012	261.85	17.40	NP	--	244.45	--
MW-11	6/19/2012	261.85	16.80	NP	--	245.05	--
MW-11	9/21/2012	261.85	18.15	NP	--	243.70	--
MW-11	12/11/2012	261.85	14.80	NP	--	247.05	--
MW-11	6/27/2013	261.85	16.88	NP	--	244.97	--
MW-11	9/26/2013	261.85	17.90	NP	--	243.95	--
MW-11	11/15/2013	261.85	17.07	NP	--	244.78	--
MW-11	2/13/2014	261.85	16.51	NP	--	245.34	--
MW-11	4/2/2014	261.85	14.52	NP	--	247.33	--
MW-11	7/11/2014	261.85	17.12	NP	--	244.73	--
MW-11	10/22/2014	261.85	17.54	NP	--	244.31	--
MW-11	1/21/2015	261.85	15.60	NP	--	246.25	--
MW-11	12/14/2015	261.85	14.20	NP	--	247.65	--
MW-11	3/10/2016	261.85	14.86	NP	--	246.99	--
MW-11	6/1/2016	261.85	16.95	NP	--	244.90	--
MW-11	8/29/2016	261.85	18.11	NP	--	243.74	--
MW-11	11/21/2016	261.85	15.50	NP	--	246.35	--
MW-11	2/15/2017	261.85	14.54	NP	--	247.31	--
MW-11	5/26/2017	261.85	15.66	NP	--	246.19	--
MW-11	10/17/2017	261.85	18.04	NP	--	243.81	--
MW-11	2/8/2018	261.85	14.45	NP	--	247.40	--
MW-11	9/11/2018	261.85	17.96	NP	--	243.89	--
MW-11	11/15/2018	261.85	17.42	NP	--	244.43	--
MW-11	1/29/2019	261.85	15.89	NP	--	245.96	--
MW-11	8/27/2019	261.85	17.94	NP	--	243.91	--
MW-11	9/26/2019	261.85	17.77	NP	--	244.08	--
MW-11	3/9/2020	261.85	15.73	NP	--	246.12	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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	9/28/2020	261.85	17.72	NP	--	244.13	--
MW-11	3/23/2021	261.85	15.61	NP	--	246.24	--
MW-11	9/28/2021	261.85	18.09	NP	--	243.76	--
MW-11	11/5/2021	261.85	18.09	NP	--	243.76	--
MW-12	7/11/1996	257.84	11.69	NP	--	246.15	--
MW-12	10/10/1996	257.84	13.63	NP	--	244.21	--
MW-12	3/11/1997	257.84	8.65	NP	--	249.19	--
MW-12	5/29/1997	257.84	11.17	NP	--	246.67	--
MW-12	8/5/1997	257.84	11.68	NP	--	246.16	--
MW-12	10/23/1997	257.84	11.41	NP	--	246.43	--
MW-12	3/11/1998	257.84	10.50	NP	--	247.34	--
MW-12	6/30/1998	257.84	13.12	NP	--	244.72	--
MW-12	9/25/1998	257.84	13.57	13.51	0.06	244.32	--
MW-12	12/29/1998	257.84	11.37	NP	--	246.47	--
MW-12	3/9/1999	257.84	10.67	NP	--	247.17	--
MW-12	6/2/1999	257.84	12.48	NP	--	245.36	--
MW-12	9/27/1999	257.84	13.76	13.50	0.26	244.28	--
MW-12	12/20/1999	257.84	11.64	11.24	0.40	246.50	--
MW-12	3/16/2000	257.84	11.75	11.74	0.01	246.10	--
MW-12	6/30/2000	257.84	13.45	NP	--	244.39	--
MW-12	9/27/2000	257.84	14.00	13.84	0.16	243.96	--
MW-12	11/10/2000	257.84	13.28	13.03	0.25	244.75	--
MW-12	3/19/2001	257.84	13.20	13.00	0.20	244.79	--
MW-12	6/27/2001	257.84	13.95	13.92	0.03	243.91	--
MW-12	9/26/2001	257.84	14.10	14.08	0.02	243.76	--
MW-12	12/3/2001	257.84	12.16	12.13	0.03	245.70	--
MW-12	6/6/2002	257.84	13.30	13.25	0.05	244.58	--
MW-12	6/26/2003	257.84	13.52	13.25	0.27	244.52	--
MW-12	12/9/2003	257.84	12.18	12.16	0.02	245.68	--
MW-12	4/7/2004	257.84	12.71	NP	--	245.13	--
MW-12	11/16/2004	257.84	13.00	12.80	0.20	244.99	--
MW-12	3/29/2005	257.84	12.08	NP	--	245.76	--
MW-12	6/22/2005	257.84	13.04	NP	--	244.80	--
MW-12	9/12/2005	257.84	13.84	NP	--	244.00	--
MW-12	12/6/2005	257.84	12.26	NP	--	245.58	--
MW-12	6/5/2006	257.84	12.11	NP	--	245.73	--
MW-12	9/29/2006	257.84	17.50	NP	--	240.34	--
MW-12	12/19/2006	257.84	10.87	NP	--	246.97	--
MW-12	9/24/2007	257.84	14.30	NP	--	243.54	--
MW-12	12/31/2007	257.84	12.12	NP	--	245.72	--
MW-12	1/29/2008	257.84	11.92	NP	--	245.92	--
MW-12	4/3/2008	257.84	19.67	NP	--	238.17	--
MW-12	7/1/2008	257.84	17.26	NP	--	240.58	--
MW-12	10/3/2008	257.84	19.78	NP	--	238.06	--
MW-12	1/6/2009	257.84	12.93	NP	--	244.91	--
MW-12	4/8/2009	257.84	17.04	NP	--	240.80	--
MW-12	7/8/2009	257.84	13.67	NP	--	244.17	--
MW-12	10/6/2009	257.84	14.25	NP	--	243.59	--
MW-12	1/6/2010	257.84	12.09	NP	--	245.75	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
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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-12	5/25/2010	257.84	12.37	NP	--	245.47	--
MW-12	8/19/2010	257.84	13.30	NP	--	244.54	--
MW-12	12/7/2010	257.84	12.28	NP	--	245.56	--
MW-12	1/26/2011	257.84	10.83	NP	--	247.01	--
MW-12	6/16/2011	257.84	12.20	NP	--	245.64	--
MW-12	9/22/2011	257.84	16.41	NP	--	241.43	--
MW-12	12/6/2011	257.84	17.17	NP	--	240.67	--
MW-12	3/8/2012	257.84	14.07	NP	--	243.77	--
MW-12	6/19/2012	257.84	12.23	NP	--	245.61	--
MW-12	9/21/2012	257.84	13.63	NP	--	244.21	--
MW-12	12/11/2012	257.84	10.10	NP	--	247.74	--
MW-12	6/27/2013	257.84	12.58	NP	--	245.26	--
MW-12	9/26/2013	257.84	13.45	NP	--	244.39	--
MW-12	11/15/2013	257.84	12.50	NP	--	245.34	--
MW-12	2/13/2014	257.84	12.19	NP	--	245.65	--
MW-12	4/2/2014	257.84	10.28	NP	--	247.56	--
MW-12	7/11/2014	257.84	12.69	NP	--	245.15	--
MW-12	10/22/2014	257.84	13.08	NP	--	244.76	--
MW-12	1/21/2015	257.84	11.59	NP	--	246.25	--
MW-12	12/16/2015	257.84	10.76	NP	--	247.08	--
MW-12	3/11/2016	257.84	10.08	NP	--	247.76	--
MW-12	6/1/2016	257.84	12.51	NP	--	245.33	--
MW-12	8/29/2016	257.84	13.71	NP	--	244.13	--
MW-12	11/21/2016	257.84	11.20	NP	--	246.64	--
MW-12	2/15/2017	257.84	9.90	NP	--	247.94	--
MW-12	4/7/2017	257.84	9.05	NP	--	248.79	--
MW-12	5/26/2017	257.84	11.05	NP	--	246.79	--
MW-12	10/17/2017	257.84	13.60	NP	--	244.24	--
MW-12	2/8/2018	257.84	9.87	NP	--	247.97	--
MW-12	9/11/2018	257.84	13.57	NP	--	244.27	--
MW-12	11/15/2018	257.84	13.10	NP	--	244.74	--
MW-12	1/29/2019	257.84	11.50	NP	--	246.34	--
MW-12	9/26/2019	257.84	13.42	NP	--	244.42	--
MW-12	3/9/2020	257.84	11.44	NP	--	246.40	--
MW-12	9/28/2020	257.84	13.49	NP	--	244.35	--
MW-12	3/23/2021	257.84	11.47	NP	--	246.37	--
MW-12	9/28/2021	257.84	13.92	NP	--	243.92	--
MW-12	11/8/2021	257.84	12.33	NP	--	245.51	--
MW-12	12/13/2021	257.84	10.87	NP	--	246.97	--
MW-13	9/26/2019	258.01	13.34	NP	--	244.67	--
MW-13	3/9/2020	258.01	11.37	NP	--	246.64	--
MW-13	9/28/2020	258.01	13.36	NP	--	244.65	--
MW-13	3/23/2021	258.01	11.23	NP	--	246.78	--
MW-13	9/28/2021	258.01	13.79	NP	--	244.22	--
MW-13	11/8/2021	258.01	11.89	NP	--	246.12	--
MW-14	9/26/2019	258.27	6.08	NP	--	252.19	--
MW-14	3/9/2020	258.27	5.40	NP	--	252.87	--
MW-14	9/28/2020	258.27	6.00	NP	--	252.27	--

Table 1
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ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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-14	3/23/2021	258.27	5.04	NP	--	253.23	--
MW-14	9/28/2021	--	--	--	--	--	--
MW-15	9/26/2019	258.25	13.92	NP	--	244.33	--
MW-15	3/9/2020	258.25	12.10	NP	--	246.15	--
MW-15	9/28/2020	258.25	--	--	--	--	WI
MW-15	3/23/2021	258.25	12.14	NP	--	246.11	--
MW-15	9/28/2021	--	--	--	--	--	--
MW-15	11/8/2021	258.25	12.58	NP	--	245.67	--
MW-16	9/26/2019	259.53	16.41	NP	--	243.12	--
MW-16	3/9/2020	259.53	12.13	NP	--	247.40	--
MW-16	9/28/2020	259.53	16.48	NP	--	243.05	--
MW-16	3/23/2021	259.53	12.13	NP	--	247.40	--
MW-16	9/28/2021	259.53	17.03	NP	--	242.50	--
MW-17	12/14/2020	253.47	11.10	NP	--	242.37	--
MW-17	3/23/2021	253.47	10.26	NP	--	243.21	--
MW-17	9/28/2021	253.47	12.39	NP	--	241.08	--
MW-18	12/14/2020	249.67	8.47	NP	--	241.20	--
MW-18	3/23/2021	249.67	7.54	NP	--	242.13	--
MW-18	9/28/2021	249.67	10.03	NP	--	239.64	--
MW-19	12/14/2020	249.21	8.17	NP	--	241.04	--
MW-19	3/23/2021	249.21	7.21	NP	--	242.00	--
MW-19	9/28/2021	249.21	9.60	NP	--	239.61	--
MW-19	11/8/2021	249.21	7.87	NP	--	241.34	--
MW-20	9/28/2021	261.36	16.42	NP	--	244.94	--
MW-21	9/28/2021	261.26	10.83	NP	--	250.43	--
VP-1	10/5/1994	--	15.20	NP	--	--	--
VP-1	2/15/1995	--	12.47	NP	--	--	--
VP-1	4/11/1995	--	13.44	NP	--	--	--
VP-1	7/20/1995	--	14.00	NP	--	--	--
VP-1	10/26/1995	--	14.08	NP	--	--	--
VP-1	1/23/1996	--	11.97	NP	--	--	--
VP-1	4/17/1996	--	12.80	NP	--	--	--
VP-1	7/8/1996	--	11.45	NP	--	--	--
VP-1	10/10/1996	--	14.17	NP	--	--	--
VP-1	3/11/1997	--	12.10	NP	--	--	--
VP-1	5/29/1997	--	11.11	NP	--	--	--
VP-1	8/5/1997	--	12.01	NP	--	--	--
VP-1	10/23/1997	--	14.11	NP	--	--	--
VP-1	3/11/1998	--	9.88	NP	--	--	--
VP-1	6/30/1998	--	14.14	NP	--	--	--
VP-1	9/25/1998	--	14.08	NP	--	--	--
VP-1	12/29/1998	--	11.50	NP	--	--	--

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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
VP-1	3/9/1999	--	10.55	NP	--	--	--
VP-1	6/2/1999	--	12.35	NP	--	--	--
VP-1	9/27/1999	--	13.72	NP	--	--	--
VP-1	12/20/1999	--	11.40	NP	--	--	--
VP-1	3/16/2000	--	12.60	NP	--	--	--
VP-1	6/30/2000	--	13.54	NP	--	--	--
VP-1	9/27/2000	--	14.49	NP	--	--	--
VP-1	11/10/2000	--	13.91	NP	--	--	--
VP-1	3/19/2001	--	13.40	NP	--	--	--
VP-1	6/27/2001	--	13.75	NP	--	--	--
VP-1	9/26/2001	--	14.25	NP	--	--	WI
VP-1	12/3/2001	--	12.48	NP	--	--	--
VP-1	6/6/2002	--	13.30	NP	--	--	--
VP-1	6/26/2003	--	13.85	NP	--	--	--
VP-1	12/9/2003	--	12.70	NP	--	--	--
VP-1	4/7/2004	--	12.43	NP	--	--	--
VP-1	11/16/2004	--	13.15	NP	--	--	--
VP-1	3/29/2005	--	12.40	NP	--	--	--
VP-1	6/22/2005	--	12.98	NP	--	--	--
VP-1	9/12/2005	--	14.05	NP	--	--	--
VP-1	12/6/2005	--	13.65	NP	--	--	--
VP-1	6/5/2006	--	11.81	NP	--	--	--
VP-1	9/29/2006	--	17.48	NP	--	--	--
VP-1	12/19/2006	--	11.17	NP	--	--	--
VP-1	9/24/2007	--	13.87	NP	--	--	--
VP-1	12/31/2007	--	--	--	--	--	WI
VP-1	1/30/2008	--	13.08	NP	--	--	--
VP-1	4/2/2008	--	15.55	NP	--	--	--
VP-1	7/1/2008	--	15.18	NP	--	--	--
VP-1	10/3/2008	--	17.58	NP	--	--	--
VP-1	1/6/2009	--	17.07	NP	--	--	--
VP-1	4/8/2009	--	16.64	NP	--	--	--
VP-1	7/8/2009	--	14.08	NP	--	--	--
VP-1	10/6/2009	--	14.85	NP	--	--	--
VP-1	1/6/2010	--	13.51	NP	--	--	--
VP-1	5/25/2010	--	13.03	NP	--	--	--
VP-1	8/19/2010	--	13.93	NP	--	--	--
VP-1	12/7/2010	--	13.07	NP	--	--	--
VP-1	1/26/2011	--	11.40	NP	--	--	--
VP-1	6/16/2011	--	13.09	NP	--	--	--
VP-1	9/22/2011	--	15.67	NP	--	--	--
VP-1	12/6/2011	--	16.10	NP	--	--	--
VP-1	3/8/2012	--	14.32	NP	--	--	--
VP-1	6/19/2012	--	13.25	NP	--	--	--
VP-1	9/21/2012	--	14.25	NP	--	--	--
VP-1	12/11/2012	--	13.43	NP	--	--	--
VP-1D	6/26/2013	--	13.42	NP	--	--	--
VP-1D	9/26/2013	--	14.11	NP	--	--	--
VP-1D	11/15/2013	--	13.16	NP	--	--	--

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		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
VP-1D	2/13/2014	--	13.25	NP	--	--	--
VP-1D	4/1/2014	--	11.98	NP	--	--	--
VP-1D	7/9/2014	--	13.70	NP	--	--	--
VP-1D	10/20/2014	--	13.81	NP	--	--	--
VP-1D	1/19/2015	--	12.02	NP	--	--	--
VP-1D	12/14/2015	--	12.10	NP	--	--	--
VP-1D	3/10/2016	--	9.52	NP	--	--	--
VP-1S	6/26/2013	--	12.89	NP	--	--	--
VP-1S	9/26/2013	--	14.01	NP	--	--	--
VP-1S	11/15/2013	--	13.45	NP	--	--	--
VP-1S	2/12/2014	--	12.97	NP	--	--	--
VP-1S	4/1/2014	--	10.99	NP	--	--	--
VP-1S	7/9/2014	--	13.35	NP	--	--	--
VP-1S	10/20/2014	--	13.71	NP	--	--	--
VP-1S	1/19/2015	--	11.96	NP	--	--	--
VP-2	10/5/1994	--	14.64	NP	--	--	--
VP-2	2/15/1995	--	14.77	NP	--	--	--
VP-2	4/10/1995	--	13.24	NP	--	--	--
VP-2	7/20/1995	--	13.43	NP	--	--	--
VP-2	10/26/1995	--	13.67	NP	--	--	--
VP-2	1/23/1996	--	11.80	NP	--	--	--
VP-2	4/17/1996	--	14.95	NP	--	--	--
VP-2	7/8/1996	--	12.40	NP	--	--	--
VP-2	10/10/1996	--	16.96	NP	--	--	--
VP-2	3/11/1997	--	10.98	NP	--	--	--
VP-2	5/29/1997	--	10.03	NP	--	--	--
VP-2	8/5/1997	--	13.08	NP	--	--	--
VP-2	10/23/1997	--	14.21	NP	--	--	--
VP-2	3/11/1998	--	10.11	NP	--	--	--
VP-2	6/30/1998	--	13.74	NP	--	--	--
VP-2	9/25/1998	--	13.67	NP	--	--	--
VP-2	12/29/1998	--	11.00	NP	--	--	--
VP-2	3/9/1999	--	10.19	NP	--	--	--
VP-2	6/2/1999	--	11.99	NP	--	--	--
VP-2	9/27/1999	--	13.55	NP	--	--	--
VP-2	12/20/1999	--	10.97	NP	--	--	--
VP-2	3/16/2000	--	11.66	NP	--	--	--
VP-2	6/30/2000	--	12.76	NP	--	--	--
VP-2	9/27/2000	--	14.68	NP	--	--	--
VP-2	11/10/2000	--	13.79	NP	--	--	--
VP-2	3/19/2001	--	13.70	NP	--	--	--
VP-2	6/27/2001	--	13.10	NP	--	--	--
VP-2	9/26/2001	--	13.86	NP	--	--	WI
VP-2	12/3/2001	--	13.05	NP	--	--	--
VP-2	6/6/2002	--	12.70	NP	--	--	--
VP-2	6/26/2003	--	15.34	NP	--	--	--
VP-2	12/9/2003	--	13.08	NP	--	--	--
VP-2	4/7/2004	--	12.35	NP	--	--	--

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		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
VP-2	11/16/2004	--	13.15	NP	--	--	--
VP-2	3/29/2005	--	12.40	NP	--	--	--
VP-2	6/22/2005	--	15.51	NP	--	--	--
VP-2	9/12/2005	--	16.72	NP	--	--	--
VP-2	12/6/2005	--	12.80	NP	--	--	--
VP-2	6/5/2006	--	11.94	NP	--	--	--
VP-2	9/24/2007	--	15.29	NP	--	--	--
VP-2	12/31/2007	--	--	--	--	--	WI
VP-2	1/30/2008	--	14.11	NP	--	--	--
VP-2	4/2/2008	--	16.37	NP	--	--	--
VP-2	7/1/2008	--	13.17	NP	--	--	--
VP-2	10/3/2008	--	14.10	NP	--	--	--
VP-2	1/6/2009	--	17.02	NP	--	--	--
VP-2	4/8/2009	--	13.72	NP	--	--	--
VP-2	9/22/2011	--	16.46	NP	--	--	--
VP-2D	6/26/2013	--	14.43	NP	--	--	--
VP-2D	9/25/2013	--	15.09	NP	--	--	--
VP-2D	11/15/2013	--	14.68	NP	--	--	--
VP-2D	2/13/2014	--	14.20	NP	--	--	--
VP-2D	4/1/2014	--	12.34	NP	--	--	--
VP-2D	7/9/2014	--	14.69	NP	--	--	--
VP-2D	10/20/2014	--	14.96	NP	--	--	--
VP-2D	1/19/2015	--	13.00	NP	--	--	--
VP-2D	12/14/2015	--	12.61	NP	--	--	--
VP-2D	3/10/2016	--	12.62	NP	--	--	--
VP-2S	6/26/2013	--	12.67	NP	--	--	--
VP-2S	9/25/2013	--	13.21	NP	--	--	--
VP-2S	11/15/2013	--	13.05	NP	--	--	--
VP-2S	2/12/2014	--	12.63	NP	--	--	--
VP-2S	4/1/2014	--	11.31	NP	--	--	--
VP-2S	7/9/2014	--	12.07	NP	--	--	--
VP-2S	10/20/2014	--	12.89	NP	--	--	--
VP-2S	1/19/2015	--	11.70	NP	--	--	--
BV-1	4/11/1995	--	6.57	NP	--	--	--
BV-1	7/20/1995	--	7.38	NP	--	--	--
BV-1	10/26/1995	--	6.98	NP	--	--	--
BV-1	1/23/1996	--	5.49	NP	--	--	--
BV-1	4/17/1996	--	6.75	NP	--	--	--
BV-1	7/8/1996	--	7.00	NP	--	--	--
BV-1	10/10/1996	--	7.36	NP	--	--	--
BV-1	3/11/1997	--	5.12	NP	--	--	--
BV-1	5/29/1997	--	6.02	NP	--	--	--
BV-1	8/5/1997	--	6.92	NP	--	--	--
BV-1	10/23/1997	--	7.17	NP	--	--	--
BV-1	3/11/1998	--	5.65	NP	--	--	--
BV-1	6/30/1998	--	7.34	NP	--	--	--
BV-1	9/25/1998	--	8.01	NP	--	--	--

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		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
BV-1	12/29/1998	--	7.00	NP	--	--	--
BV-1	3/9/1999	--	6.51	NP	--	--	--
BV-1	6/2/1999	--	7.30	NP	--	--	--
BV-1	9/27/1999	--	7.62	NP	--	--	--
BV-1	12/20/1999	--	6.40	NP	--	--	--
BV-1	6/30/2000	--	7.38	NP	--	--	--
BV-1	9/27/2000	--	7.87	NP	--	--	--
BV-1	11/10/2000	--	6.75	NP	--	--	--
BV-1	3/19/2001	--	6.54	NP	--	--	--
BV-1	6/25/2013	--	7.04	NP	--	--	--
BV-1	9/25/2013	--	7.36	NP	--	--	--
BV-1	11/14/2013	--	7.05	NP	--	--	--
BV-1	2/13/2014	--	6.69	NP	--	--	--
BV-1	4/1/2014	--	5.89	NP	--	--	--
BV-1	7/9/2014	--	7.05	NP	--	--	--
BV-1	10/20/2014	--	7.20	NP	--	--	--
BV-1	1/19/2015	--	6.42	NP	--	--	--
BV-2	4/10/1995	--	8.83	NP	--	--	--
BV-2	10/26/1995	--	9.67	NP	--	--	--
BV-2	1/23/1996	--	7.76	NP	--	--	--
BV-2	4/17/1996	--	9.10	NP	--	--	--
BV-2	7/8/1996	--	9.25	NP	--	--	--
BV-2	10/10/1996	--	9.63	NP	--	--	--
BV-2	3/11/1997	--	7.31	NP	--	--	--
BV-2	5/29/1997	--	7.01	NP	--	--	--
BV-2	8/5/1997	--	8.06	NP	--	--	--
BV-2	10/23/1997	--	11.03	NP	--	--	--
BV-2	3/11/1998	--	7.76	NP	--	--	--
BV-2	6/30/1998	--	9.29	NP	--	--	--
BV-2	9/25/1998	--	10.16	NP	--	--	--
BV-2	12/29/1998	--	8.92	NP	--	--	--
BV-2	3/9/1999	--	8.33	NP	--	--	--
BV-2	6/2/1999	--	9.32	NP	--	--	--
BV-2	9/27/1999	--	9.37	NP	--	--	--
BV-2	12/20/1999	--	7.59	NP	--	--	--
BV-2	6/30/2000	--	9.40	NP	--	--	--
BV-2	9/27/2000	--	10.08	NP	--	--	--
BV-2	11/10/2000	--	8.86	NP	--	--	--
BV-2	3/19/2001	--	8.78	NP	--	--	--
BV-2	6/25/2013	--	9.66	NP	--	--	--
BV-2	9/25/2013	--	10.23	NP	--	--	--
BV-2	11/14/2013	--	8.78	NP	--	--	--
BV-2	2/13/2014	--	6.74	NP	--	--	--
BV-2	4/1/2014	--	5.75	NP	--	--	--
BV-2	7/9/2014	--	9.83	NP	--	--	--
BV-2	10/20/2014	--	10.10	NP	--	--	--
BV-2	1/19/2015	--	8.83	NP	--	--	--
BV-2	12/14/2015	--	7.57	NP	--	--	--
BV-2	3/10/2016	--	5.96	NP	--	--	--

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BV-3	3/3/1995	--	11.40	NP	--	--	--
BV-3	4/10/1995	--	11.79	NP	--	--	--
BV-3	7/20/1995	--	11.15	NP	--	--	--
BV-3	10/26/1995	--	11.44	NP	--	--	--
BV-3	1/23/1996	--	10.65	NP	--	--	--
BV-3	4/17/1996	--	6.61	NP	--	--	--
BV-3	7/8/1996	--	10.72	NP	--	--	--
BV-3	10/10/1996	--	8.40	NP	--	--	--
BV-3	3/11/1997	--	12.07	NP	--	--	--
BV-3	5/29/1997	--	9.13	NP	--	--	--
BV-3	8/5/1997	--	9.53	NP	--	--	--
BV-3	10/23/1997	--	9.06	NP	--	--	--
BV-3	3/11/1998	--	7.00	NP	--	--	--
BV-3	6/30/1998	--	7.68	NP	--	--	--
BV-3	9/25/1998	--	8.00	NP	--	--	--
BV-3	12/29/1998	--	9.34	NP	--	--	--
BV-3	3/9/1999	--	5.39	NP	--	--	--
BV-3	6/2/1999	--	12.85	NP	--	--	--
BV-3	9/27/1999	--	9.55	NP	--	--	--
BV-3	12/20/1999	--	9.90	NP	--	--	--
BV-3	3/16/2000	--	8.15	NP	--	--	--
BV-3	6/30/2000	--	12.16	NP	--	--	--
BV-3	9/27/2000	--	14.52	NP	--	--	--
BV-3	11/10/2000	--	13.39	NP	--	--	--
BV-3	3/19/2001	--	13.30	NP	--	--	--
BV-3	6/25/2013	--	14.30	NP	--	--	--
BV-3	9/25/2013	--	15.15	NP	--	--	--
BV-3	11/14/2013	--	14.42	NP	--	--	--
BV-3	2/13/2014	--	13.75	NP	--	--	--
BV-3	4/1/2014	--	12.01	NP	--	--	--
BV-3	7/9/2014	--	14.65	NP	--	--	--
BV-3	10/20/2014	--	14.87	NP	--	--	--
BV-3	1/19/2015	--	13.41	NP	--	--	--
BV-4	4/10/1995	--	--	--	--	--	Dry
BV-4	7/20/1995	--	--	--	--	--	Dry
BV-4	10/26/1995	--	--	--	--	--	Dry
BV-4	1/23/1996	--	9.51	NP	--	--	--
BV-4	4/17/1996	--	--	--	--	--	Dry
BV-4	7/8/1996	--	--	--	--	--	Dry
BV-4	10/10/1996	--	8.35	NP	--	--	--
BV-4	3/11/1997	--	9.96	NP	--	--	--
BV-4	5/29/1997	--	8.40	NP	--	--	--
BV-4	8/5/1997	--	9.40	NP	--	--	--
BV-4	10/23/1997	--	12.16	NP	--	--	--
BV-4	3/11/1998	--	8.86	NP	--	--	--
BV-4	6/30/1998	--	6.54	NP	--	--	--
BV-4	12/29/1998	--	9.01	NP	--	--	--
BV-4	9/27/1999	--	9.58	NP	--	--	--
BV-4	12/20/1999	--	--	--	--	--	Dry

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BV-4	3/16/2000	--	6.47	NP	--	--	--
BV-4	6/30/2000	--	--	--	--	--	Dry
BV-4	9/27/2000	--	--	--	--	--	Dry
BV-4	11/10/2000	--	--	--	--	--	Dry
BV-4	3/19/2001	--	--	--	--	--	Dry
BV-4	6/25/2013	--	--	--	--	--	Dry
BV-4	9/25/2013	--	--	--	--	--	Dry
BV-4	11/14/2013	--	--	--	--	--	Dry
BV-4	2/13/2014	--	10.02	NP	--	--	--
BV-4	4/1/2014	--	9.09	NP	--	--	--
BV-4	7/9/2014	--	--	--	--	--	Dry
BV-4	10/20/2014	--	--	--	--	--	Dry
BV-4	1/19/2015	--	--	--	--	--	WI
BV-5	3/3/1995	--	9.16	NP	--	--	--
BV-5	4/10/1995	--	9.21	NP	--	--	--
BV-5	7/20/1995	--	9.45	NP	--	--	--
BV-5	10/26/1995	--	9.76	NP	--	--	--
BV-5	1/23/1996	--	8.49	NP	--	--	--
BV-5	4/17/1996	--	9.32	NP	--	--	--
BV-5	7/8/1996	--	10.00	NP	--	--	--
BV-5	10/10/1996	--	10.25	NP	--	--	--
BV-5	3/11/1997	--	7.96	NP	--	--	--
BV-5	5/29/1997	--	6.91	NP	--	--	--
BV-5	8/5/1997	--	9.75	NP	--	--	--
BV-5	10/23/1997	--	9.63	NP	--	--	--
BV-5	3/11/1998	--	--	--	--	--	Dry
BV-5	6/30/1998	--	--	--	--	--	Dry
BV-5	9/25/1998	--	--	--	--	--	Dry
BV-5	12/29/1998	--	10.04	NP	--	--	--
BV-5	3/9/1999	--	--	--	--	--	Dry
BV-5	6/2/1999	--	--	--	--	--	Dry
BV-5	9/27/1999	--	10.41	NP	--	--	--
BV-5	12/20/1999	--	9.30	NP	--	--	--
BV-5	3/16/2000	--	10.00	NP	--	--	--
BV-5	6/30/2000	--	--	--	--	--	Dry
BV-5	9/27/2000	--	--	--	--	--	Dry
BV-5	11/10/2000	--	9.55	NP	--	--	--
BV-5	3/19/2001	--	9.47	NP	--	--	--
BV-5	6/27/2001	--	10.30	NP	--	--	--
BV-5	9/26/2001	--	--	--	--	--	Dry
BV-5	6/25/2013	--	9.31	NP	--	--	--
BV-5	9/25/2013	--	9.60	NP	--	--	--
BV-5	11/14/2013	--	9.21	NP	--	--	--
BV-5	2/13/2014	--	8.91	NP	--	--	--
BV-5	4/1/2014	--	8.31	NP	--	--	--
BV-5	7/9/2014	--	9.39	NP	--	--	--
BV-5	10/20/2014	--	9.55	NP	--	--	--
BV-5	1/19/2015	--	8.76	NP	--	--	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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
BV-6	4/10/1995	--	8.68	NP	--	--	--
BV-6	10/26/1995	--	9.13	NP	--	--	--
BV-6	1/23/1996	--	7.77	NP	--	--	--
BV-6	4/17/1996	--	8.88	NP	--	--	--
BV-6	7/8/1996	--	9.10	NP	--	--	--
BV-6	10/10/1996	--	9.30	NP	--	--	--
BV-6	3/11/1997	--	8.05	NP	--	--	--
BV-6	5/29/1997	--	7.90	NP	--	--	--
BV-6	8/5/1997	--	8.19	NP	--	--	--
BV-6	10/23/1997	--	11.27	NP	--	--	--
BV-6	3/11/1998	--	9.58	NP	--	--	--
BV-6	6/30/1998	--	10.32	NP	--	--	--
BV-6	9/25/1998	--	9.82	NP	--	--	--
BV-6	12/29/1998	--	8.94	NP	--	--	--
BV-6	3/9/1999	--	9.38	NP	--	--	--
BV-6	6/2/1999	--	9.25	NP	--	--	--
BV-6	12/20/1999	--	8.48	NP	--	--	--
BV-6	6/30/2000	--	9.38	NP	--	--	--
BV-6	9/27/2000	--	9.85	NP	--	--	--
BV-6	6/25/2013	--	9.19	NP	--	--	--
BV-6	9/25/2013	--	9.48	NP	--	--	--
BV-6	11/14/2013	--	8.99	NP	--	--	--
BV-6	2/13/2014	--	8.63	NP	--	--	--
BV-6	4/1/2014	--	7.72	NP	--	--	--
BV-6	7/9/2014	--	9.22	NP	--	--	--
BV-6	10/20/2014	--	9.34	NP	--	--	--
BV-6	1/19/2015	--	8.43	NP	--	--	--
BV-7	4/10/1995	--	17.11	15.50	1.61	--	--
BV-7	7/20/1995	--	17.97	16.34	1.63	--	--
BV-7	10/25/1995	--	16.45	16.44	0.01	--	--
BV-7	1/23/1996	--	14.79	NP	--	--	--
BV-7	4/17/1996	--	13.87	NP	--	--	--
BV-7	7/8/1996	--	12.00	NP	--	--	--
BV-7	10/10/1996	--	13.92	13.91	0.01	--	--
BV-7	3/11/1997	--	14.98	NP	--	--	--
BV-7	5/29/1997	--	12.06	NP	--	--	--
BV-7	8/5/1997	--	12.67	NP	--	--	--
BV-7	10/23/1997	--	12.54	NP	--	--	--
BV-7	3/11/1998	--	11.60	NP	--	--	--
BV-7	6/30/1998	--	12.74	NP	--	--	--
BV-7	9/25/1998	--	16.02	NP	--	--	--
BV-7	12/29/1998	--	13.03	NP	--	--	--
BV-7	3/9/1999	--	10.05	NP	--	--	--
BV-7	6/2/1999	--	15.26	NP	--	--	--
BV-7	12/20/1999	--	11.88	NP	--	--	--
BV-7	3/16/2000	--	11.65	NP	--	--	--
BV-7	6/30/2000	--	16.58	NP	--	--	--
BV-7	9/27/2000	--	--	--	--	--	Dry
BV-7	11/10/2000	--	16.81	NP	--	--	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
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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
BV-7	3/19/2001	--	16.85	NP	--	--	--
BV-7	6/27/2001	--	16.50	NP	--	--	--
BV-7	9/26/2001	--	14.50	NP	--	--	--
BV-7	6/25/2013	--	14.41	NP	--	--	--
BV-7	9/25/2013	--	15.47	NP	--	--	--
BV-7	11/14/2013	--	14.86	NP	--	--	--
BV-7	2/13/2014	--	14.27	NP	--	--	--
BV-7	4/1/2014	--	11.97	NP	--	--	--
BV-7	7/9/2014	--	14.84	NP	--	--	--
BV-7	10/20/2014	--	15.17	NP	--	--	--
BV-7	1/19/2015	--	13.14	NP	--	--	--
SVE-1	10/5/1994	--	15.37	NP	--	--	--
SVE-1	2/15/1995	--	12.18	NP	--	--	--
SVE-1	4/10/1995	--	12.05	NP	--	--	--
SVE-1	7/20/1995	--	13.95	NP	--	--	--
SVE-1	10/25/1995	--	14.23	NP	--	--	--
SVE-1	1/23/1996	--	11.45	NP	--	--	--
SVE-1	4/17/1996	--	12.38	NP	--	--	--
SVE-1	10/10/1996	--	13.97	NP	--	--	--
SVE-1	3/11/1997	--	12.32	NP	--	--	--
SVE-1	5/29/1997	--	10.19	NP	--	--	--
SVE-1	8/5/1997	--	15.82	NP	--	--	--
SVE-1	10/23/1997	--	11.26	NP	--	--	--
SVE-1	3/11/1998	--	10.27	NP	--	--	--
SVE-1	6/30/1998	--	14.04	NP	--	--	--
SVE-1	9/25/1998	--	14.12	NP	--	--	--
SVE-1	12/29/1998	--	11.99	NP	--	--	--
SVE-1	3/9/1999	--	10.15	NP	--	--	--
SVE-1	6/2/1999	--	12.19	NP	--	--	--
SVE-1	12/20/1999	--	11.65	NP	--	--	--
SVE-1	3/16/2000	--	12.85	NP	--	--	--
SVE-1	6/30/2000	--	13.38	NP	--	--	--
SVE-1	9/27/2000	--	14.62	NP	--	--	--
SVE-1	11/10/2000	--	14.30	NP	--	--	--
SVE-1	3/19/2001	--	13.20	NP	--	--	--
SVE-1	6/27/2001	--	13.70	NP	--	--	--
SVE-1	9/26/2001	--	14.55	NP	--	--	--
SVE-1	12/3/2001	--	12.90	NP	--	--	--
SVE-1	6/6/2002	--	12.85	NP	--	--	--
SVE-1	6/26/2003	--	13.45	NP	--	--	--
SVE-1	12/9/2003	--	13.00	NP	--	--	--
SVE-1	4/7/2004	--	12.33	NP	--	--	--
SVE-1	11/16/2004	--	13.80	NP	--	--	--
SVE-1	12/6/2005	--	13.20	NP	--	--	--
SVE-1	6/5/2006	--	12.23	NP	--	--	--
SVE-1	12/19/2006	--	10.79	NP	--	--	--
SVE-1	9/24/2007	--	14.04	NP	--	--	--
SVE-1	12/31/2007	--	11.60	NP	--	--	--
SVE-1	1/30/2008	--	11.44	NP	--	--	--

Table 1
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ARCO Facilty No. 980
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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
SVE-1	4/2/2008	--	14.74	NP	--	--	--
SVE-1	7/1/2008	--	14.52	NP	--	--	--
SVE-1	10/3/2008	--	16.18	NP	--	--	--
SVE-1	1/6/2009	--	15.08	NP	--	--	--
SVE-1	4/8/2009	--	14.42	NP	--	--	--
SVE-1	6/26/2013	--	12.44	NP	--	--	--
SVE-1	9/26/2013	--	14.03	NP	--	--	--
SVE-1	11/15/2013	--	13.48	NP	--	--	--
SVE-1	2/13/2014	--	12.82	NP	--	--	--
SVE-1	4/1/2014	--	9.92	NP	--	--	--
SVE-1	7/9/2014	--	12.69	NP	--	--	--
SVE-1	10/20/2014	--	13.87	NP	--	--	--
SVE-1	1/19/2015	--	11.14	NP	--	--	--
SVE-2	10/5/1994	--	16.85	NP	--	--	--
SVE-2	2/15/1995	--	13.59	NP	--	--	--
SVE-2	4/11/1995	--	13.38	NP	--	--	--
SVE-2	7/20/1995	--	15.40	NP	--	--	--
SVE-2	10/25/1995	--	15.70	NP	--	--	--
SVE-2	1/23/1996	--	12.70	NP	--	--	--
SVE-2	4/17/1996	--	13.77	NP	--	--	--
SVE-2	7/8/1996	--	14.00	NP	--	--	--
SVE-2	10/10/1996	--	15.38	NP	--	--	--
SVE-2	3/11/1997	--	12.52	NP	--	--	--
SVE-2	5/29/1997	--	10.71	NP	--	--	--
SVE-2	8/5/1997	--	16.11	NP	--	--	--
SVE-2	10/23/1997	--	12.62	NP	--	--	--
SVE-2	3/11/1998	--	11.81	NP	--	--	--
SVE-2	6/30/1998	--	15.94	NP	--	--	--
SVE-2	9/25/1998	--	15.57	NP	--	--	--
SVE-2	12/29/1998	--	13.57	NP	--	--	--
SVE-2	3/9/1999	--	11.09	NP	--	--	--
SVE-2	6/2/1999	--	13.56	NP	--	--	--
SVE-2	12/20/1999	--	13.45	NP	--	--	--
SVE-2	3/16/2000	--	13.15	NP	--	--	--
SVE-2	6/30/2000	--	14.75	NP	--	--	--
SVE-2	9/27/2000	--	16.01	NP	--	--	--
SVE-2	11/10/2000	--	15.75	NP	--	--	--
SVE-2	3/19/2001	--	14.40	NP	--	--	--
SVE-2	12/19/2006	--	11.84	NP	--	--	--
SVE-2	6/26/2013	--	13.95	NP	--	--	--
SVE-2	9/25/2013	--	15.59	NP	--	--	--
SVE-2	11/15/2013	--	15.09	NP	--	--	--
SVE-2	2/13/2014	--	14.44	NP	--	--	--
SVE-2	4/1/2014	--	11.15	NP	--	--	--
SVE-2	7/9/2014	--	14.17	NP	--	--	--
SVE-2	10/20/2014	--	15.43	NP	--	--	--
SVE-2	1/19/2015	--	12.50	NP	--	--	--
SVE-2	12/14/2015	--	12.38	NP	--	--	--
SVE-2	3/10/2016	--	10.43	NP	--	--	--

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ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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
SVE-3	5/29/1997	--	5.31	NP	--	--	--
SVE-3	8/5/1997	--	6.48	NP	--	--	--
SVE-3	10/23/1997	--	4.67	NP	--	--	--
SVE-3	3/11/1998	--	8.24	NP	--	--	--
SVE-3	6/30/1998	--	5.52	NP	--	--	--
SVE-3	9/25/1998	--	9.02	NP	--	--	--
SVE-3	12/29/1998	--	6.64	NP	--	--	--
SVE-3	6/2/1999	--	9.04	NP	--	--	--
SVE-3	12/20/1999	--	8.15	NP	--	--	--
SVE-3	6/30/2000	--	--	--	--	--	Dry
SVE-3	9/27/2000	--	--	--	--	--	Dry
SVE-3	11/10/2000	--	8.02	NP	--	--	--
SVE-3	3/19/2001	--	7.95	7.94	0.01	--	--
SVE-3	6/27/2001	--	8.50	NP	--	--	--
SVE-3	9/26/2001	--	6.75	NP	--	--	WI
SVE-3	12/3/2001	--	7.86	NP	--	--	--
SVE-3	6/6/2002	--	8.60	NP	--	--	--
SVE-3	6/26/2003	--	10.27	NP	--	--	--
SVE-3	12/9/2003	--	7.71	NP	--	--	--
SVE-3	4/7/2004	--	7.41	NP	--	--	--
SVE-3	11/16/2004	--	7.60	NP	--	--	--
SVE-3	3/29/2005	--	6.31	NP	--	--	--
SVE-3	6/22/2005	--	7.47	NP	--	--	--
SVE-3	9/12/2005	--	8.46	NP	--	--	IW
SVE-3	12/6/2005	--	6.04	NP	--	--	--
SVE-3	6/5/2006	--	6.00	NP	--	--	--
SVE-3	12/19/2006	--	6.20	NP	--	--	--
SVE-3	9/24/2007	--	8.49	NP	--	--	--
SVE-3	12/31/2007	--	--	--	--	--	WI
SVE-3	1/30/2008	--	8.52	NP	--	--	--
SVE-3	4/2/2008	--	--	--	--	--	Dry
SVE-3	7/1/2008	--	--	--	--	--	Dry
SVE-3	10/3/2008	--	--	--	--	--	Dry
SVE-3	1/6/2009	--	--	--	--	--	Dry
SVE-3	4/7/2009	--	--	--	--	--	Dry
SVE-3	7/8/2009	--	9.21	NP	--	--	--
SVE-3	10/6/2009	--	--	--	--	--	Dry
SVE-3	1/5/2010	--	8.36	NP	--	--	IW
SVE-3	5/25/2010	--	8.51	NP	--	--	--
SVE-3	8/19/2010	--	--	--	--	--	Dry
SVE-3	12/7/2010	--	8.30	NP	--	--	--
SVE-3	1/26/2011	--	7.82	NP	--	--	--
SVE-3	6/16/2011	--	8.22	NP	--	--	--
SVE-3	9/22/2011	--	--	--	--	--	Dry
SVE-3	12/6/2011	--	--	--	--	--	Dry
SVE-3	3/8/2012	--	--	--	--	--	Dry
SVE-3	6/19/2012	--	8.30	NP	--	--	--
SVE-3	9/21/2012	--	--	--	--	--	Dry
SVE-3	12/11/2012	--	--	--	--	--	Dry
SVE-3	6/25/2013	--	8.22	NP	--	--	--

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10822 Roosevelt Way NE Seattle, Washington 98125

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
SVE-3	9/25/2013	--	8.50	NP	--	--	--
SVE-3	11/14/2013	--	8.10	NP	--	--	--
SVE-3	2/13/2014	--	7.78	NP	--	--	--
SVE-3	4/1/2014	--	7.09	NP	--	--	--
SVE-3	7/9/2014	--	8.15	NP	--	--	--
SVE-3	1/19/2015	--	7.20	NP	--	--	--
AS-1	7/20/1995	--	14.43	NP	--	--	--
AS-2	2/15/1995	--	14.33	NP	--	--	--
AS-2	7/20/1995	--	16.23	NP	--	--	--
AS-3	10/5/1994	--	17.10	NP	--	--	--
AS-3	2/15/1995	--	14.81	NP	--	--	--
AS-3	4/10/1995	--	14.64	NP	--	--	--
AS-3	7/20/1995	--	15.80	NP	--	--	--
B1 (JPHC)	2/15/1995	--	14.72	11.45	3.27	--	--
B1 (JPHC)	7/20/1995	--	14.63	14.37	0.26	--	--
B1 (JPHC)	10/25/1995	--	14.20	NP	--	--	--
B1 (JPHC)	1/23/1996	--	12.20	NP	--	--	--
B1 (JPHC)	4/17/1996	--	14.13	13.43	0.70	--	--
B1 (JPHC)	7/8/1996	257.71	13.10	NP	--	244.61	--
B1 (JPHC)	10/10/1996	257.71	14.40	NP	--	243.31	--
B1 (JPHC)	3/11/1997	257.71	8.67	NP	--	249.04	--
B1 (JPHC)	5/29/1997	257.71	9.06	NP	--	248.65	--
B1 (JPHC)	8/5/1997	257.71	9.28	NP	--	248.43	--
B1 (JPHC)	10/23/1997	257.71	9.40	NP	--	248.31	--
B1 (JPHC)	3/11/1998	257.71	15.02	NP	--	242.69	--
B1 (JPHC)	6/30/1998	257.71	13.41	NP	--	244.30	--
B1 (JPHC)	9/25/1998	257.71	13.67	13.59	0.08	244.10	--
B1 (JPHC)	12/29/1998	257.71	12.24	NP	--	245.47	--
B1 (JPHC)	3/9/1999	257.71	11.50	NP	--	246.21	--
B1 (JPHC)	6/2/1999	257.71	12.57	NP	--	245.14	--
B1 (JPHC)	12/20/1999	257.71	--	--	--	--	Dry
B1 (JPHC)	3/16/2000	257.71	12.00	NP	--	245.71	--
B1 (JPHC)	6/30/2000	257.71	13.56	NP	--	244.15	--
B1 (JPHC)	9/27/2000	257.71	14.02	NP	--	243.69	--
B1 (JPHC)	11/10/2000	257.71	13.59	NP	--	244.12	--
B1 (JPHC)	3/19/2001	257.71	13.47	NP	--	244.24	--
B1 (JPHC)	6/27/2001	257.71	14.90	14.89	0.01	242.82	WI
B1 (JPHC)	9/26/2001	257.71	14.25	14.24	0.01	243.47	--
B1 (JPHC)	12/3/2001	257.71	12.00	NP	--	245.71	IW
B1 (JPHC)	6/26/2003	257.71	13.91	13.61	0.30	244.03	--
B1 (JPHC)	12/9/2003	257.71	12.20	NP	--	245.51	--
B1 (JPHC)	4/7/2004	257.71	12.71	NP	--	245.00	--
B1 (JPHC)	11/16/2004	257.71	13.58	NP	--	244.13	--
B1 (JPHC)	3/29/2005	257.71	12.30	NP	--	245.41	--
B1 (JPHC)	6/22/2005	257.71	15.50	NP	--	242.21	--
B1 (JPHC)	9/12/2005	257.71	14.04	NP	--	243.67	--

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		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
B1 (JPHC)	12/6/2005	257.71	13.27	NP	--	244.44	--
B1 (JPHC)	6/5/2006	257.71	12.79	NP	--	244.92	--
B1 (JPHC)	12/19/2006	257.71	11.40	NP	--	246.31	--
B1 (JPHC)	9/24/2007	257.71	14.95	NP	--	242.76	--
B1 (JPHC)	12/31/2007	257.71	--	--	--	--	WI
B1 (JPHC)	1/30/2008	257.71	12.76	NP	--	244.95	--
B1 (JPHC)	4/3/2008	257.71	21.44	NP	--	236.27	IW
B1 (JPHC)	7/1/2008	257.71	17.62	NP	--	240.09	--
B1 (JPHC)	10/3/2008	257.71	19.15	NP	--	238.56	--
B1 (JPHC)	1/6/2009	257.71	18.50	NP	--	239.21	--
B1 (JPHC)	4/8/2009	257.71	19.79	NP	--	237.92	--
B1 (JPHC)	7/8/2009	257.71	14.12	NP	--	243.59	--
B1 (JPHC)	10/6/2009	257.71	15.70	NP	--	242.01	--
B1 (JPHC)	1/6/2010	257.71	12.68	NP	--	245.03	--
B1 (JPHC)	5/25/2010	257.71	13.12	NP	--	244.59	--
B1 (JPHC)	8/19/2010	257.71	14.04	NP	--	243.67	--
B1 (JPHC)	12/7/2010	257.71	12.87	NP	--	244.84	--
B1 (JPHC)	1/26/2011	257.71	11.58	NP	--	246.13	--
B1 (JPHC)	6/16/2011	257.71	12.84	NP	--	244.87	--
B1 (JPHC)	9/22/2011	257.71	16.09	NP	--	241.62	--
B1 (JPHC)	12/6/2011	257.71	18.31	NP	--	239.40	--
B1 (JPHC)	3/8/2012	257.71	13.30	NP	--	244.41	--
B1 (JPHC)	6/19/2012	257.71	12.98	NP	--	244.73	--
B1 (JPHC)	9/21/2012	257.71	14.19	NP	--	243.52	--
B1 (JPHC)	12/11/2012	257.71	11.16	NP	--	246.55	--
B1 (JPHC)	6/26/2013	257.71	13.20	NP	--	244.51	--
B1 (JPHC)	9/26/2013	257.71	13.90	NP	--	243.81	--
B1 (JPHC)	11/15/2013	257.71	13.20	NP	--	244.51	--
B1 (JPHC)	2/13/2014	257.71	12.72	NP	--	244.99	--
B1 (JPHC)	4/2/2014	257.71	11.21	NP	--	246.50	--
B1 (JPHC)	7/11/2014	257.71	13.37	NP	--	244.34	--
B1 (JPHC)	10/22/2014	257.71	13.73	NP	--	243.98	--
B1 (JPHC)	1/21/2015	257.71	12.10	NP	--	245.61	--
B1 (JPHC)	12/16/2015	257.71	11.42	NP	--	246.29	--
B1 (JPHC)	3/11/2016	257.71	10.85	NP	--	246.86	--
B1 (JPHC)	6/1/2016	257.71	13.11	NP	--	244.60	--
B1 (JPHC)	8/29/2016	257.71	14.18	NP	--	243.53	--
B1 (JPHC)	11/21/2016	257.71	11.70	NP	--	246.01	--
B1 (JPHC)	2/15/2017	257.71	10.75	NP	--	246.96	--
B1 (JPHC)	4/7/2017	257.71	10.85	NP	--	246.86	--
B1 (JPHC)	5/26/2017	257.71	11.87	NP	--	245.84	--
B1 (JPHC)	9/28/2017	257.71	14.05	NP	--	243.66	--
B1 (JPHC)	10/17/2017	257.71	14.04	NP	--	243.67	--
B1 (JPHC)	2/8/2018	257.71	10.66	NP	--	247.05	--
B1 (JPHC)	9/11/2018	257.71	14.02	NP	--	243.69	--
B1 (JPHC)	11/15/2018	257.71	13.50	NP	--	244.21	--
B1 (JPHC)	1/29/2019	257.71	12.03	NP	--	245.68	--
B1 (JPHC)	8/27/2019	257.71	14.05	NP	--	243.66	--
B1 (JPHC)	9/26/2019	257.71	13.78	NP	--	243.93	--
B1 (JPHC)	3/9/2020	257.71	11.95	NP	--	245.76	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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
B1 (JPHC)	9/28/2020	257.71	14.76	NP	--	242.95	--
B1 (JPHC)	3/23/2021	257.71	11.81	NP	--	245.90	--
B1 (JPHC)	9/28/2021	257.71	--	--	--	--	--
B1 (JPHC)	11/8/2021	257.71	12.44	NP	--	245.27	--
B1 (JPHC)	12/13/2021	257.71	11.41	NP	--	246.30	--
B3 (JPHC)	2/15/1995	--	13.37	NP	--	--	--
B3 (JPHC)	4/11/1995	--	13.52	NP	--	--	--
B3 (JPHC)	7/20/1995	--	15.15	NP	--	--	--
B3 (JPHC)	10/25/1995	--	14.93	NP	--	--	--
B3 (JPHC)	1/23/1996	--	12.58	NP	--	--	--
B3 (JPHC)	4/17/1996	--	13.68	NP	--	--	--
B3 (JPHC)	7/8/1996	258.41	9.21	NP	--	249.20	--
B3 (JPHC)	10/10/1996	258.41	15.50	NP	--	242.91	--
B3 (JPHC)	3/11/1997	258.41	9.41	NP	--	249.00	--
B3 (JPHC)	5/29/1997	258.41	9.22	NP	--	249.19	--
B3 (JPHC)	8/5/1997	258.41	19.57	NP	--	238.84	--
B3 (JPHC)	10/23/1997	258.41	--	--	--	--	Dry
B3 (JPHC)	3/11/1998	258.41	14.75	NP	--	243.66	--
B3 (JPHC)	6/30/1998	258.41	15.08	NP	--	243.33	--
B3 (JPHC)	9/25/1998	258.41	14.95	NP	--	243.46	--
B3 (JPHC)	12/29/1998	258.41	14.21	NP	--	244.20	--
B3 (JPHC)	3/9/1999	258.41	14.41	NP	--	244.00	--
B3 (JPHC)	6/2/1999	258.41	13.68	NP	--	244.73	--
B3 (JPHC)	12/20/1999	258.41	12.50	NP	--	245.91	--
B3 (JPHC)	3/16/2000	258.41	13.55	NP	--	244.86	--
B3 (JPHC)	6/30/2000	258.41	14.52	NP	--	243.89	--
B3 (JPHC)	9/27/2000	258.41	15.35	NP	--	243.06	--
B3 (JPHC)	11/10/2000	258.41	14.61	NP	--	243.80	--
B3 (JPHC)	3/19/2001	258.41	14.17	NP	--	244.24	--
B3 (JPHC)	6/27/2001	258.41	15.72	NP	--	242.69	--
B3 (JPHC)	9/26/2001	258.41	15.23	NP	--	243.18	WI
B3 (JPHC)	12/3/2001	258.41	13.15	NP	--	245.26	--
B3 (JPHC)	6/6/2002	258.41	14.33	NP	--	244.08	IW
B3 (JPHC)	6/26/2003	258.41	14.63	NP	--	243.78	--
B3 (JPHC)	12/9/2003	258.41	13.25	NP	--	245.16	--
B3 (JPHC)	4/7/2004	258.41	14.00	NP	--	244.41	--
B3 (JPHC)	11/16/2004	258.41	14.63	NP	--	243.78	--
B3 (JPHC)	3/29/2005	258.41	13.81	NP	--	244.60	--
B3 (JPHC)	6/22/2005	258.41	14.31	NP	--	244.10	--
B3 (JPHC)	9/12/2005	258.41	15.05	NP	--	243.36	--
B3 (JPHC)	12/6/2005	258.41	13.90	NP	--	244.51	--
B3 (JPHC)	6/5/2006	258.41	13.51	NP	--	244.90	--
B3 (JPHC)	12/19/2006	258.41	12.36	NP	--	246.05	--
B3 (JPHC)	9/24/2007	258.41	15.36	NP	--	243.05	--
B3 (JPHC)	12/31/2007	258.41	--	--	--	--	WI
B3 (JPHC)	1/29/2008	258.41	13.53	NP	--	244.88	--
B3 (JPHC)	4/3/2008	258.41	20.10	NP	--	238.31	IW
B3 (JPHC)	7/1/2008	258.41	17.84	NP	--	240.57	--
B3 (JPHC)	10/3/2008	258.41	18.76	NP	--	239.65	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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
B3 (JPHC)	1/6/2009	258.41	18.92	NP	--	239.49	--
B3 (JPHC)	4/8/2009	258.41	19.00	NP	--	239.41	--
B3 (JPHC)	7/8/2009	258.41	15.25	NP	--	243.16	--
B3 (JPHC)	10/6/2009	258.41	15.81	NP	--	242.60	--
B3 (JPHC)	1/6/2010	258.41	13.43	NP	--	244.98	--
B3 (JPHC)	5/25/2010	258.41	14.12	NP	--	244.29	--
B3 (JPHC)	8/19/2010	258.41	15.12	NP	--	243.29	--
B3 (JPHC)	12/7/2010	258.41	13.95	NP	--	244.46	--
B3 (JPHC)	1/26/2011	258.41	12.64	NP	--	245.77	--
B3 (JPHC)	6/16/2011	258.41	13.84	NP	--	244.57	--
B3 (JPHC)	9/22/2011	258.41	16.75	NP	--	241.66	--
B3 (JPHC)	12/6/2011	258.41	18.04	NP	--	240.37	--
B3 (JPHC)	3/8/2012	258.41	14.34	NP	--	244.07	--
B3 (JPHC)	6/19/2012	258.41	12.14	NP	--	246.27	--
B3 (JPHC)	9/21/2012	258.41	15.33	NP	--	243.08	--
B3 (JPHC)	12/11/2012	258.41	12.70	NP	--	245.71	--
B3 (JPHC)	6/26/2013	258.41	14.32	NP	--	244.09	--
B3 (JPHC)	9/26/2013	258.41	15.06	NP	--	243.35	--
B3 (JPHC)	11/15/2013	258.41	14.39	NP	--	244.02	--
B3 (JPHC)	2/13/2014	258.41	14.00	NP	--	244.41	--
B3 (JPHC)	4/2/2014	258.41	12.31	NP	--	246.10	--
B3 (JPHC)	7/11/2014	258.41	14.54	NP	--	243.87	--
B3 (JPHC)	10/22/2014	258.41	14.77	NP	--	243.64	--
B3 (JPHC)	1/20/2015	258.41	13.25	NP	--	245.16	--
B3 (JPHC)	12/14/2015	258.41	12.68	NP	--	245.73	--
B3 (JPHC)	3/11/2016	258.41	11.97	NP	--	246.44	--
B3 (JPHC)	8/29/2016	258.41	15.33	NP	--	243.08	--
B3 (JPHC)	11/21/2016	258.41	12.23	NP	--	246.18	--
B3 (JPHC)	2/15/2017	258.41	11.77	NP	--	246.64	--
B3 (JPHC)	5/26/2017	258.41	12.67	NP	--	245.74	--
B3 (JPHC)	10/17/2017	258.41	15.19	NP	--	243.22	--
B3 (JPHC)	2/8/2018	258.41	11.88	NP	--	246.53	--
B3 (JPHC)	9/11/2018	258.41	15.18	NP	--	243.23	--
B3 (JPHC)	11/15/2018	258.41	--	--	--	--	WI
B3 (JPHC)	1/29/2019	258.41	--	--	--	--	WI
B3 (JPHC)	9/26/2019	258.41	14.84	NP	--	243.57	--
B3 (JPHC)	3/9/2020	258.41	13.00	NP	--	245.41	--
B3 (JPHC)	9/28/2020	258.41	--	--	--	--	VO
B3 (JPHC)	3/23/2021	258.41	12.84	NP	--	245.57	--
B3 (JPHC)	9/28/2021	--	--	--	--	--	--
IW-1	3/10/2017	--	11.45	10.61	0.84	--	--
IW-1	3/17/2017	--	9.90	9.88	0.02	--	--
IW-1	3/24/2017	--	10.06	NP	--	--	--
IW-1	3/30/2017	--	10.71	NP	--	--	--
IW-1	4/7/2017	--	10.21	NP	--	--	--
IW-1	4/14/2017	--	10.51	NP	--	--	--
IW-1	4/28/2017	--	11.15	NP	--	--	--
IW-1	5/26/2017	--	11.38	11.37	0.01	--	--
IW-1	9/28/2017	--	13.63	NP	--	--	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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
IW-1	10/5/2017	--	13.71	NP	--	--	--
IW-1	10/17/2017	--	13.68	NP	--	--	--
IW-1	11/6/2017	--	13.11	NP	--	--	--
IW-1	11/17/2017	--	12.58	NP	--	--	--
IW-1	12/7/2017	--	11.28	NP	--	--	--
IW-1	1/18/2018	--	10.58	10.57	0.01	--	--
IW-1	2/8/2018	--	--	--	--	--	WI
IW-1	9/11/2018	--	--	--	--	--	WI
IW-1	11/15/2018	--	13.06	NP	--	--	--
IW-1	1/29/2019	--	12.50	NP	--	--	--
IW-1	8/27/2019	--	13.63	13.62	0.01	--	--
IW-1	9/26/2019	--	13.47	NP	--	--	--
IW-1	3/9/2020	--	11.49	NP	--	--	--
IW-1	9/28/2020	--	13.40	NP	--	--	--
IW-1	3/23/2021	--	11.43	NP	--	--	Sheen
IW-1	9/28/2021	--	14.12	NP	--	--	--
IW-2	3/10/2017	--	11.30	NP	--	--	--
IW-2	3/17/2017	--	10.46	NP	--	--	--
IW-2	3/24/2017	--	10.69	NP	--	--	--
IW-2	3/30/2017	--	10.80	NP	--	--	--
IW-2	4/7/2017	--	10.79	NP	--	--	--
IW-2	4/14/2017	--	10.80	NP	--	--	--
IW-2	4/28/2017	--	11.32	NP	--	--	--
IW-2	5/26/2017	--	11.64	NP	--	--	--
IW-2	10/17/2017	--	14.05	NP	--	--	--
IW-2	2/8/2018	--	10.59	NP	--	--	--
IW-2	9/11/2018	--	--	--	--	--	WI
IW-2	11/15/2018	--	--	--	--	--	WI
IW-2	1/29/2019	--	11.70	NP	--	--	--
IW-2	9/26/2019	--	13.79	NP	--	--	--
IW-2	3/9/2020	--	11.91	NP	--	--	--
IW-2	9/28/2020	--	13.86	NP	--	--	--
IW-2	3/23/2021	--	11.92	NP	--	--	--
IW-2	9/28/2021	--	--	--	--	--	--
IW-3	3/10/2017	--	10.55	NP	--	--	--
IW-3	3/17/2017	--	9.80	NP	--	--	--
IW-3	3/24/2017	--	9.92	NP	--	--	--
IW-3	3/30/2017	--	10.28	NP	--	--	--
IW-3	4/7/2017	--	10.07	NP	--	--	--
IW-3	4/14/2017	--	10.24	NP	--	--	--
IW-3	4/28/2017	--	10.75	NP	--	--	--
IW-3	5/26/2017	--	11.21	NP	--	--	--
IW-3	10/17/2017	--	13.52	NP	--	--	--
IW-3	2/8/2018	--	9.95	NP	--	--	--
IW-3	9/11/2018	--	13.45	NP	--	--	--
IW-3	11/15/2018	--	13.15	NP	--	--	--
IW-3	1/29/2019	--	11.61	NP	--	--	--
IW-3	8/27/2019	--	13.56	NP	--	--	--

Table 1
Groundwater Gauging Data
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

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
IW-3	9/26/2019	--	13.32	NP	--	--	--
IW-3	3/9/2020	--	11.38	NP	--	--	--
IW-3	9/28/2020	--	13.32	NP	--	--	--
IW-3	3/23/2021	--	11.32	NP	--	--	--
IW-3	9/28/2021	--	13.76	NP	--	--	--
IW-4	3/10/2017	--	10.63	NP	--	--	--
IW-4	3/17/2017	--	9.68	NP	--	--	--
IW-4	3/24/2017	--	9.78	NP	--	--	--
IW-4	3/30/2017	--	10.14	NP	--	--	--
IW-4	4/7/2017	--	9.88	NP	--	--	--
IW-4	4/14/2017	--	10.05	NP	--	--	--
IW-4	4/28/2017	--	10.68	NP	--	--	--
IW-4	5/26/2017	--	11.24	NP	--	--	--
IW-4	10/17/2017	--	13.42	NP	--	--	--
IW-4	2/8/2018	--	9.80	NP	--	--	--
IW-4	9/11/2018	--	13.39	NP	--	--	--
IW-4	11/15/2018	--	12.90	NP	--	--	--
IW-4	1/29/2019	--	11.47	NP	--	--	--
IW-4	8/27/2019	--	13.47	NP	--	--	--
IW-4	9/26/2019	--	13.24	NP	--	--	--
IW-4	3/9/2020	--	11.28	NP	--	--	--
IW-4	9/28/2020	--	13.28	NP	--	--	--
IW-4	3/23/2021	--	11.25	NP	--	--	--
IW-4	9/28/2021	--	13.74	NP	--	--	--
EX-1	8/27/2019	--	8.65	NP	--	--	--
EX-2	8/27/2019	--	6.17	NP	--	--	--
EX-4	8/27/2019	--	17.20	NP	--	--	--
EX-5	8/27/2019	--	17.33	NP	--	--	--

Notes:
TOC - Top of Casing
ft - feet
NP - No Product
LNAPL - Light Non-Aqueous Phase Liquid
* - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)
-- No Information Available
Dry - Dry Well
WI = Well Inaccessible
IW = Insufficient Water

Table 2
Groundwater Analytical Data
ARCO Facility No. 980
10822 Roosevelt Way NE, Seattle, Washington 98125

CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
Well ID	Date										
MW-1	10/5/1994	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	< 2.0	--
MW-1	2/15/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	< 2.0	--
MW-1	12/20/1999	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	--	--	--	--
MW-1	6/27/2001	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 750	--	--
MW-1	9/26/2001	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	**10,100**	**29,100**	--	--
MW-1	12/3/2001	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	--	--
MW-1	6/6/2002	< 0.500	0.602	< 0.500	< 1.00	< 2.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-1	6/26/2003	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-1	12/9/2003	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-1	11/16/2004	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	< 80.0	< 250	< 500	2.49	< 1.00
MW-1	12/6/2005	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 255	< 510	1.26	< 1.00
MW-1	6/5/2006	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 253	< 505	1.76	< 1.00
MW-1	9/24/2007	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
MW-1	1/30/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 243	< 485	--	--
MW-1	4/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	--	--	--	--
MW-1	7/2/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 248	< 495	--	--
MW-1	10/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
MW-1	1/5/2009	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 248	< 495	--	--
MW-1	4/7/2009	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 243	< 485	< 1.00	< 1.00
MW-1	12/11/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 100	< 182	< 182	< 3.0	< 3.0
MW-2	10/5/1994	< 0.5	< 0.5	< 0.5	< 1.0	--	59	--	--	< 2.0	--
MW-2	2/15/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	< 2.0	--
MW-2	4/11/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	--	--
MW-2	7/20/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
MW-2	10/25/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
MW-2	1/23/1996	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	--	--
MW-2	4/17/1996	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
MW-2	7/8/1996	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
MW-2	10/23/1997	< 0.5	< 0.5	< 0.5	< 1.0	--	54.7	< 250	< 750	--	--

Table 2
Groundwater Analytical Data
ARCO Facility No. 980
10822 Roosevelt Way NE, Seattle, Washington 98125

CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
MW-2	3/11/1998	0.834	< 0.5	< 0.5	< 1.0	--	< 80	< 250	< 750	--	--
MW-2	6/30/1998	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	--	--
MW-2	12/20/1999	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	--	--	--	--
MW-2	6/30/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
MW-2	9/27/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
MW-2	12/3/2001	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	--	--
MW-2	6/6/2002	< 0.500	< 0.500	< 0.500	< 1.00	< 2.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-2	6/26/2003	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-2	12/9/2003	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-2	11/16/2004	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	< 80.0	< 250	< 500	< 1.00	< 1.00
MW-2	6/22/2005	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	< 80.0	< 250	< 500	< 1.00	< 1.00
MW-2	9/12/2005	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 281	< 562	< 1.00	< 1.00
MW-2	12/6/2005	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 248	< 495	< 1.00	< 1.00
MW-2	6/5/2006	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 248	< 495	< 1.00	< 1.00
MW-2	9/24/2007	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 243	< 485	--	--
MW-2	12/31/2007	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
MW-2	1/30/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 243	< 485	--	--
MW-2	4/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	--	--	--	--
MW-2	7/2/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 240	< 481	--	--
MW-2	10/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
MW-2	1/5/2009	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 248	< 495	--	--
MW-2	4/8/2009	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 243	< 485	< 1.00	< 1.00
MW-2	6/25/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 250	< 500	< 10	< 10
MW-2	9/25/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 260	< 260	< 10.0	< 10.0
MW-2	11/14/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 260	< 260	< 10.0	< 10.0
MW-2	2/12/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50	48	61	< 2.0	< 2.0
MW-2	4/2/2014	< 1.1	< 0.89	< 0.89	< 0.82	< 0.74	< 10	< 19	48 JB	< 0.17	< 0.17
MW-2	7/10/2014	< 0.14	< 0.16	< 0.13	< 0.12	< 0.17	< 10	< 9.5	< 14	< 0.17	3.5
MW-2	10/21/2014	< 1.0	< 1.0	< 1.0	0.17 JB	< 1.0	< 50	35	< 250	0.55 JB	< 2.0
MW-2	1/20/2015	< 0.14	< 0.16	< 0.13	< 0.12	< 0.17	< 27	29	180 JB^	< 0.17	< 0.17
MW-2	8/29/2016	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0 *	< 50	37 JB	< 250	0.24 J	< 2.0

Table 2
Groundwater Analytical Data
ARCO Facility No. 980
10822 Roosevelt Way NE, Seattle, Washington 98125

CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
MW-2	11/21/2016	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 50	430	490	< 2.0	< 2.0
MW-2	2/15/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 50	< 110	< 250	< 2.0	< 2.0
MW-2	10/17/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 100	< 250	< 4.0	< 4.0
MW-2	2/8/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 120	< 400	< 4.0	< 4.0
MW-2	9/11/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	< 110	< 350	< 4.0	< 4.0
MW-2	11/15/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	< 110	< 350	< 4.0	< 4.0
MW-2	1/29/2019	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	< 110	< 350	< 4.0	< 4.0
MW-2	9/26/2019	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 110	< 350	< 4.0	< 4.0
MW-2	3/9/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 110	< 360	< 4.0	< 4.0
MW-2	9/28/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 110	< 340	< 4.0	< 4.0
MW-2	3/23/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	< 110	< 360	< 2.0	< 2.0
MW-3	10/5/1994	**12**	3	< 0.5	1.5	--	< 50	--	--	< 2.0	--
MW-3	2/15/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	< 2.0	--
MW-3	7/20/1995	0.78	< 0.5	< 0.5	< 1.0	--	< 50	--	--	--	--
MW-3	4/17/1996	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	--	--
MW-3	7/8/1996	0.879	< 0.5	< 0.5	< 1.0	--	< 50	--	--	--	--
MW-3	3/11/1997	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	--	--
MW-3	5/29/1997	2.10	< 0.5	< 0.5	< 1.0	--	223	--	--	--	--
MW-3	8/5/1997	< 0.5	< 0.5	< 0.5	< 1.0	--	56.5	--	--	--	--
MW-3	6/30/1998	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	--	--
MW-3	6/30/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
MW-3	9/27/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
MW-3	6/26/2003	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-3	12/9/2003	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-3	4/7/2004	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-3	11/16/2004	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	< 80.0	< 250	< 500	1.52	< 1.00
MW-3	12/6/2005	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-3	6/5/2006	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 258	< 515	< 1.00	< 1.00
MW-3	9/24/2007	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
MW-3	1/30/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--

Table 2
Groundwater Analytical Data
ARCO Facility No. 980
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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
MW-3	4/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	--	--	--	--
MW-3	7/2/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 238	< 476	--	--
MW-3	10/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
MW-3	1/5/2009	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 248	< 495	--	--
MW-3	4/7/2009	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 240	< 481	< 1.00	< 1.00
MW-4	1/23/1996	**5,000**	**5,100**	**2,000**	**15,000**	--	**3,300,000**	**9,000**	**14,000**	--	--
MW-4	3/9/1999	4.76	< 0.5	< 0.5	1.73	--	53.3	< 250	< 750	--	--
MW-4	9/27/1999	4.04	< 0.500	< 0.500	< 10.0	--	**2,100**	**590**	--	--	--
MW-4	12/20/1999	**690**	< 2.50	4.77	33.7	--	385	< 498	--	--	--
MW-4	3/16/2000	**52.8**	1.22	3.25	25.3	--	685	--	--	--	--
MW-4	6/30/2000	**152**	5.70	3.54	31.1	--	**983**	**3,340**	< 750	--	--
MW-4	9/27/2000	**147**	3.51	19.4	64.7	--	**1,430**	**1,800**	< 750	--	--
MW-4	3/19/2001	**338**	< 5.00	14.0	31.9	**319**	**1,040**	**739**	< 1450	--	--
MW-4	6/27/2001	**37.8**	0.821	1.69	13.0	18.6	630	< 250	< 750	--	--
MW-4	9/26/2001	**1,850**	491	**3,480**	**30,100**	**149**	**611,000**	**11,300**	**11,500**	--	--
MW-4	12/3/2001	**325**	< 5.00	< 5.00	32.5	**34.7**	**1,980**	**2,120**	**3,880**	--	--
MW-4	6/6/2002	**199**	< 2.50	6.30	48.6	**33.2**	**2,940**	**1,620**	**2,160**	6.96	2.43
MW-4	6/26/2003	**1,350**	< 5.00	45.1	52.1	< 20.0	**4,410**	**6,630**	**3,070**	4.04	1.87
MW-4	12/9/2003	**918**	2.52	64.0	47.6	**38.2**	**3,200**	**1,240**	**2,450**	< 1.00	< 1.00
MW-4	4/7/2004	**1,230**	< 5.00	10.1	25.2	< 10.0	**3,470**	**711**	**1,230**	2.45	1.58
MW-4	11/16/2004	**990**	< 5.00	96.9	154	**20.9**	**76,200**	**24,300**	**8,350**	11.5	< 1.00
MW-4	3/29/2005	**5,920**	79.0	**1,140**	**6,630**	< 100	**28,900**	**16,700**	**25,800**	**204**	--
MW-4	6/22/2005	**1,070**	< 5.00	22.5	44.7	< 20.0	**2,730**	**4,600**	**6,130**	10	< 1.00
MW-4	9/12/2005	**980**	10.3	143	55.1	16.2	**5,450**	**1,070**	**1,590**	2.62	< 1.00
MW-4	12/6/2005	**737**	5.0	127	58.0	< 10.0	**4,320**	**1,030**	**1,720**	2.42	< 1.00
MW-4	6/5/2006	**851**	< 10.0	146	168	< 20.0	**3,720**	430	**641**	3.04	< 1.00
MW-4	9/29/2006	< 0.500	< 0.500	0.81	< 3.00	--	174	--	--	--	--
MW-4	12/19/2006	**33.8**	< 0.500	2.35	2.03	--	566	--	--	--	--
MW-4	9/24/2007	**99.5**	1.62	67.3	82.2	< 1.00	**1,360**	**1,610**	**3,710**	--	--
MW-4	12/31/2007	**111**	2.9	53.6	63.5	< 1.00	**1,620**	< 236	< 472	--	--

Table 2
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ARCO Facility No. 980
10822 Roosevelt Way NE, Seattle, Washington 98125

CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
MW-4	1/30/2008	**134**	11.6	13.2	63.2	< 1.00	**1,640**	< 236	< 472	--	--
MW-4	4/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	--	--	--	--
MW-4	7/2/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 238	< 476	--	--
MW-4	10/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
MW-4	1/5/2009	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	**644**	--	--
MW-4	4/8/2009	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 245	< 490	< 1.00	< 1.00
MW-4	7/8/2009	0.900	< 0.500	< 0.500	< 1.00	< 2.00	< 80.0	< 248	< 495	3.95	2.96
MW-4	10/6/2009	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	69	< 245	< 490	3.6	2.9
MW-4	1/5/2010	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 50.0	< 120	250	3.8	< 2.00
MW-4	5/25/2010	< 0.50	< 0.50	< 0.50	< 1.00	< 1.00	< 50.0	210	< 240	< 2.00	< 2.00
MW-4	8/19/2010	< 0.50	< 0.50	< 0.50	< 1.00	< 1.00	< 50.0	140	< 240	< 2.00	< 2.00
MW-4	12/7/2010	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 50	420	**920**	2.6	< 2.0
MW-4	1/26/2011	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 50	260	330	3.0	< 2.0
MW-4	6/16/2011	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 50	**1,200**	**2,200**	< 2.0	< 2.0
MW-4	9/22/2011	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 50	< 96.2	< 481	< 2.0	< 2.0
MW-4	12/6/2011	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	< 75.5	< 377	< 10.0	< 10.0
MW-4	3/8/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	< 82.5	< 412	< 10.0	< 10.0
MW-4	6/19/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	< 160	< 800	< 10.0	< 10.0
MW-4	9/21/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	< 80.8	< 404	< 10.0	< 10.0
MW-4	12/11/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 100	< 189	304	< 3.0	< 3.0
MW-4	6/25/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	25	71	< 10	< 10
MW-4	9/25/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 270	< 270	< 10.0	< 10.0
MW-4	11/14/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 260	< 260	< 10.0	< 10.0
MW-4	2/12/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50	**590 BY**	390 BY	0.30	< 2.0
MW-4	4/2/2014	< 1.1	< 0.89	< 0.89	< 0.82	< 0.74	< 10	**900**	**780**	0.51	< 0.17
MW-4	7/10/2014	< 0.14	< 0.16	< 0.13	< 0.12	< 0.17	14 JB	300	200	< 0.17	< 0.17
MW-4	10/22/2014	< 1.0	< 1.0	< 1.0	0.16 JB	0.25	11 JB	350	210	0.55 JB	< 2.0
MW-4	1/20/2015	< 0.14	< 0.16	< 0.13	< 0.12	< 0.17	< 27	**580**	**510**	< 0.17	< 0.17
MW-4	12/16/2015	< 0.42	< 0.44	< 0.51	< 0.50	0.20	35	280	260	--	--
MW-4	3/11/2016	< 0.025	< 0.025	< 0.030	< 0.060	0.11	< 27	440	**610**	--	--
MW-4	8/29/2016	< 2.0	< 2.0	< 3.0	< 3.0	0.25 JH	< 50	320 B	240 JB	0.26 J	< 2.0

Table 2
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ARCO Facility No. 980
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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
MW-4	11/21/2016	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 50	160	< 250	< 2.0	< 2.0
MW-4	2/15/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 50	420	460	< 2.0	< 2.0
MW-4	5/26/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 500	410	**600**	< 4.0	< 4.0
MW-4	10/17/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	**740**	470	< 4.0	< 4.0
MW-4	2/8/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	**510**	**790**	< 4.0	< 4.0
MW-4	9/11/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	480	**510**	< 4.0	< 4.0
MW-4	11/15/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	**1,000**	**1,100**	< 4.0	< 4.0
MW-4	1/29/2019	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	**620**	**1,000**	< 4.0	< 4.0
MW-4	9/26/2019	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	**850**	**650**	< 4.0	< 4.0
MW-4	3/9/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	350	**540**	< 4.0	< 4.0
MW-4	9/28/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	480	**670**	< 4.0	< 4.0
MW-4	3/23/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	180	470	< 2.0	< 2.0
MW-4	9/28/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	**540**	**870 *+**	< 2.0	< 2.0
MW-4	11/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	**550**	**650**	< 2.0	< 2.0
MW-4	12/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	340	**730**	< 2.0	< 0.40
MW-5	10/5/1994	**57**	2.6	0.94	2.2	--	< 50	--	--	2.4	--
MW-5	2/15/1995	**160**	0.96	< 0.5	< 1.0	--	63	440	**3,300**	< 2.0	--
MW-5	4/10/1995	**270**	< 2.0	< 2.0	< 4.0	--	< 100	--	--	--	--
MW-5	7/20/1995	**330**	1.1	1.1	< 1.0	--	80	**720**	**870**	--	--
MW-5	10/26/1995	**440**	< 0.5	< 0.5	< 1.0	--	61	**1,100**	**2,400**	--	--
MW-5	1/23/1996	**770**	< 4.0	< 4.0	8.4	--	< 200	**3,200**	**10,000**	--	--
MW-5	4/17/1996	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	490	< 750	--	--
MW-5	7/8/1996	< 0.5	< 0.5	< 0.5	2.64	--	544	**683**	**791**	--	--
MW-5	3/11/1997	3.22	10.9	1.65	13.0	--	76.4	**4,241**	< 750	--	--
MW-5	10/23/1997	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	447	< 750	--	--
MW-5	3/11/1998	< 0.5	< 0.5	< 0.5	< 1.0	--	< 80	< 250	< 750	--	--
MW-5	9/25/1998	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
MW-5	12/29/1998	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
MW-5	3/9/1999	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
MW-5	6/2/1999	< 0.500	3.17	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--

Table 2
Groundwater Analytical Data
ARCO Facility No. 980
10822 Roosevelt Way NE, Seattle, Washington 98125

	CONSTITUENT	B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
MW-5	9/27/1999	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	--	--	--
MW-5	12/20/1999	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	--	--	--
MW-5	6/30/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
MW-5	9/27/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
MW-5	6/27/2001	< 2.50	< 2.50	< 2.50	< 5.00	**90.1**	< 250	< 322	< 965	--	--
MW-5	9/26/2001	< 0.500	< 0.500	< 0.500	< 1.00	19.7	< 50.0	< 250	< 750	--	--
MW-5	12/3/2001	< 0.500	< 0.500	< 0.500	< 1.00	**27.2**	< 50.0	< 250	< 500	--	--
MW-5	6/26/2003	< 0.500	< 0.500	< 0.500	< 1.00	**22.1**	< 50.0	< 250	< 500	1.63	< 1.00
MW-5	12/9/2003	< 0.500	< 0.500	< 0.500	< 1.00	**21.0**	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-5	11/16/2004	< 0.200	< 0.500	< 0.500	< 1.00	**26.9**	< 80.0	< 250	< 500	< 1.00	< 1.00
MW-5	12/6/2005	< 0.500	< 0.500	< 0.500	< 1.00	9.4	< 50.0	< 243	< 485	< 1.00	< 1.00
MW-5	6/5/2006	< 0.500	< 0.500	< 0.500	< 1.00	4.37	< 50.0	< 263	< 526	2.1	< 1.00
MW-5	9/24/2007	< 0.500	< 0.500	< 0.500	< 3.00	1.54	< 50.0	< 236	< 472	--	--
MW-5	12/31/2007	< 0.500	< 0.500	< 0.500	< 3.00	1.35	< 50.0	< 236	< 472	--	--
MW-5	1/30/2008	< 0.500	< 0.500	< 0.500	< 3.00	1.27	< 50.0	< 236	< 472	--	--
MW-5	4/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	1.95	< 50.0	--	--	--	--
MW-5	7/2/2008	< 0.500	< 0.500	< 0.500	< 3.00	2.02	< 50.0	< 236	< 472	--	--
MW-5	10/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	1.81	< 50.0	< 236	< 472	--	--
MW-5	1/5/2009	< 0.500	< 0.500	< 0.500	< 3.00	1.43	< 50.0	< 250	< 500	--	--
MW-5	4/8/2009	< 0.500	< 0.500	< 0.500	< 1.00	2.07	< 50.0	< 243	< 485	< 1.00	< 1.00
MW-5	9/21/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	< 80.0	< 400	< 10.0	< 10.0
MW-5	6/25/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 250	30	< 10	< 10
MW-5	9/25/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 270	< 270	< 10.0	< 10.0
MW-5	11/14/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 260	< 260	< 10.0	< 10.0
MW-5	2/12/2014	< 1.0	< 1.0	< 1.0	< 3.0	0.46	< 50	78	80 JB	< 2.0	< 2.0
MW-5	4/1/2014	< 1.1	< 0.89	< 0.89	< 0.82	0.78	< 10	110 JB	160 JB	< 0.17	< 0.17
MW-5	7/10/2014	< 0.14	< 0.16	< 0.13	< 0.12	0.38	< 10	150	180 J	< 0.17	< 0.17
MW-5	10/21/2014	< 1.0	< 1.0	< 1.0	< 3.0	0.39	< 50	100	< 250	0.44 JB	< 2.0
MW-5	1/20/2015	< 0.14	< 0.16	< 0.13	< 0.12	0.43	< 27	220	230	< 0.17	< 0.17
MW-5	8/29/2016	< 2.0	< 2.0	< 3.0	< 3.0	0.31 JH	< 50	62 JB	35 JB	< 2.0	< 2.0
MW-5	11/21/2016	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 50	120	< 250	< 2.0	< 2.0

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ARCO Facility No. 980
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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
MW-5	2/15/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 50	120	< 250	< 2.0	< 2.0
MW-5	5/26/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 500	210	350	< 4.0	< 4.0
MW-5	10/17/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	150	< 250	< 4.0	< 4.0
MW-5	2/8/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	150	< 390	< 4.0	< 4.0
MW-6	10/5/1994	**160**	260	45	180	--	**1,400**	--	--	< 2.0	--
MW-6	2/15/1995	**13**	32	5.7	30	--	220	--	< 1000	< 2.0	--
MW-6	7/20/1995	**130**	410	70	390	--	**2,300**	< 250	--	--	--
MW-6	4/17/1996	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	--	--
MW-6	7/8/1996	< 0.5	0.528	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
MW-6	3/11/1998	1.4	5.35	1.24	19.4	--	192	< 250	< 750	--	--
MW-6	3/16/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
MW-6	11/10/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 80.0	< 250	< 750	--	--
MW-6	3/19/2001	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 750	--	--
MW-6	12/3/2001	2.15	0.875	10.4	36.1	< 5.00	394	< 250	< 500	--	--
MW-6	6/26/2003	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-6	12/9/2003	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-6	11/16/2004	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	< 80.0	< 250	< 500	< 1.00	< 1.00
MW-6	9/12/2005	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 294	< 588	< 1.00	< 1.00
MW-6	12/6/2005	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 245	< 490	< 1.00	< 1.00
MW-6	6/5/2006	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 263	< 526	< 1.00	< 1.00
MW-6	9/24/2007	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
MW-6	1/30/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 243	< 485	--	--
MW-6	4/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 238	< 476	--	--
MW-6	7/2/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 240	< 481	--	--
MW-6	10/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
MW-6	1/5/2009	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
MW-6	4/8/2009	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 243	< 485	< 1.00	< 1.00
MW-6	3/24/2021	< 1.0	< 1.0	< 1.0	< 2.0	--	< 250	< 110	< 370	< 2.0	< 2.0

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ARCO Facility No. 980
10822 Roosevelt Way NE, Seattle, Washington 98125

CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
MW-7	10/5/1994	**4,600**	470	81	810	--	**5,500**	--	--	< 2.0	--
MW-7	2/15/1995	**5,500**	240	80	160	--	**4,300**	--	**12,000**	< 2.0	--
MW-7	4/10/1995	**3,600**	140	53	470	--	**2,800**	--	**7,800**	--	--
MW-7	7/20/1995	**3,300**	260	36	350	--	**2,400**	**1,200**	--	--	--
MW-7	10/26/1995	**590**	12	< 0.5	< 1.0	--	170	**930**	**2,100**	--	--
MW-7	1/23/1996	2.5	< 0.5	< 0.5	< 1.0	--	< 50	**1,100**	**2,100**	--	--
MW-7	4/17/1996	**2,500**	57	45	270	--	**1,500**	**580**	< 750	--	--
MW-7	7/8/1996	**1,220**	25.6	< 0.5	162	--	**1,100**	**879**	< 750	--	--
MW-7	10/10/1996	**1,100**	21.3	21.5	72.8	--	< 1000	**636**	< 750	--	--
MW-7	3/11/1997	**708**	20.8	8.18	22.0	--	373	**8,571**	< 750	--	--
MW-7	5/29/1997	**580**	< 5.0	6.72	14.3	--	< 500	--	--	--	--
MW-7	8/5/1997	**462**	3.11	5.81	13.9	--	265	**713**	< 750	--	--
MW-7	10/23/1997	**23.7**	< 0.5	0.689	1.62	--	89.4	**565**	< 750	--	--
MW-7	3/11/1998	**19.2**	< 0.5	< 0.5	< 1.0	--	< 80	< 250	< 750	--	--
MW-7	9/25/1998	**25.7**	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
MW-7	12/29/1998	**116**	< 2.5	< 2.5	< 5.0	--	< 250	< 250	< 750	--	--
MW-7	3/9/1999	**73.5**	0.502	0.559	1.52	--	68.3	< 250	< 750	--	--
MW-7	6/2/1999	**41.1**	5.95	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
MW-7	9/27/1999	0.544	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	--	--	--
MW-7	12/20/1999	**161**	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	--	--	--
MW-7	6/30/2000	1.20	< 0.780	< 0.500	< 1.00	--	< 50.0	420	< 750	--	--
MW-7	9/27/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	323	< 750	--	--
MW-7	11/10/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 80.0	< 250	< 750	--	--
MW-7	3/19/2001	< 0.500	0.821	< 0.500	< 1.00	**55.9**	< 50.0	< 250	< 750	--	--
MW-7	6/27/2001	< 0.500	< 0.500	< 0.500	< 1.00	**35.2**	< 50.0	< 250	< 750	--	--
MW-7	9/26/2001	< 0.500	< 0.500	< 0.500	< 1.00	**57.8**	< 50.0	253	< 750	--	--
MW-7	12/9/2003	< 0.500	< 0.500	< 0.500	< 1.00	**35.6**	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-7	11/16/2004	< 0.200	< 0.500	< 0.500	< 1.00	**20.6**	84.3	< 250	< 500	< 1.00	< 1.00
MW-7	12/6/2005	**644**	**8,200**	**942**	**5,250**	< 200	**33,000**	< 243	< 485	< 1.00	< 1.00
MW-7	6/5/2006	**26.8**	10.0	373	520	< 20.0	**4,590**	< 278	< 556	< 1.00	< 1.00
MW-7	9/29/2006	< 0.500	0.85	27.3	86.3	--	**1,760**	--	--	--	--

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ARCO Facility No. 980
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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
MW-7	12/19/2006	< 0.500	< 0.500	1.26	8.9	--	189	--	--	--	--
MW-7	12/31/2007	< 0.500	< 0.500	< 0.500	< 3.00	3.1	< 50.0	< 236	< 472	--	--
MW-7	1/30/2008	< 0.500	< 0.500	< 0.500	< 3.00	2.73	< 50.0	< 236	< 472	--	--
MW-7	4/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	5.63	< 50.0	< 243	< 485	--	--
MW-7	7/2/2008	< 0.500	< 0.500	< 0.500	< 3.00	3.96	< 50.0	< 236	< 472	--	--
MW-7	10/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	2.23	< 50.0	< 236	< 472	--	--
MW-7	1/5/2009	< 0.500	< 0.500	< 0.500	< 3.00	2.63	< 50.0	< 248	< 495	--	--
MW-7	4/8/2009	< 0.500	< 0.500	< 0.500	< 1.00	5.4	< 50.0	< 243	< 485	< 1.00	< 1.00
MW-8	10/5/1994	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	< 2.0	--
MW-8	2/15/1995	--	--	--	--	--	--	< 250	--	--	--
MW-8	7/20/1995	--	--	--	--	--	--	410	< 750	--	--
MW-8	3/11/1998	< 0.5	< 0.5	< 0.5	< 1.0	--	< 80	< 250	< 750	--	--
MW-8	12/20/1999	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	--	--	--	--
MW-8	6/6/2002	< 0.500	< 0.500	< 0.500	< 1.00	< 2.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-8	6/26/2003	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-8	12/9/2003	< 0.500	< 0.500	< 0.500	< 1.00	1.42	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-8	11/16/2004	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	< 80.0	< 250	< 500	< 1.00	< 1.00
MW-8	9/12/2005	< 0.500	0.653	< 0.500	< 1.00	< 1.00	< 50.0	< 281	< 562	< 1.00	< 1.00
MW-8	12/6/2005	< 0.500	1.07	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-8	6/5/2006	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 243	< 485	< 1.00	< 1.00
MW-8	9/24/2007	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 238	< 476	--	--
MW-8	12/31/2007	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
MW-8	1/30/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 250	< 500	--	--
MW-8	4/2/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 238	< 476	--	--
MW-8	7/1/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
MW-8	10/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
MW-8	1/6/2009	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 248	< 495	--	--
MW-8	4/8/2009	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 245	< 490	< 1.00	< 1.00
MW-8	6/26/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 250	< 500	< 10	< 10
MW-8	9/25/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 270	< 270	< 10.0	< 10.0

Table 2
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ARCO Facility No. 980
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CONSTITUENT / UNIT		B ug/L	T ug/L	E ug/L	X ug/L	MTBE 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**	**800**	**500**	**500**	**15**	**15**
MW-8	11/15/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 260	< 260	< 10.0	< 10.0
MW-8	2/13/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50	62	65	< 2.0	< 2.0
MW-8	4/2/2014	< 1.1	< 0.89	< 0.89	< 0.82	0.78	< 10	66 JB	88 JB	< 0.17	< 0.17
MW-8	7/10/2014	< 0.14	< 0.16	< 0.13	< 0.12	< 0.17	< 10	95 JB	81	< 0.17	< 0.17
MW-8	10/21/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50	55 J	< 250	0.44 JB	< 2.0
MW-8	1/19/2015	< 0.14	< 0.16	< 0.13	< 0.12	< 0.17	< 27	98	< 29 H1	< 0.17	< 0.17
MW-8	3/10/2016	--	--	--	--	--	--	--	--	1.7 J	< 0.17
MW-8	6/1/2016	--	--	--	--	--	--	--	--	2.9	< 0.17
MW-8	8/29/2016	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0 *	< 50	93 JB	59 JB	0.26 J	< 2.0
MW-8	11/21/2016	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 50	< 110	< 250	< 2.0	< 2.0
MW-8	2/15/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 50	130	< 260	5.5	< 2.0
MW-8	5/26/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 500	< 100	< 250	< 4.0	< 4.0
MW-8	10/17/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 100	< 250	< 4.0	< 4.0
MW-8	2/8/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 130	< 410	< 4.0	< 4.0
MW-8	9/11/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	130	< 350	< 4.0	< 4.0
MW-8	11/15/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	130	< 350	< 4.0	< 4.0
MW-8	1/29/2019	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	130	< 350	< 4.0	< 4.0
MW-8	9/26/2019	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	130	< 350	< 4.0	< 4.0
MW-8	3/9/2020	< 3.0 F2F1	< 2.0 F2F1	< 3.0 F2F1	< 3.0 F2F1	< 2.0 F2F1	< 250	110	< 360	< 4.0	< 4.0
MW-8	9/28/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	110	< 340	4.1	< 4.0
MW-8	3/23/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	< 110	< 360	< 2.0	< 2.0
MW-9	10/5/1994	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	4.6	--
MW-9	7/20/1995	--	--	--	--	--	--	280	--	--	--
MW-9	7/8/1996	--	--	--	--	--	--	< 250	< 750	--	--
MW-9	6/30/1998	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	--	--	--
MW-9	12/20/1999	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	--	--	--	--
MW-9	6/27/2001	< 0.500	< 0.500	< 0.500	< 1.00	< 5.00	< 50.0	< 250	< 750	--	--
MW-9	9/26/2001	< 0.500	< 0.500	< 0.500	< 1.00	< 5.00	< 50.0	< 250	< 750	--	--
MW-9	6/26/2003	< 0.500	< 0.500	< 0.500	< 1.00	< 5.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-9	12/9/2003	< 0.500	< 0.500	< 0.500	< 1.00	2.12	< 50.0	< 250	< 500	< 1.00	< 1.00

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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
MW-9	11/16/2004	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	< 80.0	< 250	< 500	< 1.00	< 1.00
MW-9	9/12/2005	< 0.500	5.91	< 0.500	< 1.00	< 2.00	156	< 312	< 625	< 1.00	< 1.00
MW-9	12/6/2005	< 0.500	0.85	< 0.500	< 1.00	1.07	< 50.0	< 248	< 495	< 1.00	< 1.00
MW-9	6/5/2006	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-9	9/24/2007	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 243	< 485	--	--
MW-9	12/31/2007	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
MW-9	4/2/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 240	< 481	--	--
MW-9	7/1/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
MW-9	10/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
MW-9	1/6/2009	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 248	< 495	--	--
MW-9	4/8/2009	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 248	< 495	< 1.00	< 1.00
MW-9	9/21/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	< 78.4	< 392	< 10.0	< 10.0
MW-9	6/26/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 250	< 500	< 10	< 10
MW-9	9/25/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 270	< 270	< 10.0	< 10.0
MW-9	11/14/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 260	< 260	< 10.0	< 10.0
MW-9	2/14/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50	74	82	< 2.0	< 2.0
MW-9	4/2/2014	< 1.1	< 0.89	< 0.89	< 0.82	< 0.74	< 10	46 JB	58 JB	< 0.17	< 0.17
MW-9	7/10/2014	< 0.14	< 0.16	< 0.13	< 0.12	< 0.17	< 10	75 JB	62	< 0.17	0.35
MW-9	10/21/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50	66 J	< 240	0.26 JB	< 2.0
MW-9	1/20/2015	< 0.14	< 0.16	< 0.13	< 0.12	< 0.17	< 27	89	< 30 H1	< 0.17	< 0.17
MW-9	12/14/2015	< 0.42	< 0 *	< 0.51	< 0.50	< 0.17	< 27	55 JB	< 29	--	--
MW-9	3/10/2016	< 0.025	< 0.025	< 0.030	< 0.060	< 0.025	< 27	47 J	120 J	< 0.17	< 0.17
MW-9	6/1/2016	--	--	--	--	--	--	--	--	< 0.17	< 0.17
MW-9	8/29/2016	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0 *	< 50	53 JB	34 JB	< 2.0	< 2.0
MW-9	11/21/2016	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 50	< 110	< 250	< 2.0	< 2.0
MW-9	2/15/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 50	< 110	< 250	< 2.0	< 2.0
MW-9	5/26/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 500	< 100	< 260	< 4.0	< 4.0
MW-9	10/17/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 100	< 250	< 4.0	< 4.0
MW-9	2/8/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 130	< 410	< 4.0	< 4.0
MW-9	9/11/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	< 110	< 350	< 4.0	< 4.0
MW-9	11/15/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	140	< 350	< 4.0	< 4.0

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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
MW-9	1/29/2019	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	110	< 350	< 4.0	< 4.0
MW-9	9/26/2019	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 110	< 350	< 4.0	< 4.0
MW-9	3/9/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 110	< 360	< 4.0	< 4.0
MW-9	9/28/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 110	< 340	< 4.0	< 4.0
MW-9	3/23/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	< 120	< 370	< 2.0	< 2.0
MW-10	10/5/1994	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	8.7	--
MW-10	7/20/1995	--	--	--	--	--	--	320	--	--	--
MW-10	7/8/1996	--	--	--	--	--	--	382	< 750	--	--
MW-10	6/30/1998	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	--	--	--
MW-10	3/16/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
MW-10	6/26/2003	< 0.500	< 0.500	< 0.500	< 1.00	**23.4**	< 50.0	< 250	< 500	1.06	< 1.00
MW-10	12/9/2003	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	< 1.00	< 1.00
MW-10	11/16/2004	< 0.200	< 0.500	< 0.500	< 1.00	16.8	< 80.0	< 250	< 500	< 1.00	< 1.00
MW-10	3/29/2005	< 0.200	< 0.500	< 0.500	< 1.00	13.8	< 80.0	< 250	< 500	1.72	--
MW-10	6/22/2005	0.240	< 0.500	< 0.500	< 1.00	17.0	< 80.0	< 250	< 500	< 1.00	< 1.00
MW-10	9/12/2005	< 0.500	3.28	< 0.500	< 1.00	19.7	63.8	< 333	< 667	< 1.00	< 1.00
MW-10	12/6/2005	< 0.500	< 0.500	< 0.500	< 1.00	13.4	< 50.0	< 291	< 581	< 1.00	< 1.00
MW-10	6/5/2006	< 0.500	< 0.500	< 0.500	< 1.00	2.49	< 50.0	< 248	< 495	< 1.00	< 1.00
MW-10	9/24/2007	< 0.500	< 0.500	< 0.500	< 3.00	13.9	< 50.0	< 238	< 476	--	--
MW-10	12/31/2007	< 0.500	< 0.500	< 0.500	< 3.00	1.55	< 50.0	< 236	< 472	--	--
MW-10	4/2/2008	< 0.500	1.54	0.61	3.71	**21.4**	< 50.0	< 236	< 472	--	--
MW-10	7/1/2008	< 0.500	< 0.500	< 0.500	< 3.00	**91.5**	< 50.0	< 238	< 476	--	--
MW-10	10/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	**110**	< 50.0	< 236	< 472	--	--
MW-10	1/6/2009	< 0.500	< 0.500	< 0.500	< 3.00	**35.5**	< 50.0	< 243	< 485	--	--
MW-10	4/8/2009	< 0.500	< 0.500	< 0.500	< 1.00	4.59	< 50.0	< 245	< 490	< 1.00	< 1.00
MW-10	9/21/2012	< 1.0	< 1.0	< 1.0	< 3.0	1.2	< 50.0	< 78.4	< 392	< 10.0	< 10.0
MW-10	6/26/2013	< 0.50	0.55	< 0.50	< 1.0	0.78	< 50	< 250	< 500	< 10	< 10
MW-10	9/25/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 270	< 270	< 10.0	< 10.0
MW-10	11/14/2013	< 0.50	< 0.50	< 0.50	< 1.0	0.86	< 50	< 260	< 260	< 10.0	< 10.0
MW-10	2/13/2014	< 1.0	< 1.0	< 1.0	< 3.0	0.51 J	< 50	42	49	< 2.0	< 2.0

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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
MW-10	4/2/2014	< 1.1	< 0.89	< 0.89	< 0.82	< 0.74	< 10	55 JB	64 JB	< 0.17	< 0.17
MW-10	7/11/2014	< 0.14	< 0.16	< 0.13	< 0.12	0.21 J	< 10	64 JB	31 J	< 0.17	< 0.17
MW-10	10/21/2014	< 1.0	< 1.0	< 1.0	< 3.0	0.61 J	< 50	89 J	< 240	0.26 JB	< 2.0
MW-10	1/20/2015	< 0.14	< 0.16	< 0.13	< 0.12	0.28 J	< 27	58 JH1B^	< 28 H1	< 0.17	< 0.17
MW-10	3/11/2016	--	--	--	--	--	--	--	--	< 0.17	< 0.17
MW-10	8/29/2016	< 2.0	< 2.0	< 3.0	< 3.0	0.22 JH	< 50	48 JB	29 JB	< 2.0	< 2.0
MW-10	11/21/2016	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 50	**2,000**	< 250	< 2.0	< 2.0
MW-10	2/15/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 50	< 110	< 250	< 2.0	< 2.0
MW-10	5/26/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 500	< 100	< 250	< 4.0	< 4.0
MW-10	10/17/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 100	< 260	< 4.0	< 4.0
MW-10	2/8/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 120	< 390	< 4.0	< 4.0
MW-10	9/11/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	< 110	< 350	< 4.0	< 4.0
MW-10	11/15/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	130	< 350	< 4.0	< 4.0
MW-10	1/29/2019	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	< 110	< 350	< 4.0	< 4.0
MW-10	9/26/2019	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 110	< 350	< 4.0	< 4.0
MW-10	3/9/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 110	< 370	< 4.0	< 4.0
MW-10	9/28/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 110	< 340	< 4.0 F2	< 4.0
MW-10	3/23/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	< 110	< 350	< 2.0	< 2.0
MW-10	11/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	110	< 360	< 2.0	< 2.0
MW-10	12/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	< 110	< 360	< 2.0	< 2.0
MW-11	3/16/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	**15,000**	**24,900**	--	--
MW-11	6/27/2001	**386**	32.4	30.4	777	**29.6**	**11,500**	**700**	< 750	--	--
MW-11	9/26/2001	**122**	13.0	18.4	692	< 20.0	**23,600**	**5,890**	**5,510**	--	--
MW-11	12/3/2001	**177**	9.17	19.7	320	**25.8**	**6,220**	**2,510**	**4,850**	--	--
MW-11	6/6/2002	**192**	4.66	30.8	456	< 2.00	**5,710**	**5,170**	**6,790**	**16.0**	4.95
MW-11	6/26/2003	**301**	5.01	120	568	< 20.0	**9,170**	**72,800**	**107,000**	8.71	3.09
MW-11	12/9/2003	**99.2**	3.00	48.9	314	14.8	**4,650**	**1,610**	**2,910**	2.94	1.14
MW-11	11/16/2004	**155**	2.95	66.4	610	< 10.0	**29,000**	**72,200**	**28,500**	**32.1**	2.06
MW-11	3/29/2005	**138**	< 2.50	90.6	145	< 10.0	**6,310**	**42,200**	**22,600**	12.3	--
MW-11	6/22/2005	**112**	1.97	105	259	5.42	**6,810**	**20,100**	**10,800**	10.6	1.56

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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
MW-11	9/12/2005	**217**	< 12.5	224	992	3.48	**22,000**	**81,100**	**169,000**	**43**	**21.8**
MW-11	12/6/2005	**148**	< 2.50	130	504	< 5.00	**13,000**	**85,600**	**178,000**	**33.1**	3.1
MW-11	6/5/2006	**245**	< 5.00	149	529	< 10.0	**10,200**	**58,000**	**111,000**	**132**	**32.9**
MW-11	9/29/2006	4.44	0.57	2.84	47.5	--	**4,840**	--	--	--	--
MW-11	12/19/2006	**5.0**	< 0.500	2.3	11.8	--	**1,630**	--	--	--	--
MW-11	10/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	**1,310**	**2,950**	**5,910**	--	--
MW-11	4/8/2009	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	69.5	349	**833**	5.67	1.48
MW-11	7/8/2009	0.370	< 0.500	< 0.500	< 1.00	< 2.00	175	**714**	**1,370**	3.90	1.07
MW-11	10/6/2009	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	410	< 243	< 485	2.6	< 2.00
MW-11	1/5/2010	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	290	140	270	< 2.00	< 2.00
MW-11	5/25/2010	< 0.50	< 0.50	< 0.50	< 1.00	< 1.00	97	150	< 240	2.1	< 2.00
MW-11	8/19/2010	< 0.50	< 0.50	< 0.50	1.00	< 1.00	180	210	< 240	3.2	< 2.00
MW-11	12/7/2010	< 0.50	< 0.50	< 0.50	1.1	< 1.0	190	170	280	2.3	< 2.0
MW-11	1/26/2011	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	81	210	< 240	< 2.0	< 2.0
MW-11	6/16/2011	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	77	**870**	**1,300**	< 2.0	< 2.0
MW-11	9/22/2011	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	51	**1,310**	**3,220**	2.7	< 2.0
MW-11	12/6/2011	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	292	**726**	< 10.0	< 10.0
MW-11	3/8/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	179	< 396	< 10.0	< 10.0
MW-11	6/19/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	< 160	< 800	< 10.0	< 10.0
MW-11	9/21/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	111	268	**777**	< 10.0	< 10.0
MW-11	12/11/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 100	< 182	204	< 3.0	< 3.0
MW-11	6/27/2013	< 0.50	0.5	< 0.50	< 1.00	< 0.50	< 50	88	290	< 10	< 10
MW-11	9/26/2013	< 0.50	2	< 0.50	< 1.0	< 0.50	63	< 270	< 270	< 10.0	< 10.0
MW-11	11/15/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 260	< 260	< 10.0	< 10.0
MW-11	2/13/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	150	**1,500 BY**	**2,700 BY**	1.1 J	< 2.0
MW-11	4/2/2014	< 1.1	< 0.89	< 0.89	< 0.82	< 0.74	25 J	**850 BY**	**1,700 BY**	0.77 J	< 0.17
MW-11	7/11/2014	< 0.14	< 0.16	< 0.13	< 0.12	< 0.17	34 JB	360 BY	470 Y	0.81 J	< 0.17
MW-11	10/22/2014	0.29 J	< 1.0	< 1.0	0.26 JB	< 1.0	58 B	430 Y	190 J	0.87 JB	< 2.0
MW-11	1/21/2015	< 0.14	< 0.16	< 0.13	< 0.12	< 0.17	33 J	230 H1BY^	180 J^H1	0.32 J	< 0.17
MW-11	12/14/2015	< 0.42	< 0 *	< 0.51	< 0.50	< 0.17	48 J	170 B	95 J	--	--
MW-11	3/10/2016	0.035 J	< 0.025	< 0.030	< 0.060	< 0.025	41 J	420	**700**	--	--

Table 2
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ARCO Facility No. 980
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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
MW-11	6/1/2016	< 0.42	< 0.18	< 0.21	< 0.49	< 0.11	40 J	460 B	340	--	--
MW-11	8/29/2016	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0 F1*	95	480 B	380 B	0.44 J	0.55 J
MW-11	11/21/2016	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	110	**930**	**1,300**	< 2.0	< 2.0
MW-11	2/15/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	65	440	480	< 2.0	< 2.0
MW-11	5/26/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 500	450	**670**	< 4.0	< 4.0
MW-11	10/17/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	**740**	**760**	< 4.0	< 4.0
MW-11	2/8/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	**660**	**1,400**	< 4.0	< 4.0
MW-11	9/11/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	**580**	**620**	< 4.0	< 4.0
MW-11	11/15/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	**720**	**1,100**	< 4.0	< 4.0
MW-11	1/29/2019	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	**810**	**850**	< 4.0	< 4.0
MW-11	9/26/2019	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	**1,000**	**1,000**	< 4.0	< 4.0
MW-11	3/9/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	**930**	**1,500**	< 4.0	< 4.0
MW-11	9/28/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	**590**	**770**	< 4.0	< 4.0
MW-11	3/24/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	440	**1,200**	< 2.0	< 2.0
MW-11	11/5/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	**720**	**790**	< 2.0	< 2.0
MW-12	7/11/1996	**624**	174	41.6	164	--	**2,620**	**618**	--	--	--
MW-12	10/10/1996	**264**	2.98	3.23	60.4	--	**1,720**	< 250	< 750	--	--
MW-12	3/11/1997	4.02	1.01	< 0.5	9.94	--	541	402	< 750	--	--
MW-12	5/29/1997	**31.1**	0.530	< 0.5	16.7	--	**2,100**	**1,460**	**2,500**	--	--
MW-12	8/5/1997	**193**	5.16	5.19	87.9	--	**2,010**	**712**	< 750	--	--
MW-12	10/23/1997	**71.7**	< 0.5	< 0.5	5.78	--	358	**996**	**1,840**	--	--
MW-12	3/11/1998	**204**	9.30	< 1.0	18	--	398	< 250	< 750	--	--
MW-12	6/30/1998	**134**	< 2.50	< 5.00	< 30.0	--	**8,070**	289	--	--	--
MW-12	12/29/1998	**85.9**	< 1.0	< 1.0	5.80	--	313	< 250	< 750	--	--
MW-12	3/9/1999	**62.1**	1.71	< 3.0	< 41.0	--	**6,920**	**770**	**1,810**	--	--
MW-12	6/27/2001	**2,920**	452	275	**1,360**	**350**	**33,600**	**679**	< 750	--	--
MW-12	9/26/2001	**619**	**1,380**	**966**	**6,890**	< 50.0	**3,630,000**	**23,900**	**37,800**	--	--
MW-12	12/3/2001	**4,180**	323	315	**1,580**	**386**	**27,600**	**4,450**	**7,690**	--	--
MW-12	6/26/2003	**712**	878	258	**1,780**	< 20.0	**17,000**	**62,300**	**87,100**	**315**	4.93
MW-12	12/9/2003	**2,520**	338	142	**1,320**	**114**	**18,000**	**2,730**	**4,960**	4.77	4.84

Table 2
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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
MW-12	4/7/2004	**641**	655	201	**1,590**	< 10.0	**19,200**	**204,000**	**314,000**	**536**	8.61
MW-12	11/16/2004	**757**	**1,230**	283	**2,090**	< 20.0	**25,800**	**111,000**	**27,800**	9.64	2.92
MW-12	3/29/2005	**462**	655	250	**2,470**	< 40.0	**18,600**	**2,150,000**	**590,000**	**313**	--
MW-12	6/22/2005	**1,190**	434	350	**2,320**	< 20.0	**102,000**	**26,900**	**8,180**	**38**	3.61
MW-12	9/12/2005	**758**	631	250	**1,480**	< 2.00	**12,900**	**242,000**	**561,000**	**37.5**	4.64
MW-12	12/6/2005	**481**	**1,480**	**1,560**	**11,600**	< 100	**18,800**	**145,000**	**290,000**	**76.3**	12
MW-12	6/5/2006	**721**	61.8	190	**1,170**	< 20.0	**11,400**	**14,300**	**27,700**	3.23	1.52
MW-12	9/29/2006	**272**	4.79	195	**1,020**	--	**16,700**	--	--	--	--
MW-12	12/19/2006	**346**	36.6	81.0	620	--	**41,400**	--	--	--	--
MW-12	12/31/2007	**378**	7.48	104	503	< 1.00	**10,800**	**1,440**	**3,260**	--	--
MW-12	1/29/2008	**409**	8.39	96.4	584	< 1.00	**11,100**	**619**	**1,510**	--	--
MW-12	1/6/2009	4.2	0.89	22.5	186	< 1.00	**6,250**	358	**744**	--	--
MW-12	4/8/2009	0.949	0.647	4.0	52.6	< 1.00	**4,420**	**722**	**1,170**	**36**	7.86
MW-12	7/8/2009	< 1.00	< 2.50	< 2.50	8.45	< 10.0	**1,790**	< 250	< 500	8.45	5.61
MW-12	10/6/2009	1.9	< 1.00	1.0	9.3	< 1.00	**3,600**	**2,210**	**2,040**	4.2	< 2.00
MW-12	1/6/2010	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	**3,700**	**5,500**	**1,100**	4.8	2.0
MW-12	5/25/2010	< 0.50	< 0.50	< 0.50	4.4	< 1.00	**2,900**	**3,800**	**2,900**	2.6	< 2.00
MW-12	8/19/2010	0.89	0.59	0.51	3.4	< 1.00	**1,800**	**2,000**	380	3.5	< 2.00
MW-12	12/7/2010	1.9	0.66	0.51	3.6	< 1.0	**2,300**	**1,700**	**1,300**	2.3	< 2.0
MW-12	1/26/2011	< 0.50	< 0.50	< 0.50	1.2	< 1.0	610	**1,100**	**2,900**	< 2.0	< 2.0
MW-12	6/16/2011	< 0.50	< 0.50	< 0.50	1.7	< 1.0	**860**	**2,600**	**1,900**	< 2.0	< 2.0
MW-12	9/22/2011	1.5	< 0.50	0.69	7.0	< 1.0	**1,800**	**8,770**	**15,200**	**21**	< 2.0
MW-12	12/6/2011	2.5	< 1.0	1.3	< 3.0	< 1.0	**9,590**	**14,500**	**38,600**	< 10.0	< 10.0
MW-12	3/8/2012	1.7	< 1.0	< 1.0	< 3.0	< 1.0	**1,460**	298	< 400	< 10.0	< 10.0
MW-12	6/19/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	266	< 800	< 10.0	< 10.0
MW-12	9/21/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	**968**	**1,030**	**2,860**	< 10.0	< 10.0
MW-12	12/11/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 100	**542**	**1,890**	< 3.0	< 3.0
MW-12	6/27/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	170	120	380	< 10	< 10
MW-12	9/26/2013	0.63	1.3	< 0.50	< 1.0	< 0.50	210	< 260	**830**	< 10.0	< 10.0
MW-12	11/15/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	86 Y	400 H	**1,200 O**	< 10.0	< 10.0
MW-12	2/13/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	170	**940 BY**	**1,400 BY**	0.57 J	< 2.0

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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
MW-12	4/2/2014	< 1.1	< 0.89	< 0.89	< 0.82	< 0.74	15 J	190 BY	320 BY	0.36 J	< 0.17
MW-12	7/11/2014	0.35 J	< 0.16	< 0.13	< 0.12	< 0.17	100 B	460 BY	300 Y	0.54 J	< 0.17
MW-12	10/22/2014	3.9	0.46 J	0.91 J	1.4 JB	< 1.0	770 B	**830 Y**	**790 Y**	4.0 B	< 2.0
MW-12	1/21/2015	< 0.14	< 0.16	< 0.13	< 0.12	< 0.17	100	250 H1BY^	250 H1Y^	0.60 J	< 0.17
MW-12	12/16/2015	0.64 J*	< 0 *	< 0 *	< 0.50	< 0.17	170	**1,300**	**1,900**	--	--
MW-12	3/11/2016	0.086 J	< 0.025	< 0.030	< 0.060	< 0.025	53	240	320	0.32 J	< 0.17
MW-12	6/1/2016	< 0.42	< 0.18	< 0.21	< 0.49	< 0.11	85	390	310	**390 J**	< 0.17
MW-12	8/29/2016	1.5 J	0.46 J	< 3.0	< 3.0	< 1.0 *	120	470 B	170 JB	0.33 J	0.24 J
MW-12	11/21/2016	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	91	**1,000**	**1,400**	< 2.0	< 2.0
MW-12	2/15/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	52	240	300	< 2.0	< 2.0
MW-12	5/26/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 500	150	< 260	< 4.0	< 4.0
MW-12	10/17/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	**530**	**510**	< 4.0	< 4.0
MW-12	2/8/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	170	< 390	< 4.0	< 4.0
MW-12	9/11/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	420	400	< 4.0	< 4.0
MW-12	11/15/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	**630**	**570**	< 4.0	< 4.0
MW-12	1/29/2019	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	**790**	**1,200**	< 4.0	< 4.0
MW-12	9/26/2019	< 3.0	2.1	< 3.0	< 3.0	< 2.0	< 250	**680**	**510**	< 4.0	< 4.0
MW-12	3/9/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	**890**	**2,100**	< 4.0	< 4.0
MW-12	9/28/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	**1,200**	**780**	< 4.0	< 4.0
MW-12	3/23/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	**2,500**	**2,500**	< 2.0	< 2.0
MW-12	9/28/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	**1,400**	**750 *+**	< 2.0	< 2.0
MW-12	11/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	**3,100**	**1,600**	< 2.0	< 2.0
MW-12	12/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	470	**860**	< 2.0	< 2.0
MW-13	9/26/2019	**140**	3.2 F1	19 F1	140	< 2.0 F1F2	**2,900**	**6,900**	**3,500 F1**	< 4.0	< 4.0
MW-13	3/9/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	170	< 350	< 4.0	< 4.0
MW-13	9/28/2020	**16**	< 2.0	20	35	< 2.0	**1,100**	**990**	**590**	< 4.0	< 4.0
MW-13	3/23/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	260	210	< 360	< 2.0	< 2.0
MW-13	9/28/2021	**27**	1.0	8.8	16	< 1.0	**880**	**2,300**	**1,400**	< 2.0	< 2.0
MW-13	11/8/2021	< 1.0	< 1.0	< 1.0	15	< 1.0	790	**590**	410	2.5	< 2.0

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CONSTITUENT / UNIT		B ug/L	T ug/L	E ug/L	X ug/L	MTBE 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**	**800**	**500**	**500**	**15**	**15**
MW-14	9/26/2019	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 110	< 350	< 4.0	< 4.0
MW-14	3/9/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 110	< 360	< 4.0	< 4.0
MW-14	9/28/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 110	< 340	< 4.0	< 4.0
MW-14	3/24/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	< 110	< 350	< 2.0	< 2.0
MW-15	9/26/2019	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	**1,100**	**710**	< 4.0	< 4.0
MW-15	3/9/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	210	< 360	< 4.0	< 4.0
MW-15	3/23/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	150	< 360	< 2.0	< 2.0
MW-15	11/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	130	< 360	< 2.0	< 2.0
MW-16	9/26/2019	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	**540**	350	< 4.0	< 4.0
MW-16	3/9/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 110 **1	< 350 **1	< 4.0	< 4.0
MW-16	9/28/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 110	< 340	< 4.0	< 4.0
MW-16	3/23/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	< 120	< 370	< 2.0	< 2.0
MW-17	12/14/2020	< 3.0	< 2.0	< 3.0	< 3.0	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-17	3/23/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	< 110	< 360	< 2.0	< 2.0
MW-18	12/14/2020	< 3.0	< 2.0	< 3.0	< 3.0	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-18	3/23/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	< 120	< 370	< 2.0	< 2.0
MW-19	12/14/2020	< 3.0	< 2.0	< 3.0	< 3.0	--	< 250	< 110	< 360	< 4.0	< 4.0
MW-19	3/23/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	< 110	< 360	< 2.0	< 2.0
MW-19	11/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	< 110	< 360	< 2.0	< 2.0
MW-20	9/28/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	160	390 *+	< 2.0	< 2.0
MW-21	9/28/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	350	**510 *+**	< 2.0	< 2.0
VP-1	10/5/1994	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	**27**	--
VP-1	2/15/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 1000	< 2.0	--

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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
VP-1	4/11/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	--	--
VP-1	7/20/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
VP-1	10/26/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
VP-1	1/23/1996	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
VP-1	4/17/1996	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	--	--
VP-1	7/8/1996	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
VP-1	12/20/1999	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	--	--	--	--
VP-1	3/16/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	--	--	--	--
VP-1	6/30/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
VP-1	9/27/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
VP-1	11/10/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 80.0	< 250	< 750	--	--
VP-1	3/19/2001	< 0.500	< 0.500	< 0.500	< 1.00	6.23	< 50.0	< 250	< 750	--	--
VP-1	12/3/2001	< 0.500	< 0.500	< 0.500	< 1.00	**155**	< 50.0	< 250	< 500	--	--
VP-1	6/6/2002	< 0.500	< 0.500	< 0.500	< 1.00	3.57	< 50.0	< 250	< 500	**17.9**	< 1.00
VP-1	6/26/2003	0.521	< 0.500	1.05	5.25	5.55	137	< 250	< 500	6.48	< 1.00
VP-1	12/9/2003	< 0.500	< 0.500	< 0.500	< 1.00	**34.1**	< 50.0	< 250	< 500	1.44	< 1.00
VP-1	4/7/2004	< 0.500	< 0.500	< 0.500	< 1.00	1.19	< 50.0	< 250	< 500	3.21	< 1.00
VP-1	11/16/2004	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	< 80.0	< 250	< 500	**34.2**	< 1.00
VP-1	3/29/2005	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	< 80.0	< 250	< 500	< 1.0	--
VP-1	6/22/2005	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	< 80.0	< 250	< 500	1.21	< 1.00
VP-1	9/12/2005	< 0.500	< 0.500	< 0.500	< 1.00	< 2.00	< 50.0	< 287	< 575	< 1.00	< 1.00
VP-1	12/6/2005	< 0.500	< 0.500	< 0.500	< 1.00	6.63	< 50.0	< 245	< 490	< 1.00	< 1.00
VP-1	6/5/2006	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 248	< 495	2.72	< 1.00
VP-1	9/24/2007	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 248	< 495	--	--
VP-1	1/30/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 248	< 495	1.09	--
VP-1	4/2/2008	< 0.500	1.1	< 0.500	< 3.00	1.56	< 50.0	< 236	< 472	--	--
VP-1	7/1/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
VP-1	10/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
VP-1	1/6/2009	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
VP-1	4/8/2009	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 248	< 495	12	< 1.00
VP-1	7/8/2009	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	< 80.0	< 245	< 490	7.86	< 1.00

Table 2
Groundwater Analytical Data
ARCO Facility No. 980
10822 Roosevelt Way NE, Seattle, Washington 98125

CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
VP-1	10/6/2009	< 1.00	4.1	6.7	41	< 1.00	650	< 238	< 476	< 2.00	< 2.00
VP-1	1/6/2010	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 50.0	< 120	< 240	< 2.00	< 2.00
VP-1	5/25/2010	< 0.50	< 0.50	< 0.50	< 1.00	< 1.00	< 50.0	< 120	< 240	< 2.00	< 2.00
VP-1	8/19/2010	< 0.50	< 0.50	< 0.50	< 1.00	< 1.00	< 50.0	< 120	< 240	2.3	< 2.00
VP-1	12/7/2010	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 50	< 120	< 240	< 2.0	< 2.0
VP-1	1/26/2011	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 50	< 120	< 240	< 2.0	< 2.0
VP-1	6/16/2011	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 50	140	250	2.2	< 2.0
VP-1	9/22/2011	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 50	< 95.2	< 476	< 2.0	< 2.0
VP-1	12/6/2011	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	< 75.5	< 377	< 10.0	< 10.0
VP-1	3/8/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	< 82.5	< 412	< 10.0	< 10.0
VP-1	6/19/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	< 160	< 800	< 10.0	< 10.0
VP-1	9/21/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	< 80.8	< 404	10.9	< 10.0
VP-1	12/11/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 100	< 189	< 189	< 3.0	< 3.0
VP-2	10/5/1994	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	8.2	--
VP-2	2/15/1995	--	--	--	--	--	--	< 250	--	--	--
VP-2	7/20/1995	--	--	--	--	--	--	< 250	--	--	--
VP-2	10/10/1996	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
VP-2	3/16/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	--	--	--	--
VP-2	6/30/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
VP-2	9/27/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
VP-2	12/3/2001	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	--	--
VP-2	6/6/2002	< 0.500	< 0.500	< 0.500	< 1.00	< 2.00	< 50.0	< 250	< 500	5.21	< 1.00
VP-2	6/26/2003	< 0.500	< 0.500	< 0.500	< 1.00	**22.9**	< 50.0	< 250	< 500	9.19	< 1.00
VP-2	12/9/2003	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 250	< 500	< 1.00	< 1.00
VP-2	11/16/2004	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	< 80.0	< 250	< 500	1.35	< 1.00
VP-2	12/6/2005	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 248	< 495	< 1.00	< 1.00
VP-2	6/5/2006	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 245	< 490	< 1.00	< 1.00
VP-2	9/24/2007	< 0.500	< 0.500	< 0.500	< 3.00	8.74	< 50.0	< 243	< 485	--	--
VP-2	1/30/2008	< 0.500	< 0.500	< 0.500	< 3.00	7.59	< 50.0	< 236	< 472	--	--
VP-2	4/2/2008	< 0.500	0.79	< 0.500	< 3.00	3.89	< 50.0	< 236	< 472	--	--

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10822 Roosevelt Way NE, Seattle, Washington 98125

CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
VP-2	7/1/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
VP-2	10/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
VP-2	1/6/2009	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
VP-2	4/8/2009	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 240	< 481	**20.5**	< 1.00
BV-1	4/11/1995	1.4	< 0.5	< 0.5	3.8	--	57	--	--	--	--
BV-1	7/20/1995	2.7	< 0.5	1	9.5	--	96	320	--	--	--
BV-1	10/26/1995	**94**	30	26	160	--	**2,500**	--	--	--	--
BV-1	1/23/1996	4.5	0.65	1.6	17	--	200	< 250	< 750	--	--
BV-1	10/10/1996	1.20	< 0.5	0.614	4.72	--	94.3	< 250	< 750	--	--
BV-1	3/11/1997	2.77	0.509	1.16	10.4	--	86.5	--	--	--	--
BV-1	5/29/1997	3.81	0.656	1.95	19.1	--	204	< 250	< 750	--	--
BV-1	8/5/1997	1.24	< 0.5	0.588	4.42	--	85.1	< 250	< 750	--	--
BV-1	10/23/1997	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	--	--
BV-1	3/11/1998	< 0.5	< 0.5	< 0.5	< 1.0	--	< 80	< 250	< 750	--	--
BV-1	6/30/1998	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	--	--
BV-3	3/3/1995	--	--	--	--	--	--	**14,000**	--	--	--
BV-3	4/10/1995	**5,000**	**4,500**	690	**3,300**	--	**36,000**	--	--	--	--
BV-3	7/20/1995	**6,000**	**8,100**	**1,400**	**8,500**	--	**62,000**	**9,800**	--	--	--
BV-3	10/26/1995	**6,600**	**8,800**	**1,700**	**13,000**	--	**82,000**	**5,100**	**2,600**	--	--
BV-3	10/10/1996	**684**	574	84.7	**1,940**	--	**13,700**	**3,730**	< 750	--	--
BV-3	3/11/1997	**2,140**	**6,610**	**989**	**7,370**	--	**40,700**	**5,810**	< 750	--	--
BV-3	5/29/1997	0.638	< 0.5	< 0.5	< 1.0	--	< 50	414	< 750	--	--
BV-3	8/5/1997	**8.75**	3.14	3.01	53.1	--	556	**1,440**	< 750	--	--
BV-3	10/23/1997	< 0.5	< 0.5	< 0.5	1.63	--	< 50	**661**	< 750	--	--
BV-3	3/11/1998	< 0.5	< 0.5	< 0.5	< 1.0	--	< 80	< 250	< 750	--	--
BV-3	9/25/1998	**644**	**1,180**	638	**4,210**	--	**18,300**	**524**	< 750	--	--
BV-3	12/29/1998	0.997	< 0.5	< 0.5	10.2	--	181	< 250	< 750	--	--
BV-3	3/9/1999	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
BV-3	6/2/1999	**206**	178	235	926	--	**5,380**	< 250	< 750	--	--

Table 2
Groundwater Analytical Data
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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
BV-3	9/27/1999	< 0.500	< 0.500	< 0.500	4.93	--	94.2	< 250	--	--	--
BV-3	12/20/1999	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 282	--	--	--
BV-3	6/30/2000	**77.6**	5.21	10.9	148	--	**1,110**	**507**	< 750	--	--
BV-3	9/27/2000	**62.3**	4.47	119	333	--	**3,170**	**863**	< 750	--	--
BV-4	6/30/1998	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	--	--
BV-4	12/29/1998	**7.59**	< 1.0	< 1.0	< 2.0	--	< 100	< 250	< 750	--	--
BV-4	9/27/1999	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	--	--	--
BV-5	7/20/1995	**3,700**	110	540	**2,200**	--	**26,000**	**18,000**	**30,000**	--	--
BV-5	10/26/1995	**4,000**	520	440	**2,100**	--	**42,000**	**8,200**	**12,000**	--	--
BV-5	1/23/1996	**4,400**	970	**760**	**4,400**	--	**1,300,000**	**7,100**	**8,500**	--	--
BV-5	10/23/1997	1.57	< 0.5	3.31	3.34	--	771	**1,150**	**4,130**	--	--
BV-5	12/29/1998	**79.1**	< 1.25	41.8	8.45	--	**848**	< 250	< 750	--	--
BV-5	9/27/1999	**68.7**	< 1.00	25.1	< 2.00	--	**809**	**3,500**	--	--	--
BV-5	12/20/1999	**53.7**	2.05	3.47	9.94	--	416	**506**	--	--	--
BV-5	3/16/2000	**145**	< 0.500	101	43.3	--	**3,900**	**13,000**	< 8250	--	--
BV-5	11/10/2000	**242**	993	242	876	--	**9,340**	< 250	< 750	--	--
BV-5	3/19/2001	**84.4**	100	99.5	289	< 5.00	**4,540**	**781**	< 750	--	--
BV-6	4/10/1995	**160**	4.4	0.61	8.9	--	120	--	--	--	--
BV-6	10/26/1995	**98**	2.4	< 0.5	3.3	--	< 50	--	--	--	--
BV-7	5/29/1997	**289**	281	4.7	907	--	**28,300**	**28,500**	**62,700**	--	--
BV-7	8/5/1997	**686**	441	< 12.5	751	--	**12,500**	**32,700**	**75,900**	--	--
BV-7	10/23/1997	**769**	**1,350**	15.2	**1,440**	--	**16,200**	**42,400**	**134,000**	--	--
BV-7	9/25/1998	**6,460**	**7,020**	**750**	**11,300**	--	**209,000**	**53,300**	**148,000**	--	--
BV-7	12/29/1998	**7.33**	14.9	< 4.0	< 160	--	**14,700**	**35,700**	**78,800**	--	--
BV-7	3/9/1999	**16.8**	30.8	4.32	54.5	--	**1,490**	**53,700**	**133,000**	--	--
BV-7	6/2/1999	**4,790**	**3,510**	91.8	**1,410**	--	**18,100**	**57,900**	**122,000**	--	--
BV-7	12/20/1999	**29.3**	2.01	1.34	78.8	--	580	< 250	--	--	--

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ARCO Facility No. 980
10822 Roosevelt Way NE, Seattle, Washington 98125

CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
BV-7	6/30/2000	**1,290**	249	< 25.0	826	--	**6,130**	**122,000**	**271,000**	--	--
BV-7	11/10/2000	**1,910**	385	91.1	**1,220**	--	**24,400**	**335,000**	**377,000**	--	--
BV-7	3/19/2001	**1,880**	524	103	**2,110**	**57.2**	**13,100**	**3,060**	< 938	--	--
BV-7	6/27/2001	**1,250**	515	89.1	**2,070**	**52.9**	**11,900**	**2,940**	< 750	--	--
BV-7	9/26/2001	**645**	113	49.5	739	< 50.0	**9,090**	**23,100**	**49,000**	--	--
SVE-1	10/5/1994	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	**61**	--
SVE-1	7/20/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	380	< 750	--	--
SVE-1	12/20/1999	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	--	--	--	--
SVE-1	6/30/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
SVE-1	9/27/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	309	< 847	--	--
SVE-1	6/27/2001	< 0.500	< 0.500	< 0.500	< 1.00	6.02	< 50.0	< 250	< 750	--	--
SVE-1	9/26/2001	< 0.500	< 0.500	< 0.500	< 1.00	14.7	< 50.0	< 250	< 750	--	--
SVE-1	12/3/2001	< 0.500	< 0.500	< 0.500	< 1.00	**25.5**	< 50.0	< 250	< 500	--	--
SVE-1	6/6/2002	< 0.500	< 0.500	< 0.500	< 1.00	2.63	< 50.0	< 250	< 500	< 1.00	< 1.00
SVE-1	6/26/2003	< 0.500	< 0.500	< 0.500	< 1.00	< 5.00	< 50.0	< 287	< 575	3.55	< 1.00
SVE-1	12/9/2003	< 0.500	< 0.500	< 0.500	< 1.00	**21.2**	< 50.0	< 250	< 500	< 1.00	< 1.00
SVE-1	11/16/2004	< 0.200	< 0.500	< 0.500	< 1.00	17.7	< 80.0	< 250	< 500	< 1.00	< 1.00
SVE-1	12/6/2005	< 0.500	< 0.500	< 0.500	< 1.00	6.1	< 50.0	< 243	< 485	< 1.00	< 1.00
SVE-1	6/5/2006	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	--	< 538	< 1.00	< 1.00
SVE-1	9/24/2007	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 238	< 476	--	--
SVE-1	12/31/2007	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
SVE-1	1/30/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	1.61	--
SVE-1	4/2/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	--	--
SVE-1	7/1/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	< 1.00	--
SVE-1	10/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	2.68	--
SVE-1	1/6/2009	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 236	< 472	< 1.00	--
SVE-1	4/8/2009	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	< 50.0	< 243	< 485	12	< 1.00
SVE-2	10/5/1994	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	**47**	--
SVE-2	4/11/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	**610**	< 1000	--	--

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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
SVE-2	7/20/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	360	< 750	--	--
SVE-2	10/25/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	420	< 750	--	--
SVE-2	1/23/1996	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	310	< 750	--	--
SVE-2	4/17/1996	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	--	--
SVE-2	7/8/1996	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	356	< 750	--	--
SVE-2	6/30/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
SVE-2	9/27/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
SVE-3	11/10/2000	**733**	**2,850**	456	**1,960**	--	**20,300**	**1,950**	**6,950**	--	--
SVE-3	6/27/2001	**184**	**1,120**	180	995	< 10.0	**10,600**	**1,560**	**1,980**	--	--
SVE-3	9/26/2001	**82.6**	492	99.4	961	< 20.0	**6,540**	< 250	< 750	--	--
SVE-3	12/3/2001	**72.3**	549	67.6	600	< 50.0	**3,360**	**2,410**	**10,800**	--	--
SVE-3	6/6/2002	**50.7**	31.0	86.8	168	< 2.00	**1,910**	--	--	--	--
SVE-3	6/26/2003	**90.6**	169	238	981	< 2.50	**7,030**	--	--	--	--
SVE-3	12/9/2003	**34.4**	44.8	82.9	220	< 2.50	**3,190**	**14,000**	**59,900**	**24.2**	< 1.00
SVE-3	4/7/2004	**11.60**	12.5	37.3	70.9	< 1.00	**3,610**	**2,180**	**8,300**	4.30	< 1.00
SVE-3	11/16/2004	4.35	0.650	9.44	17.5	< 2.00	614	**6,080**	**23,200**	3.36	< 1.00
SVE-3	3/29/2005	0.780	< 0.500	0.700	1.28	< 2.00	141	367	**1,610**	**26**	--
SVE-3	6/22/2005	1.59	< 0.500	9.01	15.8	< 2.00	730	**4,210**	**16,900**	**37**	< 1.00
SVE-3	9/12/2005	**31.6**	724	344	**1,480**	< 2.00	**7,190**	**13,200**	**61,000**	**40.9**	< 1.00
SVE-3	12/6/2005	1.41	0.83	11.5	23.2	< 1.00	**845**	**617**	**788**	< 1.00	< 1.00
SVE-3	6/5/2006	< 0.500	< 0.500	5.66	20.6	< 1.00	**9,870**	**12,300**	**45,300**	1.36	< 1.00
SVE-3	12/19/2006	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	--	--	--	--
SVE-3	9/24/2007	2.42	0.81	91.1	134	< 1.00	**4,830**	**1,600**	**9,260**	--	--
SVE-3	1/30/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	175	< 238	< 476	--	--
SVE-3	5/25/2010	1.4	130	24	110	< 1.00	**1,700**	**1,800**	**4,300**	3.8	< 2.00
SVE-3	12/7/2010	< 0.50	< 0.50	11	13	< 1.0	590	**2,700**	**20,000**	4.0	< 2.0
SVE-3	1/26/2011	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 50	**1,100**	**8,500**	4.3	< 2.0
SVE-3	6/16/2011	< 0.50	< 0.50	9.3	6.9	< 1.0	320	**2,100**	**5,400**	7.7	< 2.0
SVE-3	6/19/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	< 160	< 800	< 10.0	< 10.0

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Groundwater Analytical Data
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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
AS-1	7/20/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	**6,100**	**7,900**	--	--
AS-2	2/15/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	**12,000**	**45,000**	**430**	--
AS-2	7/20/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	**8,400**	**6,800**	--	--
AS-3	10/5/1994	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	**22**	--
AS-3	7/20/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	**1,500**	**2,600**	--	--
B1 (JPHC)	1/23/1996	**1,500**	**1,200**	**1,200**	**7,900**	--	**3,900,000**	**7,200**	**15,000**	--	--
B1 (JPHC)	3/11/1997	< 2.50	< 2.50	< 2.50	< 5.0	--	**2,600**	**16,500**	**34,300**	--	--
B1 (JPHC)	5/29/1997	< 0.5	< 0.5	< 0.5	< 1.0	--	**934**	**14,000**	**32,400**	--	--
B1 (JPHC)	8/5/1997	< 0.5	< 0.5	< 0.5	< 1.0	--	238	**7,500**	**16,100**	--	--
B1 (JPHC)	10/23/1997	< 0.5	< 0.5	< 0.5	< 1.0	--	240	**75,500**	**280,000**	--	--
B1 (JPHC)	3/11/1998	3.15	13.6	2.1	31.4	--	**894**	< 250	< 750	--	--
B1 (JPHC)	6/30/1998	**203**	< 10.0	< 10.0	< 60.0	--	**23,100**	**3,540**	--	--	--
B1 (JPHC)	12/29/1998	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	**1,170**	**2,730**	--	--
B1 (JPHC)	3/9/1999	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	**746**	**1,830**	--	--
B1 (JPHC)	6/2/1999	**57.3**	5.34	0.729	5.70	--	196	**1,050**	**1,530**	--	--
B1 (JPHC)	3/16/2000	**538**	119	42.6	142	--	**2,170**	**4,580**	**1,880**	--	--
B1 (JPHC)	6/30/2000	**1,430**	629	155	658	--	**6,510**	**4,820**	**973**	--	--
B1 (JPHC)	9/27/2000	**1,180**	203	62.0	309	--	**6,780**	**6,490**	**8,870**	--	--
B1 (JPHC)	11/10/2000	**2,260**	456	159	621	--	**8,610**	**2,230**	**5,090**	--	--
B1 (JPHC)	3/19/2001	**1,400**	569	138	672	**212**	**9,680**	**1,360**	**1,450**	--	--
B1 (JPHC)	6/27/2001	**1,360**	**2,230**	419	**2,060**	< 125	**47,300**	**73,900**	**132,000**	--	--
B1 (JPHC)	9/26/2001	**1,930**	**1,370**	**1,180**	**8,990**	**40.4**	**4,790,000**	**197,000**	**304,000**	--	--
B1 (JPHC)	12/3/2001	**204**	727	290	**1,790**	**48.7**	**40,500**	**14,300**	**28,200**	--	--
B1 (JPHC)	6/26/2003	**2,850**	286	584	**2,570**	19.1	**31,600**	**185,000**	**263,000**	**447**	14.3
B1 (JPHC)	12/9/2003	**454**	10.7	34.8	354	< 5.00	**4,650**	**10,700**	**20,500**	4.60	1.62
B1 (JPHC)	4/7/2004	**2,650**	428	383	**1,730**	< 100	**24,500**	**11,200**	**20,200**	5.13	13.3
B1 (JPHC)	11/16/2004	**3,470**	15	260	**1,190**	< 40.0	**45,000**	**6,730**	**3,770**	9.55	1.39
B1 (JPHC)	3/29/2005	**3,800**	267	600	**2,330**	< 40.0	**19,500**	**50,400**	**18,600**	**26.6**	--

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	CONSTITUENT	B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
B1 (JPHC)	6/22/2005	**594**	80.8	326	**1,450**	< 10.0	**9,760**	**13,300**	**7,820**	**24.5**	1.73
B1 (JPHC)	9/12/2005	**3,890**	64.4	**986**	**4,280**	**25.4**	**115,000**	**4,270**	**7,990**	**69.4**	11.5
B1 (JPHC)	12/6/2005	**5,400**	99.0	625	**2,220**	< 100	**25,400**	**6,360**	**12,700**	4.1	1.51
B1 (JPHC)	6/5/2006	**4,440**	75.0	316	885	< 100	**16,800**	**4,750**	--	**21.5**	1.56
B1 (JPHC)	12/19/2006	**17.8**	< 0.500	< 0.500	34.2	--	**4,140**	--	--	--	--
B1 (JPHC)	7/1/2008	< 0.500	< 0.500	< 0.500	< 3.00	4.44	486	252	**671**	4.39	--
B1 (JPHC)	10/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	2.82	**5,870**	**4,260**	**10,400**	**18.4**	--
B1 (JPHC)	1/6/2009	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	163	**2,270**	**7,700**	8.21	--
B1 (JPHC)	4/8/2009	< 0.500	< 0.500	< 0.500	1.13	1.12	185	< 245	< 490	5.36	5.19
B1 (JPHC)	7/8/2009	**24.6**	< 0.500	< 0.500	< 1.00	< 2.00	152	< 240	< 481	6.81	5.74
B1 (JPHC)	10/6/2009	**54**	1.2	3.6	< 2.00	< 1.00	**950**	315	**534**	**31**	5.6
B1 (JPHC)	1/6/2010	**110**	2.2	9.5	10	< 1.00	**1,000**	**810**	< 240	7.7	6.9
B1 (JPHC)	5/25/2010	**250**	11	26	64	< 1.00	**1,400**	**13,000**	**720**	13	6.5
B1 (JPHC)	8/19/2010	**280**	26	32	120	< 1.00	**2,000**	**11,000**	**780**	11	5.0
B1 (JPHC)	12/7/2010	**150**	42	39	160	< 1.0	**2,900**	**4,700**	**650**	6.6	4.8
B1 (JPHC)	1/26/2011	**41**	16	21	100	< 1.0	**1,200**	**3,000**	370	4.9	4.1
B1 (JPHC)	6/16/2011	**140**	8.2	52	340	< 1.0	**4,600**	**7,700**	**1,600**	8.0	4.2
B1 (JPHC)	9/22/2011	3.3	< 0.50	2.7	9.2	1.5	520	304	< 476	3.3	< 2.0
B1 (JPHC)	12/6/2011	< 1.0	< 1.0	< 1.0	< 3.0	1.6	337	129	< 381	< 10.0	< 10.0
B1 (JPHC)	3/8/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	83.0	86.6	< 400	< 10.0	< 10.0
B1 (JPHC)	6/19/2012	**16.9**	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	**697**	< 800	< 10.0	< 10.0
B1 (JPHC)	9/21/2012	**37.5**	< 1.0	< 1.0	< 3.0	< 1.0	448	232	**546**	< 10.0	< 10.0
B1 (JPHC)	12/11/2012	**9.4**	< 1.0	< 1.0	< 3.0	< 1.0	359	**989**	464	< 3.0	< 3.0
B1 (JPHC)	6/26/2013	**150**	2.2	23	41	< 0.50	**1,000**	140	250	11	11
B1 (JPHC)	9/26/2013	**150**	3.6	29	75	< 0.50	**990**	< 260	< 260	< 10.0	< 10.0
B1 (JPHC)	11/15/2013	**200 D**	4.4	31	89	< 0.50	**1,000 Y**	< 260	< 260	< 10.0	< 10.0
B1 (JPHC)	2/13/2014	**150**	3.9	29	86	< 1.0	**2,100**	**4,800 BY**	**670 BY**	2.0	1.3 J
B1 (JPHC)	4/2/2014	**110**	3.4 J	23	70	< 0.74	**1,800**	**4,500 BY**	410 BY	1.4 J	0.93 J
B1 (JPHC)	7/11/2014	**140**	3.9	32	100	< 0.17	**1,600 B**	**5,400 BY**	**600 Y**	1.4 J	1.0 J
B1 (JPHC)	10/22/2014	**160**	4.9	39	180 B	0.20 J	**2,500 B**	**2,300 Y**	30 J	1.4 JB	0.60 J
B1 (JPHC)	1/21/2015	**130**	2.4	21	88	< 0.17	**1,700**	**4,600 H1BY^**	300 H1Y^	0.51 J	0.39 J

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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
B1 (JPHC)	12/16/2015	**89**	2	15	36	< 0.17	**1,600**	**2,600**	330	--	--
B1 (JPHC)	3/11/2016	**80**	0.99 J	7.9	22	0.27 J	**950**	**4,300**	**1,000**	0.27 J	< 0.17
B1 (JPHC)	6/1/2016	**93**	2.1	10	34	< 0.11	**1,400**	**4,400**	**1,000**	1.6 J	0.32 J
B1 (JPHC)	8/29/2016	**140**	3.3	15	79	< 1.0 *	**1,900**	**3,300 B**	410 B	0.39 J	0.39 J
B1 (JPHC)	11/21/2016	**120**	3.0	15	78	< 1.0	**2,100**	**4,400**	**1,300**	< 2.0	< 2.0
B1 (JPHC)	2/15/2017	**86**	< 2.0	10	40	< 1.0	**1,600**	**3,800**	**880**	< 2.0	< 2.0
B1 (JPHC)	5/26/2017	**67**	< 2.0	6.3	24 F1	< 2.0	**1,100 F1**	**4,200**	**1,200**	< 4.0	< 4.0
B1 (JPHC)	10/17/2017	**97**	2.0	7.7	48	< 2.0	**1,700**	**4,600**	**1,300**	< 4.0	< 4.0
B1 (JPHC)	2/8/2018	**88**	< 2.0	6.6	39	< 2.0	**1,400**	**3,700**	**1,500**	< 4.0	< 4.0
B1 (JPHC)	9/11/2018	**130**	< 2.0	6.0	38	< 1.0	**1,600**	**5,100**	**2,000**	< 4.0	< 4.0
B1 (JPHC)	11/15/2018	**130**	2.4	6.3	51	< 1.0	**2,500**	**5,300**	**3,000**	< 4.0	< 4.0
B1 (JPHC)	1/29/2019	**57**	< 2.0	3.7	34	< 1.0	**1,800**	**3,600**	**2,100**	< 4.0	< 4.0
B1 (JPHC)	9/26/2019	**80**	3.2	3.1	39	< 2.0	**1,700**	**3,900**	**2,200**	< 4.0	< 4.0
B1 (JPHC)	3/9/2020	**11**	< 2.0	< 3.0	11	< 2.0	**980**	**1,200 **1**	< 360 **1	< 4.0	< 4.0
B1 (JPHC)	9/28/2020	**13**	< 2.0	< 3.0	11	< 2.0	**870**	**2,200**	**1,300**	< 4.0	< 4.0
B1 (JPHC)	3/23/2021	**9.4**	< 1.0	< 1.0	3.4	< 1.0	640	**1,600**	**1,000**	< 2.0	< 2.0
B1 (JPHC)	11/8/2021	**19**	< 1.0	1.4	9.3	< 1.0	**910**	**2,500**	**1,700**	< 2.0	< 2.0
B1 (JPHC)	12/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	**670**	< 360	2.2	< 2.0
B3 (JPHC)	2/15/1995	1.0	< 0.5	< 0.5	< 1.0	--	< 50	340	**1,200**	10	--
B3 (JPHC)	4/11/1995	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	--	--	--	--
B3 (JPHC)	7/20/1995	< 0.5	0.90	< 0.5	2.6	--	91	370	< 750	--	--
B3 (JPHC)	10/25/1995	0.57	2.6	0.84	9.0	--	750	**810**	**1,600**	--	--
B3 (JPHC)	1/23/1996	0.64	11	3.6	35.0	--	**5,400**	**810**	**1,900**	--	--
B3 (JPHC)	4/17/1996	< 0.5	1.0	< 0.5	< 1.0	--	80	330	< 750	--	--
B3 (JPHC)	7/8/1996	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	415	< 750	--	--
B3 (JPHC)	10/10/1996	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
B3 (JPHC)	3/11/1997	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	407	< 750	--	--
B3 (JPHC)	5/29/1997	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	402	**1,180**	--	--
B3 (JPHC)	8/5/1997	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	269	< 750	--	--
B3 (JPHC)	3/11/1998	< 0.5	< 0.5	< 0.5	< 1.0	--	< 80	< 250	< 750	--	--

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CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
B3 (JPHC)	6/30/1998	< 0.5	< 0.5	< 0.5	< 1.0	--	76.6	< 250	--	--	--
B3 (JPHC)	9/25/1998	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
B3 (JPHC)	12/29/1998	< 2.5	< 2.5	< 2.5	< 5.0	--	< 250	< 250	< 750	--	--
B3 (JPHC)	3/9/1999	< 0.5	< 0.5	< 0.5	< 1.0	--	< 50	< 250	< 750	--	--
B3 (JPHC)	6/2/1999	< 0.500	5.43	< 0.500	4.39	--	51.9	< 250	< 750	--	--
B3 (JPHC)	12/20/1999	< 0.500	< 0.500	< 0.500	< 1.00	--	98.2	< 250	--	--	--
B3 (JPHC)	9/27/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 50.0	< 250	< 750	--	--
B3 (JPHC)	11/10/2000	< 0.500	< 0.500	< 0.500	< 1.00	--	< 80.0	< 250	< 750	--	--
B3 (JPHC)	3/19/2001	< 0.500	< 0.500	< 0.500	< 1.00	**204**	< 50.0	**1,180**	**2,750**	--	--
B3 (JPHC)	6/27/2001	< 0.500	< 0.500	< 0.500	< 1.00	9.44	< 50.0	< 250	< 750	--	--
B3 (JPHC)	9/26/2001	< 0.500	< 0.500	< 0.500	< 1.00	8.06	< 50.0	< 250	< 750	--	--
B3 (JPHC)	12/3/2001	< 0.500	< 0.500	< 0.500	< 1.00	**49.3**	< 50.0	< 250	< 500	--	--
B3 (JPHC)	6/6/2002	< 0.500	1.05	< 0.500	< 1.00	5.03	< 50.0	< 250	< 500	**23.5**	< 1.00
B3 (JPHC)	6/26/2003	< 0.500	< 0.500	1.30	7.36	< 1.00	296	289	< 500	11.3	< 1.00
B3 (JPHC)	12/9/2003	< 0.500	< 0.500	< 0.500	< 1.00	1.61	< 50.0	< 250	< 500	< 1.00	< 1.00
B3 (JPHC)	11/16/2004	< 0.200	< 0.500	< 0.500	< 1.00	3.76	< 80.0	< 250	< 500	2.28	< 1.00
B3 (JPHC)	3/29/2005	< 0.200	< 0.500	< 0.500	< 1.00	2.58	< 80.0	< 250	< 500	2.09	--
B3 (JPHC)	6/22/2005	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	< 80.0	291	< 500	**18.9**	< 1.00
B3 (JPHC)	9/12/2005	< 0.500	< 0.500	< 0.500	< 1.00	3.82	< 50.0	< 250	< 500	4.12	< 1.00
B3 (JPHC)	12/6/2005	< 0.500	< 0.500	< 0.500	< 1.00	4.49	74.3	253	< 485	3.25	< 1.00
B3 (JPHC)	6/5/2006	< 0.500	< 0.500	< 0.500	< 1.00	1.17	< 50.0	< 278	< 556	1.95	< 1.00
B3 (JPHC)	9/24/2007	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 245	< 490	--	--
B3 (JPHC)	1/29/2008	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	< 50.0	< 238	< 476	1.59	--
B3 (JPHC)	7/1/2008	< 0.500	< 0.500	< 0.500	< 3.00	15.6	< 50.0	< 236	< 472	< 1.00	--
B3 (JPHC)	10/3/2008	< 0.500	< 0.500	< 0.500	< 3.00	**23.5**	< 50.0	< 236	< 472	**16.9**	--
B3 (JPHC)	1/6/2009	< 0.500	< 0.500	< 0.500	< 3.00	**24.1**	< 50.0	< 236	< 472	7.6	--
B3 (JPHC)	4/8/2009	< 0.500	< 0.500	< 0.500	< 1.00	5.94	< 50.0	< 240	< 481	1.62	< 1.00
B3 (JPHC)	7/8/2009	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	< 80.0	**842**	< 472	< 1.00	< 1.00
B3 (JPHC)	10/6/2009	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	130	< 236	< 472	7.6	< 2.00
B3 (JPHC)	1/6/2010	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 50.0	< 120	< 240	< 2.00	< 2.00
B3 (JPHC)	5/25/2010	< 0.50	< 0.50	< 0.50	< 1.00	< 1.00	< 50.0	< 120	< 240	< 2.00	< 2.00

Table 2
Groundwater Analytical Data
ARCO Facility No. 980
10822 Roosevelt Way NE, Seattle, Washington 98125

	CONSTITUENT	B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
B3 (JPHC)	8/19/2010	< 0.50	< 0.50	< 0.50	< 1.00	< 1.00	< 50.0	340	420	6.1	< 2.00
B3 (JPHC)	12/7/2010	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 50	< 120	< 240	6.1	< 2.0
B3 (JPHC)	1/26/2011	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 50	< 120	< 240	< 2.0	< 2.0
B3 (JPHC)	6/16/2011	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 50	260	450	2.3	< 2.0
B3 (JPHC)	9/22/2011	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 50	< 95.2	< 476	< 2.0	< 2.0
B3 (JPHC)	12/6/2011	< 1.0	< 1.0	< 1.0	< 3.0	2.2	< 50.0	< 80.0	< 400	< 10.0	< 10.0
B3 (JPHC)	3/8/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	< 78.4	< 392	< 10.0	< 10.0
B3 (JPHC)	6/19/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	< 160	< 800	< 10.0	< 10.0
B3 (JPHC)	9/21/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 50.0	< 80.8	< 404	< 10.0	< 10.0
B3 (JPHC)	12/11/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 100	< 182	444	< 3.0	< 3.0
B3 (JPHC)	6/26/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 250	22	< 10	< 10
B3 (JPHC)	9/26/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 260	< 260	< 10.0	< 10.0
B3 (JPHC)	11/15/2013	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 50	< 260	< 260	< 10.0	< 10.0
B3 (JPHC)	2/13/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	16 J	44	46	< 2.0	< 2.0
B3 (JPHC)	4/2/2014	< 1.1	< 0.89	< 0.89	< 0.82	< 0.74	14 J	76 JB	80 JB	< 0.17	< 0.17
B3 (JPHC)	7/11/2014	< 0.14	< 0.16	< 0.13	0.13 J	< 0.17	15 JB	140 BY	130 J	0.22 J	0.77 J
B3 (JPHC)	10/22/2014	< 1.0	< 1.0	< 1.0	0.18 JB	0.72 J	< 50	210 Y	67 J	< 2.0	< 2.0
B3 (JPHC)	1/20/2015	< 0.14	< 0.16	< 0.13	< 0.12	< 0.17	31 J	210 H1BY^	170 J^H1	< 0.17	< 0.17
B3 (JPHC)	12/14/2015	< 0.42	< 0 *	< 0.51	< 0.50	0.19 J	< 27	57	< 30	--	--
B3 (JPHC)	3/11/2016	< 0.025	< 0.025	< 0.030	< 0.060	0.058 J	44 J	130	200 J	< 0.17	< 0.17
B3 (JPHC)	8/29/2016	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0 *	< 50	51 JB	34 JB	< 2.0	< 2.0
B3 (JPHC)	11/21/2016	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 50	110	< 250	< 2.0	< 2.0
B3 (JPHC)	2/15/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 50	140	< 250	< 2.0	< 2.0
B3 (JPHC)	5/26/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 500	150	< 260	< 4.0	< 4.0
B3 (JPHC)	10/17/2017	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	230	< 250	< 4.0	< 4.0
B3 (JPHC)	2/8/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	160	< 430	< 4.0	< 4.0
B3 (JPHC)	9/11/2018	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	< 250	**5,000**	**1,900**	< 4.0	< 4.0
B3 (JPHC)	9/26/2019	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	180	< 350	< 4.0	< 4.0
B3 (JPHC)	3/9/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	< 250	< 110 **1	< 360 **1	< 4.0	< 4.0
B3 (JPHC)	3/23/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	< 110	< 370	< 2.0	< 2.0

Table 2
Groundwater Analytical Data
ARCO Facility No. 980
10822 Roosevelt Way NE, Seattle, Washington 98125

CONSTITUENT		B	T	E	X	MTBE	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
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**800**	**500**	**500**	**15**	**15**
IW-1	11/17/2017	--	--	--	--	--	--	--	--	3.1	--
IW-1	12/7/2017	**11**	2.5	25	310	--	**9,800**	--	--	--	--

Notes:
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes, Total
MTBE = Methyl-tertiary-butyl ether
EDB = 1,2-Dibromo-ethane
EDC = 1,2-Dichloro-ethane
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
1,000/800[1] ug/L if no detectable levels of Benzene in the sample - otherwise 800 ug/L
NE = Not evaluated
<1.0 = Concentrations were not detected above the laboratory method reporting limit.
ug/L = Micrograms per liter (ppb)
ND = Not detected
-- = 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
* = LCS or LCSD is outside acceptance limits
*1 = LCS/LCSD RPD exceeds control limits.
Y = The chromatographic response resembles a typical fuel pattern.
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B = Compound was found in the blank and sample.
H & H1 = Sample was prepped or analyzed beyond the specific holding time
F1 = MS and/or MSD Recovery is outside acceptance limits.
F2 = MS/MSD RPD exceeds control limits.

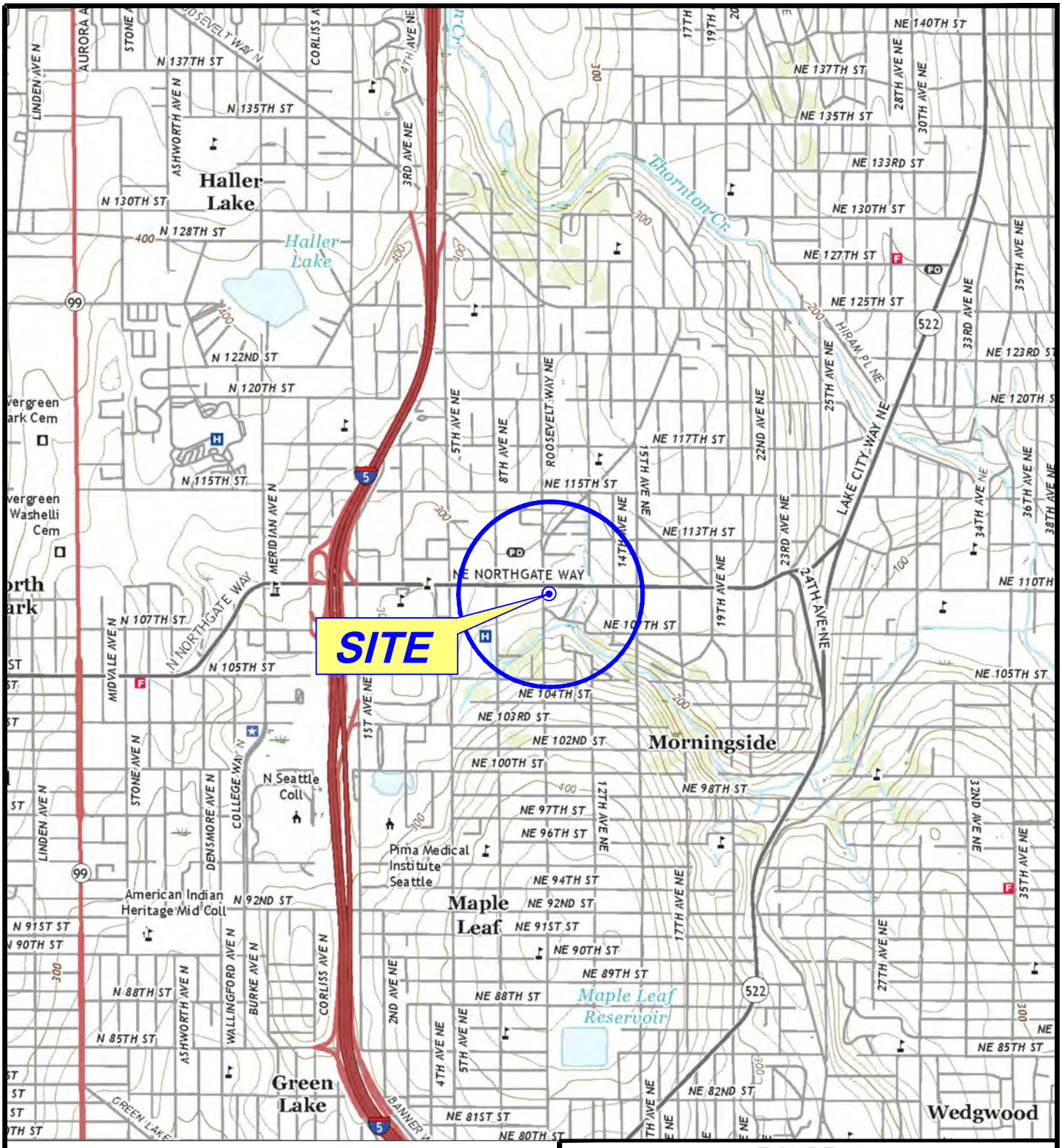
Table 2
Groundwater Analytical Data
ARCO Facility No. 980
10822 Roosevelt Way NE, Seattle, Washington 98125

CONSTITUENT / UNIT	B ug/L	T ug/L	E ug/L	X ug/L	MTBE 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**	**800**	**500**	**500**	**15**	**15**

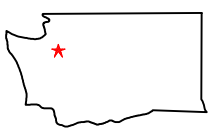
^ = Re-extraction and re-analysis of samples was performed beyond the specified holding time as the LCS or LCSD exceeded control limits and the compound was found in the blank and sample.

D = The reported result is from a dilution.

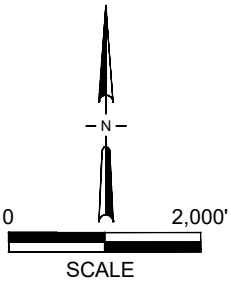
Figures



GENERAL NOTES:
BASE MAP FROM TOPO!
SEATTLE NORTH E., WA. QUADRANGLE
7.5 MINUTE TOPOGRAPHIC MAP



QUADRANGLE LOCATION



SCALE

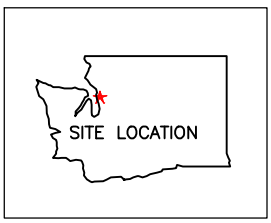
FIGURE 1
SITE LOCATION MAP

ARCO FACILITY NO. 980
10822 ROOSEVELT WAY NE
SEATTLE, WASHINGTON

PROJECT NO. WA - 00980 SEATTLE		DRAWN BY J. HIGHFILL	
FILE NO. 0980-SLM18		PREPARED BY M. BERNARD	
DATE 12 Dec 18	REV. 0	REVIEWED BY	

antea group

GENERAL NOTES:
BASE MAP FROM GOOGLE EARTH 2018



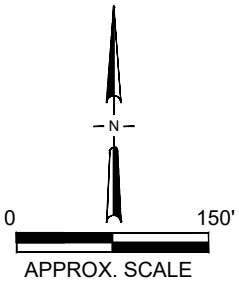
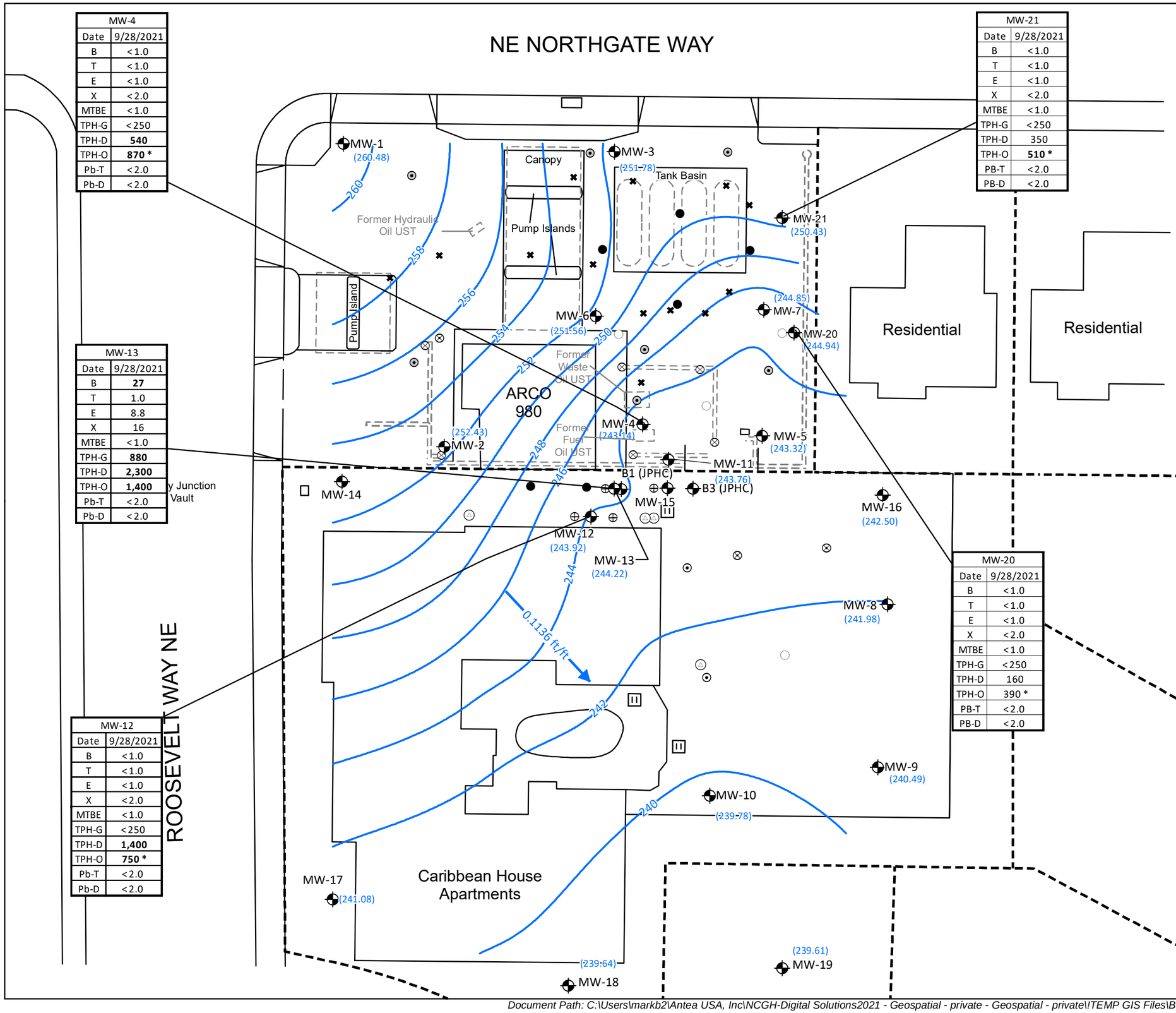


FIGURE 2
SITE AERIAL MAP

ARCO FACILITY NO. 0980
10822 ROOSEVELT WAY NE
SEATTLE, WASHINGTON

PROJECT NO. WA - 00980 SEATTLE	DRAWN BY J. HIGHFILL	
FILE NO. 980G-SAM18	PREPARED BY M. BERNARD	
DATE 12 DEC 18 / REV. 1	REVIEWED BY	

antea group



MW-4	
Date	9/28/2021
B	<1.0
T	<1.0
E	<1.0
X	<2.0
MTBE	<1.0
TPH-G	<250
TPH-D	**540**
TPH-O	**870 ***
Pb-T	<2.0
Pb-D	<2.0

MW-21	
Date	9/28/2021
B	<1.0
T	<1.0
E	<1.0
X	<2.0
MTBE	<1.0
TPH-G	<250
TPH-D	350
TPH-O	**510 ***
PB-T	<2.0
PB-D	<2.0

MW-13	
Date	9/28/2021
B	**27**
T	1.0
E	8.8
X	16
MTBE	<1.0
TPH-G	**880**
TPH-D	**2,300**
TPH-O	**1,400**
Pb-T	<2.0
Pb-D	<2.0

MW-12	
Date	9/28/2021
B	<1.0
T	<1.0
E	<1.0
X	<2.0
MTBE	<1.0
TPH-G	<250
TPH-D	**1,400**
TPH-O	**750 ***
Pb-T	<2.0
Pb-D	<2.0

MW-20	
Date	9/28/2021
B	<1.0
T	<1.0
E	<1.0
X	<2.0
MTBE	<1.0
TPH-G	<250
TPH-D	160
TPH-O	390 *
PB-T	<2.0
PB-D	<2.0

LEGEND

- GROUNDWATER MONITORING WELL
- AIR SPARGING WELL LOCATION
- EXTRACTION WELL LOCATION
- SOIL VAPOR EXTRACTION WELL
- INJECTION WELL LOCATION INSTALLED BY INNOVEX
- SOIL VAPOR EXTRACTION / VACUUM PRESSURE MONITORING POINT
- BIOVENTING WELL LOCATION
- SOIL GAS PROBE LOCATION
- SOIL BORING LOCATION
- SOIL SAMPLING LOCATION
- GROUNDWATER ELEVATION CONTOUR (FT)
- INFERRED GROUNDWATER FLOW DIRECTION
- PROPERTY BOUNDARY
- SITE FEATURES
- FORMER SITE FEATURES
- CATCH BASIN

(242.50) Groundwater Elevation in Feet Referenced to the National Geodetic Vertical Datum (1929)

MW-#	Well ID
Date	Sample Date
B	Benzene
T	Toluene
E	Ethybenzene
X	Total Xylenes
MTBE	Methyl tert-butyl ether
TPH-G	Gasoline Range Organics
TPH-D	Diesel Range Organics
TPH-O	Oil Range Organics
Pb-T	Total Lead
Pb-D	Dissolved Lead

Results in bold exceed applicable action limits
All results given in micrograms per liter (ug/L)
< = Not detected at or above indicated laboratory reporting limit

0 5 10 20 30 40 Feet

N

FIGURE 4

GROUNDWATER ANALYTICAL AND ELEVATION CONTOUR MAP
SEPTEMBER 28, 2021
ARCO FACILITY NO. 980
10822 ROOSEVELT WAY NE
SEATTLE, WASHINGTON

PROJECT NO.	PREPARED BY	REF SCALE
WA – 00980 Seattle	MB/GP	1:360
DATE	REVIEWED BY	MAP SCALE
1/25/2022	MR	1 inch = 30 feet

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NE NORTHGATE WAY

MW-4		
Date	11/08/2021	12/13/2021
B	< 1.0	< 1.0
T	< 1.0	< 1.0
E	< 1.0	< 1.0
X	< 2.0	< 2.0
MTBE	< 1.0	< 1.0
TPH-G	< 250	< 250
TPH-D	**550**	340
TPH-O	**650**	**730**
Pb-T	< 2.0	< 2.0
Pb-D	< 2.0	< 0.40

MW-11	
Date	11/05/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	**720**
TPH-O	**790**
Pb-T	< 2.0
Pb-D	< 2.0

MW-13	
Date	11/08/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	15
MTBE	< 1.0
TPH-G	790
TPH-D	**590**
TPH-O	410
Pb-T	2.5
Pb-D	< 2.0

MW-15	
Date	11/08/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	130
TPH-O	< 360
Pb-T	< 2.0
Pb-D	< 2.0

MW-12		
Date	11/08/2021	12/13/2021
B	< 1.0	< 1.0
T	< 1.0	< 1.0
E	< 1.0	< 1.0
X	< 2.0	< 2.0
MTBE	< 1.0	< 1.0
TPH-G	< 250	< 250
TPH-D	**3,100**	470
TPH-O	**1,600**	**860**
Pb-T	< 2.0	< 2.0
Pb-D	< 2.0	< 2.0

MW-10		
Date	11/08/2021	12/13/2021
B	< 1.0	< 1.0
T	< 1.0	< 1.0
E	< 1.0	< 1.0
X	< 2.0	< 2.0
MTBE	< 1.0	< 1.0
TPH-G	< 250	< 250
TPH-D	110	< 110
TPH-O	< 360	< 360
Pb-T	< 2.0	< 2.0
Pb-D	< 2.0	< 2.0

B-1		
Date	11/08/2021	12/13/2021
B	**19**	< 1.0
T	< 1.0	< 1.0
E	1.4	< 1.0
X	9.3	< 2.0
MTBE	< 1.0	< 1.0
TPH-G	**910**	< 250
TPH-D	**2,500**	**670**
TPH-O	**1,700**	< 360
Pb-T	< 2.0	2.2
Pb-D	< 2.0	< 2.0

MW-19	
Date	11/08/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	< 110
TPH-O	< 360
Pb-T	< 2.0
Pb-D	< 2.0

MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21

Canopy
Tank Basin
Pump Islands
Former Hydraulic Oil UST
Pump Island
Former Waste Oil UST
Former Fuel Oil UST
ARCO 980
Residential
Residential
Utility Junction Vault
B1 (JPHC)
B3 (JPHC)
ROOSEVELT WAY NE

LEGEND

- GROUNDWATER MONITORING WELL
- AIR SPARGING WELL LOCATION
- EXTRACTION WELL LOCATION
- SOIL VAPOR EXTRACTION WELL
- INJECTION WELL LOCATION INSTALLED BY INNOVEX
- SOIL VAPOR EXTRACTION / VACUUM PRESSURE MONITORING POINT
- BIOVENTING WELL LOCATION
- SOIL GAS PROBE LOCATION
- SOIL BORING LOCATION
- SOIL SAMPLING LOCATION
- PROPERTY BOUNDARY
- SITE FEATURES
- FORMER SITE FEATURES
- CATCH BASIN

Well ID	
Date	Sample Date
B	Benzene
T	Toluene
E	Ethybenzene
X	Total Xylenes
MTBE	Methyl Tert-Butyl Ether
TPH-G	Gasoline Range Organics
TPH-D	Diesel Range Organics
TPH-O	Oil Range Organics
Pb-T	Total Lead
Pb-D	Dissolved Lead

Results in bold exceed applicable action limits
All results given in micrograms per liter (ug/L)
< = Not detected at or above indicated laboratory reporting limit

0 5 10 20 30 40 Feet

N

FIGURE 4

GROUNDWATER ANALYTICAL DATA MAP
NOVEMBER 5 & 8 & DECEMBER 13, 2021
ARCO FACILITY NO. 980
10822 ROOSEVELT WAY NE
SEATTLE, WASHINGTON

PROJECT NO.	PREPARED BY	REF SCALE
WA-00980 SEATTLE	JDF	1:360
DATE	REVIEWED BY	MAP SCALE
02/11/2022	SC	1 inch = 30 feet

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NE NORTHGATE WAY

ROOSEVELT WAY NE

MW-4		
Date	11/08/2021	12/13/2021
B	< 1.0	< 1.0
T	< 1.0	< 1.0
E	< 1.0	< 1.0
X	< 2.0	< 2.0
MTBE	< 1.0	< 1.0
TPH-G	< 250	< 250
TPH-D	**550**	340
TPH-O	**650**	**730**
Pb-T	< 2.0	< 2.0
Pb-D	< 2.0	< 0.40

MW-13	
Date	11/08/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	15
MTBE	< 1.0
TPH-G	790
TPH-D	**590**
TPH-O	410
Pb-T	2.5
Pb-D	< 2.0

MW-12		
Date	11/08/2021	12/13/2021
B	< 1.0	< 1.0
T	< 1.0	< 1.0
E	< 1.0	< 1.0
X	< 2.0	< 2.0
MTBE	< 1.0	< 1.0
TPH-G	< 250	< 250
TPH-D	**3,100**	470
TPH-O	**1,600**	**860**
Pb-T	< 2.0	< 2.0
Pb-D	< 2.0	< 2.0

MW-11	
Date	11/05/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	**720**
TPH-O	**790**
Pb-T	< 2.0
Pb-D	< 2.0

MW-15	
Date	11/08/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	130
TPH-O	< 360
Pb-T	< 2.0
Pb-D	< 2.0

MW-10		
Date	11/08/2021	12/13/2021
B	< 1.0	< 1.0
T	< 1.0	< 1.0
E	< 1.0	< 1.0
X	< 2.0	< 2.0
MTBE	< 1.0	< 1.0
TPH-G	< 250	< 250
TPH-D	110	< 110
TPH-O	< 360	< 360
Pb-T	< 2.0	< 2.0
Pb-D	< 2.0	< 2.0

B-1		
Date	11/08/2021	12/13/2021
B	**19**	< 1.0
T	< 1.0	< 1.0
E	1.4	< 1.0
X	9.3	< 2.0
MTBE	< 1.0	< 1.0
TPH-G	**910**	< 250
TPH-D	**2,500**	**670**
TPH-O	**1,700**	< 360
Pb-T	< 2.0	2.2
Pb-D	< 2.0	< 2.0

MW-19	
Date	11/08/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	< 110
TPH-O	< 360
Pb-T	< 2.0
Pb-D	< 2.0

MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21

Canopy, Tank Basin, Pump Islands, Pump Island, Former Hydraulic Oil UST, Former Waste Oil UST, Former Fuel Oil UST, ARCO 980, Utility Junction Vault, Residential, Residential

B1 (JPHC), B3 (JPHC)

LEGEND

- GROUNDWATER MONITORING WELL
- AIR SPARGING WELL LOCATION
- EXTRACTION WELL LOCATION
- SOIL VAPOR EXTRACTION WELL
- INJECTION WELL LOCATION INSTALLED BY INNOVEX
- SOIL VAPOR EXTRACTION / VACUUM PRESSURE MONITORING POINT
- BIOVENTING WELL LOCATION
- SOIL GAS PROBE LOCATION
- SOIL BORING LOCATION
- SOIL SAMPLING LOCATION
- PROPERTY BOUNDARY
- SITE FEATURES
- FORMER SITE FEATURES
- CATCH BASIN

Well ID	
Date	Sample Date
B	Benzene
T	Toluene
E	Ethybenzene
X	Total Xylenes
MTBE	Methyl Tert-Butyl Ether
TPH-G	Gasoline Range Organics
TPH-D	Diesel Range Organics
TPH-O	Oil Range Organics
Pb-T	Total Lead
Pb-D	Dissolved Lead

Results in bold exceed applicable action limits
All results given in micrograms per liter (ug/L)
< = Not detected at or above indicated laboratory reporting limit

0 5 10 20 30 40 Feet

N

FIGURE 4

GROUNDWATER ANALYTICAL DATA MAP
NOVEMBER 5 and 8, and DECEMBER 13, 2021
ARCO FACILITY NO. 980
10822 ROOSEVELT WAY NE
SEATTLE, WASHINGTON

PROJECT NO.	PREPARED BY	REF SCALE
WA-00980 SEATTLE	JDF	1:360
DATE	REVIEWED BY	MAP SCALE
02/11/2022	SC	1 inch = 30 feet

anteagroup

Document Path: C:\Users\johnf\Antea USA, Inc\NCGH-Digital Solutions2021 - Geospatial - private - Geospatial - private\!TEMP GIS Files\BP\BP_WA\980 Seattle- CROSS CHECK CAD FILE\Layout\GWEAnalytical4Q21.mxd

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

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-106358-1
Client Project/Site: BP -ARCO 980
Sampling Event: Antea ARCO 980

For:
Antea USA Inc.
4006 148th Ave NE
Redmond, Washington 98052

Attn: Megan Richard

M. Elaine Walker

Authorized for release by:
10/21/2021 11:09:20 AM

Elaine Walker, Project Manager II
(253)248-4972
m.elaine.walker@eurofinset.com

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPLAMP Technical Specifications, applicable federal, state, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPLAMP. This Laboratory Report is confidential and is intended for the sole use of Eurofins TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The signature on the cover page extends to the case narrative and all the data and forms in the package. The Chain of Custody is included and is an integral part of this report.

Elaine Walker
Project Manager II
10/21/2021 11:09:20 AM

Table of Contents

Definitions/Glossary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-106358-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
H	Sample was prepped or analyzed beyond the specified 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

Job ID: 580-106358-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative
580-106358-1

Receipt
Five samples were received on 10/1/2021 2:30 PM. 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 0.1º C.

Receipt Exceptions

The container labels for all client samples samples did not match the information listed on the Chain-of-Custody (COC): MW-4_20210928 (580-106358-1), MW-12_20210928 (580-106358-2), MW-13_20210928 (580-106358-3), MW-20_20210928 (580-106358-4) and MW-21_20210928 (580-106358-5). The container labels have a date suffix on all IDs but the COC does not. The samples are logged in per the container labels.

A trip blank is listed on the chain of custody but a trip blank was not received.

GC/MS VOA
Method 8260D: Surrogate recovery for the following sample was outside control limits: MW-12_20210928 (580-106358-2). Based on review of the sample chromatography, evidence of matrix interference is present; therefore, re-extraction and/or 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 VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 3510C: The following samples were re-prepared outside of preparation holding time due to high motor oil analyte concentration in quality control samples :MW-4_20210928 (580-106358-1), MW-12_20210928 (580-106358-2), MW-20_20210928 (580-106358-4) and MW-21_20210928 (580-106358-5). Both sets of data have been reported.

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

Metals
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 980

Job ID: 580-106358-1

Client Sample ID: MW-4_20210928 — Lab Sample ID: 580-106358-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	540		110		ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	870	*+	330		ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36) - RE	500	H	330		ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-12_20210928 — Lab Sample ID: 580-106358-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	1400		110		ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	750	*+	340		ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36) - RE	500	H	340		ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-13_20210928 — Lab Sample ID: 580-106358-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	27		1.0		ug/L	1		8260D	Total/NA
Toluene	1.0		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	8.8		1.0		ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene	5.0		2.0		ug/L	1		8260D	Total/NA
o-Xylene	11		1.0		ug/L	1		8260D	Total/NA
Xylenes, Total	16		2.0		ug/L	1		8260D	Total/NA
Gasoline	880		250		ug/L	1		NWTPH-Gx	Total/NA
#2 Diesel (C10-C24)	2300		110		ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	1400		340		ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-20_20210928 — Lab Sample ID: 580-106358-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	160		110		ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	390	*+	340		ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-21_20210928 — Lab Sample ID: 580-106358-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	350		110		ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	510	*+	340		ug/L	1		NWTPH-Dx	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-4_20210928

Lab Sample ID: 580-106358-1
Matrix: Water
Date Collected: 09/28/21 12:30
Date Received: 10/01/21 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/12/21 18:30	1
Benzene	ND		1.0		ug/L			10/12/21 18:30	1
Toluene	ND		1.0		ug/L			10/12/21 18:30	1
Ethylbenzene	ND		1.0		ug/L			10/12/21 18:30	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/12/21 18:30	1
o-Xylene	ND		1.0		ug/L			10/12/21 18:30	1
Xylenes, Total	ND		2.0		ug/L			10/12/21 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/12/21 18:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*10/12/21 18:30*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/12/21 18:30*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*10/12/21 18:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			10/04/21 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*50 - 150*		*10/04/21 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)	**540**		110		ug/L		10/04/21 14:50	10/06/21 20:19	1
Motor Oil (>C24-C36)	**870**	*+	330		ug/L		10/04/21 14:50	10/06/21 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*10/04/21 14:50*	*10/06/21 20:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	**500**	H	330		ug/L		10/15/21 10:21	10/17/21 02:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		10/04/21 17:54	10/05/21 11:48	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		10/07/21 17:13	10/08/21 13:57	5

Client Sample ID: MW-12_20210928

Lab Sample ID: 580-106358-2
Matrix: Water
Date Collected: 09/28/21 16:00
Date Received: 10/01/21 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/12/21 18:55	1
Benzene	ND		1.0		ug/L			10/12/21 18:55	1
Toluene	ND		1.0		ug/L			10/12/21 18:55	1
Ethylbenzene	ND		1.0		ug/L			10/12/21 18:55	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/12/21 18:55	1

Client Sample ID: MW-12_20210928

Lab Sample ID: 580-106358-2

Date Collected: 09/28/21 16:00

Matrix: Water

Date Received: 10/01/21 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			10/12/21 18:55	1
Xylenes, Total	ND		2.0		ug/L			10/12/21 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*10/12/21 18:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*10/12/21 18:55*	*1*
4-Bromofluorobenzene (Surr)	*74*	*S1-*	*80 - 120*		*10/12/21 18:55*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*10/12/21 18:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			10/04/21 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*50 - 150*		*10/04/21 17:21*	*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)	**1400**		110		ug/L		10/04/21 14:50	10/06/21 20:39	1
Motor Oil (>C24-C36)	**750**	***+**	340		ug/L		10/04/21 14:50	10/06/21 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*10/04/21 14:50*	*10/06/21 20:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	**500**	**H**	340		ug/L		10/15/21 10:21	10/17/21 02:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		10/04/21 17:54	10/05/21 11:44	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		10/07/21 17:13	10/08/21 14:01	5

Client Sample ID: MW-13_20210928

Lab Sample ID: 580-106358-3

Date Collected: 09/28/21 14:55

Matrix: Water

Date Received: 10/01/21 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/12/21 19:20	1
Benzene	**27**		1.0		ug/L			10/12/21 19:20	1
Toluene	**1.0**		1.0		ug/L			10/12/21 19:20	1
Ethylbenzene	**8.8**		1.0		ug/L			10/12/21 19:20	1
m-Xylene & p-Xylene	**5.0**		2.0		ug/L			10/12/21 19:20	1
o-Xylene	**11**		1.0		ug/L			10/12/21 19:20	1
Xylenes, Total	**16**		2.0		ug/L			10/12/21 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*118*		*80 - 120*		*10/12/21 19:20*	*1*

Client Sample ID: MW-13_20210928

Lab Sample ID: 580-106358-3
Matrix: Water
Date Collected: 09/28/21 14:55
Date Received: 10/01/21 14:30

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*10/12/21 19:20*	*1*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*		*10/12/21 19:20*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*10/12/21 19:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**880**		250		ug/L			10/04/21 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*		*50 - 150*		*10/04/21 17:46*	*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)	**2300**		110		ug/L		10/06/21 11:33	10/08/21 05:22	1
Motor Oil (>C24-C36)	**1400**		340		ug/L		10/06/21 11:33	10/08/21 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*10/06/21 11:33*	*10/08/21 05:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		10/04/21 17:54	10/05/21 12:51	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		10/07/21 17:13	10/08/21 14:05	5

Client Sample ID: MW-20_20210928

Lab Sample ID: 580-106358-4
Matrix: Water
Date Collected: 09/28/21 11:15
Date Received: 10/01/21 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/12/21 19:45	1
Benzene	ND		1.0		ug/L			10/12/21 19:45	1
Toluene	ND		1.0		ug/L			10/12/21 19:45	1
Ethylbenzene	ND		1.0		ug/L			10/12/21 19:45	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/12/21 19:45	1
o-Xylene	ND		1.0		ug/L			10/12/21 19:45	1
Xylenes, Total	ND		2.0		ug/L			10/12/21 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/12/21 19:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*10/12/21 19:45*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*10/12/21 19:45*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*10/12/21 19:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			10/04/21 18:11	1

Client Sample ID: MW-20_20210928

Lab Sample ID: 580-106358-4

Date Collected: 09/28/21 11:15
Matrix: Water
Date Received: 10/01/21 14:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*50 - 150*		*10/04/21 18:11*	*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)	**160**		110		ug/L		10/04/21 14:50	10/06/21 21:37	1
Motor Oil (>C24-C36)	**390**	*+	340		ug/L		10/04/21 14:50	10/06/21 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*10/04/21 14:50*	*10/06/21 21:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND	H	330		ug/L		10/15/21 10:21	10/17/21 02:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		10/04/21 17:54	10/05/21 12:55	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		10/07/21 17:13	10/08/21 14:09	5

Client Sample ID: MW-21_20210928

Lab Sample ID: 580-106358-5

Date Collected: 09/28/21 10:30
Matrix: Water
Date Received: 10/01/21 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/12/21 20:10	1
Benzene	ND		1.0		ug/L			10/12/21 20:10	1
Toluene	ND		1.0		ug/L			10/12/21 20:10	1
Ethylbenzene	ND		1.0		ug/L			10/12/21 20:10	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/12/21 20:10	1
o-Xylene	ND		1.0		ug/L			10/12/21 20:10	1
Xylenes, Total	ND		2.0		ug/L			10/12/21 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/12/21 20:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*10/12/21 20:10*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/12/21 20:10*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*10/12/21 20:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			10/04/21 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*50 - 150*		*10/04/21 18:35*	*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)	**350**		110		ug/L		10/04/21 14:50	10/06/21 21:57	1
Motor Oil (>C24-C36)	**510**	*+	340		ug/L		10/04/21 14:50	10/06/21 21:57	1

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-106358-1

Client Sample ID: MW-21_20210928

Date Collected: 09/28/21 10:30
Date Received: 10/01/21 14:30

Lab Sample ID: 580-106358-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*10/04/21 14:50*	*10/06/21 21:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND	H	330		ug/L		10/15/21 10:21	10/17/21 03:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		10/04/21 17:54	10/05/21 12:58	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		10/07/21 17:13	10/08/21 14:12	5

Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-106358-1

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
580-106358-1	MW-4_20210928	104	95	98	102
580-106358-2	MW-12_20210928	109	100	74 S1-	101
580-106358-3	MW-13_20210928	118	94	83	98
580-106358-4	MW-20_20210928	101	95	96	102
580-106358-5	MW-21_20210928	99	100	97	102
LCS 580-370272/4	Lab Control Sample	102	96	100	102
LCSD 580-370272/5	Lab Control Sample Dup	101	98	99	98
MB 580-370272/7	Method Blank	101	95	89	96

Surrogate Legend

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

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB2
Lab Sample ID	Client Sample ID	(50-150)
580-106358-1	MW-4_20210928	95
580-106358-2	MW-12_20210928	104
580-106358-3	MW-13_20210928	139
580-106358-4	MW-20_20210928	93
580-106358-5	MW-21_20210928	92
LCS 580-369517/4	Lab Control Sample	108
LCSD 580-369517/5	Lab Control Sample Dup	108
MB 580-369517/3	Method Blank	91

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)
		OTPH
Lab Sample ID	Client Sample ID	(50-150)
580-106358-1	MW-4_20210928	84
580-106358-2	MW-12_20210928	84
580-106358-3	MW-13_20210928	78
580-106358-4	MW-20_20210928	84
580-106358-5	MW-21_20210928	86
LCS 580-369572/2-A	Lab Control Sample	110
LCS 580-369768/2-A	Lab Control Sample	89
LCS 580-370640/2-A	Lab Control Sample	92
LCSD 580-369572/3-A	Lab Control Sample Dup	98
LCSD 580-369768/3-A	Lab Control Sample Dup	74
LCSD 580-370640/3-A	Lab Control Sample Dup	87
MB 580-369572/1-A	Method Blank	77

Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-106358-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	OTPH (50-150)							
MB 580-369768/1-A	Method Blank	74							
MB 580-370640/1-A	Method Blank	69							

Surrogate Legend

OTPH = o-Terphenyl

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

Lab Sample ID: MB 580-370272/7
Matrix: Water
Analysis Batch: 370272

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/12/21 11:50	1
Benzene	ND		1.0		ug/L			10/12/21 11:50	1
Toluene	ND		1.0		ug/L			10/12/21 11:50	1
Ethylbenzene	ND		1.0		ug/L			10/12/21 11:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/12/21 11:50	1
o-Xylene	ND		1.0		ug/L			10/12/21 11:50	1
Xylenes, Total	ND		2.0		ug/L			10/12/21 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/12/21 11:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*10/12/21 11:50*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*10/12/21 11:50*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*10/12/21 11:50*	*1*

Lab Sample ID: LCS 580-370272/4
Matrix: Water
Analysis Batch: 370272

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methyl tert-butyl ether			10.0	9.16		ug/L		92	72 - 120		
Benzene			10.0	8.69		ug/L		87	80 - 122		
Toluene			10.0	9.28		ug/L		93	80 - 120		
Ethylbenzene			10.0	9.61		ug/L		96	80 - 120		
m-Xylene & p-Xylene			10.0	9.79		ug/L		98	80 - 120		
o-Xylene			10.0	9.23		ug/L		92	80 - 120		
Xylenes, Total			20.0	19.0		ug/L		95	80 - 120		

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

Lab Sample ID: LCSD 580-370272/5
Matrix: Water
Analysis Batch: 370272

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
Methyl tert-butyl ether			10.0	9.16		ug/L		92	72 - 120	0	18
Benzene			10.0	9.14		ug/L		91	80 - 122	5	14
Toluene			10.0	9.05		ug/L		90	80 - 120	3	13
Ethylbenzene			10.0	9.65		ug/L		97	80 - 120	0	14
m-Xylene & p-Xylene			10.0	9.86		ug/L		99	80 - 120	1	14
o-Xylene			10.0	9.06		ug/L		91	80 - 120	2	16
Xylenes, Total			20.0	18.9		ug/L		95	80 - 120	1	16

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

Lab Sample ID: LCSD 580-370272/5
Matrix: Water
Analysis Batch: 370272

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

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

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

Lab Sample ID: MB 580-369517/3
Matrix: Water
Analysis Batch: 369517

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			10/04/21 11:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		50 - 150		10/04/21 11:39	1

Lab Sample ID: LCS 580-369517/4
Matrix: Water
Analysis Batch: 369517

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	79 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		50 - 150

Lab Sample ID: LCSD 580-369517/5
Matrix: Water
Analysis Batch: 369517

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	967		ug/L		97	79 - 120	3	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		50 - 150

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

Lab Sample ID: MB 580-369572/1-A
Matrix: Water
Analysis Batch: 369738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		110		ug/L		10/04/21 14:50	10/06/21 19:20	1
Motor Oil (>C24-C36)	ND		350		ug/L		10/04/21 14:50	10/06/21 19:20	1

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

Lab Sample ID: MB 580-369572/1-A
Matrix: Water
Analysis Batch: 369738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369572

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150	10/04/21 14:50	10/06/21 19:20	1

Lab Sample ID: LCS 580-369572/2-A
Matrix: Water
Analysis Batch: 369738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369572

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			2000	2200		ug/L		110	50 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	110		50 - 150

Lab Sample ID: LCSD 580-369572/3-A
Matrix: Water
Analysis Batch: 369738

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 369572

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			2000	2120		ug/L		106	50 - 120	4	26

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	98		50 - 150

Lab Sample ID: MB 580-369768/1-A
Matrix: Water
Analysis Batch: 369969

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		110		ug/L		10/06/21 11:33	10/08/21 00:41	1
Motor Oil (>C24-C36)	ND		350		ug/L		10/06/21 11:33	10/08/21 00:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150	10/06/21 11:33	10/08/21 00:41	1

Lab Sample ID: LCS 580-369768/2-A
Matrix: Water
Analysis Batch: 369969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369768

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			2000	1600		ug/L		80	50 - 120		
Motor Oil (>C24-C36)			2000	1750		ug/L		87	64 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	89		50 - 150

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

Lab Sample ID: LCSD 580-369768/3-A
Matrix: Water
Analysis Batch: 369969

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 369768

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			2000	1450		ug/L		72	50 - 120	10	26
Motor Oil (>C24-C36)			2000	1720		ug/L		86	64 - 120	2	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*74*		*50 - 150*

Lab Sample ID: MB 580-370640/1-A
Matrix: Water
Analysis Batch: 370811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 370640

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		110		ug/L		10/15/21 10:21	10/17/21 01:17	1
Motor Oil (>C24-C36)	ND		350		ug/L		10/15/21 10:21	10/17/21 01:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*50 - 150*	*10/15/21 10:21*	*10/17/21 01:17*	*1*

Lab Sample ID: LCS 580-370640/2-A
Matrix: Water
Analysis Batch: 370811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 370640

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)			2000	1560		ug/L		78	50 - 120
Motor Oil (>C24-C36)			2000	1890		ug/L		95	64 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*92*		*50 - 150*

Lab Sample ID: LCSD 580-370640/3-A
Matrix: Water
Analysis Batch: 370811

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 370640

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			2000	1520		ug/L		76	50 - 120	2	26
Motor Oil (>C24-C36)			2000	1880		ug/L		94	64 - 120	1	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*87*		*50 - 150*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-369605/24-A
Matrix: Water
Analysis Batch: 369728

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 369605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.40		ug/L		10/04/21 17:54	10/05/21 11:41	1

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

Lab Sample ID: LCS 580-369605/25-A
Matrix: Water
Analysis Batch: 369728

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369605

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			1000	955		ug/L		95	80 - 120		

Lab Sample ID: LCSD 580-369605/26-A
Matrix: Water
Analysis Batch: 369728

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 369605

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1000	946		ug/L		95	80 - 120	1	20

Lab Sample ID: 580-106358-1 MS
Matrix: Water
Analysis Batch: 369728

Client Sample ID: MW-4_20210928
Prep Type: Total Recoverable
Prep Batch: 369605

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	ND		1000	1020		ug/L		101	80 - 120		

Lab Sample ID: 580-106358-1 MSD
Matrix: Water
Analysis Batch: 369728

Client Sample ID: MW-4_20210928
Prep Type: Total Recoverable
Prep Batch: 369605

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND		1000	1020		ug/L		102	80 - 120	0	20

Lab Sample ID: 580-106358-1 DU
Matrix: Water
Analysis Batch: 369728

Client Sample ID: MW-4_20210928
Prep Type: Total Recoverable
Prep Batch: 369605

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 580-369820/18-B
Matrix: Water
Analysis Batch: 370149

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 369986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.40		ug/L		10/07/21 17:13	10/08/21 12:21	1

Lab Sample ID: LCS 580-369820/19-B
Matrix: Water
Analysis Batch: 370149

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 369986

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			1000	957		ug/L		96	80 - 120		

Lab Sample ID: LCSD 580-369820/20-B
Matrix: Water
Analysis Batch: 370149

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 369986

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1000	960		ug/L		96	80 - 120	0	20

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-106358-1

GC/MS VOA

Analysis Batch: 370272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-106358-1	MW-4_20210928	Total/NA	Water	8260D	
580-106358-2	MW-12_20210928	Total/NA	Water	8260D	
580-106358-3	MW-13_20210928	Total/NA	Water	8260D	
580-106358-4	MW-20_20210928	Total/NA	Water	8260D	
580-106358-5	MW-21_20210928	Total/NA	Water	8260D	
MB 580-370272/7	Method Blank	Total/NA	Water	8260D	
LCS 580-370272/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-370272/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC VOA

Analysis Batch: 369517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-106358-1	MW-4_20210928	Total/NA	Water	NWTPH-Gx	
580-106358-2	MW-12_20210928	Total/NA	Water	NWTPH-Gx	
580-106358-3	MW-13_20210928	Total/NA	Water	NWTPH-Gx	
580-106358-4	MW-20_20210928	Total/NA	Water	NWTPH-Gx	
580-106358-5	MW-21_20210928	Total/NA	Water	NWTPH-Gx	
MB 580-369517/3	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 580-369517/4	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 580-369517/5	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

GC Semi VOA

Prep Batch: 369572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-106358-1	MW-4_20210928	Total/NA	Water	3510C	
580-106358-2	MW-12_20210928	Total/NA	Water	3510C	
580-106358-4	MW-20_20210928	Total/NA	Water	3510C	
580-106358-5	MW-21_20210928	Total/NA	Water	3510C	
MB 580-369572/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-369572/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-369572/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 369738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-106358-1	MW-4_20210928	Total/NA	Water	NWTPH-Dx	369572
580-106358-2	MW-12_20210928	Total/NA	Water	NWTPH-Dx	369572
580-106358-4	MW-20_20210928	Total/NA	Water	NWTPH-Dx	369572
580-106358-5	MW-21_20210928	Total/NA	Water	NWTPH-Dx	369572
MB 580-369572/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	369572
LCS 580-369572/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	369572
LCSD 580-369572/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	369572

Prep Batch: 369768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-106358-3	MW-13_20210928	Total/NA	Water	3510C	
MB 580-369768/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-369768/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-369768/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA

Analysis Batch: 369969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-106358-3	MW-13_20210928	Total/NA	Water	NWTPH-Dx	369768
MB 580-369768/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	369768
LCS 580-369768/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	369768
LCSD 580-369768/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	369768

Prep Batch: 370640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-106358-1 - RE	MW-4_20210928	Total/NA	Water	3510C	
580-106358-2 - RE	MW-12_20210928	Total/NA	Water	3510C	
580-106358-4 - RE	MW-20_20210928	Total/NA	Water	3510C	
580-106358-5 - RE	MW-21_20210928	Total/NA	Water	3510C	
MB 580-370640/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-370640/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-370640/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 370811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-106358-1 - RE	MW-4_20210928	Total/NA	Water	NWTPH-Dx	370640
580-106358-2 - RE	MW-12_20210928	Total/NA	Water	NWTPH-Dx	370640
580-106358-4 - RE	MW-20_20210928	Total/NA	Water	NWTPH-Dx	370640
580-106358-5 - RE	MW-21_20210928	Total/NA	Water	NWTPH-Dx	370640
MB 580-370640/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	370640
LCS 580-370640/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	370640
LCSD 580-370640/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	370640

Metals

Prep Batch: 369605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-106358-1	MW-4_20210928	Total Recoverable	Water	3005A	
580-106358-2	MW-12_20210928	Total Recoverable	Water	3005A	
580-106358-3	MW-13_20210928	Total Recoverable	Water	3005A	
580-106358-4	MW-20_20210928	Total Recoverable	Water	3005A	
580-106358-5	MW-21_20210928	Total Recoverable	Water	3005A	
MB 580-369605/24-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-369605/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-369605/26-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
580-106358-1 MS	MW-4_20210928	Total Recoverable	Water	3005A	
580-106358-1 MSD	MW-4_20210928	Total Recoverable	Water	3005A	
580-106358-1 DU	MW-4_20210928	Total Recoverable	Water	3005A	

Analysis Batch: 369728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-106358-1	MW-4_20210928	Total Recoverable	Water	6020B	369605
580-106358-2	MW-12_20210928	Total Recoverable	Water	6020B	369605
580-106358-3	MW-13_20210928	Total Recoverable	Water	6020B	369605
580-106358-4	MW-20_20210928	Total Recoverable	Water	6020B	369605
580-106358-5	MW-21_20210928	Total Recoverable	Water	6020B	369605
MB 580-369605/24-A	Method Blank	Total Recoverable	Water	6020B	369605
LCS 580-369605/25-A	Lab Control Sample	Total Recoverable	Water	6020B	369605
LCSD 580-369605/26-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	369605

Metals (Continued)

Analysis Batch: 369728 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-106358-1 MS	MW-4_20210928	Total Recoverable	Water	6020B	369605
580-106358-1 MSD	MW-4_20210928	Total Recoverable	Water	6020B	369605
580-106358-1 DU	MW-4_20210928	Total Recoverable	Water	6020B	369605

Filtration Batch: 369820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-106358-1	MW-4_20210928	Dissolved	Water	FILTRATION	
580-106358-2	MW-12_20210928	Dissolved	Water	FILTRATION	
580-106358-3	MW-13_20210928	Dissolved	Water	FILTRATION	
580-106358-4	MW-20_20210928	Dissolved	Water	FILTRATION	
580-106358-5	MW-21_20210928	Dissolved	Water	FILTRATION	
MB 580-369820/18-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 580-369820/19-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 580-369820/20-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	

Prep Batch: 369986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-106358-1	MW-4_20210928	Dissolved	Water	3005A	369820
580-106358-2	MW-12_20210928	Dissolved	Water	3005A	369820
580-106358-3	MW-13_20210928	Dissolved	Water	3005A	369820
580-106358-4	MW-20_20210928	Dissolved	Water	3005A	369820
580-106358-5	MW-21_20210928	Dissolved	Water	3005A	369820
MB 580-369820/18-B	Method Blank	Dissolved	Water	3005A	369820
LCS 580-369820/19-B	Lab Control Sample	Dissolved	Water	3005A	369820
LCSD 580-369820/20-B	Lab Control Sample Dup	Dissolved	Water	3005A	369820

Analysis Batch: 370149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-106358-1	MW-4_20210928	Dissolved	Water	6020B	369986
580-106358-2	MW-12_20210928	Dissolved	Water	6020B	369986
580-106358-3	MW-13_20210928	Dissolved	Water	6020B	369986
580-106358-4	MW-20_20210928	Dissolved	Water	6020B	369986
580-106358-5	MW-21_20210928	Dissolved	Water	6020B	369986
MB 580-369820/18-B	Method Blank	Dissolved	Water	6020B	369986
LCS 580-369820/19-B	Lab Control Sample	Dissolved	Water	6020B	369986
LCSD 580-369820/20-B	Lab Control Sample Dup	Dissolved	Water	6020B	369986

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-106358-1

Client Sample ID: MW-4_20210928

Lab Sample ID: 580-106358-1

Date Collected: 09/28/21 12:30

Matrix: Water

Date Received: 10/01/21 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	370272	10/12/21 18:30	CJ	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	369517	10/04/21 16:57	CJ	FGS SEA
Total/NA	Prep	3510C			369572	10/04/21 14:50	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369738	10/06/21 20:19	ADB	FGS SEA
Total/NA	Prep	3510C	RE		370640	10/15/21 10:21	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	370811	10/17/21 02:17	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			369820	10/06/21 15:25	TMH	FGS SEA
Dissolved	Prep	3005A			369986	10/07/21 17:13	TMH	FGS SEA
Dissolved	Analysis	6020B		5	370149	10/08/21 13:57	FCW	FGS SEA
Total Recoverable	Prep	3005A			369605	10/04/21 17:54	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	369728	10/05/21 11:48	FCW	FGS SEA

Client Sample ID: MW-12_20210928

Lab Sample ID: 580-106358-2

Date Collected: 09/28/21 16:00

Matrix: Water

Date Received: 10/01/21 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	370272	10/12/21 18:55	CJ	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	369517	10/04/21 17:21	CJ	FGS SEA
Total/NA	Prep	3510C			369572	10/04/21 14:50	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369738	10/06/21 20:39	ADB	FGS SEA
Total/NA	Prep	3510C	RE		370640	10/15/21 10:21	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	370811	10/17/21 02:36	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			369820	10/06/21 15:25	TMH	FGS SEA
Dissolved	Prep	3005A			369986	10/07/21 17:13	TMH	FGS SEA
Dissolved	Analysis	6020B		5	370149	10/08/21 14:01	FCW	FGS SEA
Total Recoverable	Prep	3005A			369605	10/04/21 17:54	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	369728	10/05/21 11:44	FCW	FGS SEA

Client Sample ID: MW-13_20210928

Lab Sample ID: 580-106358-3

Date Collected: 09/28/21 14:55

Matrix: Water

Date Received: 10/01/21 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	370272	10/12/21 19:20	CJ	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	369517	10/04/21 17:46	CJ	FGS SEA
Total/NA	Prep	3510C			369768	10/06/21 11:33	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369969	10/08/21 05:22	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			369820	10/06/21 15:25	TMH	FGS SEA
Dissolved	Prep	3005A			369986	10/07/21 17:13	TMH	FGS SEA
Dissolved	Analysis	6020B		5	370149	10/08/21 14:05	FCW	FGS SEA
Total Recoverable	Prep	3005A			369605	10/04/21 17:54	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	369728	10/05/21 12:51	FCW	FGS SEA

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-106358-1

Client Sample ID: MW-20_20210928

Lab Sample ID: 580-106358-4

Date Collected: 09/28/21 11:15

Matrix: Water

Date Received: 10/01/21 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	370272	10/12/21 19:45	CJ	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	369517	10/04/21 18:11	CJ	FGS SEA
Total/NA	Prep	3510C			369572	10/04/21 14:50	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369738	10/06/21 21:37	ADB	FGS SEA
Total/NA	Prep	3510C	RE		370640	10/15/21 10:21	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	370811	10/17/21 02:56	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			369820	10/06/21 15:25	TMH	FGS SEA
Dissolved	Prep	3005A			369986	10/07/21 17:13	TMH	FGS SEA
Dissolved	Analysis	6020B		5	370149	10/08/21 14:09	FCW	FGS SEA
Total Recoverable	Prep	3005A			369605	10/04/21 17:54	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	369728	10/05/21 12:55	FCW	FGS SEA

Client Sample ID: MW-21_20210928

Lab Sample ID: 580-106358-5

Date Collected: 09/28/21 10:30

Matrix: Water

Date Received: 10/01/21 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	370272	10/12/21 20:10	CJ	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	369517	10/04/21 18:35	CJ	FGS SEA
Total/NA	Prep	3510C			369572	10/04/21 14:50	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	369738	10/06/21 21:57	ADB	FGS SEA
Total/NA	Prep	3510C	RE		370640	10/15/21 10:21	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx	RE	1	370811	10/17/21 03:35	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			369820	10/06/21 15:25	TMH	FGS SEA
Dissolved	Prep	3005A			369986	10/07/21 17:13	TMH	FGS SEA
Dissolved	Analysis	6020B		5	370149	10/08/21 14:12	FCW	FGS SEA
Total Recoverable	Prep	3005A			369605	10/04/21 17:54	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	369728	10/05/21 12:58	FCW	FGS SEA

Laboratory References:

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

Accreditation/Certification Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-106358-1

Laboratory: Eurofins FGS, Seattle

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

Method Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-106358-1

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

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

Sample Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-106358-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-106358-1	MW-4_20210928	Water	09/28/21 12:30	10/01/21 14:30
580-106358-2	MW-12_20210928	Water	09/28/21 16:00	10/01/21 14:30
580-106358-3	MW-13_20210928	Water	09/28/21 14:55	10/01/21 14:30
580-106358-4	MW-20_20210928	Water	09/28/21 11:15	10/01/21 14:30
580-106358-5	MW-21_20210928	Water	09/28/21 10:30	10/01/21 14:30

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

BP Site Node Path: ARCO 980 | Req Due Date (mm/dd/yy): Standard TAT | Rush TAT Yes ____ No X

BP/RM Facility No: ARCO Facility No. 00980 | Lab Work Order Number: 106358

Lab Name: Test America	BP/ARC Facility Address: 10822 Roosevelt Way NE	Consultant/Contractor: Antea Group	
Lab Address: 5755 8th Street East, Tacoma, WA 98424	City, State, ZIP Code: Seattle, WA	Consultant/Contractor Project No: 00980SA211.20100	
Lab PM: 00980SA201.20100.MR	Lead Regulatory Agency: Washington State Department of Ecology	Address: 2006 148th Ave NE, Redmond, WA 98052	
Lab Phone: 253.248.4972	California Global ID No.: NA	Consultant/Contractor PM: Megan Richard	
Lab Shipping Accnt: NA	Enfos Proposal No: 009VH-0016 WR850198	Phone: 425 498 7711 Email: Megan.Richard@anteagroup.us	
Lab Bottle Order No: NA	Accounting Mode: Provision ___X___ OOC-BU _____ OOC-RM _____	Send/Submit EDD to: Megan.Richard@anteagroup.us	
Other Info: elaine.walker@Eurofinset.com	Stage 2_Select (20) Activity Additional Data Collection (100)	Invoice To: BP-RM _____ BP/ARC ___X___	
BP/RM PM: Wade Melton			
PM Phone: 360-594-7978			
PM Email: wade.melton@bp.com			

Report Type & QC Level: Limited (Standard) Package ___ ; Limited Plus Package ; Full Package

580-106358 Chain of Custody

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: BTEX by EPA 8260	MTBE by EPA 8260	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 6020	Pb-D by EPA 6020
-1	MW-4	9/24/21	1230	W				G	10			X	X	X	X	X	X
	~~MW-11~~	~~9/24/21~~		W				G				X	X	X	X	X	X
-2	MW-12		1600	W				G	10			X	X	X	X	X	X
-3	MW-13		1455	W				G	10			X	X	X	X	X	X
	~~MW-15~~			W				G				X	X	X	X	X	X
-4	MW-20		1115	W				G	10			X	X	X	X	X	X
-5	MW-21		1030	W				G	10			X	X	X	X	X	X

SH

SH

Sampler's Name: Samantha Hinze, Kate Spencer

Sampler's Company: Antea Group

Ship Method: Courier Ship Date: ~~10/1/21~~ 10/1/21

Shipment Tracking No:

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Samantha Hinze/AG	10/1/21	1230		10/1/21	12.30
				@lab	1435

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: _____ | Therm. ID: A2 Cor: 0.1 ° Unc: 0.4 ° | Submitted: Yes / No

Cooler Dsc: Lyr

Packing: Bub

Cust. Seal: Yes ✓ No ____

Blue Ice, Wet, Dry, None

FedEx: _____

UPS: _____

Lab Cour: SO

Other: _____

LaMP Soil/H2O COC July 2018

Laboratory Management Program (LaMP) Chain of Custody Record

Soil, Sediment and Groundwater Samples

Page 2 of 2

BP Site Node Path:	ARCO 980	Req Due Date (mm/dd/yy):	Standard TAT
BP/RM Facility No:	ARCO Facility No. 00980	Lab Work Order Number:	106358

Rush TAT Yes ____ No X

Lab Name:	Test America	BP/ARC Facility Address:	10822 Roosevelt Way NE	Consultant/Contractor:	Antea Group
Lab Address:	5755 8th Street East, Tacoma, WA 98424	City, State, ZIP Code:	Seattle, WA	Consultant/Contractor Project No:	00980SA211.20100
Lab PM:	00980SA211.20100.MR	Lead Regulatory Agency:	Washington State Department of Ecology	Address:	2006 148th Ave NE, Redmond, WA 98052
Lab Phone:	253.248.4972	California Global ID No.:	NA	Consultant/Contractor PM:	Megan Richard
Lab Shipping Accnt:	NA	Enfos Proposal No:	009VH-0016 WR850198	Phone:	425 498 7711 Email: Megan.Richard@anteagroup.us
Lab Bottle Order No:	NA	Accounting Mode:	Provision __X__ OOC-BU ____ OOC-RM ____	Send/Submit EDD to:	Megan.Richard@anteagroup.us
Other Info:	elaine.walker@Eurofinset.com	Stage	2_Select (20) Activity Additional Data Collection (100)	Invoice To:	BP-RM ____ BP/ARC __X__
BP/RM PM:	Wade Melton				
PM Phone:	360-594-7978				
PM Email:	wade.melton@bp.com				

Report Type & QC Level: Limited (Standard) Package — ; Limited Plus Package ; 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	BTEX by EPA 8260	MTBE by EPA 8260	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 6020	Pb-D by EPA 6020	Comments
	~~B1 (JPHC)~~			~~W~~				~~G~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	SH
-6	Trip-Blank			W				G	4		X		X				
-7	~~MW-7_20210928~~																SH Dispose. Accidently sampled

Sampler's Name: Sam Hinze, Kate Yonger	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Antea Group	Samantha Hinze/AG	10/1/21	1230	[signature]	10/1/21	12:30
Ship Method: Courier Ship Date: 10/1/21						
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 Soil/H2O COC July 2018

Login Sample Receipt Checklist

Client: Antea USA Inc.

Job Number: 580-106358-1

Login Number: 106358
List Number: 1
Creator: Blankinship, Tom X

List Source: Eurofins FGS, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-106358-1

SDG No.:

Batch Number: 370272 Batch Start Date: 10/12/21 09:45 Batch Analyst: Jantanu, Charinporn

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00003	VOAMasterMix 00070	VOASTDGASweek 00078
LCS 580-370272/4		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
LCSD 580-370272/5		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
MB 580-370272/7		8260D		5 mL	5 mL		1 uL		
580-106358-A-1	MW-4_20210928	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-106358-A-2	MW-12_20210928	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-106358-A-3	MW-13_20210928	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-106358-A-4	MW-20_20210928	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-106358-A-5	MW-21_20210928	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.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-106358-1

SDG No.:

Batch Number: 369517 Batch Start Date: 10/04/21 10:50 Batch Analyst: Jantanu, Charinporn

Batch Method: NWTPH-Gx Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFBGRO ARCHON 00046	GRO_LCS 00069	
MB 580-369517/3		NWTPH-Gx		5 mL	5 mL		1 uL		
LCS 580-369517/4		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
LCSD 580-369517/5		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
580-106358-A-1	MW-4_20210928	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-106358-A-2	MW-12_20210928	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-106358-A-3	MW-13_20210928	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-106358-A-4	MW-20_20210928	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-106358-A-5	MW-21_20210928	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.

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-106358-1

SDG No.:

Batch Number: 369572 Batch Start Date: 10/04/21 14:50 Batch Analyst: Roberts, Jacob H

Batch Method: 3510C Batch End Date: 10/04/21 21:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-369572/1		3510C, NWTPH-Dx				250 mL	1 mL	7 SU	2 SU
LCS 580-369572/2		3510C, NWTPH-Dx				250 mL	1 mL	7 SU	2 SU
LCSD 580-369572/3		3510C, NWTPH-Dx				250 mL	1 mL	7 SU	2 SU
580-106358-G-1	MW-4_20210928	3510C, NWTPH-Dx	T	00436.02 g	00174.09 g	261.9 mL	1 mL	2 SU	2 SU
580-106358-H-2	MW-12_20210928	3510C, NWTPH-Dx	T	00431.22 g	00175.12 g	256.1 mL	1 mL	2 SU	2 SU
580-106358-G-4	MW-20_20210928	3510C, NWTPH-Dx	T	00435.13 g	00175.74 g	259.4 mL	1 mL	2 SU	2 SU
580-106358-G-5	MW-21_20210928	3510C, NWTPH-Dx	T	00432.08 g	00175.78 g	256.3 mL	1 mL	2 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	TPH_Water_Spk 00029	TPH_WaterSurr 00071			
MB 580-369572/1		3510C, NWTPH-Dx		n/a SU		100 uL			
LCS 580-369572/2		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
LCSD 580-369572/3		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
580-106358-G-1	MW-4_20210928	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-106358-H-2	MW-12_20210928	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-106358-G-4	MW-20_20210928	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-106358-G-5	MW-21_20210928	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.

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-106358-1

SDG No.:

Batch Number: 369572 Batch Start Date: 10/04/21 14:50 Batch Analyst: Roberts, Jacob H

Batch Method: 3510C Batch End Date: 10/04/21 21:10

Batch Notes	
Acid Used for pH Adjustment ID	2815022
Balance ID	Sea 225
Batch Comment	Vialed by: JHR
Analyst ID - Concentration	JHR
Concentration 1 Corrected Temperature	70.3-75.3 Degrees C
Concentration 2 Corrected Temperature	19.1 Degrees C
Equipment ID - Concentration 1	Steambath 1
Equipment ID - Concentration 2	Turbovap 6
Analyst ID - Extraction	JHR/BM
Filter ID	2815023
Method/Fraction	3510C_LVI / NWTPH
Na2SO4 ID	288067
pH Indicator ID	6911002/6007004
Pipette/Syringe/Dispenser ID	MP4
Prep Solvent ID	2959739
Prep Solvent Volume Used	100 mL
Analyst ID - Spike Analyst	JHR
Analyst ID - Spike Witness Analyst	BM
Sufficient Volume for Batch QC	no
Thermometer ID - Concentration 1	61013-040-1
Thermometer ID - Concentration 2	DIGITALREADOUT
Concentration 1 Uncorrected Temperature	70.0-75.0 Degrees C
Concentration 2 Uncorrected Temperature	23.0 Degrees C
Vial Lot Number	24162054
Reagent Water ID	DI

Basis	Basis Description
T	Total/NA

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

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-106358-1

SDG No.:

Batch Number: 369768 Batch Start Date: 10/06/21 11:33 Batch Analyst: Roberts, Jacob H

Batch Method: 3510C Batch End Date: 10/06/21 19:56

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-369768/1		3510C, NWTPH-Dx				250 mL	1 mL	7 SU	2 SU
LCS 580-369768/2		3510C, NWTPH-Dx				250 mL	1 mL	7 SU	2 SU
LCSD 580-369768/3		3510C, NWTPH-Dx				250 mL	1 mL	7 SU	2 SU
580-106358-G-3	MW-13_20210928	3510C, NWTPH-Dx	T	00434.07 g	00175.52 g	258.6 mL	1 mL	2 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	TPH_Water_Spk 00029	TPH_WaterSurr 00071			
MB 580-369768/1		3510C, NWTPH-Dx		n/a SU		100 uL			
LCS 580-369768/2		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
LCSD 580-369768/3		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
580-106358-G-3	MW-13_20210928	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.

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-106358-1

SDG No.:

Batch Number: 369768 Batch Start Date: 10/06/21 11:33 Batch Analyst: Roberts, Jacob H

Batch Method: 3510C Batch End Date: 10/06/21 19:56

Batch Notes	
Acid Used for pH Adjustment ID	2815022
Balance ID	Sea 225
Batch Comment	Vialed by: JHR
Analyst ID - Concentration	JHR
Concentration 1 Corrected Temperature	70.3-75.3 Degrees C
Concentration 2 Corrected Temperature	18.2 Degrees C
Equipment ID - Concentration 1	Steambath 1
Equipment ID - Concentration 2	Turbovap 6
Analyst ID - Extraction	JHR
Filter ID	2815023
Method/Fraction	3510C_LVI / NWTPH
Na2SO4 ID	288067
pH Indicator ID	6911002/6007004
Pipette/Syringe/Dispenser ID	MP4
Prep Solvent ID	2959739
Prep Solvent Volume Used	100 mL
Analyst ID - Spike Analyst	JHR
Analyst ID - Spike Witness Analyst	CC
Sufficient Volume for Batch QC	no
Thermometer ID - Concentration 1	61013-040-1
Thermometer ID - Concentration 2	DIGITALREADOUT
Concentration 1 Uncorrected Temperature	70.0-75.0 Degrees C
Concentration 2 Uncorrected Temperature	20.0 Degrees C
Vial Lot Number	24162054
Reagent Water ID	DI

Basis	Basis Description
T	Total/NA

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

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-106358-1

SDG No.:

Batch Number: 370640 Batch Start Date: 10/15/21 10:21 Batch Analyst: Maertens, Blair J

Batch Method: 3510C Batch End Date: 10/15/21 13:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-370640/1		3510C, NWTPH-Dx				250 mL	1 mL	7 SU	2 SU
LCS 580-370640/2		3510C, NWTPH-Dx				250 mL	1 mL	7 SU	2 SU
LCSD 580-370640/3		3510C, NWTPH-Dx				250 mL	1 mL	7 SU	2 SU
580-106358-H-1	MW-4_20210928	3510C, NWTPH-Dx	T	00437.21 g	00175.65 g	261.6 mL	1 mL	2 SU	2 SU
580-106358-G-2	MW-12_20210928	3510C, NWTPH-Dx	T	00434.26 g	00174.37 g	259.9 mL	1 mL	2 SU	2 SU
580-106358-H-4	MW-20_20210928	3510C, NWTPH-Dx	T	00435.58 g	00174.39 g	261.2 mL	1 mL	2 SU	2 SU
580-106358-H-5	MW-21_20210928	3510C, NWTPH-Dx	T	00437.85 g	00174.48 g	263.4 mL	1 mL	2 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	TPH_Water_Spk 00029	TPH_WaterSurr 00072			
MB 580-370640/1		3510C, NWTPH-Dx		n/a SU		100 uL			
LCS 580-370640/2		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
LCSD 580-370640/3		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
580-106358-H-1	MW-4_20210928	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-106358-G-2	MW-12_20210928	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-106358-H-4	MW-20_20210928	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-106358-H-5	MW-21_20210928	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.

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-106358-1

SDG No.:

Batch Number: 370640 Batch Start Date: 10/15/21 10:21 Batch Analyst: Maertens, Blair J

Batch Method: 3510C Batch End Date: 10/15/21 13:38

Batch Notes	
Acid Used for pH Adjustment ID	2815022
Balance ID	SEA225
Batch Comment	Vialed by: PS
Analyst ID - Concentration	PS/JHR
Concentration 1 Corrected Temperature	70.3-75.3 Degrees C
Concentration 2 Corrected Temperature	18.2 Degrees C
Equipment ID - Concentration 1	Steambath 1
Equipment ID - Concentration 2	TurboVap 5
Analyst ID - Extraction	PS/BM/JHR
Filter ID	2815023
Method/Fraction	3510C_LVI I/ NWTPH
Na2SO4 ID	288067
pH Indicator ID	6003004/6003005
Pipette/Syringe/Dispenser ID	MP4
Prep Solvent ID	2978846
Prep Solvent Volume Used	100 mL
Silica Gel ID	2885687
Analyst ID - Spike Analyst	PS
Analyst ID - Spike Witness Analyst	BM
Sufficient Volume for Batch QC	No
Thermometer ID - Concentration 1	61013-040-1
Thermometer ID - Concentration 2	DIGITALREADOUT
Concentration 1 Uncorrected Temperature	70.0-75.0 Degrees C
Concentration 2 Uncorrected Temperature	20.0 Degrees C
Vial Lot Number	24162054
Reagent Water ID	DI

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-106358-1

SDG No.:

Batch Number: 369605 Batch Start Date: 10/04/21 17:54 Batch Analyst: Hua, Tammy M

Batch Method: 3005A Batch End Date: 10/04/21 22:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00012	ICP CAL 2 00011	MET Spike 3C 00032	
580-106358-J-1	MW-4_20210928	3005A, 6020B	R	50 mL	50 mL				
580-106358-J-1 DU	MW-4_20210928	3005A, 6020B	R	50 mL	50 mL				
580-106358-J-1 MS	MW-4_20210928	3005A, 6020B	R	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-106358-J-1 MSD	MW-4_20210928	3005A, 6020B	R	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-106358-J-2	MW-12_20210928	3005A, 6020B	R	50 mL	50 mL				
580-106358-J-3	MW-13_20210928	3005A, 6020B	R	50 mL	50 mL				
580-106358-J-4	MW-20_20210928	3005A, 6020B	R	50 mL	50 mL				
580-106358-J-5	MW-21_20210928	3005A, 6020B	R	50 mL	50 mL				
MB 580-369605/24		3005A, 6020B		50 mL	50 mL				
LCS 580-369605/25		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-369605/26		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	

Batch Notes	
Temperature - Corrected - End	91.7 Degrees C
Temperature - Corrected - Start	91.7 Degrees C
Digestion End Time	10/04/2021 22:20
Digestion Start Time	10/04/2021 18:20
Digestion Unit ID	BLOCK b
Hydrochloric Acid ID	2954796
Nitric Acid ID	2954806
Pipette/Syringe/Dispenser ID	metals prep 2
Analyst ID - Spike Analyst	TH
Thermometer Location ID	b42
Thermometer ID	698320
Digestion Tube/Cup ID	2953186
Temperature - Uncorrected - End	91.0 Degrees C
Temperature - Uncorrected - Start	91.0 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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-106358-1

SDG No.:

Batch Number: 369605 Batch Start Date: 10/04/21 17:54 Batch Analyst: Hua, Tammy M

Batch Method: 3005A Batch End Date: 10/04/21 22:20

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-106358-1

SDG No.:

Batch Number: 369820 Batch Start Date: 10/06/21 15:24 Batch Analyst: Hua, Tammy M

Batch Method: FILTRATION Batch End Date: 10/06/21 16:57

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
580-106358-I-5	MW-21_20210928	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-106358-I-4	MW-20_20210928	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-106358-I-3	MW-13_20210928	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-106358-I-2	MW-12_20210928	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-106358-I-1	MW-4_20210928	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
MB 580-369820/18		FILTRATION, 3005A, 6020B		250 mL	250 mL				
LCS 580-369820/19		FILTRATION, 3005A, 6020B		250 mL	250 mL				
LCSD 580-369820/20		FILTRATION, 3005A, 6020B		250 mL	250 mL				

Batch Notes	
Filter ID	1315956
Nitric Acid ID	2954806

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-106358-1

SDG No.:

Batch Number: 369986 Batch Start Date: 10/07/21 17:13 Batch Analyst: Hua, Tammy M

Batch Method: 3005A Batch End Date: 10/08/21 09:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00012	ICP CAL 2 00011	MET Spike 3C 00032	
580-106358-I-1-A	MW-4_20210928	3005A, 6020B	D	50 mL	50 mL				
580-106358-I-2-A	MW-12_20210928	3005A, 6020B	D	50 mL	50 mL				
580-106358-I-3-A	MW-13_20210928	3005A, 6020B	D	50 mL	50 mL				
580-106358-I-4-A	MW-20_20210928	3005A, 6020B	D	50 mL	50 mL				
580-106358-I-5-A	MW-21_20210928	3005A, 6020B	D	50 mL	50 mL				
MB 580-369820/18-A		3005A, 6020B		50 mL	50 mL				
LCS 580-369820/19-A		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-369820/20-A		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	

Batch Notes	
Temperature - Corrected - End	90.1 Degrees C
Temperature - Corrected - Start	90.1 Degrees C
Digestion End Time	10/07/2021 21:55
Digestion Start Time	10/07/2021 17:55
Digestion Unit ID	BLOCK E
Hydrochloric Acid ID	2954795
Nitric Acid ID	2954808
Pipette/Syringe/Dispenser ID	metals prep 2
Analyst ID - Spike Analyst	TH
Thermometer Location ID	E45
Thermometer ID	700396
Digestion Tube/Cup ID	2953186
Temperature - Uncorrected - End	90.0 Degrees C
Temperature - Uncorrected - Start	90.0 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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-106358-1

SDG No.:

Batch Number: 369986 Batch Start Date: 10/07/21 17:13 Batch Analyst: Hua, Tammy M

Batch Method: 3005A Batch End Date: 10/08/21 09:00

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.

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ANALYTICAL REPORT

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-107314-1
Client Project/Site: BP -ARCO 980
Sampling Event: Antea ARCO 980

For:
Antea USA Inc.
4006 148th Ave NE
Redmond, Washington 98052

Attn: Megan Richard

M. Elaine Walker

Authorized for release by:
11/22/2021 3:25:16 PM

Elaine Walker, Project Manager II
(253)248-4972
m.elaine.walker@eurofinset.com

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPLAMP Technical Specifications, applicable federal, state, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPLAMP. This Laboratory Report is confidential and is intended for the sole use of Eurofins TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The signature on the cover page extends to the case narrative and all the data and forms in the package. The Chain of Custody is included and is an integral part of this report.

Elaine Walker
Project Manager II
11/22/2021 3:25:16 PM

Table of Contents

Definitions/Glossary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-107314-1

Qualifiers

GC/MS VOA

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

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified 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

Job ID: 580-107314-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative
580-107314-1

Receipt
Ten samples were received on 11/9/2021 10:53 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 -1.7º C, 0.2º C and 2.0º C.

Receipt Exceptions

The COC for the trip blank says there should be 6 containers. There are 10 containers with this job for the trip blank.

The following sample was received at the laboratory without a sample collection time documented on the chain of custody: The trip blank was given the default date of 11/05/2021 and time of 00:01.

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Client indicates TSS on COC when the method is supposed to be 2540C, TDS.

GC/MS VOA
Method 8260D: Surrogate recovery for the following samples was outside the upper control limit: MW-10_20211108 (580-107314-5) and MW-15_20211108 (580-107314-8). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: Surrogate recovery for the following sample was outside control limits: MW-13_20211108 (580-107314-7). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits. The original data has been reported.

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

GC VOA
No analytical or quality issues were noted, other than those described 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: Reanalysis of the following samples were performed outside of the analytical holding time due to initial analysis missing required additional QC : B-1_20211108 (580-107314-2), MW-4_20211108 (580-107314-4), MW-10_20211108 (580-107314-5), MW-12_20211108 (580-107314-6), MW-13_20211108 (580-107314-7), MW-15_20211108 (580-107314-8), MW-19_20211108 (580-107314-9), and Tank_20211108 (580-107314-10). Both sets of data have been reported.

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

Detection Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-107314-1

Client Sample ID: MW-11_20211105 — Lab Sample ID: 580-107314-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	720		110		ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	790		360		ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: B-1_20211108 — Lab Sample ID: 580-107314-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	19		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	1.4		1.0		ug/L	1		8260D	Total/NA
o-Xylene	9.3		1.0		ug/L	1		8260D	Total/NA
Xylenes, Total	9.3		2.0		ug/L	1		8260D	Total/NA
Gasoline	910		250		ug/L	1		NWTPH-Gx	Total/NA
#2 Diesel (C10-C24)	2500		110		ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	1700		360		ug/L	1		NWTPH-Dx	Total/NA
Sulfate	1.7		1.5		mg/L	1		300.0	Total/NA
Total Suspended Solids	46		2.0		mg/L	1		SM 2540D	Total/NA

Client Sample ID: Trip-Blank_20211105 — Lab Sample ID: 580-107314-3

No Detections.

Client Sample ID: MW-4_20211108 — Lab Sample ID: 580-107314-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	550		110		ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	650		350		ug/L	1		NWTPH-Dx	Total/NA
Sulfate	42		1.5		mg/L	1		300.0	Total/NA
Total Suspended Solids	25		4.0		mg/L	1		SM 2540D	Total/NA

Client Sample ID: MW-10_20211108 — Lab Sample ID: 580-107314-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	110		110		ug/L	1		NWTPH-Dx	Total/NA
Sulfate	100		3.0		mg/L	2		300.0	Total/NA
Nitrate as N	2.6		0.20		mg/L	1		300.0	Total/NA
Nitrate as N	2.7	H	0.20		mg/L	1		300.0	Total/NA

Client Sample ID: MW-12_20211108 — Lab Sample ID: 580-107314-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	3100		120		ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	1600		370		ug/L	1		NWTPH-Dx	Total/NA
Sulfate	4.1		1.5		mg/L	1		300.0	Total/NA
Total Suspended Solids	12		2.0		mg/L	1		SM 2540D	Total/NA

Client Sample ID: MW-13_20211108 — Lab Sample ID: 580-107314-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	5.8		2.0		ug/L	1		8260D	Total/NA
o-Xylene	9.3		1.0		ug/L	1		8260D	Total/NA
Xylenes, Total	15		2.0		ug/L	1		8260D	Total/NA
Gasoline	790		250		ug/L	1		NWTPH-Gx	Total/NA
#2 Diesel (C10-C24)	590		110		ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	410		360		ug/L	1		NWTPH-Dx	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-107314-1

Client Sample ID: MW-13_20211108 (Continued) — Lab Sample ID: 580-107314-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.5		2.0		ug/L	5		6020B	Total Recoverable
Sulfate	52		1.5		mg/L	1		300.0	Total/NA
Nitrate as N	6.3		0.20		mg/L	1		300.0	Total/NA
Nitrate as N	6.4	H	0.20		mg/L	1		300.0	Total/NA
Total Suspended Solids	14		2.9		mg/L	1		SM 2540D	Total/NA

Client Sample ID: MW-15_20211108 — Lab Sample ID: 580-107314-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	130		110		ug/L	1		NWTPH-Dx	Total/NA
Sulfate	26		1.5		mg/L	1		300.0	Total/NA
Nitrate as N	8.2		0.20		mg/L	1		300.0	Total/NA
Nitrate as N	8.3	H	0.20		mg/L	1		300.0	Total/NA
Total Suspended Solids	4.2		2.0		mg/L	1		SM 2540D	Total/NA

Client Sample ID: MW-19_20211108 — Lab Sample ID: 580-107314-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	67		1.5		mg/L	1		300.0	Total/NA
Nitrate as N	2.1		0.20		mg/L	1		300.0	Total/NA
Nitrate as N	2.1	H	0.20		mg/L	1		300.0	Total/NA
Total Suspended Solids	13		2.0		mg/L	1		SM 2540D	Total/NA

Client Sample ID: Tank_20211108 — Lab Sample ID: 580-107314-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2.0		1.5		mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-11_20211105

Date Collected: 11/05/21 11:00
Date Received: 11/09/21 10:53

Lab Sample ID: 580-107314-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			11/15/21 19:42	1
Benzene	ND		1.0		ug/L			11/15/21 19:42	1
Toluene	ND		1.0		ug/L			11/15/21 19:42	1
Ethylbenzene	ND		1.0		ug/L			11/15/21 19:42	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/15/21 19:42	1
o-Xylene	ND		1.0		ug/L			11/15/21 19:42	1
Xylenes, Total	ND		2.0		ug/L			11/15/21 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*11/15/21 19:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*11/15/21 19:42*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*11/15/21 19:42*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*11/15/21 19:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			11/10/21 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*50 - 150*		*11/10/21 12:47*	*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)	**720**		110		ug/L		11/18/21 15:59	11/20/21 07:54	1
Motor Oil (>C24-C36)	**790**		360		ug/L		11/18/21 15:59	11/20/21 07:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*11/18/21 15:59*	*11/20/21 07:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/15/21 09:50	11/17/21 01:55	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/16/21 19:28	11/18/21 00:59	5

Client Sample ID: B-1_20211108

Date Collected: 11/08/21 11:30
Date Received: 11/09/21 10:53

Lab Sample ID: 580-107314-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			11/17/21 15:32	1
Benzene	**19**		1.0		ug/L			11/17/21 15:32	1
Toluene	ND		1.0		ug/L			11/17/21 15:32	1
Ethylbenzene	**1.4**		1.0		ug/L			11/17/21 15:32	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/17/21 15:32	1
o-Xylene	**9.3**		1.0		ug/L			11/17/21 15:32	1
Xylenes, Total	**9.3**		2.0		ug/L			11/17/21 15:32	1

Client Sample ID: B-1_20211108

Lab Sample ID: 580-107314-2

Date Collected: 11/08/21 11:30

Matrix: Water

Date Received: 11/09/21 10:53

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	118		80 - 120		11/17/21 15:32	1
1,2-Dichloroethane-d4 (Surr)	89		80 - 120		11/17/21 15:32	1
4-Bromofluorobenzene (Surr)	91		80 - 120		11/17/21 15:32	1
Dibromofluoromethane (Surr)	100		80 - 120		11/17/21 15:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	910		250		ug/L			11/16/21 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		50 - 150		11/16/21 12:49	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)	2500		110		ug/L		11/18/21 15:59	11/20/21 08:14	1
Motor Oil (>C24-C36)	1700		360		ug/L		11/18/21 15:59	11/20/21 08:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	66		50 - 150	11/18/21 15:59	11/20/21 08:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/15/21 09:49	11/16/21 13:35	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/16/21 19:28	11/18/21 01:41	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			11/10/21 08:48	1
Nitrite as N	ND	H	0.40		mg/L			11/10/21 17:13	1
Sulfate	1.7		1.5		mg/L			11/10/21 17:13	1
Nitrate as N	ND		0.20		mg/L			11/10/21 08:48	1
Nitrate as N	ND	H	0.20		mg/L			11/10/21 17:13	1
Total Suspended Solids	46		2.0		mg/L			11/12/21 16:22	1

Client Sample ID: Trip-Blank_20211105

Lab Sample ID: 580-107314-3

Date Collected: 11/05/21 00:01

Matrix: Water

Date Received: 11/09/21 10:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			11/15/21 20:07	1
Toluene	ND		1.0		ug/L			11/15/21 20:07	1
Ethylbenzene	ND		1.0		ug/L			11/15/21 20:07	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/15/21 20:07	1
o-Xylene	ND		1.0		ug/L			11/15/21 20:07	1
Xylenes, Total	ND		2.0		ug/L			11/15/21 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		11/15/21 20:07	1

Client Sample ID: Trip-Blank_20211105

Lab Sample ID: 580-107314-3
Date Collected: 11/05/21 00:01
Matrix: Water
Date Received: 11/09/21 10:53

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*11/15/21 20:07*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*11/15/21 20:07*	*1*
Dibromofluoromethane (Surr)	*115*		*80 - 120*		*11/15/21 20:07*	*1*

Client Sample ID: MW-4_20211108

Lab Sample ID: 580-107314-4
Date Collected: 11/08/21 16:00
Matrix: Water
Date Received: 11/09/21 10:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			11/16/21 19:10	1
Benzene	ND		1.0		ug/L			11/16/21 19:10	1
Toluene	ND		1.0		ug/L			11/16/21 19:10	1
Ethylbenzene	ND		1.0		ug/L			11/16/21 19:10	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/16/21 19:10	1
o-Xylene	ND		1.0		ug/L			11/16/21 19:10	1
Xylenes, Total	ND		2.0		ug/L			11/16/21 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*80 - 120*		*11/16/21 19:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*11/16/21 19:10*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/16/21 19:10*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 120*		*11/16/21 19:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			11/16/21 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*50 - 150*		*11/16/21 13:14*	*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)	**550**		110		ug/L		11/18/21 15:59	11/20/21 08:34	1
Motor Oil (>C24-C36)	**650**		350		ug/L		11/18/21 15:59	11/20/21 08:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*50 - 150*	*11/18/21 15:59*	*11/20/21 08:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/15/21 09:49	11/17/21 01:24	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/16/21 19:28	11/18/21 01:53	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			11/10/21 09:00	1
Nitrite as N	ND	H	0.40		mg/L			11/10/21 17:25	1

Client Sample ID: MW-4_20211108

Lab Sample ID: 580-107314-4

Date Collected: 11/08/21 16:00

Matrix: Water

Date Received: 11/09/21 10:53

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**42**		1.5		mg/L			11/10/21 17:25	1
Nitrate as N	ND		0.20		mg/L			11/10/21 09:00	1
Nitrate as N	ND	H	0.20		mg/L			11/10/21 17:25	1
Total Suspended Solids	**25**		4.0		mg/L			11/12/21 18:17	1

Client Sample ID: MW-10_20211108

Lab Sample ID: 580-107314-5

Date Collected: 11/08/21 12:15

Matrix: Water

Date Received: 11/09/21 10:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			11/16/21 19:35	1
Benzene	ND		1.0		ug/L			11/16/21 19:35	1
Toluene	ND		1.0		ug/L			11/16/21 19:35	1
Ethylbenzene	ND		1.0		ug/L			11/16/21 19:35	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/16/21 19:35	1
o-Xylene	ND		1.0		ug/L			11/16/21 19:35	1
Xylenes, Total	ND		2.0		ug/L			11/16/21 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*80 - 120*		*11/16/21 19:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 120*		*11/16/21 19:35*	*1*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*11/16/21 19:35*	*1*
Dibromofluoromethane (Surr)	*156*	*S1+*	*80 - 120*		*11/16/21 19:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			11/16/21 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*50 - 150*		*11/16/21 13:38*	*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)	**110**		110		ug/L		11/18/21 15:59	11/20/21 08:54	1
Motor Oil (>C24-C36)	ND		360		ug/L		11/18/21 15:59	11/20/21 08:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*50 - 150*	*11/18/21 15:59*	*11/20/21 08:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/15/21 09:49	11/17/21 01:28	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/16/21 19:28	11/18/21 01:57	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			11/10/21 09:35	1
Nitrite as N	ND	H	0.40		mg/L			11/10/21 18:00	1

Client Sample ID: MW-10_20211108

Lab Sample ID: 580-107314-5

Date Collected: 11/08/21 12:15

Matrix: Water

Date Received: 11/09/21 10:53

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**100**		3.0		mg/L			11/10/21 18:12	2
Nitrate as N	**2.6**		0.20		mg/L			11/10/21 09:35	1
Nitrate as N	**2.7**	**H**	0.20		mg/L			11/10/21 18:00	1
Total Suspended Solids	ND		2.0		mg/L			11/12/21 18:17	1

Client Sample ID: MW-12_20211108

Lab Sample ID: 580-107314-6

Date Collected: 11/08/21 14:15

Matrix: Water

Date Received: 11/09/21 10:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			11/16/21 20:01	1
Benzene	ND		1.0		ug/L			11/16/21 20:01	1
Toluene	ND		1.0		ug/L			11/16/21 20:01	1
Ethylbenzene	ND		1.0		ug/L			11/16/21 20:01	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/16/21 20:01	1
o-Xylene	ND		1.0		ug/L			11/16/21 20:01	1
Xylenes, Total	ND		2.0		ug/L			11/16/21 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/16/21 20:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*11/16/21 20:01*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*11/16/21 20:01*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*11/16/21 20:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			11/16/21 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*		*11/16/21 14:02*	*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)	**3100**		120		ug/L		11/18/21 15:59	11/20/21 09:15	1
Motor Oil (>C24-C36)	**1600**		370		ug/L		11/18/21 15:59	11/20/21 09:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*50 - 150*	*11/18/21 15:59*	*11/20/21 09:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/15/21 09:49	11/17/21 01:32	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/16/21 19:28	11/18/21 02:01	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			11/10/21 09:46	1
Nitrite as N	ND	H	0.40		mg/L			11/10/21 18:24	1

Client Sample ID: MW-12_20211108

Lab Sample ID: 580-107314-6

Date Collected: 11/08/21 14:15

Matrix: Water

Date Received: 11/09/21 10:53

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**4.1**		1.5		mg/L			11/10/21 18:24	1
Nitrate as N	ND		0.20		mg/L			11/10/21 09:46	1
Nitrate as N	ND	H	0.20		mg/L			11/10/21 18:24	1
Total Suspended Solids	**12**		2.0		mg/L			11/12/21 18:17	1

Client Sample ID: MW-13_20211108

Lab Sample ID: 580-107314-7

Date Collected: 11/08/21 13:00

Matrix: Water

Date Received: 11/09/21 10:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			11/16/21 20:26	1
Benzene	ND		1.0		ug/L			11/16/21 20:26	1
Toluene	ND		1.0		ug/L			11/16/21 20:26	1
Ethylbenzene	ND		1.0		ug/L			11/16/21 20:26	1
m-Xylene & p-Xylene	**5.8**		2.0		ug/L			11/16/21 20:26	1
o-Xylene	**9.3**		1.0		ug/L			11/16/21 20:26	1
Xylenes, Total	**15**		2.0		ug/L			11/16/21 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/16/21 20:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*11/16/21 20:26*	*1*
4-Bromofluorobenzene (Surr)	*125*	*S1+*	*80 - 120*		*11/16/21 20:26*	*1*
Dibromofluoromethane (Surr)	*144*	*S1+*	*80 - 120*		*11/16/21 20:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**790**		250		ug/L			11/16/21 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*		*50 - 150*		*11/16/21 14:27*	*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)	**590**		110		ug/L		11/18/21 15:59	11/20/21 09:55	1
Motor Oil (>C24-C36)	**410**		360		ug/L		11/18/21 15:59	11/20/21 09:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*50 - 150*	*11/18/21 15:59*	*11/20/21 09:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**2.5**		2.0		ug/L		11/15/21 09:50	11/17/21 01:39	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/16/21 19:28	11/18/21 02:04	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			11/10/21 09:58	1
Nitrite as N	ND	H	0.40		mg/L			11/10/21 19:11	1

Client Sample ID: MW-13_20211108

Lab Sample ID: 580-107314-7

Date Collected: 11/08/21 13:00
Matrix: Water
Date Received: 11/09/21 10:53

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	52		1.5		mg/L			11/10/21 19:11	1
Nitrate as N	6.3		0.20		mg/L			11/10/21 09:58	1
Nitrate as N	6.4	H	0.20		mg/L			11/10/21 19:11	1
Total Suspended Solids	14		2.9		mg/L			11/12/21 18:17	1

Client Sample ID: MW-15_20211108

Lab Sample ID: 580-107314-8

Date Collected: 11/08/21 13:40
Matrix: Water
Date Received: 11/09/21 10:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			11/17/21 15:59	1
Benzene	ND		1.0		ug/L			11/17/21 15:59	1
Toluene	ND		1.0		ug/L			11/17/21 15:59	1
Ethylbenzene	ND		1.0		ug/L			11/17/21 15:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/17/21 15:59	1
o-Xylene	ND		1.0		ug/L			11/17/21 15:59	1
Xylenes, Total	ND		2.0		ug/L			11/17/21 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*11/17/21 15:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*11/17/21 15:59*	*1*
4-Bromofluorobenzene (Surr)	*119*		*80 - 120*		*11/17/21 15:59*	*1*
Dibromofluoromethane (Surr)	*146*	*S1+*	*80 - 120*		*11/17/21 15:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			11/16/21 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*50 - 150*		*11/16/21 15:16*	*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		110		ug/L		11/18/21 15:59	11/20/21 10:15	1
Motor Oil (>C24-C36)	ND		360		ug/L		11/18/21 15:59	11/20/21 10:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*50 - 150*	*11/18/21 15:59*	*11/20/21 10:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/15/21 09:49	11/17/21 01:36	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/16/21 19:28	11/18/21 02:08	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			11/10/21 10:10	1
Nitrite as N	ND	H	0.40		mg/L			11/10/21 19:22	1

Client Sample ID: MW-15_20211108

Lab Sample ID: 580-107314-8

Date Collected: 11/08/21 13:40
Matrix: Water
Date Received: 11/09/21 10:53

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	26		1.5		mg/L			11/10/21 19:22	1
Nitrate as N	8.2		0.20		mg/L			11/10/21 10:10	1
Nitrate as N	8.3	H	0.20		mg/L			11/10/21 19:22	1
Total Suspended Solids	4.2		2.0		mg/L			11/12/21 18:17	1

Client Sample ID: MW-19_20211108

Lab Sample ID: 580-107314-9

Date Collected: 11/08/21 15:00
Matrix: Water
Date Received: 11/09/21 10:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			11/17/21 16:24	1
Benzene	ND		1.0		ug/L			11/17/21 16:24	1
Toluene	ND		1.0		ug/L			11/17/21 16:24	1
Ethylbenzene	ND		1.0		ug/L			11/17/21 16:24	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/17/21 16:24	1
o-Xylene	ND		1.0		ug/L			11/17/21 16:24	1
Xylenes, Total	ND		2.0		ug/L			11/17/21 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/17/21 16:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*11/17/21 16:24*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/17/21 16:24*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*11/17/21 16:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			11/16/21 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*50 - 150*		*11/16/21 15:40*	*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		110		ug/L		11/18/21 15:59	11/20/21 10:35	1
Motor Oil (>C24-C36)	ND		360		ug/L		11/18/21 15:59	11/20/21 10:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*50 - 150*	*11/18/21 15:59*	*11/20/21 10:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/15/21 09:50	11/17/21 01:43	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/16/21 19:28	11/18/21 02:12	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			11/10/21 10:22	1
Nitrite as N	ND	H	0.40		mg/L			11/10/21 19:34	1

Client Sample ID: MW-19_20211108

Lab Sample ID: 580-107314-9
Matrix: Water
Date Collected: 11/08/21 15:00
Date Received: 11/09/21 10:53

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	67		1.5		mg/L			11/10/21 19:34	1
Nitrate as N	2.1		0.20		mg/L			11/10/21 10:22	1
Nitrate as N	2.1	H	0.20		mg/L			11/10/21 19:34	1
Total Suspended Solids	13		2.0		mg/L			11/12/21 18:17	1

Client Sample ID: Tank_20211108

Lab Sample ID: 580-107314-10
Matrix: Water
Date Collected: 11/08/21 17:00
Date Received: 11/09/21 10:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			11/16/21 20:52	1
Benzene	ND		1.0		ug/L			11/16/21 20:52	1
Toluene	ND		1.0		ug/L			11/16/21 20:52	1
Ethylbenzene	ND		1.0		ug/L			11/16/21 20:52	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/16/21 20:52	1
o-Xylene	ND		1.0		ug/L			11/16/21 20:52	1
Xylenes, Total	ND		2.0		ug/L			11/16/21 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*80 - 120*		*11/16/21 20:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*11/16/21 20:52*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*11/16/21 20:52*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*11/16/21 20:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			11/16/21 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*50 - 150*		*11/16/21 16:05*	*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		ug/L		11/18/21 15:59	11/20/21 10:55	1
Motor Oil (>C24-C36)	ND		370		ug/L		11/18/21 15:59	11/20/21 10:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*50 - 150*	*11/18/21 15:59*	*11/20/21 10:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/15/21 09:50	11/17/21 01:47	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		11/16/21 19:28	11/18/21 00:55	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			11/10/21 10:33	1
Nitrite as N	ND	H	0.40		mg/L			11/10/21 19:46	1

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-107314-1

Client Sample ID: Tank_20211108
Date Collected: 11/08/21 17:00
Date Received: 11/09/21 10:53

Lab Sample ID: 580-107314-10
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2.0**		1.5		mg/L			11/10/21 19:46	1
Nitrate as N	ND		0.20		mg/L			11/10/21 10:33	1
Nitrate as N	ND	H	0.20		mg/L			11/10/21 19:46	1
Total Suspended Solids	ND		2.0		mg/L			11/12/21 18:17	1

Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-107314-1

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
580-107314-1	MW-11_20211105	107	98	106	108
580-107314-2	B-1_20211108	118	89	91	100
580-107314-3	Trip-Blank_20211105	97	102	105	115
580-107314-4	MW-4_20211108	110	103	102	113
580-107314-5	MW-10_20211108	88	114	112	156 S1+
580-107314-6	MW-12_20211108	97	102	107	112
580-107314-7	MW-13_20211108	101	108	125 S1+	144 S1+
580-107314-8	MW-15_20211108	89	109	119	146 S1+
580-107314-9	MW-19_20211108	101	100	95	109
580-107314-10	Tank_20211108	88	102	93	109
LCS 580-373313/6	Lab Control Sample	102	90	104	99
LCS 580-373449/4	Lab Control Sample	100	92	105	101
LCS 580-373570/4	Lab Control Sample	103	91	106	102
LCSD 580-373313/7	Lab Control Sample Dup	99	90	105	99
LCSD 580-373449/5	Lab Control Sample Dup	101	92	105	101
LCSD 580-373570/5	Lab Control Sample Dup	105	92	104	103
MB 580-373313/5	Method Blank	106	94	101	105
MB 580-373449/7	Method Blank	103	100	92	109
MB 580-373570/28	Method Blank	103	108	90	117

Surrogate Legend

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

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB2
Lab Sample ID	Client Sample ID	(50-150)
580-107314-1	MW-11_20211105	103
580-107314-2	B-1_20211108	127
580-107314-4	MW-4_20211108	96
580-107314-5	MW-10_20211108	94
580-107314-6	MW-12_20211108	97
580-107314-7	MW-13_20211108	137
580-107314-8	MW-15_20211108	88
580-107314-9	MW-19_20211108	84
580-107314-10	Tank_20211108	87
LCS 580-372904/4	Lab Control Sample	113
LCS 580-373379/4	Lab Control Sample	104
LCSD 580-372904/5	Lab Control Sample Dup	114
LCSD 580-373379/5	Lab Control Sample Dup	105
MB 580-372904/3	Method Blank	101
MB 580-373379/3	Method Blank	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-107314-1

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)								
580-107314-1	MW-11_20211105	68								
580-107314-2	B-1_20211108	66								
580-107314-4	MW-4_20211108	63								
580-107314-5	MW-10_20211108	64								
580-107314-6	MW-12_20211108	65								
580-107314-7	MW-13_20211108	54								
580-107314-8	MW-15_20211108	55								
580-107314-9	MW-19_20211108	61								
580-107314-10	Tank_20211108	61								
LCS 580-373768/2-A	Lab Control Sample	66								
LCSD 580-373768/3-A	Lab Control Sample Dup	78								
MB 580-373768/1-A	Method Blank	60								

Surrogate Legend

OTPH = o-Terphenyl

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

Lab Sample ID: MB 580-373313/5
Matrix: Water
Analysis Batch: 373313

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			11/15/21 13:02	1
Benzene	ND		1.0		ug/L			11/15/21 13:02	1
Toluene	ND		1.0		ug/L			11/15/21 13:02	1
Ethylbenzene	ND		1.0		ug/L			11/15/21 13:02	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/15/21 13:02	1
o-Xylene	ND		1.0		ug/L			11/15/21 13:02	1
Xylenes, Total	ND		2.0		ug/L			11/15/21 13:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*11/15/21 13:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*11/15/21 13:02*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*11/15/21 13:02*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*11/15/21 13:02*	*1*

Lab Sample ID: LCS 580-373313/6
Matrix: Water
Analysis Batch: 373313

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methyl tert-butyl ether			10.0	9.75		ug/L		98	72 - 120		
Benzene			10.0	10.3		ug/L		103	80 - 122		
Toluene			10.0	10.5		ug/L		105	80 - 120		
Ethylbenzene			10.0	10.7		ug/L		107	80 - 120		
m-Xylene & p-Xylene			10.0	10.7		ug/L		107	80 - 120		
o-Xylene			10.0	10.3		ug/L		103	80 - 120		
Xylenes, Total			20.0	21.0		ug/L		105	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*90*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 580-373313/7
Matrix: Water
Analysis Batch: 373313

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
Methyl tert-butyl ether			10.0	9.83		ug/L		98	72 - 120	1	18
Benzene			10.0	9.84		ug/L		98	80 - 122	4	14
Toluene			10.0	10.1		ug/L		101	80 - 120	4	13
Ethylbenzene			10.0	10.1		ug/L		101	80 - 120	5	14
m-Xylene & p-Xylene			10.0	9.94		ug/L		99	80 - 120	7	14
o-Xylene			10.0	10.2		ug/L		102	80 - 120	1	16
Xylenes, Total			20.0	20.1		ug/L		101	80 - 120	4	16

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

Lab Sample ID: LCSD 580-373313/7
Matrix: Water
Analysis Batch: 373313

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*90*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 580-373449/7
Matrix: Water
Analysis Batch: 373449

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			11/16/21 12:55	1
Benzene	ND		1.0		ug/L			11/16/21 12:55	1
Toluene	ND		1.0		ug/L			11/16/21 12:55	1
Ethylbenzene	ND		1.0		ug/L			11/16/21 12:55	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/16/21 12:55	1
o-Xylene	ND		1.0		ug/L			11/16/21 12:55	1
Xylenes, Total	ND		2.0		ug/L			11/16/21 12:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/16/21 12:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*11/16/21 12:55*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*11/16/21 12:55*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*11/16/21 12:55*	*1*

Lab Sample ID: LCS 580-373449/4
Matrix: Water
Analysis Batch: 373449

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	10.0	9.60		ug/L		96	72 - 120
Benzene	10.0	9.52		ug/L		95	80 - 122
Toluene	10.0	9.69		ug/L		97	80 - 120
Ethylbenzene	10.0	10.0		ug/L		100	80 - 120
m-Xylene & p-Xylene	10.0	9.91		ug/L		99	80 - 120
o-Xylene	10.0	9.63		ug/L		96	80 - 120
Xylenes, Total	20.0	19.5		ug/L		98	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*

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

Lab Sample ID: LCSD 580-373449/5
Matrix: Water
Analysis Batch: 373449

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
Methyl tert-butyl ether			10.0	9.92		ug/L		99	72 - 120	3	18
Benzene			10.0	9.87		ug/L		99	80 - 122	4	14
Toluene			10.0	10.2		ug/L		102	80 - 120	5	13
Ethylbenzene			10.0	10.3		ug/L		103	80 - 120	2	14
m-Xylene & p-Xylene			10.0	10.1		ug/L		101	80 - 120	2	14
o-Xylene			10.0	9.85		ug/L		99	80 - 120	2	16
Xylenes, Total			20.0	20.0		ug/L		100	80 - 120	2	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 580-373570/28
Matrix: Water
Analysis Batch: 373570

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			11/17/21 14:17	1
Benzene	ND		1.0		ug/L			11/17/21 14:17	1
Toluene	ND		1.0		ug/L			11/17/21 14:17	1
Ethylbenzene	ND		1.0		ug/L			11/17/21 14:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/17/21 14:17	1
o-Xylene	ND		1.0		ug/L			11/17/21 14:17	1
Xylenes, Total	ND		2.0		ug/L			11/17/21 14:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/17/21 14:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*11/17/21 14:17*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*11/17/21 14:17*	*1*
Dibromofluoromethane (Surr)	*117*		*80 - 120*		*11/17/21 14:17*	*1*

Lab Sample ID: LCS 580-373570/4
Matrix: Water
Analysis Batch: 373570

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether			10.0	10.1		ug/L		101	72 - 120
Benzene			10.0	10.4		ug/L		104	80 - 122
Toluene			10.0	10.8		ug/L		108	80 - 120
Ethylbenzene			10.0	10.9		ug/L		109	80 - 120
m-Xylene & p-Xylene			10.0	10.5		ug/L		105	80 - 120
o-Xylene			10.0	10.7		ug/L		107	80 - 120
Xylenes, Total			20.0	21.2		ug/L		106	80 - 120

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

Lab Sample ID: LCS 580-373570/4
Matrix: Water
Analysis Batch: 373570

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*

Lab Sample ID: LCSD 580-373570/5
Matrix: Water
Analysis Batch: 373570

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
Methyl tert-butyl ether			10.0	9.93		ug/L		99	72 - 120	2	18
Benzene			10.0	10.0		ug/L		100	80 - 122	3	14
Toluene			10.0	10.2		ug/L		102	80 - 120	6	13
Ethylbenzene			10.0	10.8		ug/L		108	80 - 120	1	14
m-Xylene & p-Xylene			10.0	9.89		ug/L		99	80 - 120	6	14
o-Xylene			10.0	10.4		ug/L		104	80 - 120	3	16
Xylenes, Total			20.0	20.3		ug/L		101	80 - 120	4	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	*105*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*

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

Lab Sample ID: MB 580-372904/3
Matrix: Water
Analysis Batch: 372904

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			11/10/21 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*101*		*50 - 150*		*11/10/21 11:34*	*1*

Lab Sample ID: LCS 580-372904/4
Matrix: Water
Analysis Batch: 372904

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			1000	1030		ug/L		103	79 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*113*		*50 - 150*

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

Lab Sample ID: LCSD 580-372904/5
Matrix: Water
Analysis Batch: 372904

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	997		ug/L		100	79 - 120	3	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*50 - 150*

Lab Sample ID: MB 580-373379/3
Matrix: Water
Analysis Batch: 373379

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			11/16/21 06:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*50 - 150*		*11/16/21 06:44*	*1*

Lab Sample ID: LCS 580-373379/4
Matrix: Water
Analysis Batch: 373379

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			1000	925		ug/L		93	79 - 120		

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

Lab Sample ID: LCSD 580-373379/5
Matrix: Water
Analysis Batch: 373379

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	955		ug/L		95	79 - 120	3	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*50 - 150*

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

Lab Sample ID: MB 580-373768/1-A
Matrix: Water
Analysis Batch: 373811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		110		ug/L		11/18/21 15:59	11/19/21 13:01	1
Motor Oil (>C24-C36)	ND		350		ug/L		11/18/21 15:59	11/19/21 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*50 - 150*	*11/18/21 15:59*	*11/19/21 13:01*	*1*

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

Lab Sample ID: LCS 580-373768/2-A
Matrix: Water
Analysis Batch: 373811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373768

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			2000	1050		ug/L		53	50 - 120		
Motor Oil (>C24-C36)			2000	1330		ug/L		66	64 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*66*		*50 - 150*

Lab Sample ID: LCSD 580-373768/3-A
Matrix: Water
Analysis Batch: 373811

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373768

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			2000	1200		ug/L		60	50 - 120	14	26
Motor Oil (>C24-C36)			2000	1560		ug/L		78	64 - 120	16	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*78*		*50 - 150*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-373291/22-A
Matrix: Water
Analysis Batch: 373579

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 373291

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.40		ug/L		11/15/21 09:50	11/16/21 13:27	1

Lab Sample ID: LCS 580-373291/23-A
Matrix: Water
Analysis Batch: 373579

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 373291

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			1000	976		ug/L		98	80 - 120		

Lab Sample ID: LCSD 580-373291/24-A
Matrix: Water
Analysis Batch: 373579

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 373291

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1000	971		ug/L		97	80 - 120	0	20

Lab Sample ID: 580-107314-2 MS
Matrix: Water
Analysis Batch: 373579

Client Sample ID: B-1_20211108
Prep Type: Total Recoverable
Prep Batch: 373291

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	ND		1000	1070		ug/L		107	80 - 120		

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

Lab Sample ID: 580-107314-2 MSD
Matrix: Water
Analysis Batch: 373579

Client Sample ID: B-1_20211108
Prep Type: Total Recoverable
Prep Batch: 373291

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND		1000	1040		ug/L		104	80 - 120	3	20

Lab Sample ID: 580-107314-2 DU
Matrix: Water
Analysis Batch: 373579

Client Sample ID: B-1_20211108
Prep Type: Total Recoverable
Prep Batch: 373291

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 580-373521/22-A
Matrix: Water
Analysis Batch: 373678

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 373521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.40		ug/L		11/16/21 19:28	11/18/21 00:51	1

Lab Sample ID: LCS 580-373521/23-A
Matrix: Water
Analysis Batch: 373678

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 373521

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			1000	994		ug/L		99	80 - 120		

Lab Sample ID: LCSD 580-373521/24-A
Matrix: Water
Analysis Batch: 373678

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 373521

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1000	1000		ug/L		100	80 - 120	1	20

Lab Sample ID: 580-107314-1 MS
Matrix: Water
Analysis Batch: 373678

Client Sample ID: MW-11_20211105
Prep Type: Dissolved
Prep Batch: 373521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	ND		1000	1030		ug/L		103	80 - 120		

Lab Sample ID: 580-107314-1 MSD
Matrix: Water
Analysis Batch: 373678

Client Sample ID: MW-11_20211105
Prep Type: Dissolved
Prep Batch: 373521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND		1000	1020		ug/L		102	80 - 120	0	20

Lab Sample ID: 580-107314-2 MS
Matrix: Water
Analysis Batch: 373678

Client Sample ID: B-1_20211108
Prep Type: Dissolved
Prep Batch: 373521

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

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 580-107314-2 MSD
Matrix: Water
Analysis Batch: 373678

Client Sample ID: B-1_20211108
Prep Type: Dissolved
Prep Batch: 373521

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: 580-107314-1 DU
Matrix: Water
Analysis Batch: 373678

Client Sample ID: MW-11_20211105
Prep Type: Dissolved
Prep Batch: 373521

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-372971/16
Matrix: Water
Analysis Batch: 372971

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		mg/L			11/10/21 11:20	1
Nitrate as N	ND		0.20		mg/L			11/10/21 11:20	1

Lab Sample ID: LCS 580-372971/17
Matrix: Water
Analysis Batch: 372971

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	5.00	5.03		mg/L		101	90 - 110
Nitrate as N	5.00	5.00		mg/L		100	90 - 110

Lab Sample ID: LCSD 580-372971/18
Matrix: Water
Analysis Batch: 372971

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	5.04		mg/L		101	90 - 110	0	15
Nitrate as N	5.00	4.99		mg/L		100	90 - 110	0	15

Lab Sample ID: 580-107314-4 MS
Matrix: Water
Analysis Batch: 372971

Client Sample ID: MW-4_20211108
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	ND		5.00	4.93		mg/L		99	90 - 110
Nitrate as N	ND		5.00	4.90		mg/L		96	90 - 110

Lab Sample ID: 580-107314-4 MSD
Matrix: Water
Analysis Batch: 372971

Client Sample ID: MW-4_20211108
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		5.00	4.94		mg/L		99	90 - 110	0	15
Nitrate as N	ND		5.00	4.91		mg/L		97	90 - 110	0	15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 580-372979/4
Matrix: Water
Analysis Batch: 372979

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		mg/L			11/10/21 16:38	1
Nitrate as N	ND		0.20		mg/L			11/10/21 16:38	1

Lab Sample ID: LCS 580-372979/5
Matrix: Water
Analysis Batch: 372979

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	5.00	5.04		mg/L		101	90 - 110
Nitrate as N	5.00	5.01		mg/L		100	90 - 110

Lab Sample ID: LCSD 580-372979/6
Matrix: Water
Analysis Batch: 372979

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	5.05		mg/L		101	90 - 110	0	15
Nitrate as N	5.00	5.01		mg/L		100	90 - 110	0	15

Lab Sample ID: 580-107314-4 MS
Matrix: Water
Analysis Batch: 372979

Client Sample ID: MW-4_20211108
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	ND	H	5.00	4.96		mg/L		99	90 - 110
Nitrate as N	ND	H	5.00	4.95		mg/L		98	90 - 110

Lab Sample ID: 580-107314-4 MSD
Matrix: Water
Analysis Batch: 372979

Client Sample ID: MW-4_20211108
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	5.00	4.96		mg/L		99	90 - 110	0	15
Nitrate as N	ND	H	5.00	4.95		mg/L		98	90 - 110	0	15

Lab Sample ID: MB 580-372990/4
Matrix: Water
Analysis Batch: 372990

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		mg/L			11/10/21 16:38	1

Lab Sample ID: LCS 580-372990/5
Matrix: Water
Analysis Batch: 372990

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	51.0		mg/L		102	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-372990/6
Matrix: Water
Analysis Batch: 372990

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	51.0		mg/L		102	90 - 110	0	15

Lab Sample ID: 580-107314-4 MS
Matrix: Water
Analysis Batch: 372990

Client Sample ID: MW-4_20211108
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	42		50.0	91.2		mg/L		99	90 - 110		

Lab Sample ID: 580-107314-4 MSD
Matrix: Water
Analysis Batch: 372990

Client Sample ID: MW-4_20211108
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	42		50.0	91.2		mg/L		99	90 - 110	0	15

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 580-373195/1
Matrix: Water
Analysis Batch: 373195

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		2.0		mg/L			11/12/21 16:22	1

Lab Sample ID: LCS 580-373195/2
Matrix: Water
Analysis Batch: 373195

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			500	576		mg/L		115	80 - 120		

Lab Sample ID: MB 580-373202/1
Matrix: Water
Analysis Batch: 373202

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		2.0		mg/L			11/12/21 18:17	1

Lab Sample ID: LCS 580-373202/2
Matrix: Water
Analysis Batch: 373202

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			500	398		mg/L		80	80 - 120		

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: 580-107314-4 DU
Matrix: Water
Analysis Batch: 373202

Client Sample ID: MW-4_20211108
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	25			30.0		mg/L				17	20

Lab Sample ID: 580-107314-7 DU
Matrix: Water
Analysis Batch: 373202

Client Sample ID: MW-13_20211108
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	14			13.4		mg/L				2	20

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-107314-1

GC/MS VOA

Analysis Batch: 373313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-1	MW-11_20211105	Total/NA	Water	8260D	
580-107314-3	Trip-Blank_20211105	Total/NA	Water	8260D	
MB 580-373313/5	Method Blank	Total/NA	Water	8260D	
LCS 580-373313/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-373313/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 373449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-4	MW-4_20211108	Total/NA	Water	8260D	
580-107314-5	MW-10_20211108	Total/NA	Water	8260D	
580-107314-6	MW-12_20211108	Total/NA	Water	8260D	
580-107314-7	MW-13_20211108	Total/NA	Water	8260D	
580-107314-10	Tank_20211108	Total/NA	Water	8260D	
MB 580-373449/7	Method Blank	Total/NA	Water	8260D	
LCS 580-373449/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-373449/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 373570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-2	B-1_20211108	Total/NA	Water	8260D	
580-107314-8	MW-15_20211108	Total/NA	Water	8260D	
580-107314-9	MW-19_20211108	Total/NA	Water	8260D	
MB 580-373570/28	Method Blank	Total/NA	Water	8260D	
LCS 580-373570/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-373570/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC VOA

Analysis Batch: 372904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-1	MW-11_20211105	Total/NA	Water	NWTPH-Gx	
MB 580-372904/3	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 580-372904/4	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 580-372904/5	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

Analysis Batch: 373379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-2	B-1_20211108	Total/NA	Water	NWTPH-Gx	
580-107314-4	MW-4_20211108	Total/NA	Water	NWTPH-Gx	
580-107314-5	MW-10_20211108	Total/NA	Water	NWTPH-Gx	
580-107314-6	MW-12_20211108	Total/NA	Water	NWTPH-Gx	
580-107314-7	MW-13_20211108	Total/NA	Water	NWTPH-Gx	
580-107314-8	MW-15_20211108	Total/NA	Water	NWTPH-Gx	
580-107314-9	MW-19_20211108	Total/NA	Water	NWTPH-Gx	
580-107314-10	Tank_20211108	Total/NA	Water	NWTPH-Gx	
MB 580-373379/3	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 580-373379/4	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 580-373379/5	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

GC Semi VOA

Prep Batch: 373768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-1	MW-11_20211105	Total/NA	Water	3510C	
580-107314-2	B-1_20211108	Total/NA	Water	3510C	
580-107314-4	MW-4_20211108	Total/NA	Water	3510C	
580-107314-5	MW-10_20211108	Total/NA	Water	3510C	
580-107314-6	MW-12_20211108	Total/NA	Water	3510C	
580-107314-7	MW-13_20211108	Total/NA	Water	3510C	
580-107314-8	MW-15_20211108	Total/NA	Water	3510C	
580-107314-9	MW-19_20211108	Total/NA	Water	3510C	
580-107314-10	Tank_20211108	Total/NA	Water	3510C	
MB 580-373768/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-373768/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-373768/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 373811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 580-373768/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	373768
LCS 580-373768/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	373768
LCSD 580-373768/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	373768

Analysis Batch: 373890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-1	MW-11_20211105	Total/NA	Water	NWTPH-Dx	373768
580-107314-2	B-1_20211108	Total/NA	Water	NWTPH-Dx	373768
580-107314-4	MW-4_20211108	Total/NA	Water	NWTPH-Dx	373768
580-107314-5	MW-10_20211108	Total/NA	Water	NWTPH-Dx	373768
580-107314-6	MW-12_20211108	Total/NA	Water	NWTPH-Dx	373768
580-107314-7	MW-13_20211108	Total/NA	Water	NWTPH-Dx	373768
580-107314-8	MW-15_20211108	Total/NA	Water	NWTPH-Dx	373768
580-107314-9	MW-19_20211108	Total/NA	Water	NWTPH-Dx	373768
580-107314-10	Tank_20211108	Total/NA	Water	NWTPH-Dx	373768

Metals

Prep Batch: 373291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-1	MW-11_20211105	Total Recoverable	Water	3005A	
580-107314-2	B-1_20211108	Total Recoverable	Water	3005A	
580-107314-4	MW-4_20211108	Total Recoverable	Water	3005A	
580-107314-5	MW-10_20211108	Total Recoverable	Water	3005A	
580-107314-6	MW-12_20211108	Total Recoverable	Water	3005A	
580-107314-7	MW-13_20211108	Total Recoverable	Water	3005A	
580-107314-8	MW-15_20211108	Total Recoverable	Water	3005A	
580-107314-9	MW-19_20211108	Total Recoverable	Water	3005A	
580-107314-10	Tank_20211108	Total Recoverable	Water	3005A	
MB 580-373291/22-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-373291/23-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-373291/24-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
580-107314-2 MS	B-1_20211108	Total Recoverable	Water	3005A	
580-107314-2 MSD	B-1_20211108	Total Recoverable	Water	3005A	
580-107314-2 DU	B-1_20211108	Total Recoverable	Water	3005A	

Metals

Filtration Batch: 373348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-1	MW-11_20211105	Dissolved	Water	FILTRATION	
580-107314-2	B-1_20211108	Dissolved	Water	FILTRATION	
580-107314-4	MW-4_20211108	Dissolved	Water	FILTRATION	
580-107314-5	MW-10_20211108	Dissolved	Water	FILTRATION	
580-107314-6	MW-12_20211108	Dissolved	Water	FILTRATION	
580-107314-7	MW-13_20211108	Dissolved	Water	FILTRATION	
580-107314-8	MW-15_20211108	Dissolved	Water	FILTRATION	
580-107314-9	MW-19_20211108	Dissolved	Water	FILTRATION	
580-107314-10	Tank_20211108	Dissolved	Water	FILTRATION	
580-107314-1 MS	MW-11_20211105	Dissolved	Water	FILTRATION	
580-107314-1 MSD	MW-11_20211105	Dissolved	Water	FILTRATION	
580-107314-2 MS	B-1_20211108	Dissolved	Water	FILTRATION	
580-107314-2 MSD	B-1_20211108	Dissolved	Water	FILTRATION	
580-107314-1 DU	MW-11_20211105	Dissolved	Water	FILTRATION	

Prep Batch: 373521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-1	MW-11_20211105	Dissolved	Water	3005A	373348
580-107314-2	B-1_20211108	Dissolved	Water	3005A	373348
580-107314-4	MW-4_20211108	Dissolved	Water	3005A	373348
580-107314-5	MW-10_20211108	Dissolved	Water	3005A	373348
580-107314-6	MW-12_20211108	Dissolved	Water	3005A	373348
580-107314-7	MW-13_20211108	Dissolved	Water	3005A	373348
580-107314-8	MW-15_20211108	Dissolved	Water	3005A	373348
580-107314-9	MW-19_20211108	Dissolved	Water	3005A	373348
580-107314-10	Tank_20211108	Dissolved	Water	3005A	373348
MB 580-373521/22-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-373521/23-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-373521/24-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
580-107314-1 MS	MW-11_20211105	Dissolved	Water	3005A	373348
580-107314-1 MSD	MW-11_20211105	Dissolved	Water	3005A	373348
580-107314-2 MS	B-1_20211108	Dissolved	Water	3005A	373348
580-107314-2 MSD	B-1_20211108	Dissolved	Water	3005A	373348
580-107314-1 DU	MW-11_20211105	Dissolved	Water	3005A	373348

Analysis Batch: 373579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-1	MW-11_20211105	Total Recoverable	Water	6020B	373291
580-107314-2	B-1_20211108	Total Recoverable	Water	6020B	373291
580-107314-4	MW-4_20211108	Total Recoverable	Water	6020B	373291
580-107314-5	MW-10_20211108	Total Recoverable	Water	6020B	373291
580-107314-6	MW-12_20211108	Total Recoverable	Water	6020B	373291
580-107314-7	MW-13_20211108	Total Recoverable	Water	6020B	373291
580-107314-8	MW-15_20211108	Total Recoverable	Water	6020B	373291
580-107314-9	MW-19_20211108	Total Recoverable	Water	6020B	373291
580-107314-10	Tank_20211108	Total Recoverable	Water	6020B	373291
MB 580-373291/22-A	Method Blank	Total Recoverable	Water	6020B	373291
LCS 580-373291/23-A	Lab Control Sample	Total Recoverable	Water	6020B	373291
LCSD 580-373291/24-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	373291
580-107314-2 MS	B-1_20211108	Total Recoverable	Water	6020B	373291
580-107314-2 MSD	B-1_20211108	Total Recoverable	Water	6020B	373291

Metals (Continued)

Analysis Batch: 373579 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-2 DU	B-1_20211108	Total Recoverable	Water	6020B	373291

Analysis Batch: 373678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-1	MW-11_20211105	Dissolved	Water	6020B	373521
580-107314-2	B-1_20211108	Dissolved	Water	6020B	373521
580-107314-4	MW-4_20211108	Dissolved	Water	6020B	373521
580-107314-5	MW-10_20211108	Dissolved	Water	6020B	373521
580-107314-6	MW-12_20211108	Dissolved	Water	6020B	373521
580-107314-7	MW-13_20211108	Dissolved	Water	6020B	373521
580-107314-8	MW-15_20211108	Dissolved	Water	6020B	373521
580-107314-9	MW-19_20211108	Dissolved	Water	6020B	373521
580-107314-10	Tank_20211108	Dissolved	Water	6020B	373521
MB 580-373521/22-A	Method Blank	Total Recoverable	Water	6020B	373521
LCS 580-373521/23-A	Lab Control Sample	Total Recoverable	Water	6020B	373521
LCSD 580-373521/24-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	373521
580-107314-1 MS	MW-11_20211105	Dissolved	Water	6020B	373521
580-107314-1 MSD	MW-11_20211105	Dissolved	Water	6020B	373521
580-107314-2 MS	B-1_20211108	Dissolved	Water	6020B	373521
580-107314-2 MSD	B-1_20211108	Dissolved	Water	6020B	373521
580-107314-1 DU	MW-11_20211105	Dissolved	Water	6020B	373521

General Chemistry

Analysis Batch: 372971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-2	B-1_20211108	Total/NA	Water	300.0	
580-107314-4	MW-4_20211108	Total/NA	Water	300.0	
580-107314-5	MW-10_20211108	Total/NA	Water	300.0	
580-107314-6	MW-12_20211108	Total/NA	Water	300.0	
580-107314-7	MW-13_20211108	Total/NA	Water	300.0	
580-107314-8	MW-15_20211108	Total/NA	Water	300.0	
580-107314-9	MW-19_20211108	Total/NA	Water	300.0	
580-107314-10	Tank_20211108	Total/NA	Water	300.0	
MB 580-372971/16	Method Blank	Total/NA	Water	300.0	
LCS 580-372971/17	Lab Control Sample	Total/NA	Water	300.0	
LCSD 580-372971/18	Lab Control Sample Dup	Total/NA	Water	300.0	
580-107314-4 MS	MW-4_20211108	Total/NA	Water	300.0	
580-107314-4 MSD	MW-4_20211108	Total/NA	Water	300.0	

Analysis Batch: 372979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-2	B-1_20211108	Total/NA	Water	300.0	
580-107314-4	MW-4_20211108	Total/NA	Water	300.0	
580-107314-5	MW-10_20211108	Total/NA	Water	300.0	
580-107314-6	MW-12_20211108	Total/NA	Water	300.0	
580-107314-7	MW-13_20211108	Total/NA	Water	300.0	
580-107314-8	MW-15_20211108	Total/NA	Water	300.0	
580-107314-9	MW-19_20211108	Total/NA	Water	300.0	
580-107314-10	Tank_20211108	Total/NA	Water	300.0	
MB 580-372979/4	Method Blank	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 372979 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 580-372979/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 580-372979/6	Lab Control Sample Dup	Total/NA	Water	300.0	
580-107314-4 MS	MW-4_20211108	Total/NA	Water	300.0	
580-107314-4 MSD	MW-4_20211108	Total/NA	Water	300.0	

Analysis Batch: 372990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-2	B-1_20211108	Total/NA	Water	300.0	
580-107314-4	MW-4_20211108	Total/NA	Water	300.0	
580-107314-5	MW-10_20211108	Total/NA	Water	300.0	
580-107314-6	MW-12_20211108	Total/NA	Water	300.0	
580-107314-7	MW-13_20211108	Total/NA	Water	300.0	
580-107314-8	MW-15_20211108	Total/NA	Water	300.0	
580-107314-9	MW-19_20211108	Total/NA	Water	300.0	
580-107314-10	Tank_20211108	Total/NA	Water	300.0	
MB 580-372990/4	Method Blank	Total/NA	Water	300.0	
LCS 580-372990/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 580-372990/6	Lab Control Sample Dup	Total/NA	Water	300.0	
580-107314-4 MS	MW-4_20211108	Total/NA	Water	300.0	
580-107314-4 MSD	MW-4_20211108	Total/NA	Water	300.0	

Analysis Batch: 373195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-2	B-1_20211108	Total/NA	Water	SM 2540D	
MB 580-373195/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 580-373195/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 373202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-107314-4	MW-4_20211108	Total/NA	Water	SM 2540D	
580-107314-5	MW-10_20211108	Total/NA	Water	SM 2540D	
580-107314-6	MW-12_20211108	Total/NA	Water	SM 2540D	
580-107314-7	MW-13_20211108	Total/NA	Water	SM 2540D	
580-107314-8	MW-15_20211108	Total/NA	Water	SM 2540D	
580-107314-9	MW-19_20211108	Total/NA	Water	SM 2540D	
580-107314-10	Tank_20211108	Total/NA	Water	SM 2540D	
MB 580-373202/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 580-373202/2	Lab Control Sample	Total/NA	Water	SM 2540D	
580-107314-4 DU	MW-4_20211108	Total/NA	Water	SM 2540D	
580-107314-7 DU	MW-13_20211108	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-107314-1

Client Sample ID: MW-11_20211105
Date Collected: 11/05/21 11:00
Date Received: 11/09/21 10:53

Lab Sample ID: 580-107314-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	373313	11/15/21 19:42	B1M	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	372904	11/10/21 12:47	CJ	FGS SEA
Total/NA	Prep	3510C			373768	11/18/21 15:59	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	373890	11/20/21 07:54	TL1	FGS SEA
Dissolved	Filtration	FILTRATION			373348	11/15/21 13:09	TMH	FGS SEA
Dissolved	Prep	3005A			373521	11/16/21 19:28	ABP	FGS SEA
Dissolved	Analysis	6020B		5	373678	11/18/21 00:59	TMH	FGS SEA
Total Recoverable	Prep	3005A			373291	11/15/21 09:50	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	373579	11/17/21 01:55	FCW	FGS SEA

Client Sample ID: B-1_20211108
Date Collected: 11/08/21 11:30
Date Received: 11/09/21 10:53

Lab Sample ID: 580-107314-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	373570	11/17/21 15:32	TL1	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	373379	11/16/21 12:49	JSM	FGS SEA
Total/NA	Prep	3510C			373768	11/18/21 15:59	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	373890	11/20/21 08:14	TL1	FGS SEA
Dissolved	Filtration	FILTRATION			373348	11/15/21 13:09	TMH	FGS SEA
Dissolved	Prep	3005A			373521	11/16/21 19:28	ABP	FGS SEA
Dissolved	Analysis	6020B		5	373678	11/18/21 01:41	TMH	FGS SEA
Total Recoverable	Prep	3005A			373291	11/15/21 09:49	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	373579	11/16/21 13:35	FCW	FGS SEA
Total/NA	Analysis	300.0		1	372971	11/10/21 08:48	E1S	FGS SEA
Total/NA	Analysis	300.0		1	372979	11/10/21 17:13	E1S	FGS SEA
Total/NA	Analysis	300.0		1	372990	11/10/21 17:13	E1S	FGS SEA
Total/NA	Analysis	SM 2540D		1	373195	11/12/21 16:22	MLT	FGS SEA

Client Sample ID: Trip-Blank_20211105
Date Collected: 11/05/21 00:01
Date Received: 11/09/21 10:53

Lab Sample ID: 580-107314-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	373313	11/15/21 20:07	B1M	FGS SEA

Client Sample ID: MW-4_20211108
Date Collected: 11/08/21 16:00
Date Received: 11/09/21 10:53

Lab Sample ID: 580-107314-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	373449	11/16/21 19:10	TL1	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	373379	11/16/21 13:14	JSM	FGS SEA

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-107314-1

Client Sample ID: MW-4_20211108

Lab Sample ID: 580-107314-4
Matrix: Water
Date Collected: 11/08/21 16:00
Date Received: 11/09/21 10:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			373768	11/18/21 15:59	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	373890	11/20/21 08:34	TL1	FGS SEA
Dissolved	Filtration	FILTRATION			373348	11/15/21 13:09	TMH	FGS SEA
Dissolved	Prep	3005A			373521	11/16/21 19:28	ABP	FGS SEA
Dissolved	Analysis	6020B		5	373678	11/18/21 01:53	TMH	FGS SEA
Total Recoverable	Prep	3005A			373291	11/15/21 09:49	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	373579	11/17/21 01:24	FCW	FGS SEA
Total/NA	Analysis	300.0		1	372971	11/10/21 09:00	E1S	FGS SEA
Total/NA	Analysis	300.0		1	372979	11/10/21 17:25	E1S	FGS SEA
Total/NA	Analysis	300.0		1	372990	11/10/21 17:25	E1S	FGS SEA
Total/NA	Analysis	SM 2540D		1	373202	11/12/21 18:17	ABP	FGS SEA

Client Sample ID: MW-10_20211108

Lab Sample ID: 580-107314-5
Matrix: Water
Date Collected: 11/08/21 12:15
Date Received: 11/09/21 10:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	373449	11/16/21 19:35	TL1	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	373379	11/16/21 13:38	JSM	FGS SEA
Total/NA	Prep	3510C			373768	11/18/21 15:59	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	373890	11/20/21 08:54	TL1	FGS SEA
Dissolved	Filtration	FILTRATION			373348	11/15/21 13:09	TMH	FGS SEA
Dissolved	Prep	3005A			373521	11/16/21 19:28	ABP	FGS SEA
Dissolved	Analysis	6020B		5	373678	11/18/21 01:57	TMH	FGS SEA
Total Recoverable	Prep	3005A			373291	11/15/21 09:49	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	373579	11/17/21 01:28	FCW	FGS SEA
Total/NA	Analysis	300.0		1	372971	11/10/21 09:35	E1S	FGS SEA
Total/NA	Analysis	300.0		1	372979	11/10/21 18:00	E1S	FGS SEA
Total/NA	Analysis	300.0		2	372990	11/10/21 18:12	E1S	FGS SEA
Total/NA	Analysis	SM 2540D		1	373202	11/12/21 18:17	ABP	FGS SEA

Client Sample ID: MW-12_20211108

Lab Sample ID: 580-107314-6
Matrix: Water
Date Collected: 11/08/21 14:15
Date Received: 11/09/21 10:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	373449	11/16/21 20:01	TL1	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	373379	11/16/21 14:02	JSM	FGS SEA
Total/NA	Prep	3510C			373768	11/18/21 15:59	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	373890	11/20/21 09:15	TL1	FGS SEA
Dissolved	Filtration	FILTRATION			373348	11/15/21 13:09	TMH	FGS SEA
Dissolved	Prep	3005A			373521	11/16/21 19:28	ABP	FGS SEA
Dissolved	Analysis	6020B		5	373678	11/18/21 02:01	TMH	FGS SEA

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-107314-1

Client Sample ID: MW-12_20211108
Date Collected: 11/08/21 14:15
Date Received: 11/09/21 10:53

Lab Sample ID: 580-107314-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			373291	11/15/21 09:49	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	373579	11/17/21 01:32	FCW	FGS SEA
Total/NA	Analysis	300.0		1	372971	11/10/21 09:46	E1S	FGS SEA
Total/NA	Analysis	300.0		1	372979	11/10/21 18:24	E1S	FGS SEA
Total/NA	Analysis	300.0		1	372990	11/10/21 18:24	E1S	FGS SEA
Total/NA	Analysis	SM 2540D		1	373202	11/12/21 18:17	ABP	FGS SEA

Client Sample ID: MW-13_20211108
Date Collected: 11/08/21 13:00
Date Received: 11/09/21 10:53

Lab Sample ID: 580-107314-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	373449	11/16/21 20:26	TL1	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	373379	11/16/21 14:27	JSM	FGS SEA
Total/NA	Prep	3510C			373768	11/18/21 15:59	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	373890	11/20/21 09:55	TL1	FGS SEA
Dissolved	Filtration	FILTRATION			373348	11/15/21 13:09	TMH	FGS SEA
Dissolved	Prep	3005A			373521	11/16/21 19:28	ABP	FGS SEA
Dissolved	Analysis	6020B		5	373678	11/18/21 02:04	TMH	FGS SEA
Total Recoverable	Prep	3005A			373291	11/15/21 09:50	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	373579	11/17/21 01:39	FCW	FGS SEA
Total/NA	Analysis	300.0		1	372971	11/10/21 09:58	E1S	FGS SEA
Total/NA	Analysis	300.0		1	372979	11/10/21 19:11	E1S	FGS SEA
Total/NA	Analysis	300.0		1	372990	11/10/21 19:11	E1S	FGS SEA
Total/NA	Analysis	SM 2540D		1	373202	11/12/21 18:17	ABP	FGS SEA

Client Sample ID: MW-15_20211108
Date Collected: 11/08/21 13:40
Date Received: 11/09/21 10:53

Lab Sample ID: 580-107314-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	373570	11/17/21 15:59	TL1	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	373379	11/16/21 15:16	JSM	FGS SEA
Total/NA	Prep	3510C			373768	11/18/21 15:59	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	373890	11/20/21 10:15	TL1	FGS SEA
Dissolved	Filtration	FILTRATION			373348	11/15/21 13:09	TMH	FGS SEA
Dissolved	Prep	3005A			373521	11/16/21 19:28	ABP	FGS SEA
Dissolved	Analysis	6020B		5	373678	11/18/21 02:08	TMH	FGS SEA
Total Recoverable	Prep	3005A			373291	11/15/21 09:49	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	373579	11/17/21 01:36	FCW	FGS SEA
Total/NA	Analysis	300.0		1	372971	11/10/21 10:10	E1S	FGS SEA
Total/NA	Analysis	300.0		1	372979	11/10/21 19:22	E1S	FGS SEA
Total/NA	Analysis	300.0		1	372990	11/10/21 19:22	E1S	FGS SEA

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-107314-1

Client Sample ID: MW-15_20211108

Lab Sample ID: 580-107314-8
Matrix: Water
Date Collected: 11/08/21 13:40
Date Received: 11/09/21 10:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	373202	11/12/21 18:17	ABP	FGS SEA

Client Sample ID: MW-19_20211108

Lab Sample ID: 580-107314-9
Matrix: Water
Date Collected: 11/08/21 15:00
Date Received: 11/09/21 10:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	373570	11/17/21 16:24	TL1	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	373379	11/16/21 15:40	JSM	FGS SEA
Total/NA	Prep	3510C			373768	11/18/21 15:59	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	373890	11/20/21 10:35	TL1	FGS SEA
Dissolved	Filtration	FILTRATION			373348	11/15/21 13:09	TMH	FGS SEA
Dissolved	Prep	3005A			373521	11/16/21 19:28	ABP	FGS SEA
Dissolved	Analysis	6020B		5	373678	11/18/21 02:12	TMH	FGS SEA
Total Recoverable	Prep	3005A			373291	11/15/21 09:50	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	373579	11/17/21 01:43	FCW	FGS SEA
Total/NA	Analysis	300.0		1	372971	11/10/21 10:22	E1S	FGS SEA
Total/NA	Analysis	300.0		1	372979	11/10/21 19:34	E1S	FGS SEA
Total/NA	Analysis	300.0		1	372990	11/10/21 19:34	E1S	FGS SEA
Total/NA	Analysis	SM 2540D		1	373202	11/12/21 18:17	ABP	FGS SEA

Client Sample ID: Tank_20211108

Lab Sample ID: 580-107314-10
Matrix: Water
Date Collected: 11/08/21 17:00
Date Received: 11/09/21 10:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	373449	11/16/21 20:52	TL1	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	373379	11/16/21 16:05	JSM	FGS SEA
Total/NA	Prep	3510C			373768	11/18/21 15:59	JHR	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	373890	11/20/21 10:55	TL1	FGS SEA
Dissolved	Filtration	FILTRATION			373348	11/15/21 13:09	TMH	FGS SEA
Dissolved	Prep	3005A			373521	11/16/21 19:28	ABP	FGS SEA
Dissolved	Analysis	6020B		5	373678	11/18/21 00:55	TMH	FGS SEA
Total Recoverable	Prep	3005A			373291	11/15/21 09:50	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	373579	11/17/21 01:47	FCW	FGS SEA
Total/NA	Analysis	300.0		1	372971	11/10/21 10:33	E1S	FGS SEA
Total/NA	Analysis	300.0		1	372979	11/10/21 19:46	E1S	FGS SEA
Total/NA	Analysis	300.0		1	372990	11/10/21 19:46	E1S	FGS SEA
Total/NA	Analysis	SM 2540D		1	373202	11/12/21 18:17	ABP	FGS SEA

Laboratory References:

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

Accreditation/Certification Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-107314-1

Laboratory: Eurofins FGS, Seattle

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

Method Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-107314-1

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

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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:

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

Sample Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-107314-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-107314-1	MW-11_20211105	Water	11/05/21 11:00	11/09/21 10:53
580-107314-2	B-1_20211108	Water	11/08/21 11:30	11/09/21 10:53
580-107314-3	Trip-Blank_20211105	Water	11/05/21 00:01	11/09/21 10:53
580-107314-4	MW-4_20211108	Water	11/08/21 16:00	11/09/21 10:53
580-107314-5	MW-10_20211108	Water	11/08/21 12:15	11/09/21 10:53
580-107314-6	MW-12_20211108	Water	11/08/21 14:15	11/09/21 10:53
580-107314-7	MW-13_20211108	Water	11/08/21 13:00	11/09/21 10:53
580-107314-8	MW-15_20211108	Water	11/08/21 13:40	11/09/21 10:53
580-107314-9	MW-19_20211108	Water	11/08/21 15:00	11/09/21 10:53
580-107314-10	Tank_20211108	Water	11/08/21 17:00	11/09/21 10:53

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

BP Site Node Path: ARCO 980
BP/RM Facility No: ARCO Facility No. 00980
Req Due Date (mm/dd/yy): Standard TAT — Rush TAT Yes ____ No X
Lab Work Order Number:

Lab Name: Test America	BP/ARC Facility Address: 10822 Roosevelt Way NE	Consultant/Contractor: Antea Group
Lab Address: 5755 8th Street East, Tacoma, WA 98424	City, State, ZIP Code: Seattle, WA	Consultant/Contractor Project No: 00980SA211.20100
Lab PM: 00980SA201.20100.MR	Lead Regulatory Agency: Washington State Department of Ecology	Address: 2006 148th Ave NE, Redmond, WA 98052
Lab Phone: 253.248.4972	California Global ID No.: NA	Consultant/Contractor PM: Megan Richard
Lab Shipping Accnt: NA	Enfos Proposal No: 009VH-0016 WR850198	Phone: 425 498 7711 Email: Megan.Richard@anteagroup.us
Lab Bottle Order No: NA	Accounting Mode: Provision X OOC-BU ____ OOC-RM ____	Send/Submit EDD to: Megan.Richard@anteagroup.us
Other Info: elaine.walker@Eurofinset.com	Stage 2_Select (20) Activity Additional Data Collection (100)	Invoice To: BP-RM ____ BP/ARC X

BP/RM PM: Wade Melton
PM Phone: 360-594-7978
PM Email: wade.melton@bp.com

Report Type & QC Level: Limited (Standard) Package — ; Limited Plus Package; 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	BTEX by EPA 8260	MTBE by EPA 8260	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 6020	Pb-D by EPA 6020	Comments
	~~MW-4~~			W				G			X	X	X	X	X	X	KY
	MW-11 - 20211105	11/5/21	1100	W				G	10		X	X	X	X	X	X	Lab Filter Pb-D
	~~MW-12~~			W				G			X	X	X	X	X	X	KY
	~~MW-13~~			W				G			X	X	X	X	X	X	KY
	~~MW-15~~			W				G			X	X	X	X	X	X	KY
	~~MW-20~~			W				G			X	X	X	X	X	X	KY
	~~MW-21~~			W				G			X	X	X	X	X	X	KY

Sampler's Name: Kate Younger / Sam Hinze
Sampler's Company: Antea Group
Ship Method: Courier Ship Date:
Shipment Tracking No:

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Jonah Levergon / Antea	11/9/21	1055	[signature]	11/9/21	1053

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 |

580-107314 Chain of Custody

bp rm

Laboratory Management Program (LaMP) Chain of Custody Record

Soil, Sediment and Groundwater Samples

BP Site Node Path: ARCO 980 **Req Due Date (mm/dd/yy):** Standard TAT **Rush TAT** Yes ____ No X

BP/RM Facility No: ARCO Facility No. 00980 **Lab Work Order Number:**

Lab Name:	Test America	BP/ARC Facility Address:	10822 Roosevelt Way NE	Consultant/Contractor:	Antea Group
Lab Address:	5755 8th Street East, Tacoma, WA 98424	City, State, ZIP Code:	Seattle, WA	Consultant/Contractor Project No:	00980SA211.20100
Lab PM:	00980SA211.20100.MR	Lead Regulatory Agency:	Washington State Department of Ecology	Address:	2006 148th Ave NE, Redmond, WA 98052
Lab Phone:	253.248.4972	California Global ID No.:	NA	Consultant/Contractor PM:	Megan Richard
Lab Shipping Accnt:	NA	Enfos Proposal No:	009VH-0016 WR850198	Phone: 425 498 7711	Email: Megan.Richard@anteagroup.us
Lab Bottle Order No:	NA	Accounting Mode:	Provision ___X___ OOC-BU _____ OOC-RM _____	Send/Submit EDD to:	Megan.Richard@anteagroup.us
Other Info:	elaine.walker@Eurofinset.com	Stage	2_Select (20) Activity Additional Data Collection (100)	Invoice To:	BP-RM _____ BP/ARC ___X___
BP/RM PM:	Wade Melton				
PM Phone:	360-594-7978				
PM Email:	wade.melton@bp.com				

Sample Details | **Requested Analyses** | **Report Type & QC Level**

Report Type & QC Level: Limited (Standard) Package —; Limited Plus Package; 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	Filt	Pres	Analysis	BTEX by EPA 8260	MTBE by EPA 8260	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 6020	Pb-D by EPA 6020	NO_2 / NO_3 / Sulfate by 300.0	TSS 2540C	Comments
	B-1_20211108	11/8/21	1130	W				G	12				X	X	X	X	X	X	X	X	
	Trip-Blank	—	—	W				G	6				X								

Sampler's Name:	Jeff Karambelas	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	Antea Group	Jonah Levrgin / Antea	11/7/21	1055		11/9/21	1053
Ship Method:	Ship Date:						
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 Soil/H2O COC July 2018

bp rm

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

BP Site Node Path: ARCO 980 | Req Due Date (mm/dd/yy): Standard TAT | Rush TAT Yes ____ No X

BP/RM Facility No: ARCO Facility No. 00980 | Lab Work Order Number:

Lab Name:	Test America	BP/ARC Facility Address:	10822 Roosevelt Way NE	Consultant/Contractor:	Antea Group
Lab Address:	5755 8th Street East, Tacoma, WA 98424	City, State, ZIP Code:	Seattle, WA	Consultant/Contractor Project No:	00980SA211.20100
Lab PM:	00980SA201.20100.MR	Lead Regulatory Agency:	Washington State Department of Ecology	Address:	2006 148th Ave NE, Redmond, WA 98052
Lab Phone:	253.248.4972	California Global ID No.:	NA	Consultant/Contractor PM:	Megan Richard
Lab Shipping Accnt:	NA	Enfos Proposal No:	009VH-0016 WR850198	Phone: 425 498 7711 Email:	Megan.Richard@anteagroup.us
Lab Bottle Order No:	NA	Accounting Mode:	Provision ___X___ OOC-BU _____ OOC-RM _____	Send/Submit EDD to:	Megan.Richard@anteagroup.us
Other Info:	elaine.walker@Eurofinset.com	Stage	2_Select (20) Activity Additional Data Collection (100)	Invoice To:	BP-RM _____ BP/ARC ___X___
BP/RM PM:	Wade Melton				
PM Phone:	360-594-7978				
PM Email:	wade.melton@bp.com				

Sample Details | **Requested Analyses** | **Report Type & QC Level**

Report Type & QC Level: Limited (Standard) Package ____ ; Limited Plus Package ; 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	Fill	Pres	Analysis: BTEX by EPA 8260	MTBE by EPA 8260	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 6020	Pb-D by EPA 6020	NO2/NO3 4300	TSS 2540C	Sulfate 4? 300.0	Comments
	MW-4_20211108	11/8/21	1600	W				G	12			X	X	X	X	X	X	X	X	X	
	MW-10_20211108	11/8/21	1215	W				G	12			X	X	X	X	X	X	X	X	X	
	MW-12_20211108	11/8/21	1415	W				G	12			X	X	X	X	X	X	X	X	X	
	MW-13_20211108	11/8/21	1300	W				G	12			X	X	X	X	X	X	X	X	X	
	MW-15_20211108	11/8/21	1340	W				G	12			X	X	X	X	X	X	X	X	X	
	~~MW-18~~ MW-19_20211108	11/8/21	1500	W				G	12			X	X	X	X	X	X	X	X	X	
	~~MW-21~~ Tank_20211108	11/8/21	1700	W				G	12			X	X	X	X	X	X	X	X	X	

Sampler's Name:	Jeff Karambelas	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	Antea Group	Jonah Levrouw / Antea	11/9/21	1055		11/9/21	1053
Ship Method:	Ship Date:						
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 Soil/H2O COC July 2018

Therm. ID: IR8 Cor: -1.7 ° Unc: -1.4 °
Cooler Dsc: LB
Packing: Bub
Cust. Seal: Yes ___ No ✓
Blue Ice, Wet, Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: CD

Therm. ID: IR8 Cor: 2.0 ° Unc: 2.3 °
Cooler Dsc: LB
Packing: Bub ✓
Cust. Seal: Yes ___ No ___
Blue Ice, Wet, Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: CD

Therm. ID: IR8 Cor: 0.2 ° Unc: 0.5 °
Cooler Dsc: LB
Packing: Bub ✓
Cust. Seal: Yes ___ No ___
Blue Ice, Wet, Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: CD

Login Container Summary Report

580-107314

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservative Added (mls)	Lot #
MW-11_20211105	580-107314-G-1	Plastic 250ml - with Nitric Acid	<2			
MW-11_20211105	580-107314-H-1	Plastic 250ml - w/nitric - dis				
MW-11_20211105	580-107314-I-1	Amber Glass 250mL - hydrochloric acid	<2			
MW-11_20211105	580-107314-J-1	Amber Glass 250mL - hydrochloric acid	<2			
B1_20211108	580-107314-H-2	Plastic 500ml - with Nitric Acid	<2			
B1_20211108	580-107314-K-2	Amber Glass 250mL - hydrochloric acid	<2			
B1_20211108	580-107314-L-2	Amber Glass 250mL - hydrochloric acid	<2			
MW-4_20211108	580-107314-H-4	Plastic 500ml - with Nitric Acid	<2			
MW-4_20211108	580-107314-K-4	Amber Glass 250mL - hydrochloric acid	<2			
MW-4_20211108	580-107314-L-4	Amber Glass 250mL - hydrochloric acid	<2			
MW-10_20211108	580-107314-H-5	Plastic 500ml - with Nitric Acid	<2			
MW-10_20211108	580-107314-K-5	Amber Glass 250mL - hydrochloric acid	<2			
MW-10_20211108	580-107314-L-5	Amber Glass 250mL - hydrochloric acid	<2			
MW-12_20211108	580-107314-H-6	Plastic 500ml - with Nitric Acid	<2			
MW-12_20211108	580-107314-K-6	Amber Glass 250mL - hydrochloric acid	<2			
MW-12_20211108	580-107314-L-6	Amber Glass 250mL - hydrochloric acid	<2			
MW-13_20211108	580-107314-H-7	Plastic 500ml - with Nitric Acid	<2			
MW-13_20211108	580-107314-K-7	Amber Glass 250mL - hydrochloric acid	<2			
MW-13_20211108	580-107314-L-7	Amber Glass 250mL - hydrochloric acid	<2			
MW-15_20211108	580-107314-H-8	Plastic 500ml - with Nitric Acid	<2			
MW-15_20211108	580-107314-K-8	Amber Glass 250mL - hydrochloric acid	<2			
MW-15_20211108	580-107314-L-8	Amber Glass 250mL - hydrochloric acid	<2			
MW-19_20211108	580-107314-H-9	Plastic 500ml - with Nitric Acid	<2			
MW-19_20211108	580-107314-K-9	Amber Glass 250mL - hydrochloric acid	<2			
MW-19_20211108	580-107314-L-9	Amber Glass 250mL - hydrochloric acid	<2			
TANK__20211108	580-107314-H-10	Plastic 500ml - with Nitric Acid	<2			
TANK__20211108	580-107314-K-10	Amber Glass 250mL - hydrochloric acid	<2			
TANK__20211108	580-107314-L-10	Amber Glass 250mL - hydrochloric acid	<2			

Login Sample Receipt Checklist

Client: Antea USA Inc.

Job Number: 580-107314-1

Login Number: 107314
List Number: 1
Creator: Vallelunga, Diana L

List Source: Eurofins FGS, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No date or time on COC or sample containers
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
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 FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373313 Batch Start Date: 11/15/21 10:58 Batch Analyst: Mautz, Brady 1

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00003	VOAMasterMix 00070	VOASTDGASweek 00078
MB 580-373313/5		8260D		5 mL	5 mL		1 uL		
LCS 580-373313/6		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
LCSD 580-373313/7		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
580-107314-B-1	MW-11_20211105	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-107314-B-3	Trip-Blank_20211108	8260D	T	5 mL	5 mL	<2 SU	1 uL		

Batch Notes	
pH Indicator ID	6003004
Vial Lot Number	0204201G

Basis	Basis Description
T	Total/NA

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

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373449 Batch Start Date: 11/16/21 10:26 Batch Analyst: Limwiroj, Thanyawan 1

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00003	VOAMasterMix 00070	VOASTDGASweek 00078
LCS 580-373449/4		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
LCSD 580-373449/5		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
MB 580-373449/7		8260D		5 mL	5 mL		1 uL		
580-107314-A-4	MW-4_20211108	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-107314-A-5	MW-10_20211108	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-107314-A-6	MW-12_20211108	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-107314-A-7	MW-13_20211108	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-107314-B-10	Tank__20211108	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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373570 Batch Start Date: 11/17/21 10:56 Batch Analyst: Limwiroj, Thanyawan 1

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00003	VOAMasterMix 00070	VOASTDGASweek 00078
LCS 580-373570/4		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
LCSD 580-373570/5		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
580-107314-C-2	B-1_20211108	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-107314-B-8	MW-15_20211108	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-107314-B-9	MW-19_20211108	8260D	T	5 mL	5 mL	<2 SU	1 uL		
MB 580-373570/28		8260D		5 mL	5 mL		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.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 372904 Batch Start Date: 11/10/21 10:45 Batch Analyst: Jantanu, Charinporn

Batch Method: NWTPH-Gx Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFBGRO ARCHON 00046	GRO_LCS 00069	
MB 580-372904/3		NWTPH-Gx		5 mL	5 mL		1 uL		
LCS 580-372904/4		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
LCSD 580-372904/5		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
580-107314-A-1	MW-11_20211105	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.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373379 Batch Start Date: 11/16/21 05:55 Batch Analyst: McKell, Justin S

Batch Method: NWTPH-Gx Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFBGRO ARCHON 00048	GRO_LCS 00070	
MB 580-373379/3		NWTPH-Gx		5 mL	5 mL		1 uL		
LCS 580-373379/4		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
LCSD 580-373379/5		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
580-107314-D-2	B-1_20211108	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-107314-C-4	MW-4_20211108	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-107314-C-5	MW-10_20211108	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-107314-D-6	MW-12_20211108	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-107314-C-7	MW-13_20211108	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-107314-C-8	MW-15_20211108	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-107314-C-9	MW-19_20211108	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-107314-C-10	Tank__20211108	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		

Batch Notes	
pH Indicator ID	691003
Pipette/Syringe/Dispenser ID	0204201g

Basis	Basis Description
T	Total/NA

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

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373768 Batch Start Date: 11/18/21 15:59 Batch Analyst: Roberts, Jacob H

Batch Method: 3510C Batch End Date: 11/18/21 22:58

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-373768/1		3510C, NWTPH-Dx				250 mL	1 mL	7 SU	2 SU
LCS 580-373768/2		3510C, NWTPH-Dx				250 mL	1 mL	7 SU	2 SU
LCSD 580-373768/3		3510C, NWTPH-Dx				250 mL	1 mL	7 SU	2 SU
580-107314-J-1	MW-11_20211105	3510C, NWTPH-Dx	T	00410.91 g	00164.91 g	246 mL	1 mL	2 SU	n/a SU
580-107314-K-2	B-1_20211108	3510C, NWTPH-Dx	T	00409.83 g	00165.91 g	243.9 mL	1 mL	2 SU	n/a SU
580-107314-K-4	MW-4_20211108	3510C, NWTPH-Dx	T	00412.98 g	00165.40 g	247.6 mL	1 mL	2 SU	n/a SU
580-107314-K-5	MW-10_20211108	3510C, NWTPH-Dx	T	00407.35 g	00165.24 g	242.1 mL	1 mL	2 SU	n/a SU
580-107314-K-6	MW-12_20211108	3510C, NWTPH-Dx	T	00403.72 g	00165.20 g	238.5 mL	1 mL	2 SU	n/a SU
580-107314-L-7	MW-13_20211108	3510C, NWTPH-Dx	T	00407.84 g	00165.23 g	242.6 mL	1 mL	2 SU	n/a SU
580-107314-K-8	MW-15_20211108	3510C, NWTPH-Dx	T	00405.78 g	00164.92 g	240.9 mL	1 mL	2 SU	n/a SU
580-107314-L-9	MW-19_20211108	3510C, NWTPH-Dx	T	00408.94 g	00166.29 g	242.7 mL	1 mL	2 SU	n/a SU
580-107314-K-10	Tank_20211108	3510C, NWTPH-Dx	T	00403.54 g	00166.06 g	237.5 mL	1 mL	2 SU	n/a SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	TPH_Water_Spk 00030	TPH_WaterSurr 00074			
MB 580-373768/1		3510C, NWTPH-Dx		n/a SU		100 uL			
LCS 580-373768/2		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
LCSD 580-373768/3		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
580-107314-J-1	MW-11_20211105	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-107314-K-2	B-1_20211108	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-107314-K-4	MW-4_20211108	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-107314-K-5	MW-10_20211108	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.

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373768 Batch Start Date: 11/18/21 15:59 Batch Analyst: Roberts, Jacob H

Batch Method: 3510C Batch End Date: 11/18/21 22:58

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	TPH_Water_Spk 00030	TPH_WaterSurr 00074			
580-107314-K-6	MW-12_20211108	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-107314-L-7	MW-13_20211108	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-107314-K-8	MW-15_20211108	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-107314-L-9	MW-19_20211108	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-107314-K-10	Tank_20211108	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.

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373768 Batch Start Date: 11/18/21 15:59 Batch Analyst: Roberts, Jacob H

Batch Method: 3510C Batch End Date: 11/18/21 22:58

Batch Notes	
Method/Fraction	3510C_LVI / NWTPH
Balance ID	SEA225
pH Indicator ID	6003004 / 6003005
Pipette/Syringe/Dispenser ID	MP4
Analyst ID - Extraction	JHR
Reagent Water ID	DI
Analyst ID - Spike Analyst	JHR
Analyst ID - Spike Witness Analyst	AP
Sufficient Volume for Batch QC	no
Acid Used for pH Adjustment ID	2815022
Prep Solvent ID	3004678
Prep Solvent Volume Used	100 mL
Filter ID	2815023
Na2SO4 ID	288067
Analyst ID - Concentration	JHR
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	70.3-75.3 Degrees C
Equipment ID - Concentration 2	Turbovap 5
Thermometer ID - Concentration 2	DIGITALREADOUT
Concentration 2 Uncorrected Temperature	18.0 Degrees C
Concentration 2 Corrected Temperature	16.2 Degrees C
Vial Lot Number	24162054
Batch Comment	Vialed by: JHR

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373291 Batch Start Date: 11/15/21 09:49 Batch Analyst: Hua, Tammy M

Batch Method: 3005A Batch End Date: 11/15/21 16:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00011	ICP CAL 2 00011	MET Spike 3C 00033	
580-107314-H-2	B-1_20211108	3005A, 6020B	R	50 mL	50 mL				
580-107314-H-2 DU	B-1_20211108	3005A, 6020B	R	50 mL	50 mL				
580-107314-H-2 MS	B-1_20211108	3005A, 6020B	R	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-107314-H-2 MSD	B-1_20211108	3005A, 6020B	R	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-107314-H-4	MW-4_20211108	3005A, 6020B	R	50 mL	50 mL				
580-107314-H-5	MW-10_20211108	3005A, 6020B	R	50 mL	50 mL				
580-107314-H-6	MW-12_20211108	3005A, 6020B	R	50 mL	50 mL				
580-107314-H-8	MW-15_20211108	3005A, 6020B	R	50 mL	50 mL				
580-107314-H-7	MW-13_20211108	3005A, 6020B	R	50 mL	50 mL				
580-107314-H-9	MW-19_20211108	3005A, 6020B	R	50 mL	50 mL				
580-107314-H-10	Tank_20211108	3005A, 6020B	R	50 mL	50 mL				
580-107314-G-1	MW-11_20211105	3005A, 6020B	R	50 mL	50 mL				
MB 580-373291/22		3005A, 6020B		50 mL	50 mL				
LCS 580-373291/23		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-373291/24		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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373291 Batch Start Date: 11/15/21 09:49 Batch Analyst: Hua, Tammy M

Batch Method: 3005A Batch End Date: 11/15/21 16:00

Batch Notes	
Digestion Tube/Cup ID	2953186
Pipette/Syringe/Dispenser ID	metals prep 2
Analyst ID - Spike Analyst	FCW
Analyst ID - Spike Witness Analyst	TH
Sufficient Volume for Batch QC	YES
Hydrochloric Acid ID	2981739
Nitric Acid ID	2954805
Digestion Unit ID	BLOCK E
Thermometer ID	700396
Thermometer Location ID	E42
Temperature - Uncorrected - Start	94.0 Degrees C
Temperature - Corrected - Start	94.1 Degrees C
Digestion Start Time	11/15/2021 12:00
Digestion End Time	11/15/2021 16:00
Temperature - Uncorrected - End	94.0 Degrees C
Temperature - Corrected - End	94.1 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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373348 Batch Start Date: 11/15/21 13:09 Batch Analyst: Hua, Tammy M

Batch Method: FILTRATION Batch End Date: 11/15/21 14:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
580-107314-H-1	MW-11_20211105	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-107314-J-2	B-1_20211108	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-107314-I-4	MW-4_20211108	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-107314-J-5	MW-10_20211108	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-107314-I-6	MW-12_20211108	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-107314-J-7	MW-13_20211108	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-107314-I-8	MW-15_20211108	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-107314-I-9	MW-19_20211108	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-107314-J-10	Tank_20211108	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				

Batch Notes	
Filter ID	1330812
Nitric Acid ID	2954804

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373521 Batch Start Date: 11/16/21 20:04 Batch Analyst: Pineda, Abigail B

Batch Method: 3005A Batch End Date: 11/17/21 01:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00015	ICP CAL 2 00014	MET Spike 3C 00033	
580-107314-H-1-A	MW-11_20211105	3005A, 6020B	D	50 mL	50 mL				
580-107314-H-1-A DU	MW-11_20211105	3005A, 6020B	D	50 mL	50 mL				
580-107314-H-1-A MS	MW-11_20211105	3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-107314-H-1-A MSD	MW-11_20211105	3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-107314-J-2-A	B-1_20211108	3005A, 6020B	D	50 mL	50 mL				
580-107314-J-2-A MS	B-1_20211108	3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-107314-J-2-A MSD	B-1_20211108	3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-107314-I-4-A	MW-4_20211108	3005A, 6020B	D	50 mL	50 mL				
580-107314-J-5-A	MW-10_20211108	3005A, 6020B	D	50 mL	50 mL				
580-107314-I-6-A	MW-12_20211108	3005A, 6020B	D	50 mL	50 mL				
580-107314-J-7-A	MW-13_20211108	3005A, 6020B	D	50 mL	50 mL				
580-107314-I-8-A	MW-15_20211108	3005A, 6020B	D	50 mL	50 mL				
580-107314-I-9-A	MW-19_20211108	3005A, 6020B	D	50 mL	50 mL				
580-107314-J-10-A	Tank_20211108	3005A, 6020B	D	50 mL	50 mL				
MB 580-373521/22		3005A, 6020B		50 mL	50 mL				
LCS 580-373521/23		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-373521/24		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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373521 Batch Start Date: 11/16/21 20:04 Batch Analyst: Pineda, Abigail B

Batch Method: 3005A Batch End Date: 11/17/21 01:00

Batch Notes	
Hot Block ID	Block E
Thermometer ID	700396
Thermometer Location ID	E20
Uncorrected Temperature	94.0 Celsius
Oven, Bath or Block Temperature 1	94.1 Degrees C
Uncorrected Temperature 2	94.0 Celsius
Oven, Bath or Block Temperature 2	94.1 Degrees C
Lot # of hydrochloric acid	2981740
Lot # of Nitric Acid	2954801
Pipette ID	Metals Prep 2
Digestion Tube/Cup ID	2953187
First Start time	see above
First End time	see above
Analyst ID - Spike Witness Analyst	th

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 372971 Batch Start Date: 11/10/21 08:25 Batch Analyst: Saiz, Erin 1

Batch Method: 300.0 Batch End Date: 11/11/21 09:01

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC-Custom-EE 00027			
580-107314-J-2	B-1_20211108	300.0	T	5 mL	5 mL				
580-107314-J-4	MW-4_20211108	300.0	T	5 mL	5 mL				
580-107314-J-4 MS	MW-4_20211108	300.0	T	5 mL	5 mL	0.25 mL			
580-107314-J-4 MSD	MW-4_20211108	300.0	T	5 mL	5 mL	0.25 mL			
580-107314-J-5	MW-10_20211108	300.0	T	5 mL	5 mL				
580-107314-J-6	MW-12_20211108	300.0	T	5 mL	5 mL				
580-107314-I-7	MW-13_20211108	300.0	T	5 mL	5 mL				
580-107314-J-8	MW-15_20211108	300.0	T	5 mL	5 mL				
580-107314-J-9	MW-19_20211108	300.0	T	5 mL	5 mL				
580-107314-J-10	Tank_20211108	300.0	T	5 mL	5 mL				
580-107314-J-5 ^2	MW-10_20211108	300.0	T	5 mL	5 mL				
MB 580-372971/16		300.0		5 mL	5 mL				
LCS 580-372971/17		300.0		5 mL	5 mL	0.25 mL			
LCSD 580-372971/18		300.0		5 mL	5 mL	0.25 mL			

Batch Notes	
Filter ID	17312407
Pipette/Syringe/Dispenser ID	wc2d
Eluent 1 ID	210402

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 372979 Batch Start Date: 11/10/21 16:02 Batch Analyst: Saiz, Erin 1

Batch Method: 300.0 Batch End Date: 11/11/21 09:42

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC-Custom-EE 00027			
MB 580-372979/4		300.0		5 mL	5 mL				
LCS 580-372979/5		300.0		5 mL	5 mL	0.25 mL			
LCSD 580-372979/6		300.0		5 mL	5 mL	0.25 mL			
580-107314-J-2	B-1_20211108	300.0	T	5 mL	5 mL				
580-107314-J-4	MW-4_20211108	300.0	T	5 mL	5 mL				
580-107314-J-4 MS	MW-4_20211108	300.0	T	5 mL	5 mL	0.25 mL			
580-107314-J-4 MSD	MW-4_20211108	300.0	T	5 mL	5 mL	0.25 mL			
580-107314-J-5	MW-10_20211108	300.0	T	5 mL	5 mL				
580-107314-J-5 ^2	MW-10_20211108	300.0	T	5 mL	5 mL				
580-107314-J-6	MW-12_20211108	300.0	T	5 mL	5 mL				
580-107314-I-7	MW-13_20211108	300.0	T	5 mL	5 mL				
580-107314-J-8	MW-15_20211108	300.0	T	5 mL	5 mL				
580-107314-J-9	MW-19_20211108	300.0	T	5 mL	5 mL				
580-107314-J-10	Tank_20211108	300.0	T	5 mL	5 mL				

Batch Notes	
Filter ID	17312407
Pipette/Syringe/Dispenser ID	wc2d
Eluent 1 ID	210402

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 372990 Batch Start Date: 11/10/21 16:02 Batch Analyst: Saiz, Erin 1

Batch Method: 300.0 Batch End Date: 11/11/21 10:37

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC-Custom-EE 00027			
MB 580-372990/4		300.0		5 mL	5 mL				
LCS 580-372990/5		300.0		5 mL	5 mL	0.25 mL			
LCSD 580-372990/6		300.0		5 mL	5 mL	0.25 mL			
580-107314-J-2	B-1_20211108	300.0	T	5 mL	5 mL				
580-107314-J-4	MW-4_20211108	300.0	T	5 mL	5 mL				
580-107314-J-4 MS	MW-4_20211108	300.0	T	5 mL	5 mL	0.25 mL			
580-107314-J-4 MSD	MW-4_20211108	300.0	T	5 mL	5 mL	0.25 mL			
580-107314-J-5	MW-10_20211108	300.0	T	5 mL	5 mL				
580-107314-J-5 ^2	MW-10_20211108	300.0	T	5 mL	5 mL				
580-107314-J-6	MW-12_20211108	300.0	T	5 mL	5 mL				
580-107314-I-7	MW-13_20211108	300.0	T	5 mL	5 mL				
580-107314-J-8	MW-15_20211108	300.0	T	5 mL	5 mL				
580-107314-J-9	MW-19_20211108	300.0	T	5 mL	5 mL				
580-107314-J-10	Tank_20211108	300.0	T	5 mL	5 mL				

Batch Notes	
Filter ID	17312407
Pipette/Syringe/Dispenser ID	wc2d
Eluent 1 ID	210402

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373195 Batch Start Date: 11/12/21 16:22 Batch Analyst: Tanase, Michelle L

Batch Method: SM 2540D Batch End Date: 11/13/21 19:41

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	WeightOne%Diff
MB 580-373195/1		SM 2540D		gNJ7S	0.1202 g	500 mL	0.1195 g	0.1194 g	PASS <0.5mg g
LCS 580-373195/2		SM 2540D		gNJ7T	0.1202 g	50 mL	0.1490 g	0.1490 g	PASS <0.5mg g
580-107314-G-2	B-1_20211108	SM 2540D	T	gNMWR	0.1206 g	500 mL	0.1438 g	0.1434 g	PASS <0.5mg g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue	Residue2	FinalAmount	TSS-Std 00015		
MB 580-373195/1		SM 2540D		-0.0007 g	-0.0008 g	500 mL			
LCS 580-373195/2		SM 2540D		0.0288 g	0.0288 g	500 mL	50 mL		
580-107314-G-2	B-1_20211108	SM 2540D	T	0.0232 g	0.0228 g	500 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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373195 Batch Start Date: 11/12/21 16:22 Batch Analyst: Tanase, Michelle L

Batch Method: SM 2540D Batch End Date: 11/13/21 19:41

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	500 mL
Filter ID	1041RT
Balance ID	SEA236 (WT1) /SEA227 (WT2)
Oven ID	TSS1
Thermometer ID	Digital Readout
Date/Time - In	11/12/2021 19:23
Temperature - Start - Uncorrected	102 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	11/12/2021 20:49
Temperature - End - Uncorrected	102 Celsius
Temperature - End - Corrected	104 Celsius
Date/Time - In - CW (WT2)	11/12/2021 21:48
Temperature - Start-CW(WT2) -Uncorrected	102 Deg. C
Temperature - Start - CW (WT2) - Correct	104 Celsius
Date/Time - Out - CW (WT2)	11/13/2021 16:06
Temperature - End-CW(WT2) -Uncorrected	102 Celsius
Temperature - End - CW (WT2) - Correct	104 Celsius
Date/Time - In - CW (WT3)	11/13/2021 17:04
Temperature - Start-CW(WT3) -Uncorrected	102 Celsius
Temperature - Start - CW (WT3) - Correct	104 Celsius
Date/Time - Out - CW (WT3)	11/13/2021 19:00
Temperature - End-CW(WT3) -Uncorrected	102 Celsius
Temperature - End - CW (WT3) - Correct	104 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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373202 Batch Start Date: 11/12/21 18:17 Batch Analyst: Pineda, Abigail B

Batch Method: SM 2540D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	Weight3
MB 580-373202/1		SM 2540D		gNMEA	0.1218 g	500 mL	0.1216 g	0.1213 g	
LCS 580-373202/2		SM 2540D		gNMX3	0.1205 g	50 mL	0.1393 g	0.1400 g	0.1404 g
580-107314-G-4	MW-4_20211108	SM 2540D	T	gNMX4	0.1209 g	250 mL	0.1270 g	0.1272 g	
580-107314-G-4 DU	MW-4_20211108	SM 2540D	T	gNMX5	0.1192 g	250 mL	0.1269 g	0.1267 g	
580-107314-G-5	MW-10_20211108	SM 2540D	T	gNMX6	0.1215 g	500 mL	0.1220 g	0.1222 g	
580-107314-G-6	MW-12_20211108	SM 2540D	T	gNMX7	0.1201 g	500 mL	0.1261 g	0.1262 g	
580-107314-G-7	MW-13_20211108	SM 2540D	T	gNMX8	0.1203 g	350 mL	0.1255 g	0.1251 g	
580-107314-G-7 DU	MW-13_20211108	SM 2540D	T	gNMX9	0.1206 g	350 mL	0.1250 g	0.1253 g	
580-107314-G-8	MW-15_20211108	SM 2540D	T	gNMVV	0.1206 g	500 mL	0.1228 g	0.1227 g	
580-107314-G-9	MW-19_20211108	SM 2540D	T	gNMVW	0.1198 g	500 mL	0.1262 g	0.1265 g	
580-107314-G-10	Tank_20211108	SM 2540D	T	gNMVX	0.1206 g	500 mL	0.1208 g	0.1212 g	

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightOne%Diff	WeightTwo%Diff	Residue	Residue2	Residue3	FinalAmount
MB 580-373202/1		SM 2540D		PASS <0.5mg g		-0.0002 g	-0.0005 g		500 mL
LCS 580-373202/2		SM 2540D		Fail >=0.5mg g	PASS <0.5mg g	0.0188 g	0.0195 g	0.0199 g	500 mL
580-107314-G-4	MW-4_20211108	SM 2540D	T	PASS <0.5mg g		0.0061 g	0.0063 g		500 mL
580-107314-G-4 DU	MW-4_20211108	SM 2540D	T	PASS <0.5mg g		0.0077 g	0.0075 g		500 mL
580-107314-G-5	MW-10_20211108	SM 2540D	T	PASS <0.5mg g		0.0005 g	0.0007 g		500 mL
580-107314-G-6	MW-12_20211108	SM 2540D	T	PASS <0.5mg g		0.0060 g	0.0061 g		500 mL
580-107314-G-7	MW-13_20211108	SM 2540D	T	PASS <0.5mg g		0.0052 g	0.0048 g		500 mL
580-107314-G-7 DU	MW-13_20211108	SM 2540D	T	PASS <0.5mg g		0.0044 g	0.0047 g		500 mL
580-107314-G-8	MW-15_20211108	SM 2540D	T	PASS <0.5mg g		0.0022 g	0.0021 g		500 mL
580-107314-G-9	MW-19_20211108	SM 2540D	T	PASS <0.5mg g		0.0064 g	0.0067 g		500 mL
580-107314-G-10	Tank_20211108	SM 2540D	T	PASS <0.5mg g		0.0002 g	0.0006 g		500 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	TSS-Std 00015					
MB 580-373202/1		SM 2540D							

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373202 Batch Start Date: 11/12/21 18:17 Batch Analyst: Pineda, Abigail B

Batch Method: SM 2540D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	TSS-Std 00015					
LCS 580-373202/2		SM 2540D		50 mL					
580-107314-G-4	MW-4_20211108	SM 2540D	T						
580-107314-G-4 DU	MW-4_20211108	SM 2540D	T						
580-107314-G-5	MW-10_20211108	SM 2540D	T						
580-107314-G-6	MW-12_20211108	SM 2540D	T						
580-107314-G-7	MW-13_20211108	SM 2540D	T						
580-107314-G-7 DU	MW-13_20211108	SM 2540D	T						
580-107314-G-8	MW-15_20211108	SM 2540D	T						
580-107314-G-9	MW-19_20211108	SM 2540D	T						
580-107314-G-10	Tank_20211108	SM 2540D	T						

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-107314-1

SDG No.:

Batch Number: 373202 Batch Start Date: 11/12/21 18:17 Batch Analyst: Pineda, Abigail B

Batch Method: SM 2540D Batch End Date:

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	500 mL
Balance ID	SEA241
Oven ID	TSS1
Thermometer ID	Digital Readout
Date/Time - In	11/10/2021 16:47
Temperature - Start - Uncorrected	102 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	11/17/2021 12:19
Temperature - End - Uncorrected	102 Celsius
Temperature - End - Corrected	104 Celsius
Date/Time - In - CW (WT2)	11/15/2021 16:34
Temperature - Start-CW(WT2) -Uncorrected	102 Deg. C
Temperature - Start - CW (WT2) - Correct	104 Celsius
Date/Time - Out - CW (WT2)	11/12/2021 11:00
Temperature - End-CW(WT2) -Uncorrected	102 Celsius
Temperature - End - CW (WT2) - Correct	104 Celsius
Date/Time - In - CW (WT3)	11/19/2021 21:51
Temperature - Start-CW(WT3) -Uncorrected	102 Celsius
Temperature - Start - CW (WT3) - Correct	104 Celsius
Date/Time - Out - CW (WT3)	11/20/2021 15:45
Temperature - End-CW(WT3) -Uncorrected	102 Celsius
Temperature - End - CW (WT3) - Correct	104 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.

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ANALYTICAL REPORT

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-108349-1
Client Project/Site: BP -ARCO 980
Sampling Event: Antea ARCO 980

For:
Antea USA Inc.
4006 148th Ave NE
Redmond, Washington 98052

Attn: Megan Richard

Authorized for release by:
12/29/2021 3:10:15 PM
Sheri Cruz, Project Manager I
(253)922-2310
Sheri.Cruz@Eurofinset.com

Designee for

Elaine Walker, Project Manager II
(253)248-4972
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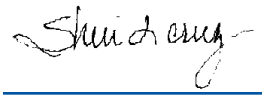
The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPLAMP Technical Specifications, applicable federal, state, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPLAMP. This Laboratory Report is confidential and is intended for the sole use of Eurofins TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The signature on the cover page extends to the case narrative and all the data and forms in the package. The Chain of Custody is included and is an integral part of this report.



Sheri Cruz
Project Manager I
12/29/2021 3:10:15 PM

Table of Contents

Definitions/Glossary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-108349-1

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

Job ID: 580-108349-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative
580-108349-1

Comments
No additional comments.

Receipt
The samples were received on 12/14/2021 11:00 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 4.1º C.

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

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

GC Semi VOA
Method NWTPH-Dx: In analytical batch 580-376737, the following CCV contained #2 Diesel (C10-C24) at 15.3%. This passes %D criteria by virtue of rounding; therefore, the data has been reported. (CCV 580-376737/14)

Method NWTPH-Dx: The continuing calibration verification (CCV) associated with batch 580-376737 recovered above the upper control limit for #2 Diesel (C10-C24) and Motor Oil (>C24-C36). 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-10_20211213 (580-108349-2) and (CCV 580-376737/25).

Method NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: MW-4_20211213 (580-108349-1) and MW-12_20211213 (580-108349-3).

Method NWTPH-Dx: The following sample contained a hydrocarbon pattern in the diesel range; however, the elution pattern was earlier than the typical diesel fuel pattern used by the laboratory for quantitative purposes: B1_20211213 (580-108349-4).

No additional analytical or quality issues were noted, other than those described above or 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: A closing and opening CCVL was not included in the sequence run for BP LaMP.

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

Organic Prep
Method 3510C: The following samples formed emulsions during the extraction procedure: MW-12_20211213 (580-108349-3) and B1_20211213 (580-108349-4). The emulsions were broken up using additional sodium sulfate filtration and methylene chloride rinses.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-376710, so a laboratory control sample and laboratory control sample duplicate were created and substituted for the MS/MSD/DUP.

No additional analytical or quality issues were noted, other than those described above or 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 980

Job ID: 580-108349-1

Client Sample ID: MW-4_20211213 — Lab Sample ID: 580-108349-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	340		110		ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	730		350		ug/L	1		NWTPH-Dx	Total/NA
Sulfate	35		1.5		mg/L	1		300.0	Total/NA
Nitrate as N	0.37		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	640		50		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-10_20211213 — Lab Sample ID: 580-108349-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	40		1.5		mg/L	1		300.0	Total/NA
Nitrate as N	1.7		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	250		50		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-12_20211213 — Lab Sample ID: 580-108349-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	470		110		ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	860		350		ug/L	1		NWTPH-Dx	Total/NA
Sulfate	15		1.5		mg/L	1		300.0	Total/NA
Total Dissolved Solids	230		50		mg/L	1		SM 2540C	Total/NA

Client Sample ID: B1_20211213 — Lab Sample ID: 580-108349-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	670		110		ug/L	1		NWTPH-Dx	Total/NA
Lead	2.2		2.0		ug/L	5		6020B	Total Recoverable
Sulfate	1400		150		mg/L	100		300.0	Total/NA
Nitrate as N	86		2.0		mg/L	10		300.0	Total/NA
Total Dissolved Solids	2200		100		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-4_20211213

Lab Sample ID: 580-108349-1
Matrix: Water
Date Collected: 12/13/21 12:35
Date Received: 12/14/21 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			12/27/21 14:21	1
Benzene	ND		1.0		ug/L			12/27/21 14:21	1
Toluene	ND		1.0		ug/L			12/27/21 14:21	1
Ethylbenzene	ND		1.0		ug/L			12/27/21 14:21	1
m-Xylene & p-Xylene	ND		2.0		ug/L			12/27/21 14:21	1
o-Xylene	ND		1.0		ug/L			12/27/21 14:21	1
Xylenes, Total	ND		2.0		ug/L			12/27/21 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/27/21 14:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*12/27/21 14:21*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*12/27/21 14:21*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*12/27/21 14:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			12/16/21 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*50 - 150*		*12/16/21 02:45*	*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)	**340**		110		ug/L		12/23/21 10:20	12/28/21 04:09	1
Motor Oil (>C24-C36)	**730**		350		ug/L		12/23/21 10:20	12/28/21 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*12/23/21 10:20*	*12/28/21 04:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		12/27/21 16:47	12/28/21 13:15	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.40		ug/L		12/17/21 10:35	12/17/21 21:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			12/14/21 23:54	1
Sulfate	**35**		1.5		mg/L			12/28/21 13:58	1
Nitrate as N	**0.37**		0.20		mg/L			12/14/21 23:54	1
Total Dissolved Solids	**640**		50		mg/L			12/15/21 20:22	1

Client Sample ID: MW-10_20211213

Lab Sample ID: 580-108349-2
Matrix: Water
Date Collected: 12/13/21 11:30
Date Received: 12/14/21 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			12/27/21 14:45	1
Benzene	ND		1.0		ug/L			12/27/21 14:45	1

Client Sample ID: MW-10_20211213

Lab Sample ID: 580-108349-2

Date Collected: 12/13/21 11:30
Date Received: 12/14/21 11:00

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0		ug/L			12/27/21 14:45	1
Ethylbenzene	ND		1.0		ug/L			12/27/21 14:45	1
m-Xylene & p-Xylene	ND		2.0		ug/L			12/27/21 14:45	1
o-Xylene	ND		1.0		ug/L			12/27/21 14:45	1
Xylenes, Total	ND		2.0		ug/L			12/27/21 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*12/27/21 14:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*12/27/21 14:45*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/27/21 14:45*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*12/27/21 14:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			12/16/21 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*50 - 150*		*12/16/21 03:09*	*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		110		ug/L		12/23/21 10:20	12/23/21 23:13	1
Motor Oil (>C24-C36)	ND		360		ug/L		12/23/21 10:20	12/23/21 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*12/23/21 10:20*	*12/23/21 23:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		12/27/21 16:47	12/28/21 13:19	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		12/17/21 10:35	12/17/21 22:49	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			12/15/21 00:29	1
Sulfate	**40**		1.5		mg/L			12/28/21 14:33	1
Nitrate as N	**1.7**		0.20		mg/L			12/15/21 00:29	1
Total Dissolved Solids	**250**		50		mg/L			12/15/21 20:22	1

Client Sample ID: MW-12_20211213

Lab Sample ID: 580-108349-3

Date Collected: 12/13/21 09:35
Date Received: 12/14/21 11:00

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			12/27/21 16:47	1
Benzene	ND		1.0		ug/L			12/27/21 16:47	1
Toluene	ND		1.0		ug/L			12/27/21 16:47	1
Ethylbenzene	ND		1.0		ug/L			12/27/21 16:47	1

Client Sample ID: MW-12_20211213

Lab Sample ID: 580-108349-3

Date Collected: 12/13/21 09:35
Matrix: Water
Date Received: 12/14/21 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0		ug/L			12/27/21 16:47	1
o-Xylene	ND		1.0		ug/L			12/27/21 16:47	1
Xylenes, Total	ND		2.0		ug/L			12/27/21 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/27/21 16:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*12/27/21 16:47*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*12/27/21 16:47*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*12/27/21 16:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			12/16/21 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*50 - 150*		*12/16/21 04:47*	*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)	**470**		110		ug/L		12/23/21 10:20	12/28/21 04:29	1
Motor Oil (>C24-C36)	**860**		350		ug/L		12/23/21 10:20	12/28/21 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*12/23/21 10:20*	*12/28/21 04:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		12/27/21 16:47	12/28/21 13:22	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		12/17/21 10:35	12/17/21 22:53	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			12/15/21 00:41	1
Sulfate	**15**		1.5		mg/L			12/28/21 14:45	1
Nitrate as N	ND		0.20		mg/L			12/15/21 00:41	1
Total Dissolved Solids	**230**		50		mg/L			12/15/21 20:22	1

Client Sample ID: B1_20211213

Lab Sample ID: 580-108349-4

Date Collected: 12/13/21 10:40
Matrix: Water
Date Received: 12/14/21 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			12/27/21 17:11	1
Benzene	ND		1.0		ug/L			12/27/21 17:11	1
Toluene	ND		1.0		ug/L			12/27/21 17:11	1
Ethylbenzene	ND		1.0		ug/L			12/27/21 17:11	1
m-Xylene & p-Xylene	ND		2.0		ug/L			12/27/21 17:11	1
o-Xylene	ND		1.0		ug/L			12/27/21 17:11	1

Client Sample ID: B1_20211213
Date Collected: 12/13/21 10:40
Date Received: 12/14/21 11:00

Lab Sample ID: 580-108349-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0		ug/L			12/27/21 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*12/27/21 17:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*12/27/21 17:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/27/21 17:11*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*12/27/21 17:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			12/16/21 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*50 - 150*		*12/16/21 05:12*	*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)	**670**		110		ug/L		12/23/21 10:20	12/28/21 04:49	1
Motor Oil (>C24-C36)	ND		360		ug/L		12/23/21 10:20	12/28/21 04:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*50 - 150*	*12/23/21 10:20*	*12/28/21 04:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**2.2**		2.0		ug/L		12/27/21 16:47	12/28/21 14:05	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		12/17/21 10:35	12/17/21 22:57	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		4.0		mg/L			12/15/21 00:53	10
Sulfate	**1400**		150		mg/L			12/28/21 14:56	100
Nitrate as N	**86**		2.0		mg/L			12/15/21 00:53	10
Total Dissolved Solids	**2200**		100		mg/L			12/15/21 20:22	1

Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-108349-1

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
580-108349-1	MW-4_20211213	101	101	94	105
580-108349-2	MW-10_20211213	104	101	99	103
580-108349-3	MW-12_20211213	99	98	92	103
580-108349-4	B1_20211213	108	92	101	101
LCS 580-376792/4	Lab Control Sample	102	94	99	102
LCSD 580-376792/5	Lab Control Sample Dup	103	96	100	104
MB 580-376792/7	Method Blank	100	99	96	105

Surrogate Legend

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

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB2
Lab Sample ID	Client Sample ID	(50-150)
580-108349-1	MW-4_20211213	91
580-108349-2	MW-10_20211213	92
580-108349-3	MW-12_20211213	90
580-108349-4	B1_20211213	81
LCS 580-376009/4	Lab Control Sample	101
LCSD 580-376009/5	Lab Control Sample Dup	95
MB 580-376009/3	Method Blank	91

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)
		OTPH
Lab Sample ID	Client Sample ID	(50-150)
580-108349-1	MW-4_20211213	88
580-108349-2	MW-10_20211213	81
580-108349-3	MW-12_20211213	91
580-108349-4	B1_20211213	87
LCS 580-376710/2-A	Lab Control Sample	89
LCS 580-376710/2-B	Lab Control Sample	83
LCSD 580-376710/3-A	Lab Control Sample Dup	97
LCSD 580-376710/3-B	Lab Control Sample Dup	92
MB 580-376710/1-A	Method Blank	72
MB 580-376710/1-A	Method Blank	81
MB 580-376710/1-B	Method Blank	85

Surrogate Legend

OTPH = o-Terphenyl

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

Lab Sample ID: MB 580-376792/7
Matrix: Water
Analysis Batch: 376792

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			12/27/21 10:17	1
Benzene	ND		1.0		ug/L			12/27/21 10:17	1
Toluene	ND		1.0		ug/L			12/27/21 10:17	1
Ethylbenzene	ND		1.0		ug/L			12/27/21 10:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			12/27/21 10:17	1
o-Xylene	ND		1.0		ug/L			12/27/21 10:17	1
Xylenes, Total	ND		2.0		ug/L			12/27/21 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/27/21 10:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*12/27/21 10:17*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*12/27/21 10:17*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*12/27/21 10:17*	*1*

Lab Sample ID: LCS 580-376792/4
Matrix: Water
Analysis Batch: 376792

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methyl tert-butyl ether			10.0	10.1		ug/L		101	72 - 120		
Benzene			10.0	11.9		ug/L		119	80 - 122		
Toluene			10.0	12.0		ug/L		120	80 - 120		
Ethylbenzene			10.0	11.2		ug/L		112	80 - 120		
m-Xylene & p-Xylene			10.0	11.5		ug/L		115	80 - 120		
o-Xylene			10.0	11.6		ug/L		116	80 - 120		
Xylenes, Total			20.0	23.1		ug/L		116	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*

Lab Sample ID: LCSD 580-376792/5
Matrix: Water
Analysis Batch: 376792

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
Methyl tert-butyl ether			10.0	10.0		ug/L		100	72 - 120	0	18
Benzene			10.0	10.9		ug/L		109	80 - 122	8	14
Toluene			10.0	11.0		ug/L		110	80 - 120	9	13
Ethylbenzene			10.0	10.3		ug/L		103	80 - 120	8	14
m-Xylene & p-Xylene			10.0	10.5		ug/L		105	80 - 120	9	14
o-Xylene			10.0	10.6		ug/L		106	80 - 120	9	16
Xylenes, Total			20.0	21.1		ug/L		106	80 - 120	9	16

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

Lab Sample ID: LCSD 580-376792/5
Matrix: Water
Analysis Batch: 376792

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120

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

Lab Sample ID: MB 580-376009/3
Matrix: Water
Analysis Batch: 376009

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250		ug/L			12/16/21 00:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		50 - 150		12/16/21 00:17	1

Lab Sample ID: LCS 580-376009/4
Matrix: Water
Analysis Batch: 376009

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			1000	983		ug/L		98	79 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		50 - 150

Lab Sample ID: LCSD 580-376009/5
Matrix: Water
Analysis Batch: 376009

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	892		ug/L		89	79 - 120	10	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		50 - 150

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

Lab Sample ID: MB 580-376710/1-A
Matrix: Water
Analysis Batch: 376737

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376710

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		110		ug/L		12/23/21 10:20	12/23/21 17:40	1
Motor Oil (>C24-C36)	ND		350		ug/L		12/23/21 10:20	12/23/21 17:40	1

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

Lab Sample ID: MB 580-376710/1-A
Matrix: Water
Analysis Batch: 376737

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376710

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150	12/23/21 10:20	12/23/21 17:40	1

Lab Sample ID: MB 580-376710/1-A
Matrix: Water
Analysis Batch: 376780

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376710

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		110		ug/L		12/23/21 10:20	12/28/21 02:49	1
Motor Oil (>C24-C36)	ND		350		ug/L		12/23/21 10:20	12/28/21 02:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150	12/23/21 10:20	12/28/21 02:49	1

Lab Sample ID: MB 580-376710/1-B
Matrix: Water
Analysis Batch: 376780

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376710

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		110		ug/L		12/23/21 10:20	12/28/21 06:10	1
Motor Oil (>C24-C36)	ND		350		ug/L		12/23/21 10:20	12/28/21 06:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150	12/23/21 10:20	12/28/21 06:10	1

Lab Sample ID: LCS 580-376710/2-A
Matrix: Water
Analysis Batch: 376737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376710

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			4000	3240		ug/L		81	50 - 120		
Motor Oil (>C24-C36)			4000	3640		ug/L		91	64 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	89		50 - 150

Lab Sample ID: LCS 580-376710/2-B
Matrix: Water
Analysis Batch: 376780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376710

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			4000	3130		ug/L		78	50 - 120		
Motor Oil (>C24-C36)			4000	3430		ug/L		86	64 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	83		50 - 150

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

Lab Sample ID: LCSD 580-376710/3-A
Matrix: Water
Analysis Batch: 376737

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376710

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			4000	3630		ug/L		91	50 - 120	11	26
Motor Oil (>C24-C36)			4000	3730		ug/L		93	64 - 120	3	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*97*		*50 - 150*

Lab Sample ID: LCSD 580-376710/3-B
Matrix: Water
Analysis Batch: 376780

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376710

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			4000	3550		ug/L		89	50 - 120	13	26
Motor Oil (>C24-C36)			4000	3750		ug/L		94	64 - 120	9	24

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

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-376181/18-A
Matrix: Water
Analysis Batch: 376340

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 376181

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.40		ug/L		12/17/21 10:35	12/17/21 21:09	1

Lab Sample ID: LCS 580-376181/19-A
Matrix: Water
Analysis Batch: 376340

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 376181

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			1000	1070		ug/L		107	80 - 120		

Lab Sample ID: LCSD 580-376181/20-A
Matrix: Water
Analysis Batch: 376340

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 376181

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1000	1040		ug/L		104	80 - 120	3	20

Lab Sample ID: MB 580-376835/24-A
Matrix: Water
Analysis Batch: 376960

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 376835

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.40		ug/L		12/27/21 16:47	12/28/21 12:13	1

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

Lab Sample ID: LCS 580-376835/25-A
Matrix: Water
Analysis Batch: 376960

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 376835

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

Lab Sample ID: LCSD 580-376835/26-A
Matrix: Water
Analysis Batch: 376960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 376835

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1000	1020		ug/L		102	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-375965/3
Matrix: Water
Analysis Batch: 375965

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		mg/L			12/14/21 13:57	1
Nitrate as N	ND		0.20		mg/L			12/14/21 13:57	1

Lab Sample ID: LCS 580-375965/4
Matrix: Water
Analysis Batch: 375965

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrite as N			5.00	4.98		mg/L		100	90 - 110		
Nitrate as N			5.00	4.98		mg/L		100	90 - 110		

Lab Sample ID: LCSD 580-375965/5
Matrix: Water
Analysis Batch: 375965

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	4.99		mg/L		100	90 - 110	0	15
Nitrate as N			5.00	4.98		mg/L		100	90 - 110	0	15

Lab Sample ID: 580-108349-1 MS
Matrix: Water
Analysis Batch: 375965

Client Sample ID: MW-4_20211213
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrite as N	ND		5.00	5.25		mg/L		105	90 - 110		
Nitrate as N	0.37		5.00	5.23		mg/L		97	90 - 110		

Lab Sample ID: 580-108349-1 MSD
Matrix: Water
Analysis Batch: 375965

Client Sample ID: MW-4_20211213
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		5.00	5.26		mg/L		105	90 - 110	0	15
Nitrate as N	0.37		5.00	5.23		mg/L		97	90 - 110	0	15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 580-376961/10
Matrix: Water
Analysis Batch: 376961

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		mg/L			12/28/21 15:08	1

Lab Sample ID: LCS 580-376961/11
Matrix: Water
Analysis Batch: 376961

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	50.9		mg/L		102	90 - 110

Lab Sample ID: LCSD 580-376961/12
Matrix: Water
Analysis Batch: 376961

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	50.8		mg/L		102	90 - 110	0	15

Lab Sample ID: 580-108349-1 MS
Matrix: Water
Analysis Batch: 376961

Client Sample ID: MW-4_20211213
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	35		50.0	84.8		mg/L		100	90 - 110

Lab Sample ID: 580-108349-1 MSD
Matrix: Water
Analysis Batch: 376961

Client Sample ID: MW-4_20211213
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	35		50.0	84.7		mg/L		100	90 - 110	0	15

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

Lab Sample ID: MB 580-376020/1
Matrix: Water
Analysis Batch: 376020

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		50		mg/L			12/15/21 20:22	1

Lab Sample ID: LCS 580-376020/2
Matrix: Water
Analysis Batch: 376020

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	1000		mg/L		100	80 - 120

GC/MS VOA

Analysis Batch: 376792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108349-1	MW-4_20211213	Total/NA	Water	8260D	
580-108349-2	MW-10_20211213	Total/NA	Water	8260D	
580-108349-3	MW-12_20211213	Total/NA	Water	8260D	
580-108349-4	B1_20211213	Total/NA	Water	8260D	
MB 580-376792/7	Method Blank	Total/NA	Water	8260D	
LCS 580-376792/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-376792/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC VOA

Analysis Batch: 376009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108349-1	MW-4_20211213	Total/NA	Water	NWTPH-Gx	
580-108349-2	MW-10_20211213	Total/NA	Water	NWTPH-Gx	
580-108349-3	MW-12_20211213	Total/NA	Water	NWTPH-Gx	
580-108349-4	B1_20211213	Total/NA	Water	NWTPH-Gx	
MB 580-376009/3	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 580-376009/4	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 580-376009/5	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

GC Semi VOA

Prep Batch: 376710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108349-1	MW-4_20211213	Total/NA	Water	3510C	
580-108349-2	MW-10_20211213	Total/NA	Water	3510C	
580-108349-3	MW-12_20211213	Total/NA	Water	3510C	
580-108349-4	B1_20211213	Total/NA	Water	3510C	
MB 580-376710/1-A	Method Blank	Total/NA	Water	3510C	
MB 580-376710/1-B	Method Blank	Total/NA	Water	3510C	
LCS 580-376710/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 580-376710/2-B	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-376710/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 580-376710/3-B	Lab Control Sample Dup	Total/NA	Water	3510C	

Cleanup Batch: 376731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 580-376710/1-B	Method Blank	Total/NA	Water	3630C	376710
LCS 580-376710/2-B	Lab Control Sample	Total/NA	Water	3630C	376710
LCSD 580-376710/3-B	Lab Control Sample Dup	Total/NA	Water	3630C	376710

Analysis Batch: 376737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108349-2	MW-10_20211213	Total/NA	Water	NWTPH-Dx	376710
MB 580-376710/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	376710
LCS 580-376710/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	376710
LCSD 580-376710/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	376710

Analysis Batch: 376780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108349-1	MW-4_20211213	Total/NA	Water	NWTPH-Dx	376710
580-108349-3	MW-12_20211213	Total/NA	Water	NWTPH-Dx	376710

GC Semi VOA (Continued)

Analysis Batch: 376780 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108349-4	B1_20211213	Total/NA	Water	NWTPH-Dx	376710
MB 580-376710/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	376710
MB 580-376710/1-B	Method Blank	Total/NA	Water	NWTPH-Dx	376731
LCS 580-376710/2-B	Lab Control Sample	Total/NA	Water	NWTPH-Dx	376731
LCSD 580-376710/3-B	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	376731

Metals

Filtration Batch: 376029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108349-1	MW-4_20211213	Dissolved	Water	FILTRATION	
580-108349-2	MW-10_20211213	Dissolved	Water	FILTRATION	
580-108349-3	MW-12_20211213	Dissolved	Water	FILTRATION	
580-108349-4	B1_20211213	Dissolved	Water	FILTRATION	

Prep Batch: 376181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108349-1	MW-4_20211213	Dissolved	Water	3005A	376029
580-108349-2	MW-10_20211213	Dissolved	Water	3005A	376029
580-108349-3	MW-12_20211213	Dissolved	Water	3005A	376029
580-108349-4	B1_20211213	Dissolved	Water	3005A	376029
MB 580-376181/18-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-376181/19-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-376181/20-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 376340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108349-1	MW-4_20211213	Dissolved	Water	6020B	376181
580-108349-2	MW-10_20211213	Dissolved	Water	6020B	376181
580-108349-3	MW-12_20211213	Dissolved	Water	6020B	376181
580-108349-4	B1_20211213	Dissolved	Water	6020B	376181
MB 580-376181/18-A	Method Blank	Total Recoverable	Water	6020B	376181
LCS 580-376181/19-A	Lab Control Sample	Total Recoverable	Water	6020B	376181
LCSD 580-376181/20-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	376181

Prep Batch: 376835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108349-1	MW-4_20211213	Total Recoverable	Water	3005A	
580-108349-2	MW-10_20211213	Total Recoverable	Water	3005A	
580-108349-3	MW-12_20211213	Total Recoverable	Water	3005A	
580-108349-4	B1_20211213	Total Recoverable	Water	3005A	
MB 580-376835/24-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-376835/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-376835/26-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 376960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108349-1	MW-4_20211213	Total Recoverable	Water	6020B	376835
580-108349-2	MW-10_20211213	Total Recoverable	Water	6020B	376835
580-108349-3	MW-12_20211213	Total Recoverable	Water	6020B	376835
580-108349-4	B1_20211213	Total Recoverable	Water	6020B	376835

Metals (Continued)

Analysis Batch: 376960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 580-376835/24-A	Method Blank	Total Recoverable	Water	6020B	376835
LCS 580-376835/25-A	Lab Control Sample	Total Recoverable	Water	6020B	376835
LCSD 580-376835/26-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	376835

General Chemistry

Analysis Batch: 375965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108349-1	MW-4_20211213	Total/NA	Water	300.0	
580-108349-2	MW-10_20211213	Total/NA	Water	300.0	
580-108349-3	MW-12_20211213	Total/NA	Water	300.0	
580-108349-4	B1_20211213	Total/NA	Water	300.0	
MB 580-375965/3	Method Blank	Total/NA	Water	300.0	
LCS 580-375965/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 580-375965/5	Lab Control Sample Dup	Total/NA	Water	300.0	
580-108349-1 MS	MW-4_20211213	Total/NA	Water	300.0	
580-108349-1 MSD	MW-4_20211213	Total/NA	Water	300.0	

Analysis Batch: 376020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108349-1	MW-4_20211213	Total/NA	Water	SM 2540C	
580-108349-2	MW-10_20211213	Total/NA	Water	SM 2540C	
580-108349-3	MW-12_20211213	Total/NA	Water	SM 2540C	
580-108349-4	B1_20211213	Total/NA	Water	SM 2540C	
MB 580-376020/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 580-376020/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 376961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108349-1	MW-4_20211213	Total/NA	Water	300.0	
580-108349-2	MW-10_20211213	Total/NA	Water	300.0	
580-108349-3	MW-12_20211213	Total/NA	Water	300.0	
580-108349-4	B1_20211213	Total/NA	Water	300.0	
MB 580-376961/10	Method Blank	Total/NA	Water	300.0	
LCS 580-376961/11	Lab Control Sample	Total/NA	Water	300.0	
LCSD 580-376961/12	Lab Control Sample Dup	Total/NA	Water	300.0	
580-108349-1 MS	MW-4_20211213	Total/NA	Water	300.0	
580-108349-1 MSD	MW-4_20211213	Total/NA	Water	300.0	

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-108349-1

Client Sample ID: MW-4_20211213

Lab Sample ID: 580-108349-1

Date Collected: 12/13/21 12:35

Matrix: Water

Date Received: 12/14/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	376792	12/27/21 14:21	JSM	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	376009	12/16/21 02:45	CJ	FGS SEA
Total/NA	Prep	3510C			376710	12/23/21 10:20	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	376780	12/28/21 04:09	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			376029	12/16/21 09:37	ABP	FGS SEA
Dissolved	Prep	3005A			376181	12/17/21 10:35	ABP	FGS SEA
Dissolved	Analysis	6020B		1	376340	12/17/21 21:13	FCW	FGS SEA
Total Recoverable	Prep	3005A			376835	12/27/21 16:47	JLS	FGS SEA
Total Recoverable	Analysis	6020B		5	376960	12/28/21 13:15	FCW	FGS SEA
Total/NA	Analysis	300.0		1	375965	12/14/21 23:54	E1S	FGS SEA
Total/NA	Analysis	300.0		1	376961	12/28/21 13:58	E1S	FGS SEA
Total/NA	Analysis	SM 2540C		1	376020	12/15/21 20:22	FCG	FGS SEA

Client Sample ID: MW-10_20211213

Lab Sample ID: 580-108349-2

Date Collected: 12/13/21 11:30

Matrix: Water

Date Received: 12/14/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	376792	12/27/21 14:45	JSM	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	376009	12/16/21 03:09	CJ	FGS SEA
Total/NA	Prep	3510C			376710	12/23/21 10:20	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	376737	12/23/21 23:13	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			376029	12/16/21 09:37	ABP	FGS SEA
Dissolved	Prep	3005A			376181	12/17/21 10:35	ABP	FGS SEA
Dissolved	Analysis	6020B		5	376340	12/17/21 22:49	FCW	FGS SEA
Total Recoverable	Prep	3005A			376835	12/27/21 16:47	JLS	FGS SEA
Total Recoverable	Analysis	6020B		5	376960	12/28/21 13:19	FCW	FGS SEA
Total/NA	Analysis	300.0		1	375965	12/15/21 00:29	E1S	FGS SEA
Total/NA	Analysis	300.0		1	376961	12/28/21 14:33	E1S	FGS SEA
Total/NA	Analysis	SM 2540C		1	376020	12/15/21 20:22	FCG	FGS SEA

Client Sample ID: MW-12_20211213

Lab Sample ID: 580-108349-3

Date Collected: 12/13/21 09:35

Matrix: Water

Date Received: 12/14/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	376792	12/27/21 16:47	JSM	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	376009	12/16/21 04:47	CJ	FGS SEA
Total/NA	Prep	3510C			376710	12/23/21 10:20	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	376780	12/28/21 04:29	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			376029	12/16/21 09:37	ABP	FGS SEA
Dissolved	Prep	3005A			376181	12/17/21 10:35	ABP	FGS SEA
Dissolved	Analysis	6020B		5	376340	12/17/21 22:53	FCW	FGS SEA

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-108349-1

Client Sample ID: MW-12_20211213

Lab Sample ID: 580-108349-3

Date Collected: 12/13/21 09:35

Matrix: Water

Date Received: 12/14/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			376835	12/27/21 16:47	JLS	FGS SEA
Total Recoverable	Analysis	6020B		5	376960	12/28/21 13:22	FCW	FGS SEA
Total/NA	Analysis	300.0		1	375965	12/15/21 00:41	E1S	FGS SEA
Total/NA	Analysis	300.0		1	376961	12/28/21 14:45	E1S	FGS SEA
Total/NA	Analysis	SM 2540C		1	376020	12/15/21 20:22	FCG	FGS SEA

Client Sample ID: B1_20211213

Lab Sample ID: 580-108349-4

Date Collected: 12/13/21 10:40

Matrix: Water

Date Received: 12/14/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	376792	12/27/21 17:11	JSM	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	376009	12/16/21 05:12	CJ	FGS SEA
Total/NA	Prep	3510C			376710	12/23/21 10:20	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	376780	12/28/21 04:49	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			376029	12/16/21 09:37	ABP	FGS SEA
Dissolved	Prep	3005A			376181	12/17/21 10:35	ABP	FGS SEA
Dissolved	Analysis	6020B		5	376340	12/17/21 22:57	FCW	FGS SEA
Total Recoverable	Prep	3005A			376835	12/27/21 16:47	JLS	FGS SEA
Total Recoverable	Analysis	6020B		5	376960	12/28/21 14:05	FCW	FGS SEA
Total/NA	Analysis	300.0		10	375965	12/15/21 00:53	E1S	FGS SEA
Total/NA	Analysis	300.0		100	376961	12/28/21 14:56	E1S	FGS SEA
Total/NA	Analysis	SM 2540C		1	376020	12/15/21 20:22	FCG	FGS SEA

Laboratory References:

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

Accreditation/Certification Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-108349-1

Laboratory: Eurofins FGS, Seattle

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

Method Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-108349-1

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

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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:

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

Sample Summary

Client: Antea USA Inc.
Project/Site: BP -ARCO 980

Job ID: 580-108349-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-108349-1	MW-4_20211213	Water	12/13/21 12:35	12/14/21 11:00
580-108349-2	MW-10_20211213	Water	12/13/21 11:30	12/14/21 11:00
580-108349-3	MW-12_20211213	Water	12/13/21 09:35	12/14/21 11:00
580-108349-4	B1_20211213	Water	12/13/21 10:40	12/14/21 11:00

bp rm

Laboratory Management Program (LaMP) Chain of Custody Record

Soil, Sediment and Groundwater Samples

Page 1 of 3

BP Site Node Path: ARCO 980

BP/RM Facility No: ARCO Facility No. 00980

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

Rush TAT Yes ___ No X

Lab Work Order Number:

Lab Name:	Test America	BP/ARC Facility Address:	10822 Roosevelt Way NE	Consultant/Contractor:	Antea Group
Lab Address:	5755 8th Street East, Tacoma, WA 98424	City, State, ZIP Code:	Seattle, WA	Consultant/Contractor Project No:	00980SA211.20100
Lab PM:	00980SA201.20100.MR	Lead Regulatory Agency:	Washington State Department of Ecology	Address:	2006 148th Ave NE, Redmond, WA 98052
Lab Phone:	253.248.4972	California Global ID No.:	NA	Consultant/Contractor PM:	Megan Richard
Lab Shipping Accnt:	NA	Enfos Proposal No:	009VH-0016 WR850198	Phone:	425 498 7711 Email: Megan.Richard@anteagroup.us
Lab Bottle Order No:	NA	Accounting Mode:	Provision X OOC-BU ___ OOC-RM ___	Send/Submit EDD to:	Megan.Richard@anteagroup.us
Other Info:	elaine.walker@Eurofinset.com	Stage	2_Select (20) Activity Additional Data Collection (100)	Invoice To:	BP-RM ___ BP/ARC X
BP/RM PM:	Wade Melton				
PM Phone:	360-594-7978				
PM Email:	wade.melton@bp.com				

Sample Details / Requested Analyses / Report Type & QC Level

Report Type & QC Level: Limited (Standard) Package — ; Limited Plus Package; 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	BTEX by EPA 8260	MTBE by EPA 8260	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 6020	Pb-D by EPA 6020	Nitrate by 308_48HR	Nitrite by 308_48HR	Sulfate by 300.0_28D	Total Dissolved Solids by 2540C				Comments
	MW-4_20211213	12/13/21	1235	W				G	12		X	X	X	X	X	X	X	X	X	X				
	MW-10	↓	1130	W				G	↓		X	X	X	X	X	X	X	X	X	X				
	MW-12	↓	0935	W				G	↓		X	X	X	X	X	X	X	X	X	X				
	B1 ↓	↓	1040	W				G	↓		X	X	X	X	X	X	X	X	X	X				
				~~W~~				~~G~~			~~X~~	~~X~~	X	X	X	X								
				~~W~~	MH			~~G~~	MH		X	X	~~X~~	~~X~~	X	X	MH							
				~~W~~				~~G~~			X	X	X	X	~~X~~	~~X~~								

Sampler's Name: Nathan Han / Drew Jasper	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Antea Group	Drew Jasper / ANTEA Group	12/14/21	~~12:00~~ 1100 TB 12.14.21	Tom Blank	12 14 21	1100
Ship Method: Ship Date:						
Shipment Tracking No:						

Special Instructions: Cl;dro Lg Red / wet / bub IR8 4.1/4.4 w/o

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

Login Container Summary Report

580-108349

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservative Added (mls)	Lot #
MW-4_20211213	580-108349-G-1	Amber Glass 250mL - hydrochloric acid	<2			
MW-4_20211213	580-108349-H-1	Amber Glass 250mL - hydrochloric acid	<2			
MW-4_20211213	580-108349-I-1	Plastic 250ml - with Nitric Acid	<2			
MW-10_20211213	580-108349-G-2	Amber Glass 250mL - hydrochloric acid	<2			
MW-10_20211213	580-108349-H-2	Amber Glass 250mL - hydrochloric acid	<2			
MW-10_20211213	580-108349-I-2	Plastic 250ml - with Nitric Acid	<2			
MW-12_20211213	580-108349-G-3	Amber Glass 250mL - hydrochloric acid	<2			
MW-12_20211213	580-108349-H-3	Amber Glass 250mL - hydrochloric acid	<2			
MW-12_20211213	580-108349-I-3	Plastic 250ml - with Nitric Acid	<2			
B1 (JPHC)_20211213	580-108349-G-4	Amber Glass 250mL - hydrochloric acid	<2			
B1 (JPHC)_20211213	580-108349-H-4	Amber Glass 250mL - hydrochloric acid	<2			
B1 (JPHC)_20211213	580-108349-I-4	Plastic 250ml - with Nitric Acid	<2			

Login Sample Receipt Checklist

Client: Antea USA Inc.

Job Number: 580-108349-1

Login Number: 108349
List Number: 1
Creator: Vallelunga, Diana L

List Source: Eurofins FGS, Seattle

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

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108349-1

SDG No.:

Batch Number: 376792 Batch Start Date: 12/27/21 09:29 Batch Analyst: McKell, Justin S

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00003	VOAMasterMix 00070	VOASTDGASweek 00078
LCS 580-376792/4		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
LCSD 580-376792/5		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
MB 580-376792/7		8260D		5 mL	5 mL		1 uL		
580-108349-F-1	MW-4_20211213	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-108349-F-2	MW-10_20211213	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-108349-F-3	MW-12_20211213	8260D	T	5 mL	5 mL		1 uL		
580-108349-F-4	B1 (JPHC)_20211213	8260D	T	5 mL	5 mL		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.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108349-1

SDG No.:

Batch Number: 376009 Batch Start Date: 12/15/21 23:28 Batch Analyst: Jantanu, Charinporn

Batch Method: NWTPH-Gx Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	BFBGRO ARCHON 00048	GRO_LCS 00070	
MB 580-376009/3		NWTPH-Gx		5 mL	5 mL		1 uL		
LCS 580-376009/4		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
LCSD 580-376009/5		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
580-108349-E-1	MW-4_20211213	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-108349-E-2	MW-10_20211213	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-108349-E-3	MW-12_20211213	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-108349-E-4	B1 (JPHC)_20211213	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		

Batch Notes	
pH Indicator ID	6908005
Vial Lot Number	0204201G

Basis	Basis Description
T	Total/NA

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

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108349-1

SDG No.:

Batch Number: 376710 Batch Start Date: 12/23/21 10:19 Batch Analyst: Enrico, Michael 1

Batch Method: 3510C Batch End Date: 12/23/21 15:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	TPH_Water_Spk 00031
MB 580-376710/1		3510C, 3630C, NWTPH-Dx		250 mL	2 mL	7 SU	2 SU	n/a SU	
LCS 580-376710/2		3510C, 3630C, NWTPH-Dx		250 mL	2 mL	7 SU	2 SU	n/a SU	100 uL
LCSD 580-376710/3		3510C, 3630C, NWTPH-Dx		250 mL	2 mL	7 SU	2 SU	n/a SU	100 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	TPH_WaterSurr 00077					
MB 580-376710/1		3510C, 3630C, NWTPH-Dx		100 uL					
LCS 580-376710/2		3510C, 3630C, NWTPH-Dx		100 uL					
LCSD 580-376710/3		3510C, 3630C, NWTPH-Dx		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.

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108349-1

SDG No.:

Batch Number: 376710 Batch Start Date: 12/23/21 10:19 Batch Analyst: Enrico, Michael 1

Batch Method: 3510C Batch End Date: 12/23/21 15:35

Batch Notes	
Method/Fraction	3510C_LVI / NWTPH
Balance ID	SEA225
pH Indicator ID	6908005 / 6911002
Pipette/Syringe/Dispenser ID	MP4
Analyst ID - Extraction	MAE/JCM
Reagent Water ID	DI
Analyst ID - Spike Analyst	MAE
Analyst ID - Spike Witness Analyst	JCM
Sufficient Volume for Batch QC	no
Acid Used for pH Adjustment ID	2930180
Prep Solvent ID	3030922
Prep Solvent Volume Used	100 mL
Filter ID	3022575
Na2SO4 ID	3019520
Analyst ID - Concentration	JCM
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	70.3-75.3 Degrees C
Equipment ID - Concentration 2	Turbovap
Thermometer ID - Concentration 2	DIGITALREADOUT
Vial Lot Number	24160364
Batch Comment	Vialed by: JCM

Basis	Basis Description
T	Total/NA

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

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108349-1

SDG No.:

Batch Number: 376710 Batch Start Date: 12/23/21 10:19 Batch Analyst: Enrico, Michael 1

Batch Method: 3510C Batch End Date: 12/23/21 15:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-376710/1		3510C, NWTPH-Dx				250 mL	2 mL	7 SU	2 SU
LCS 580-376710/2		3510C, NWTPH-Dx				250 mL	2 mL	7 SU	2 SU
LCSD 580-376710/3		3510C, NWTPH-Dx				250 mL	2 mL	7 SU	2 SU
580-108349-H-1	MW-4_20211213	3510C, NWTPH-Dx	T	00413.41 g	00165.72 g	247.7 mL	2 mL	2 SU	2 SU
580-108349-H-2	MW-10_20211213	3510C, NWTPH-Dx	T	00414.36 g	00168.28 g	246.1 mL	2 mL	2 SU	2 SU
580-108349-H-3	MW-12_20211213	3510C, NWTPH-Dx	T	00415.60 g	00168.33 g	247.3 mL	2 mL	2 SU	2 SU
580-108349-G-4	B1_20211213	3510C, NWTPH-Dx	T	00411.15 g	00167.41 g	243.7 mL	2 mL	2 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	TPH_Water_Spk 00031	TPH_WaterSurr 00077			
MB 580-376710/1		3510C, NWTPH-Dx		n/a SU		100 uL			
LCS 580-376710/2		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
LCSD 580-376710/3		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
580-108349-H-1	MW-4_20211213	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-108349-H-2	MW-10_20211213	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-108349-H-3	MW-12_20211213	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-108349-G-4	B1_20211213	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.

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108349-1

SDG No.:

Batch Number: 376710 Batch Start Date: 12/23/21 10:19 Batch Analyst: Enrico, Michael 1

Batch Method: 3510C Batch End Date: 12/23/21 15:35

Batch Notes	
Method/Fraction	3510C_LVI / NWTPH
Balance ID	SEA225
pH Indicator ID	6908005 / 6911002
Pipette/Syringe/Dispenser ID	MP4
Analyst ID - Extraction	MAE/JCM
Reagent Water ID	DI
Analyst ID - Spike Analyst	MAE
Analyst ID - Spike Witness Analyst	JCM
Sufficient Volume for Batch QC	no
Acid Used for pH Adjustment ID	2930180
Prep Solvent ID	3030922
Prep Solvent Volume Used	100 mL
Filter ID	3022575
Na2SO4 ID	3019520
Analyst ID - Concentration	JCM
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	70.3-75.3 Degrees C
Equipment ID - Concentration 2	Turbovap
Thermometer ID - Concentration 2	DIGITALREADOUT
Vial Lot Number	24160364
Batch Comment	Vialed by: JCM

Basis	Basis Description
T	Total/NA

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

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108349-1

SDG No.:

Batch Number: 376731 Batch Start Date: 12/23/21 16:01 Batch Analyst: Ezell, Jordan A

Batch Method: 3630C Batch End Date: 12/26/21 13:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
MB 580-376710/1-A		3630C, NWTPH-Dx		1 mL	1 mL				
LCS 580-376710/2-A		3630C, NWTPH-Dx		1 mL	1 mL				
LCSD 580-376710/3-A		3630C, NWTPH-Dx		1 mL	1 mL				

Batch Notes	
Analyst ID - Spike Analyst	MAE
Analyst ID - Concentration	JCM
Na2SO4 ID	3019520
Batch Comment	Vialed by: JAE

Basis	Basis Description

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

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108349-1

SDG No.:

Batch Number: 376029 Batch Start Date: 12/16/21 09:37 Batch Analyst: Pineda, Abigail B

Batch Method: FILTRATION Batch End Date: 12/16/21 10:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
580-108349-J-1	MW-4_20211213	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-108349-J-2	MW-10_20211213	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-108349-J-3	MW-12_20211213	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-108349-J-4	B1_20211213	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				

Batch Notes	
Filter ID	1330812
Nitric Acid ID	3007338

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108349-1

SDG No.:

Batch Number: 376181 Batch Start Date: 12/17/21 11:05 Batch Analyst: Pineda, Abigail B

Batch Method: 3005A Batch End Date: 12/17/21 15:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00017	ICP CAL 2 00015	MET Spike 3C 00034	
580-108349-J-1-A	MW-4_20211213	3005A, 6020B	D	50 mL	50 mL				
580-108349-J-2-A	MW-10_20211213	3005A, 6020B	D	50 mL	50 mL				
580-108349-J-3-A	MW-12_20211213	3005A, 6020B	D	50 mL	50 mL				
580-108349-J-4-A	B1_20211213	3005A, 6020B	D	50 mL	50 mL				
MB 580-376181/18		3005A, 6020B		50 mL	50 mL				
LCS 580-376181/19		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-376181/20		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	

Batch Notes	
Hot Block ID	BLOCK E
Thermometer ID	700396
Thermometer Location ID	E47
Uncorrected Temperature	91.0 Celsius
Oven, Bath or Block Temperature 1	91.7 Degrees C
Uncorrected Temperature 2	91.0 Celsius
Oven, Bath or Block Temperature 2	91.7 Degrees C
Lot # of hydrochloric acid	2981741
Lot # of Nitric Acid	3033186
Pipette ID	Metals Prep 2
Digestion Tube/Cup ID	2953187
First Start time	see above
First End time	see above
Analyst ID - Spike Witness Analyst	AP

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108349-1

SDG No.:

Batch Number: 376835 Batch Start Date: 12/27/21 16:47 Batch Analyst: Sloan, Joshua L

Batch Method: 3005A Batch End Date: 12/28/21 09:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00017	ICP CAL 2 00015	MET Spike 3C 00034	
580-108349-I-1	MW-4_20211213	3005A, 6020B	R	50 mL	50 mL				
580-108349-I-2	MW-10_20211213	3005A, 6020B	R	50 mL	50 mL				
580-108349-I-3	MW-12_20211213	3005A, 6020B	R	50 mL	50 mL				
580-108349-I-4	B1_20211213	3005A, 6020B	R	50 mL	50 mL				
MB 580-376835/24		3005A, 6020B		50 mL	50 mL				
LCS 580-376835/25		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-376835/26		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	

Batch Notes	
pH Indicator ID	pH strip
Digestion Tube/Cup ID	2911756
Pipette/Syringe/Dispenser ID	metals prep2
Analyst ID - Spike Analyst	TH
Sufficient Volume for Batch QC	yes
Hydrochloric Acid ID	2981748
Nitric Acid ID	3040693
Digestion Unit ID	BLOCK A
Thermometer ID	1108438
Thermometer Location ID	A30
Temperature - Uncorrected - Start	91.0 Degrees C
Temperature - Corrected - Start	90.6 Degrees C
Digestion Start Time	12/27/2021 17:53
Digestion End Time	12/27/2021 21:53
Temperature - Uncorrected - End	91.0 Degrees C
Temperature - Corrected - End	90.6 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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108349-1

SDG No.:

Batch Number: 375965 Batch Start Date: 12/14/21 13:34 Batch Analyst: Saiz, Erin 1

Batch Method: 300.0 Batch End Date: 12/16/21 19:51

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC-Custom-EE 00027			
MB 580-375965/3		300.0		5 mL	5 mL				
LCS 580-375965/4		300.0		5 mL	5 mL	0.25 mL			
LCSD 580-375965/5		300.0		5 mL	5 mL	0.25 mL			
580-108349-J-1	MW-4_20211213	300.0	T	5 mL	5 mL				
580-108349-J-1 MS	MW-4_20211213	300.0	T	5 mL	5 mL	0.25 mL			
580-108349-J-1 MSD	MW-4_20211213	300.0	T	5 mL	5 mL	0.25 mL			
580-108349-J-2	MW-10_20211213	300.0	T	5 mL	5 mL				
580-108349-J-3	MW-12_20211213	300.0	T	5 mL	5 mL				
580-108349-J-4 ^10	B1_20211213	300.0	T	5 mL	5 mL				

Batch Notes	
Filter ID	17398711
Pipette/Syringe/Dispenser ID	WC5A, WC10D
Eluent 1 ID	210812

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108349-1

SDG No.:

Batch Number: 376961 Batch Start Date: 12/28/21 13:23 Batch Analyst: Saiz, Erin 1

Batch Method: 300.0 Batch End Date: 12/29/21 08:09

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC-Custom-EE 00027			
580-108349-K-1	MW-4_20211213	300.0	T	5 mL	5 mL				
580-108349-K-1 MS	MW-4_20211213	300.0	T	5 mL	5 mL	0.25 mL			
580-108349-K-1 MSD	MW-4_20211213	300.0	T	5 mL	5 mL	0.25 mL			
580-108349-K-2	MW-10_20211213	300.0	T	5 mL	5 mL				
580-108349-K-3	MW-12_20211213	300.0	T	5 mL	5 mL				
580-108349-K-4 ^100	B1_20211213	300.0	T	5 mL	5 mL				
MB 580-376961/10		300.0		5 mL	5 mL				
LCS 580-376961/11		300.0		5 mL	5 mL	0.25 mL			
LCSD 580-376961/12		300.0		5 mL	5 mL	0.25 mL			

Batch Notes	
Filter ID	17398711
Pipette/Syringe/Dispenser ID	WC2D, WC0.1D, WC10D
Eluent 1 ID	210812

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108349-1

SDG No.:

Batch Number: 376020 Batch Start Date: 12/15/21 20:22 Batch Analyst: Guerra, Fernando C

Batch Method: SM 2540C Batch End Date: 12/20/21 21:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	CrucibleID	InitialAmount	TareWeight	Weight1	Weight2
MB 580-376020/1		SM 2540C			a0865522	100 mL	3.8627 g	3.8661 g	3.8663 g
LCS 580-376020/2		SM 2540C			a0865583	50 mL	3.8766 g	3.9265 g	3.9267 g
580-108349-L-1	MW-4_20211213	SM 2540C	T	1153 umhos/cm	a0864958	100 mL	3.9413 g	4.0059 g	4.0056 g
580-108349-L-2	MW-10_20211213	SM 2540C	T	365 umhos/cm	a0864959	100 mL	3.8641 g	3.8893 g	3.8895 g
580-108349-L-3	MW-12_20211213	SM 2540C	T	515 umhos/cm	a0865576	100 mL	3.9287 g	3.9511 g	3.9515 g
580-108349-L-4	B1_20211213	SM 2540C	T	3470 umhos/cm	a0865437	50 mL	3.8647 g	3.9748 g	3.9750 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightOne%Diff	WeightTwo%Diff	Weight4OK	Residue	Residue2	Residue3
MB 580-376020/1		SM 2540C		Pass	N/A	N/A	0.0034 g	0.0036 g	N/A g
LCS 580-376020/2		SM 2540C		Pass	N/A	N/A	0.0499 g	0.0501 g	N/A g
580-108349-L-1	MW-4_20211213	SM 2540C	T	Pass	N/A	N/A	0.0646 g	0.0643 g	N/A g
580-108349-L-2	MW-10_20211213	SM 2540C	T	Pass	N/A	N/A	0.0252 g	0.0254 g	N/A g
580-108349-L-3	MW-12_20211213	SM 2540C	T	Pass	N/A	N/A	0.0224 g	0.0228 g	N/A g
580-108349-L-4	B1_20211213	SM 2540C	T	Pass	N/A	N/A	0.1101 g	0.1103 g	N/A g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue4	FinalAmount	CalcMsg	TDS Std. 00077		
MB 580-376020/1		SM 2540C		N/A g	500 mL	OK			
LCS 580-376020/2		SM 2540C		N/A g	500 mL	OK	50 mL		
580-108349-L-1	MW-4_20211213	SM 2540C	T	N/A g	500 mL	OK			
580-108349-L-2	MW-10_20211213	SM 2540C	T	N/A g	500 mL	OK			
580-108349-L-3	MW-12_20211213	SM 2540C	T	N/A g	500 mL	OK			
580-108349-L-4	B1_20211213	SM 2540C	T	N/A g	500 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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108349-1

SDG No.:

Batch Number: 376020 Batch Start Date: 12/15/21 20:22 Batch Analyst: Guerra, Fernando C

Batch Method: SM 2540C Batch End Date: 12/20/21 21:00

Batch Notes	
Nominal Amount Used	500 mL
Conductivity Meter ID	TAC124
Filter ID	2047O1
Balance ID	SEA236
Vessel Lot ID	202132001-1244-KW
Oven ID - Low Temperature	TDS-TSS2
Thermometer ID - Low Temperature	Digital Readout
Date/Time - In	12/15/2021 22:37
Temperature - Start - Uncorrected	174 Celsius
Temperature - Start - Corrected	169.6 Celsius
Date/Time - Out	12/17/2021 09:30
Temperature - End - Uncorrected	174 Celsius
Temperature - End - Corrected	169.6 Celsius
Oven ID	TDS2
Thermometer ID	Digital Readout
Weight(WT1) Start Date/Time	12/17/2021 09:30
Uncorrected Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Start Temp	174.8 Celsius
Weight(WT1) Date/Time Out	12/20/2021 12:30
Uncorrected Weight(WT1) Temp Out	180 Celsius
Weight(WT1) Temp Out	174.8 Celsius
Date/Time - In - CW (WT2)	12/20/2021 15:30
Temperature - Start-CW(WT2) -Uncorrected	180 Celsius
Temperature - Start - CW (WT2) - Correct	174.8 Celsius
Date/Time - Out - CW (WT2)	12/20/2021 17:00
Temperature - End-CW(WT2) -Uncorrected	102 Celsius
Temperature - End - CW (WT2) - Correct	104 Celsius
Date/Time - In - CW (WT3)	11/27/2021 22:11
Temperature - Start-CW(WT3) -Uncorrected	102 Celsius
Temperature - Start - CW (WT3) - Correct	104 Celsius

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108349-1

SDG No.:

Batch Number: 376020 Batch Start Date: 12/15/21 20:22 Batch Analyst: Guerra, Fernando C

Batch Method: SM 2540C Batch End Date: 12/20/21 21:00

Date/Time - Out - CW (WT3)	11/30/2021 11:30
Temperature - End-CW(WT3) -Uncorrected	102 Celsius
Temperature - End - CW (WT3) - Correct	104 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.

Appendix B - PetroFix™ Injection logs

WEEKLY PROJECT SUMMARY

PROJECT NAME/NUMBER: Antea PetroFix

Day	Date	On-site Time	Off-site Time	Wells Completed	% Solution			% Solution Injected (Gallons)	Flush Water Injected (Gallons)	Total Injected (Gallons)
					Electron Acceptor (Pounds)	PetroFix (Gallons)	Water (Gallons)			
Monday	11/8/2021	3:00 PM	5:30 PM	-	-	-	-	-	-	-
Tuesday	11/9/2021	7:00 AM	5:30 PM	2.0	25.0	51.3	536.3	587.5	50.0	637.5
Wednesday	11/10/2021	7:00 AM	5:00 PM	2.0	57.3	117.6	657.4	775.0	25.0	800.0
Thursday	11/11/2021	7:00 AM	2:30 PM	2.0	37.7	77.1	485.4	562.5	25.0	587.5
Friday	11/12/2021	-	-	-	-	-	-	-	-	-
Totals				6	120.0	246.0	1,679.1	1,925.0	100.0	2,025.0
Design				0	0	0	0	0		0
Balance				-6.0	-120.0	-246.0	-1,679	0	-100	-2025
Project Average				2.0	40.0	82.0	559.7	641.7	33.3	675.0

Notes:
PSI - pounds per square inch

CASCADE
DRILLING | TECHNICAL SERVICES

INJECTION FIELD LOG

PROJECT NUMBER/NAME: Antea

LEAD OPERATOR: Christean Flaherty

SCOPE OF WORK: Cascade Technical Services will mob to site, setup equipment and perform a site walk/ tailgate meeting. A custom injection platform equipped with mixing tanks and manifolds will be utilized. Cascade will record pressures, flows, and volumes. Surfacing will be managed using stainless portable shop vacs. Surfaced material will be captured and recirculated and/or stored in 55 gallon poly drums.

INJECTION APPROACH: 0

Well ID	Start Date	Start Time	End Date	End Time	Injection Interval			Initial Pressure (PSI)	Sustained Pressure (PSI)	Average Flow Rate (GPM)	% Solution			% Solution Injected (Gallons)	Flush Water Injected (Gal)	Total Injected (Gal)	Day Lighting	Field Notes
											Electron Acceptor (Pounds)	PlumeStop (Gallons)	Water (Gallons)					
IW-1	11/9/2021	1:03 PM	11/9/2021	2:12 PM	13.0	to	20.0	15	45	2.3	6.8	14.0	146.0	160.0	0.0	160.0	X	Surfacing around well put remaining volume into IW-2 As per client
	11/10/2021	1:30 PM	11/10/2021	1:43 PM	13.0	to	20.0	35	50	1.9	1.0	2.3	22.8	25.0	0.0	25.0	X	Surfacing around well
										TOTALS	**7.8**	**16**	**168.7**	**185.0**	**0.0**	**185**		
IW-2	11/9/2021	2:32 PM	11/9/2021	2:51 PM	13.0	to	20.0	5	0	2.0	1.6	3.4	34.2	37.5	0.0	37.5	X	Surfacing around well put remaining volume into MW-15 As per client
	11/10/2021	1:54 PM	11/10/2021	2:11 PM	13.0	to	20.0	0	0	1.9	1.3	2.6	27.4	30.0	0.0	30.0	X	Surfacing around well
										TOTALS	**2.9**	**6**	**61.6**	**67.5**	**0.0**	**68**		
IW-3	11/9/2021	10:50 AM	11/9/2021	12:14 PM	13.0	to	20.0	10	19	3.0	10.0	20.5	214.5	235.0	25.0	260.0		
										TOTALS	**10.0**	**21**	**214.5**	**235.0**	**25.0**	**260**		
IW-4	11/10/2021	2:20 PM	11/10/2021	4:23 PM	13.0	to	20.0	0	14	1.9	10.0	20.5	214.5	235.0	0.0	235.0		
	11/11/2021	8:32 AM	11/11/2021	9:16 AM	13.0	to	20.0	16	45	3.2	9.4	19.3	121.4	140.6	0.0	140.6		
										TOTALS	**19.4**	**40**	**335.9**	**375.6**	**0.0**	**376**		
MW-13	11/10/2021	9:38 AM	11/10/2021	1:15 PM	7.0	to	19.0	0	0	2.0	40.0	82.0	328.0	410.0	25.0	435.0		
	11/11/2021	9:37 AM	11/11/2021	12:10 PM	7.0	to	19.0	0	0	2.9	28.3	57.8	364.1	421.9	25.0	446.9	X	@1037 slowed flow minor surfacing around IW-1 and MW-13
										TOTALS	**68.3**	**140**	**692.1**	**831.9**	**50.0**	**882**		
MW-15	11/9/2021	3:13 PM	11/9/2021	4:13 PM	6.0	to	23.0	0	0	3.0	6.6	13.8	141.4	155.0	25.0	180.0		Inject remaining product from IW-2
	11/10/2021	9:03 AM	11/10/2021	9:28 AM	6.0	to	23.0	0	0	3.0	5.0	10.3	64.8	75.0	0.0	75.0	X	Surfacing around well
										TOTALS	**11.6**	**24**	**206.2**	**230.0**	**25.0**	**255**		

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