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

December 8, 2022

Washington Department of Ecology
Northwest Regional Office
Attn: Ms. Sonia Fernandez
15700 Dayton Avenue North
Shoreline, WA 98133

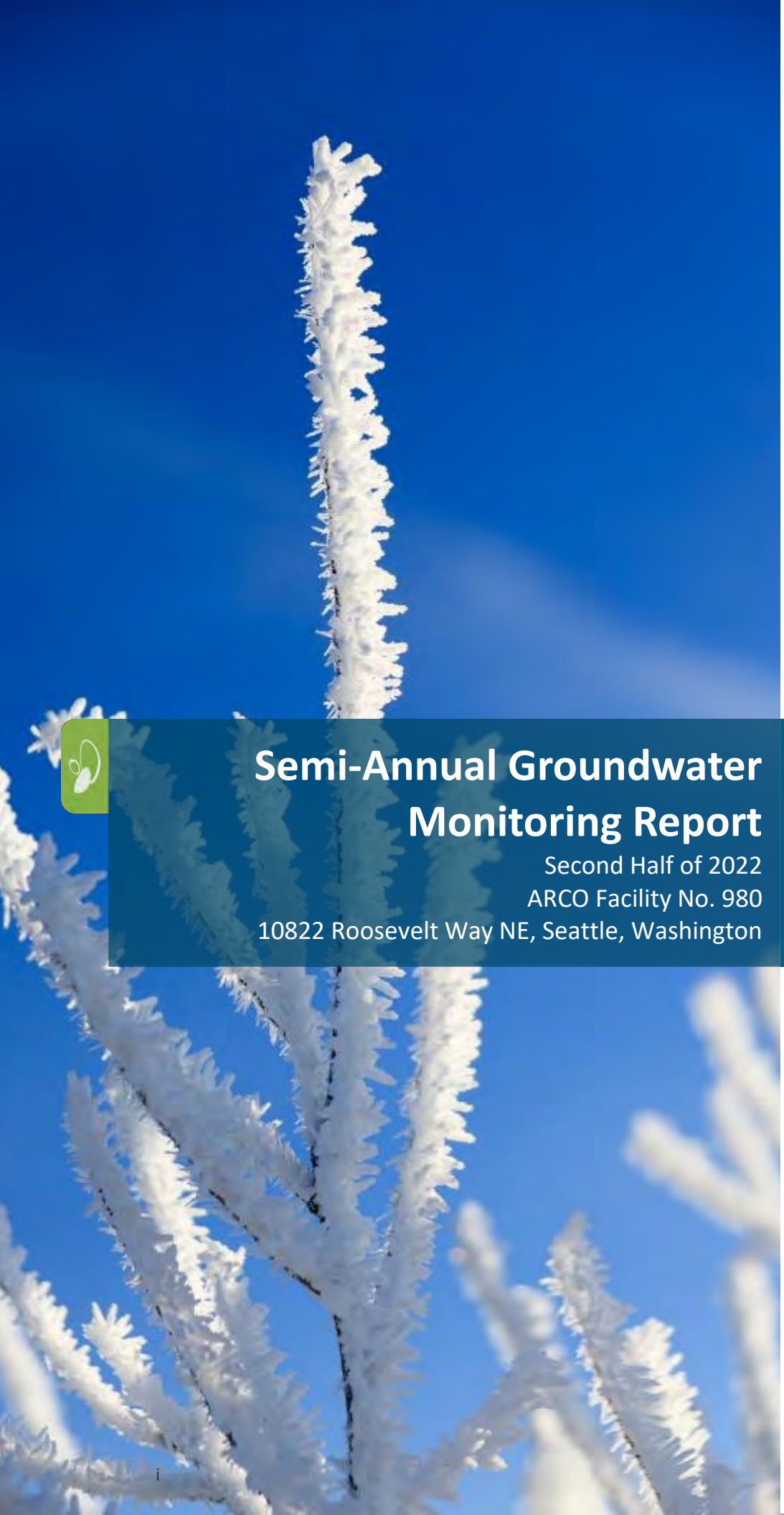
Dear Ms. Fernandez:

Please find the enclosed Semi-Annual Groundwater Monitoring Report - Second Half of 2022, 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 2022
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 - Portland OR
December 12, 2022
Project # WA - 00980 Seattle

us.anteagroup.com

Contents

Semi-Annual Groundwater Monitoring Report

Second Half of 2022
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 / Brad Jackson, +1 971 777 0241
Consultant Project Number	WA – 00980 Seattle
Ecology Facility Site ID No.	Washington State Department of Ecology FSID # 68996432

WORK PERFORMED DURING SECOND HALF OF 2022

- Antea Group installed a Passive Diffuser Bag (PDB) in MW-15 on August 17, 2022.
- Antea Group conducted third quarter groundwater sampling on September 7, 2022.
- Antea Group replaced PDBs in MW-13 and MW-15 on September 9, 2022, to obtain more representative groundwater samples.
- Antea Group performed a subsurface investigation on November 3 and 4, 2022. Antea Group installed two offsite monitoring wells, MW-23 and MW-24; one offsite soil vapor well, SG-7; two onsite soil vapor wells, SG-5 and SG-6; and three onsite delineation soil borings B-6, B-7, and B-8. Results of the subsurface investigation will be detailed in a separate report.
- Antea Group prepared this semi-annual groundwater monitoring report.

WORK SCHEDULED FOR FIRST HALF OF 2023

- Antea Group will conduct semi-annual groundwater monitoring activities.
- Antea Group will prepare a semi-annual groundwater monitoring report.
- Antea Group will perform seasonal soil vapor sampling activities in the first and third quarters of 2023.

Current Phase of Project	Monitoring
Frequency of Groundwater Sampling and Monitoring	Semi-annual
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. Injection performed on November 9 and 10, 2021.	
Approximate Depth to Groundwater	September 7, 2022	2.22 – 18.35 ft. bgs.
Groundwater Gradient	September 7, 2022	Southeast 0.12 ft/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

Date: December 12, 2022

Jesse Schewe
Staff Professional

Reviewed by:

Date: December 12, 2022

Brad Jackson
Project Manager

Reviewed by:

Date: December 12, 2022

Megan Richard, R.G.
Sr. Project Manager

cc: Ms. Sonia Fernandez, Department of Ecology, Northwest Regional Office (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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Tables

Table 1
Groundwater Gauging Data
ARCO Facility 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	9/7/2022	262.35	2.22	NP	--	260.13	--
MW-2	9/7/2022	261.52	9.60	NP	--	251.92	--
MW-3	9/7/2022	261.47	10.03	NP	--	251.44	--
MW-4	9/7/2022	261.16	18.11	NP	--	243.05	--
MW-5	9/7/2022	261.04	17.64	NP	--	243.40	--
MW-6	9/7/2022	261.72	10.60	NP	--	251.12	--
MW-7	9/7/2022	261.21	16.52	NP	--	244.69	--
MW-8	9/7/2022	259.58	16.65	NP	--	242.93	--
MW-9	9/7/2022	258.96	18.35	NP	--	240.61	--
MW-10	9/7/2022	256.56	16.91	NP	--	239.65	--
MW-11	9/7/2022	261.85	18.11	NP	--	243.74	--
MW-12	9/7/2022	257.84	13.68	NP	--	244.16	--
MW-13	9/7/2022	258.01	13.40	NP	--	244.61	--
MW-14	9/7/2022	258.27	6.50	NP	--	251.77	--
MW-15	9/7/2022	258.25	14.51	NP	--	243.74	--
MW-17	9/7/2022	253.47	12.68	NP	--	240.79	--
MW-18	9/7/2022	249.67	10.25	NP	--	239.42	--
MW-19	9/7/2022	249.21	9.85	NP	--	239.36	--
MW-20	9/7/2022	261.36	16.09	NP	--	245.27	--
MW-21	9/7/2022	261.26	11.10	NP	--	250.16	--
B1 (JPHC)	9/7/2022	257.71	14.15	NP	--	243.56	--
IW-1	9/7/2022	--	13.47	NP	--	--	--
IW-2	9/7/2022	--	14.15	NP	--	--	--
IW-3	9/7/2022	--	13.61	NP	--	--	--
IW-4	9/7/2022	--	13.42	NP	--	--	--

Table 1
Groundwater Gauging Data
ARCO Facility 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

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 Roosebekt Way NE, Seattle, WA 98125

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**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	< 0.01	< 1.00	< 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	< 1.00	2.49
MW-1	12/6/2005	< 0.500	< 0.500	< 0.500	< 1.00	< 1.00	--	--	< 50.0	< 255	< 510	< 1.00	1.26
MW-1	6/5/2006	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	--	--	< 50.0	< 253	< 505	< 1.00	1.76
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	--	--
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	< 0.01	< 1.00	< 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

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

	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
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	3.5	< 0.17
MW-2	10/21/2014	< 1.0	< 1.0	< 1.0	0.17 JB	< 1.0	--	--	< 50	35	< 250	< 2.0	0.55 JB
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	< 2.0	0.24 J
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	--	**3**	< 0.51	< 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	--	--	--	--

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

	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
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	< 1.00	1.52
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	--	--
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**	< 0.01	< 1.00	**2,940**	**1,620**	**2,160**	2.43	6.96
MW-4	6/26/2003	**1,350**	< 5.00	45.1	52.1	< 20.0	--	--	**4,410**	**6,630**	**3,070**	1.87	4.04
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**	1.58	2.45
MW-4	11/16/2004	**990**	< 5.00	96.9	154	**20.9**	--	--	**76,200**	**24,300**	**8,350**	< 1.00	11.5
MW-4	3/29/2005	**5,920**	79.0	**1,140**	**6,630**	< 100	< 0.010	< 25.0	**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**	< 1.00	10

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

	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
MW-4	9/12/2005	**980**	10.3	143	55.1	16.2	--	--	**5,450**	**1,070**	**1,590**	< 1.00	2.62
MW-4	12/6/2005	**737**	5.0	127	58.0	< 10.0	--	--	**4,320**	**1,030**	**1,720**	< 1.00	2.42
MW-4	6/5/2006	**851**	< 10.0	146	168	< 20.0	--	--	**3,720**	430	**641**	< 1.00	3.04
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	--	--
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	2.96	3.95
MW-4	10/6/2009	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	--	--	69	< 245	< 490	2.9	3.6
MW-4	1/5/2010	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	--	--	< 50.0	< 120	250	< 2.00	3.8
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**	< 2.0	2.6
MW-4	1/26/2011	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	--	--	< 50	260	330	< 2.0	3.0
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	< 2.0	0.30
MW-4	4/2/2014	< 1.1	< 0.89	< 0.89	< 0.82	< 0.74	--	--	< 10	**900**	**780**	< 0.17	0.51
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	< 2.0	0.55 JB
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	< 2.0	0.26 J
MW-4	11/21/2016	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0	--	--	< 50	160	< 250	< 2.0	< 2.0

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ARCO Facility No. 980
10822 Roosebekt Way NE, Seattle, WA 98125

	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
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**	< 0.40	< 2.0
MW-4	3/30/2022	< 1.0	< 1.0 *+	< 1.0	< 2.0	< 1.0	--	--	< 50	130	360	< 2.0	< 2.0
MW-4	6/27/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	220	< 260	< 0.50	< 0.50
MW-4	9/7/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	410	< 260	< 2.0	< 2.0
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	--	--
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	--	--

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	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
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	< 1.00	1.63
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	< 1.00	2.1
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	< 2.0	0.44 JB
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
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	--	--

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

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

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

	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
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**	--	--	--	--
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	< 0.01	< 1.00	< 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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	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**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	< 2.0	0.44 JB
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	--	--	--	--	--	--	--	--	--	--	< 0.17	1.7 J
MW-8	6/1/2016	--	--	--	--	--	--	--	--	--	--	< 0.17	2.9
MW-8	8/29/2016	< 2.0	< 2.0	< 3.0	< 3.0	< 1.0 *	--	--	< 50	93 JB	59 JB	< 2.0	0.26 J
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	< 2.0	5.5
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	< 4.0	4.1
MW-8	3/23/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	< 110	< 360	< 2.0	< 2.0
MW-8	3/30/2022	< 1.0	< 1.0 *+	< 1.0	< 2.0	< 1.0	--	--	< 50	< 110	< 360	< 2.0	< 2.0
MW-8	9/7/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 260	< 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
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	--	--

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ARCO Facility No. 980
10822 Roosebekt Way NE, Seattle, WA 98125

	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
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	0.35	< 0.17
MW-9	10/21/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 50	66 J	< 240	< 2.0	0.26 JB
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
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	< 1.00	1.06
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

Table 2
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	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
MW-10	3/29/2005	< 0.200	< 0.500	< 0.500	< 1.00	13.8	< 0.010	< 0.500	< 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
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	< 2.0	0.26 JB
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	< 4.0 F2
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-10	3/30/2022	< 1.0	< 1.0 *+	< 1.0	< 2.0	< 1.0	--	--	< 50	< 110	< 350	< 2.0	< 2.0
MW-10	6/27/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 250	< 0.50	< 0.50

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	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
MW-10	9/7/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 110	< 270	< 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	< 0.01	< 1.00	**5,710**	**5,170**	**6,790**	4.95	**16.0**
MW-11	6/26/2003	**301**	5.01	120	568	< 20.0	--	--	**9,170**	**72,800**	**107,000**	3.09	8.71
MW-11	12/9/2003	**99.2**	3.00	48.9	314	14.8	--	--	**4,650**	**1,610**	**2,910**	1.14	2.94
MW-11	11/16/2004	**155**	2.95	66.4	610	< 10.0	--	--	**29,000**	**72,200**	**28,500**	2.06	**32.1**
MW-11	3/29/2005	**138**	< 2.50	90.6	145	< 10.0	< 0.010	< 2.50	**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**	1.56	10.6
MW-11	9/12/2005	**217**	< 12.5	224	992	3.48	--	--	**22,000**	**81,100**	**169,000**	**21.8**	**43**
MW-11	12/6/2005	**148**	< 2.50	130	504	< 5.00	--	--	**13,000**	**85,600**	**178,000**	3.1	**33.1**
MW-11	6/5/2006	**245**	< 5.00	149	529	< 10.0	--	--	**10,200**	**58,000**	**111,000**	**32.9**	**132**
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**	1.48	5.67
MW-11	7/8/2009	0.370	< 0.500	< 0.500	< 1.00	< 2.00	--	--	175	**714**	**1,370**	1.07	3.90
MW-11	10/6/2009	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	--	--	410	< 243	< 485	< 2.00	2.6
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	< 2.00	2.1
MW-11	8/19/2010	< 0.50	< 0.50	< 0.50	1.00	< 1.00	--	--	180	210	< 240	< 2.00	3.2
MW-11	12/7/2010	< 0.50	< 0.50	< 0.50	1.1	< 1.0	--	--	190	170	280	< 2.0	2.3
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**	< 2.0	2.7
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**	< 2.0	1.1 J
MW-11	4/2/2014	< 1.1	< 0.89	< 0.89	< 0.82	< 0.74	--	--	25 J	**850 BY**	**1,700 BY**	< 0.17	0.77 J
MW-11	7/11/2014	< 0.14	< 0.16	< 0.13	< 0.12	< 0.17	--	--	34 JB	360 BY	470 Y	< 0.17	0.81 J

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	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
MW-11	10/22/2014	0.29 J	< 1.0	< 1.0	0.26 JB	< 1.0	--	--	58 B	430 Y	190 J	< 2.0	0.87 JB
MW-11	1/21/2015	< 0.14	< 0.16	< 0.13	< 0.12	< 0.17	--	--	33 J	230 H1BY^	180 J^H1	< 0.17	0.32 J
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**	--	--
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	0.55 J	0.44 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-11	9/7/2022	--	--	--	--	--	--	--	--	210	< 250	--	--
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**	4.93	**315**
MW-12	12/9/2003	**2,520**	338	142	**1,320**	**114**	--	--	**18,000**	**2,730**	**4,960**	4.84	4.77
MW-12	4/7/2004	**641**	655	201	**1,590**	< 10.0	--	--	**19,200**	**204,000**	**314,000**	8.61	**536**
MW-12	11/16/2004	**757**	**1,230**	283	**2,090**	< 20.0	--	--	**25,800**	**111,000**	**27,800**	2.92	9.64
MW-12	3/29/2005	**462**	655	250	**2,470**	< 40.0	< 0.010	< 10.0	**18,600**	**2,150,000**	**590,000**	--	**313**

Table 2
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	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
MW-12	6/22/2005	**1,190**	434	350	**2,320**	< 20.0	--	--	**102,000**	**26,900**	**8,180**	3.61	**38**
MW-12	9/12/2005	**758**	631	250	**1,480**	< 2.00	--	--	**12,900**	**242,000**	**561,000**	4.64	**37.5**
MW-12	12/6/2005	**481**	**1,480**	**1,560**	**11,600**	< 100	--	--	**18,800**	**145,000**	**290,000**	12	**76.3**
MW-12	6/5/2006	**721**	61.8	190	**1,170**	< 20.0	--	--	**11,400**	**14,300**	**27,700**	1.52	3.23
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**	7.86	**36**
MW-12	7/8/2009	< 1.00	< 2.50	< 2.50	8.45	< 10.0	--	--	**1,790**	< 250	< 500	5.61	8.45
MW-12	10/6/2009	1.9	< 1.00	1.0	9.3	< 1.00	--	--	**3,600**	**2,210**	**2,040**	< 2.00	4.2
MW-12	1/6/2010	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	--	--	**3,700**	**5,500**	**1,100**	2.0	4.8
MW-12	5/25/2010	< 0.50	< 0.50	< 0.50	4.4	< 1.00	--	--	**2,900**	**3,800**	**2,900**	< 2.00	2.6
MW-12	8/19/2010	0.89	0.59	0.51	3.4	< 1.00	--	--	**1,800**	**2,000**	380	< 2.00	3.5
MW-12	12/7/2010	1.9	0.66	0.51	3.6	< 1.0	--	--	**2,300**	**1,700**	**1,300**	< 2.0	2.3
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**	< 2.0	**21**
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**	< 2.0	0.57 J
MW-12	4/2/2014	< 1.1	< 0.89	< 0.89	< 0.82	< 0.74	--	--	15 J	190 BY	320 BY	< 0.17	0.36 J
MW-12	7/11/2014	0.35 J	< 0.16	< 0.13	< 0.12	< 0.17	--	--	100 B	460 BY	300 Y	< 0.17	0.54 J
MW-12	10/22/2014	3.9	0.46 J	0.91 J	1.4 JB	< 1.0	--	--	770 B	**830 Y**	**790 Y**	< 2.0	4.0 B
MW-12	1/21/2015	< 0.14	< 0.16	< 0.13	< 0.12	< 0.17	--	--	100	250 H1BY^	250 H1Y^	< 0.17	0.60 J
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	< 0.17	0.32 J
MW-12	6/1/2016	< 0.42	< 0.18	< 0.21	< 0.49	< 0.11	--	--	85	390	310	< 0.17	**390 J**
MW-12	8/29/2016	1.5 J	0.46 J	< 3.0	< 3.0	< 1.0 *	--	--	120	470 B	170 JB	0.24 J	0.33 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

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ARCO Facility No. 980
10822 Roosebekt Way NE, Seattle, WA 98125

	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
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-12	3/30/2022	< 1.0	< 1.0 *+	< 1.0	< 2.0	< 1.0	--	--	< 50	200	< 350	< 2.0	< 2.0
MW-12	4/7/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	250	470	< 2.0	< 2.0
MW-12	6/27/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	160	< 250	< 0.50	< 0.50
MW-12	9/7/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	**660**	< 250	< 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	< 2.0	2.5
MW-13**	3/30/2022	< 1.0	< 1.0 *+	< 1.0	< 2.0	< 1.0	--	--	< 50	--	--	--	--
MW-13**	6/27/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	--	--	--	--
MW-13**	9/7/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	--	--	--	--
MW-13	9/7/2022	--	--	--	--	--	--	--	--	230	< 250	< 2.0	**45**
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-15	3/30/2022	< 1.0	3.4	1.0	< 2.0	< 1.0	--	--	< 50 *3*1	< 120	< 380	< 2.0	3.0
MW-15**	7/5/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	--	--	--	--

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	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
MW-15**	9/7/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	--	--	--	--
MW-15	9/7/2022	--	--	--	--	--	--	--	--	< 110	< 280	< 2.0	6.8
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-19	3/30/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50 *1	< 110	< 360	< 2.0	< 2.0
MW-19	6/27/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 250	< 0.50	< 0.50
MW-19	9/7/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 260	< 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-20	3/30/2022	< 1.0	< 1.0 F1	< 1.0 F1	< 2.0 F1	1.1	--	--	< 50 *1	120	< 350	< 2.0	< 2.0
MW-20	9/7/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 110 F1	< 270	< 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
MW-21	3/30/2022	< 1.0	< 1.0 *+	< 1.0	< 2.0	< 1.0	--	--	< 50	110	< 350	< 2.0	< 2.0
MW-21	9/7/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 260	< 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
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	--	--	--	--

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	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
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	< 0.01	< 1.00	< 50.0	< 250	< 500	< 1.00	**17.9**
VP-1	6/26/2003	0.521	< 0.500	1.05	5.25	5.55	--	--	137	< 250	< 500	< 1.00	6.48
VP-1	12/9/2003	< 0.500	< 0.500	< 0.500	< 1.00	**34.1**	--	--	< 50.0	< 250	< 500	< 1.00	1.44
VP-1	4/7/2004	< 0.500	< 0.500	< 0.500	< 1.00	1.19	--	--	< 50.0	< 250	< 500	< 1.00	3.21
VP-1	11/16/2004	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	--	--	< 80.0	< 250	< 500	< 1.00	**34.2**
VP-1	3/29/2005	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	< 0.010	< 0.500	< 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	< 1.00	1.21
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	< 1.00	2.72
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	< 1.00	12
VP-1	7/8/2009	< 0.200	< 0.500	< 0.500	< 1.00	< 2.00	--	--	< 80.0	< 245	< 490	< 1.00	7.86
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	< 2.00	2.3
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	< 2.0	2.2
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	< 10.0	10.9
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	--	--	--

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

	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
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	< 0.01	< 1.00	< 50.0	< 250	< 500	< 1.00	5.21
VP-2	6/26/2003	< 0.500	< 0.500	< 0.500	< 1.00	**22.9**	--	--	< 50.0	< 250	< 500	< 1.00	9.19
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	< 1.00	1.35
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	--	--
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	< 1.00	**20.5**
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	--	--

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

	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
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	--	--
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	--	--	--
BV-7	6/30/2000	**1,290**	249	< 25.0	826	--	--	--	**6,130**	**122,000**	**271,000**	--	--

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

	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
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	< 0.01	< 1.00	< 50.0	< 250	< 500	< 1.00	< 1.00
SVE-1	6/26/2003	< 0.500	< 0.500	< 0.500	< 1.00	< 5.00	--	< 1.00	< 50.0	< 287	< 575	< 1.00	3.55
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	< 1.00	12
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	--	--
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**	--	--

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

	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
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	--	< 1.00	**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**	< 1.00	**24.2**
SVE-3	4/7/2004	**11.60**	12.5	37.3	70.9	< 1.00	--	--	**3,610**	**2,180**	**8,300**	< 1.00	4.30
SVE-3	11/16/2004	4.35	0.650	9.44	17.5	< 2.00	--	--	614	**6,080**	**23,200**	< 1.00	3.36
SVE-3	3/29/2005	0.780	< 0.500	0.700	1.28	< 2.00	< 0.010	< 0.500	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**	< 1.00	**37**
SVE-3	9/12/2005	**31.6**	724	344	**1,480**	< 2.00	--	--	**7,190**	**13,200**	**61,000**	< 1.00	**40.9**
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**	< 1.00	1.36
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**	< 2.00	3.8
SVE-3	12/7/2010	< 0.50	< 0.50	11	13	< 1.0	--	--	590	**2,700**	**20,000**	< 2.0	4.0
SVE-3	1/26/2011	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	--	--	< 50	**1,100**	**8,500**	< 2.0	4.3
SVE-3	6/16/2011	< 0.50	< 0.50	9.3	6.9	< 1.0	--	--	320	**2,100**	**5,400**	< 2.0	7.7
SVE-3	6/19/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 50.0	< 160	< 800	< 10.0	< 10.0
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**	--	--

Table 2
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ARCO Facility No. 980
10822 Roosebekt Way NE, Seattle, WA 98125

	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
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**	14.3	**447**
B1 (JPHC)	12/9/2003	**454**	10.7	34.8	354	< 5.00	--	--	**4,650**	**10,700**	**20,500**	1.62	4.60
B1 (JPHC)	4/7/2004	**2,650**	428	383	**1,730**	< 100	--	--	**24,500**	**11,200**	**20,200**	13.3	5.13
B1 (JPHC)	11/16/2004	**3,470**	15	260	**1,190**	< 40.0	--	--	**45,000**	**6,730**	**3,770**	1.39	9.55
B1 (JPHC)	3/29/2005	**3,800**	267	600	**2,330**	< 40.0	< 0.010	< 10.0	**19,500**	**50,400**	**18,600**	--	**26.6**
B1 (JPHC)	6/22/2005	**594**	80.8	326	**1,450**	< 10.0	--	--	**9,760**	**13,300**	**7,820**	1.73	**24.5**
B1 (JPHC)	9/12/2005	**3,890**	64.4	**986**	**4,280**	**25.4**	--	--	**115,000**	**4,270**	**7,990**	11.5	**69.4**
B1 (JPHC)	12/6/2005	**5,400**	99.0	625	**2,220**	< 100	--	--	**25,400**	**6,360**	**12,700**	1.51	4.1
B1 (JPHC)	6/5/2006	**4,440**	75.0	316	885	< 100	--	--	**16,800**	**4,750**	--	1.56	**21.5**
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	5.19	5.36
B1 (JPHC)	7/8/2009	**24.6**	< 0.500	< 0.500	< 1.00	< 2.00	--	--	152	< 240	< 481	5.74	6.81
B1 (JPHC)	10/6/2009	**54**	1.2	3.6	< 2.00	< 1.00	--	--	**950**	315	**534**	5.6	**31**
B1 (JPHC)	1/6/2010	**110**	2.2	9.5	10	< 1.00	--	--	**1,000**	**810**	< 240	6.9	7.7
B1 (JPHC)	5/25/2010	**250**	11	26	64	< 1.00	--	--	**1,400**	**13,000**	**720**	6.5	13
B1 (JPHC)	8/19/2010	**280**	26	32	120	< 1.00	--	--	**2,000**	**11,000**	**780**	5.0	11
B1 (JPHC)	12/7/2010	**150**	42	39	160	< 1.0	--	--	**2,900**	**4,700**	**650**	4.8	6.6
B1 (JPHC)	1/26/2011	**41**	16	21	100	< 1.0	--	--	**1,200**	**3,000**	370	4.1	4.9
B1 (JPHC)	6/16/2011	**140**	8.2	52	340	< 1.0	--	--	**4,600**	**7,700**	**1,600**	4.2	8.0
B1 (JPHC)	9/22/2011	3.3	< 0.50	2.7	9.2	1.5	--	--	520	304	< 476	< 2.0	3.3
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

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ARCO Facility No. 980
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	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
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**	1.3 J	2.0
B1 (JPHC)	4/2/2014	**110**	3.4 J	23	70	< 0.74	--	--	**1,800**	**4,500 BY**	410 BY	0.93 J	1.4 J
B1 (JPHC)	7/11/2014	**140**	3.9	32	100	< 0.17	--	--	**1,600 B**	**5,400 BY**	**600 Y**	1.0 J	1.4 J
B1 (JPHC)	10/22/2014	**160**	4.9	39	180 B	0.20 J	--	--	**2,500 B**	**2,300 Y**	30 J	0.60 J	1.4 JB
B1 (JPHC)	1/21/2015	**130**	2.4	21	88	< 0.17	--	--	**1,700**	**4,600 H1BY^**	300 H1Y^	0.39 J	0.51 J
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**	< 0.17	0.27 J
B1 (JPHC)	6/1/2016	**93**	2.1	10	34	< 0.11	--	--	**1,400**	**4,400**	**1,000**	0.32 J	1.6 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)	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	< 2.0	2.2
B1 (JPHC)	3/30/2022	**12**	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50 *3	**1,100**	**550**	< 2.0	< 2.0
B1 (JPHC)	6/27/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	330	< 260	< 0.50	1.8
B1 (JPHC)	9/7/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	**700**	400	< 2.0	< 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**	--	--

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	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
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	--	--
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	< 0.01	< 1.00	< 50.0	< 250	< 500	< 1.00	**23.5**
B3 (JPHC)	6/26/2003	< 0.500	< 0.500	1.30	7.36	< 1.00	--	--	296	289	< 500	< 1.00	11.3
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	< 1.00	2.28
B3 (JPHC)	3/29/2005	< 0.200	< 0.500	< 0.500	< 1.00	2.58	< 0.010	< 0.500	< 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	< 1.00	**18.9**
B3 (JPHC)	9/12/2005	< 0.500	< 0.500	< 0.500	< 1.00	3.82	--	--	< 50.0	< 250	< 500	< 1.00	4.12
B3 (JPHC)	12/6/2005	< 0.500	< 0.500	< 0.500	< 1.00	4.49	--	--	74.3	253	< 485	< 1.00	3.25
B3 (JPHC)	6/5/2006	< 0.500	< 0.500	< 0.500	< 1.00	1.17	--	--	< 50.0	< 278	< 556	< 1.00	1.95
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	< 1.00	1.62
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	< 2.00	7.6
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
B3 (JPHC)	8/19/2010	< 0.50	< 0.50	< 0.50	< 1.00	< 1.00	--	--	< 50.0	340	420	< 2.00	6.1
B3 (JPHC)	12/7/2010	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	--	--	< 50	< 120	< 240	< 2.0	6.1
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	< 2.0	2.3
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

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

	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
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	0.77 J	0.22 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
IW-1	11/17/2017	--	--	--	--	--	--	--	--	--	--	--	3.1
IW-1	12/7/2017	**11**	2.5	25	310	--	--	--	**9,800**	--	--	--	--

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

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

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.
*3 = ISTD response or retention time outside acceptable 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.
^ = 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.
*+ = LCS and/or LCSD is outside acceptance limits, high biased.
S1-Surrogate recovery exceeds control limits, low biased.
S1+Surrogate recovery exceeds control limits, high biased.
** Sample from PDB within well

Table 3
Groundwater Bioparameter Data - 4Q21 through 3Q22
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

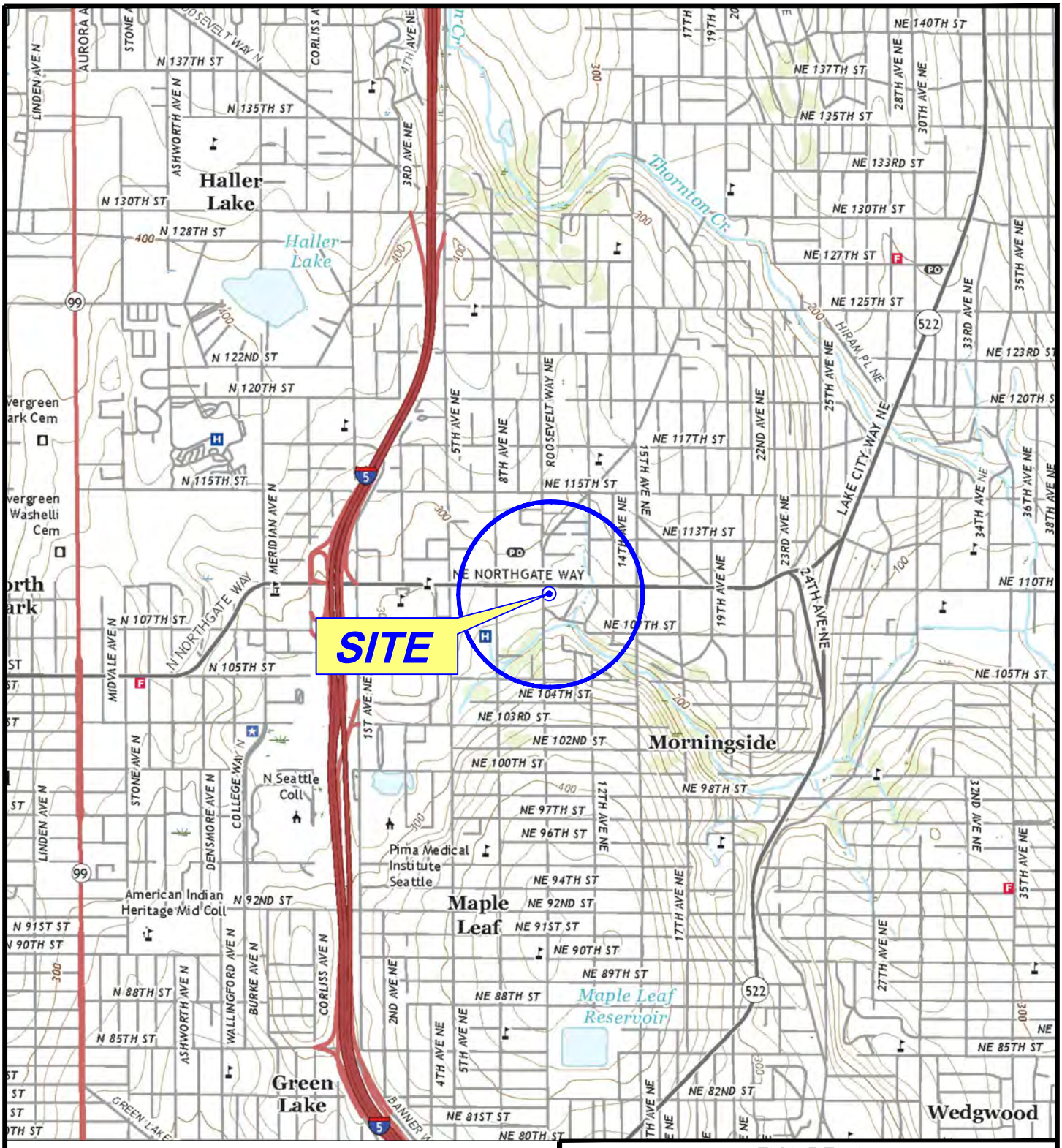
	CONSTITUENT	Nitrate as N	Nitrite as N	Sulfate	Total Dissolved Solids
	UNIT	ug/L	ug/L	ug/L	ug/L
Well ID	**Date**				
MW-4	11/8/2021	< 200	< 400	42000	--
MW-4	12/13/2021	370	< 400	35,000	640,000
MW-4	3/30/2022	1,100	--	38,000	500,000
MW-4	6/27/2022	< 200	< 400	32,000	460,000
MW-4	9/7/2022	< 200	< 400	39,000	250,000
MW-8	3/30/2022	5,400	--	110,000	360,000
MW-8	9/7/2022	5,900	< 400	120,000	440,000
MW-10	11/8/2021	2,600	< 400	100,000	--
MW-10	12/13/2021	1,700	< 400	40,000	250,000
MW-10	3/30/2022	1,500	--	49,000	230,000
MW-10	6/27/2022	2,200	< 400	71,000	300,000
MW-10	9/7/2022	2,900	< 400	98,000	390,000
MW-12	11/8/2021	< 200	< 400	4,100	--
MW-12	12/13/2021	< 200	< 400	15,000	230,000
MW-12	3/30/2022	1,100	--	17,000	< 10000
MW-12	4/7/2022	1,900	--	18,000	270,000
MW-12	6/27/2022	< 200	< 400	17,000	250,000
MW-12	9/7/2022	< 200	< 400	37,000	360,000
MW-13	11/8/2021	6,300	< 400	52,000	--
MW-13	6/27/2022	160,000	< 400	1,000,000	2,000,000
MW-13	9/7/2022	120,000 H	460	1,200,000	2,500,000
MW-15	11/8/2021	8,200	< 400	26,000	--
MW-15	3/30/2022	8,100	--	34,000	210,000
MW-15	6/27/2022	6,200	< 400	44,000	1,500,000
MW-15	9/7/2022	< 200	< 400	25,000	360,000
MW-19	11/8/2021	2,100	< 400	67,000	--
MW-19	3/30/2022	1,700	--	71,000	190,000
MW-19	6/27/2022	1,900	< 400	84,000	310,000
MW-19	9/7/2022	2,000	< 400	93,000	290,000
B1 (JPHC)	11/8/2021	< 200	< 400	1,700	--
B1 (JPHC)	12/13/2021	86,000	< 4000	1,400,000	2,200,000
B1 (JPHC)	3/30/2022	25,000	--	630,000	1,100,000
B1 (JPHC)	6/27/2022	3,600	< 400	390,000	880,000
B1 (JPHC)	9/7/2022	330	< 400	250,000	770,000

Table 3
Groundwater Bioparameter Data - 4Q21 through 3Q22
ARCO Facilty No. 980
10822 Roosevelt Way NE Seattle, Washington 98125

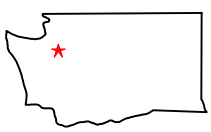
	CONSTITUENT	Nitrate as N	Nitrite as N	Sulfate	Total Dissolved Solids
	UNIT	ug/L	ug/L	ug/L	ug/L
Well ID	**Date**				

Notes:
<1.0 = Concentrations were not detected above the laboratory method reporting limit.
ug/L = Micrograms per liter (ppb)
-- = No value given/Not analyzed/Not applicable
H = Sample was prepped or analyzed beyond the specified holding time

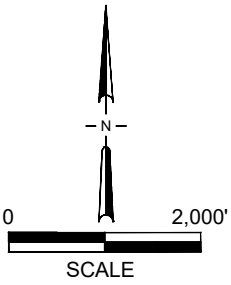
Figures



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



QUADRANGLE LOCATION



SCALE

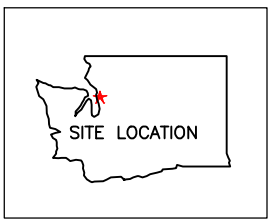
FIGURE 1
SITE LOCATION MAP

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



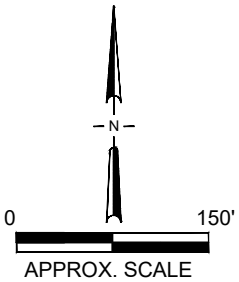
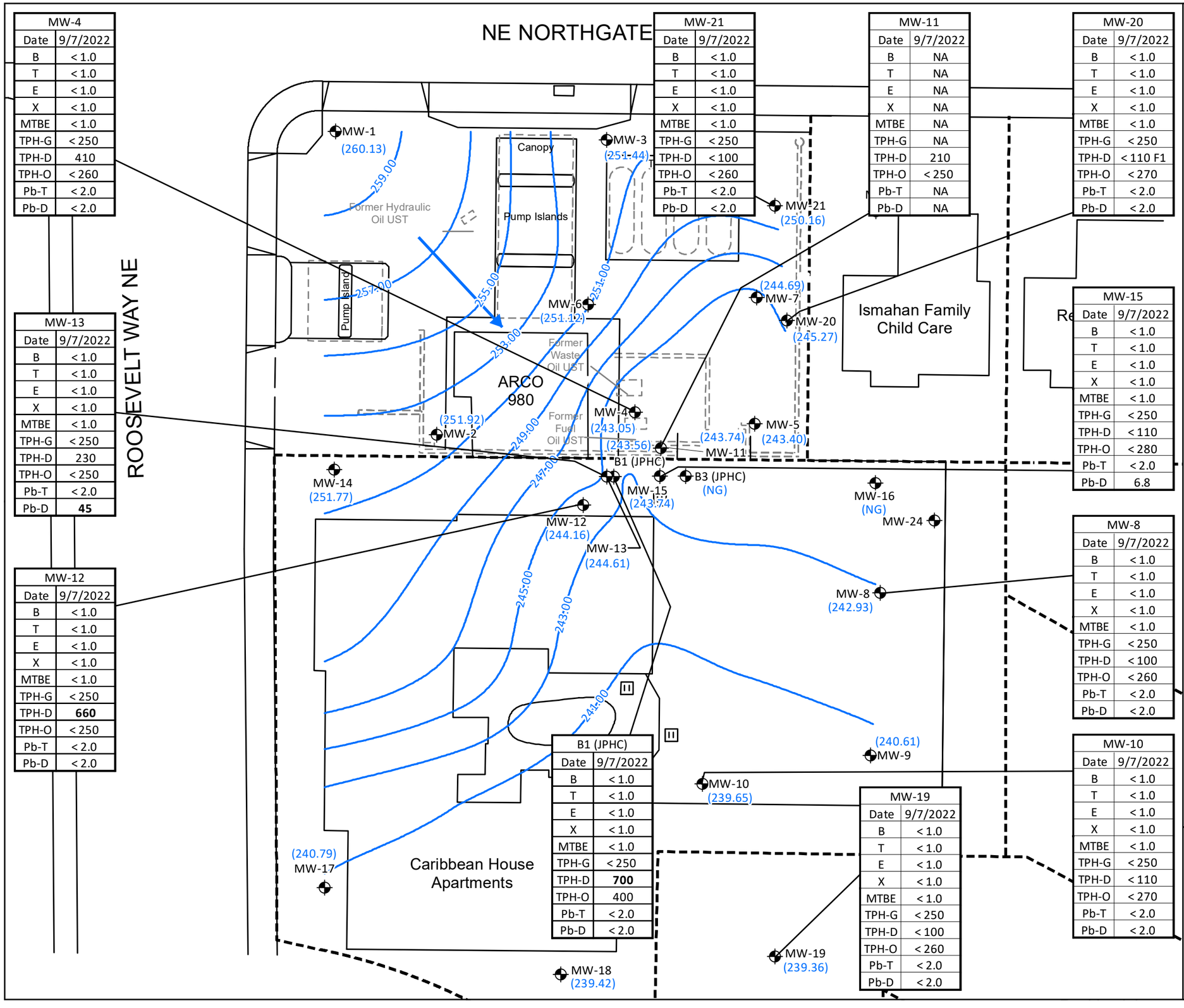


FIGURE 2
SITE AERIAL MAP

ARCO FACILITY NO. 980
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	9/7/2022
B	< 1.0
T	< 1.0
E	< 1.0
X	< 1.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	410
TPH-O	< 260
Pb-T	< 2.0
Pb-D	< 2.0

MW-13	
Date	9/7/2022
B	< 1.0
T	< 1.0
E	< 1.0
X	< 1.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	230
TPH-O	< 250
Pb-T	< 2.0
Pb-D	**45**

MW-12	
Date	9/7/2022
B	< 1.0
T	< 1.0
E	< 1.0
X	< 1.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	**660**
TPH-O	< 250
Pb-T	< 2.0
Pb-D	< 2.0

MW-21	
Date	9/7/2022
B	< 1.0
T	< 1.0
E	< 1.0
X	< 1.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	< 100
TPH-O	< 260
Pb-T	< 2.0
Pb-D	< 2.0

MW-11	
Date	9/7/2022
B	NA
T	NA
E	NA
X	NA
MTBE	NA
TPH-G	NA
TPH-D	210
TPH-O	< 250
Pb-T	NA
Pb-D	NA

MW-20	
Date	9/7/2022
B	< 1.0
T	< 1.0
E	< 1.0
X	< 1.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	< 110 F1
TPH-O	< 270
Pb-T	< 2.0
Pb-D	< 2.0

MW-15	
Date	9/7/2022
B	< 1.0
T	< 1.0
E	< 1.0
X	< 1.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	< 110
TPH-O	< 280
Pb-T	< 2.0
Pb-D	6.8

MW-8	
Date	9/7/2022
B	< 1.0
T	< 1.0
E	< 1.0
X	< 1.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	< 100
TPH-O	< 260
Pb-T	< 2.0
Pb-D	< 2.0

B1 (JPHC)	
Date	9/7/2022
B	< 1.0
T	< 1.0
E	< 1.0
X	< 1.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	**700**
TPH-O	400
Pb-T	< 2.0
Pb-D	< 2.0

MW-19	
Date	9/7/2022
B	< 1.0
T	< 1.0
E	< 1.0
X	< 1.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	< 100
TPH-O	< 260
Pb-T	< 2.0
Pb-D	< 2.0

MW-10	
Date	9/7/2022
B	< 1.0
T	< 1.0
E	< 1.0
X	< 1.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	< 110
TPH-O	< 270
Pb-T	< 2.0
Pb-D	< 2.0

LEGEND

- GROUNDWATER MONITORING WELL
- SOIL SAMPLING LOCATION
- GROUNDWATER ELEVATION CONTOUR (ft)
- INFERRED GROUNDWATER FLOW DIRECTION (0.120 ft/ft)
- 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
NA = No value given/Not analyzed/Not applicable
NG = Well Not Gauged
F1 = MS and/or MSD Recovery is outside acceptance limits.
(250.16) = Groundwater Elevation (ft)

0 10 20 30 60 90 Feet

N

FIGURE 3

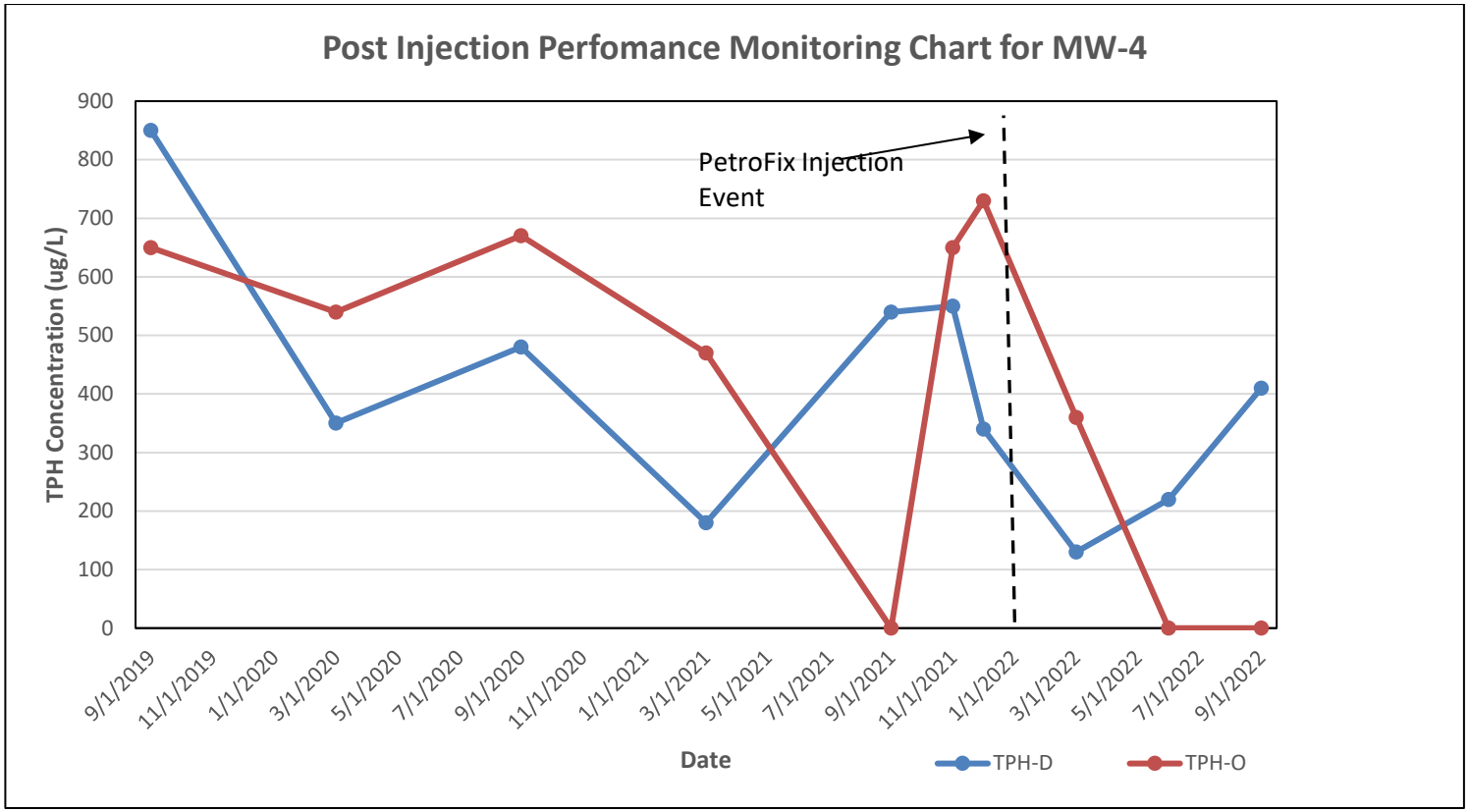
GROUNDWATER ANALYTICAL DATA MAP
SEPTEMBER 7, 2022
ARCO FACILITY NO. 980
10822 ROOSEVELT WAY NE
SEATTLE, WASHINGTON

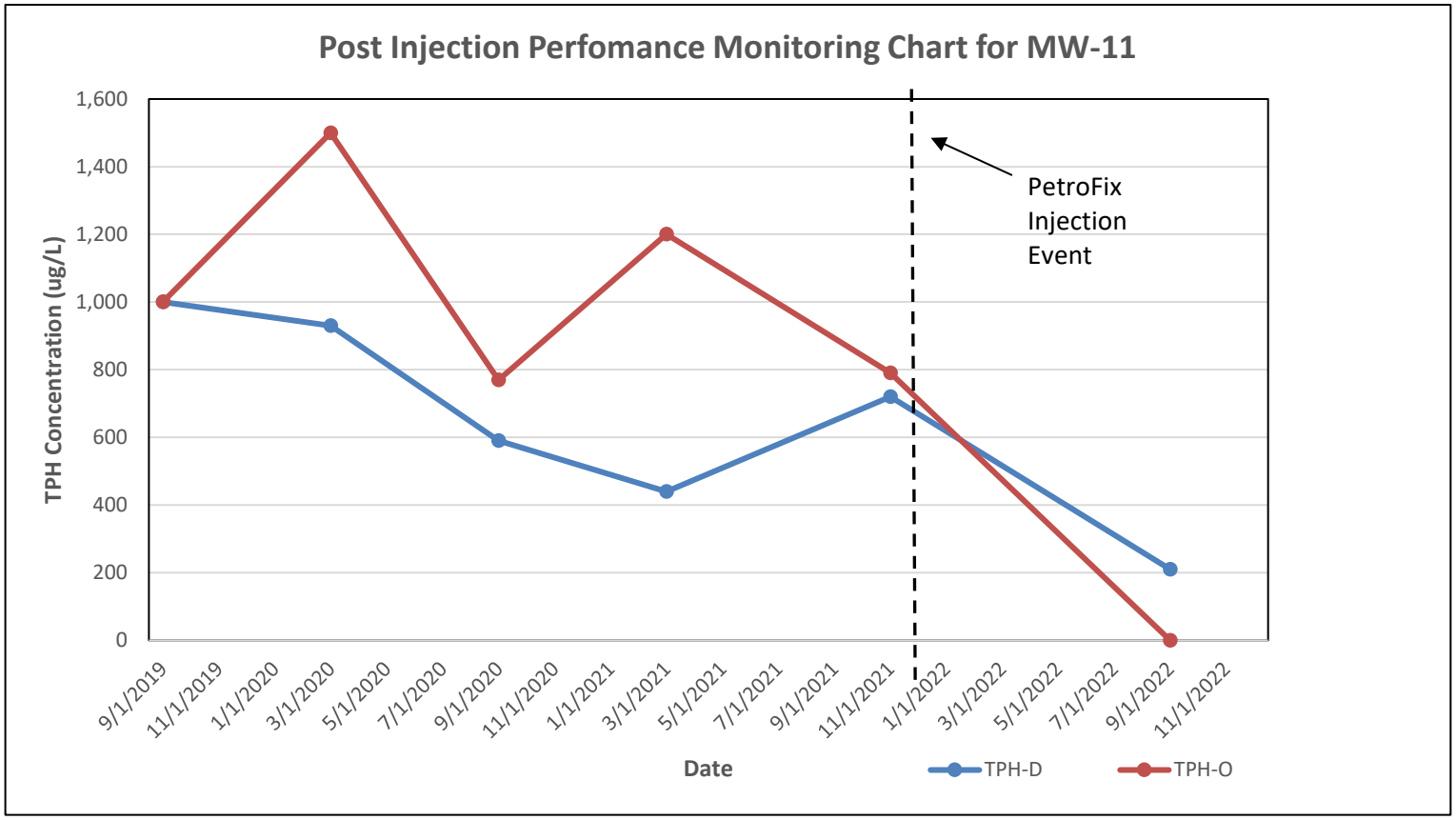
PROJECT NO.	PREPARED BY	REF SCALE
WA-00980 SEATTLE	MB	1:360
DATE	REVIEWED BY	MAP SCALE
12/10/2022	SC	1 inch = 30 feet

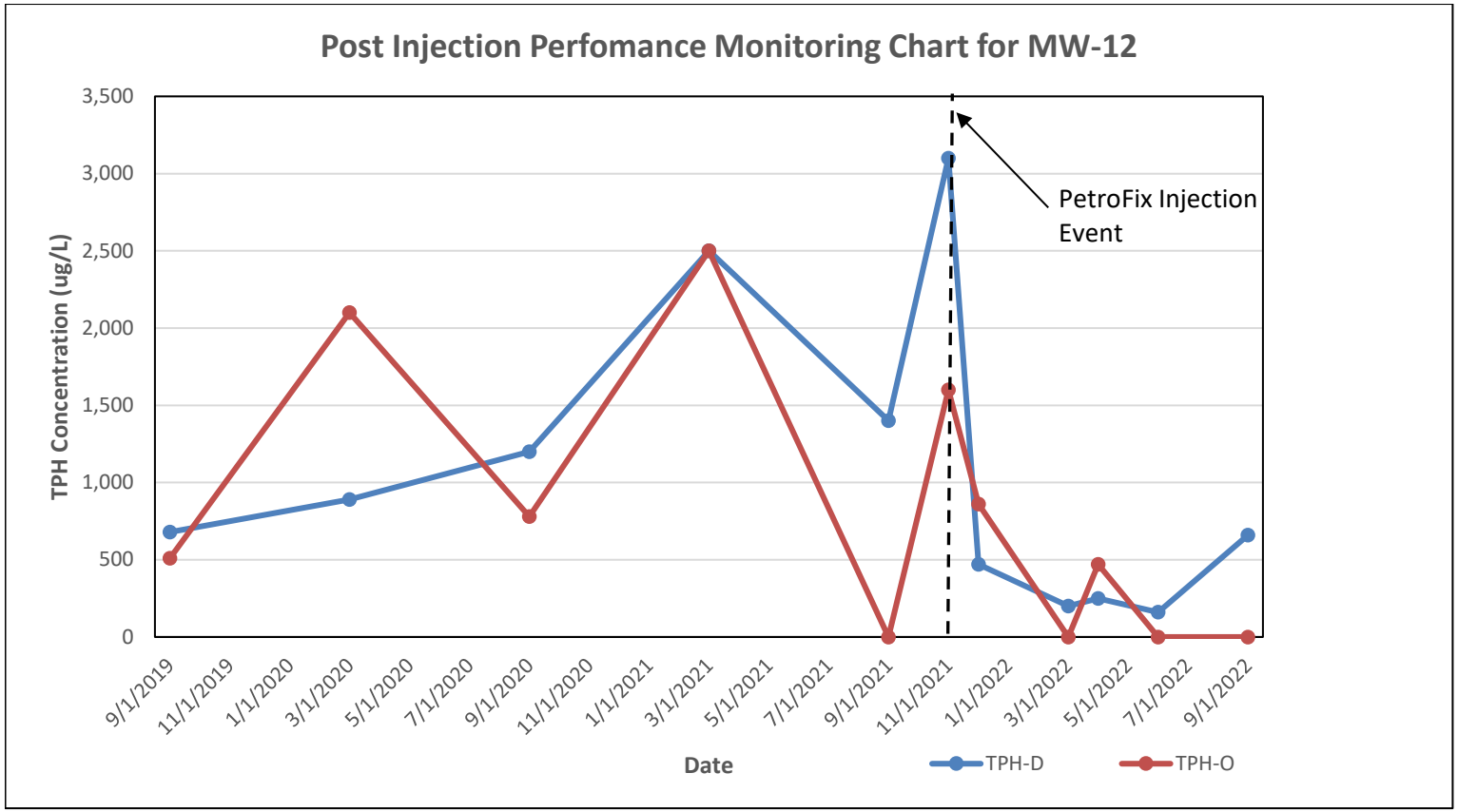
anteagroup

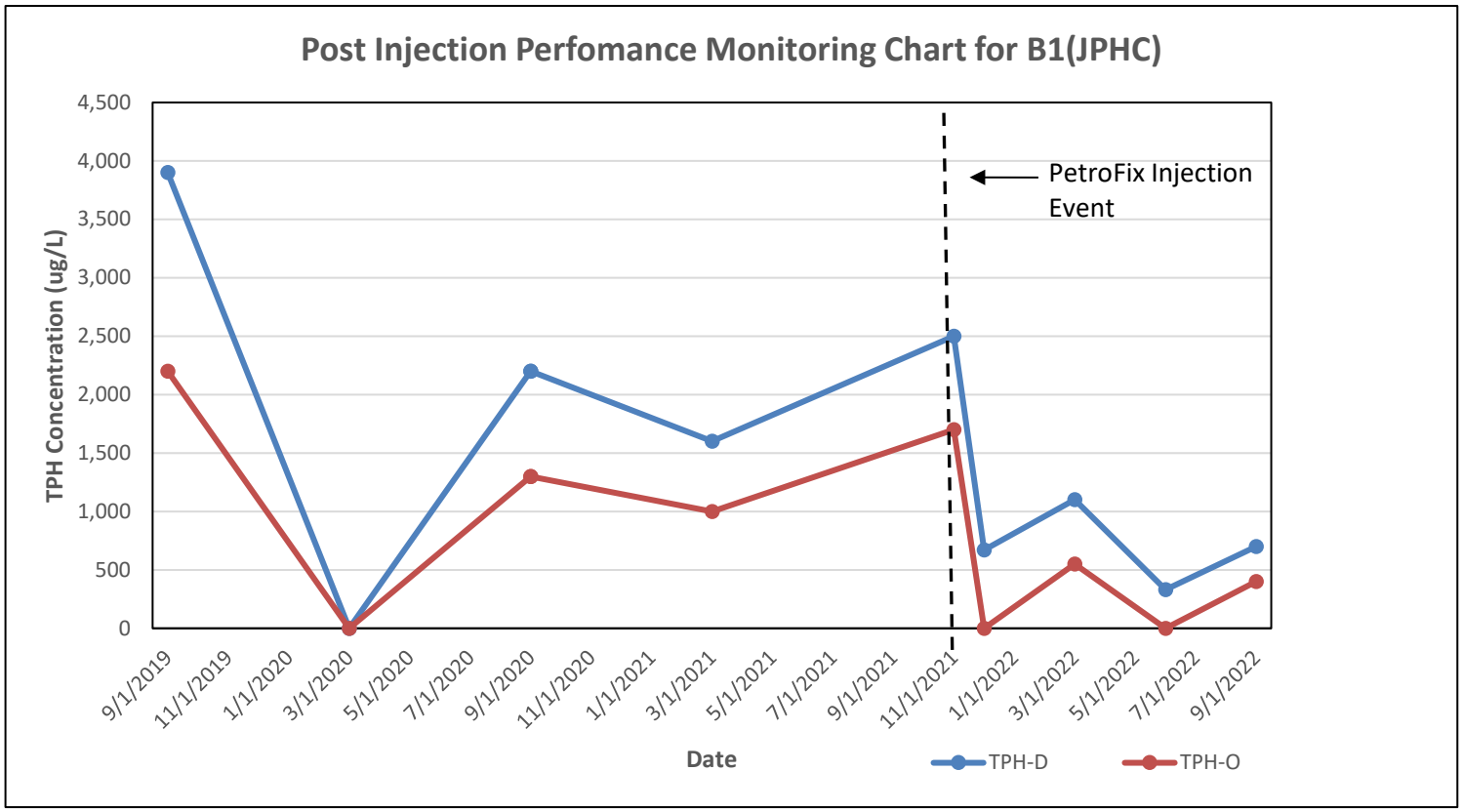
Charts

Post Injection Performance Monitoring Charts


Post Injection Perfomance Monitoring Chart for MW-4
TPH Concentration (ug/L)
900
800
700
600
500
400
300
200
100
0
PetroFix Injection Event
9/1/2019
11/1/2019
1/1/2020
3/1/2020
5/1/2020
7/1/2020
9/1/2020
11/1/2020
1/1/2021
3/1/2021
5/1/2021
7/1/2021
9/1/2021
11/1/2021
1/1/2022
3/1/2022
5/1/2022
7/1/2022
9/1/2022
Date
TPH-D
TPH-O


Post Injection Perfomance Monitoring Chart for MW-11
TPH Concentration (ug/L)
1,600
1,400
1,200
1,000
800
600
400
200
0
PetroFix
Injection
Event
9/1/2019
11/1/2019
1/1/2020
3/1/2020
5/1/2020
7/1/2020
9/1/2020
11/1/2020
1/1/2021
3/1/2021
5/1/2021
7/1/2021
9/1/2021
11/1/2021
1/1/2022
3/1/2022
5/1/2022
7/1/2022
9/1/2022
11/1/2022
Date
TPH-D
TPH-O


Post Injection Perfomance Monitoring Chart for MW-12
TPH Concentration (ug/L)
3,500
3,000
2,500
2,000
1,500
1,000
500
0
PetroFix Injection Event
9/1/2019
11/1/2019
1/1/2020
3/1/2020
5/1/2020
7/1/2020
9/1/2020
11/1/2020
1/1/2021
3/1/2021
5/1/2021
7/1/2021
9/1/2021
11/1/2021
1/1/2022
3/1/2022
5/1/2022
7/1/2022
9/1/2022
Date
TPH-D
TPH-O


Post Injection Perfomance Monitoring Chart for B1(JPHC)
TPH Concentration (ug/L)
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
PetroFix Injection Event
9/1/2019
11/1/2019
1/1/2020
3/1/2020
5/1/2020
7/1/2020
9/1/2020
11/1/2020
1/1/2021
3/1/2021
5/1/2021
7/1/2021
9/1/2021
11/1/2021
1/1/2022
3/1/2022
5/1/2022
7/1/2022
9/1/2022
Date
TPH-D
TPH-O

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

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 580-117672-1
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:
9/27/2022 1:58:22 PM

Katie Grant, Project Manager I
(253)922-2310
Katie.Grant@et.eurofinsus.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.

Katie Grant
Project Manager I
9/27/2022 1:58:22 PM

Table of Contents

Definitions/Glossary

Client: Antea USA Inc.
Job ID: 580-117672-1
Project/Site: BP -ARCO 980

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
S1-	Surrogate recovery exceeds control limits, low 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

Case Narrative

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

Job ID: 580-117672-1

Job ID: 580-117672-1

Laboratory: Eurofins Seattle

Narrative

Job Narrative
580-117672-1

Comments
No additional comments.

Receipt
The samples were received on 9/8/2022 9:30 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 -1.5º C, 1.1º C and 4.3º 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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 410-297210 and analytical batch 410-297417 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. MW-20_20220907 (580-117672-11)

Method NWTPH-Dx: Surrogate recovery for the following samples were outside control limits (low): MW-13_20220907 (580-117672-6) and MW-15_2022097 (580-117672-8). Re-extraction was performed and surrogate recovery was outside control limits(low). Both sets of data have been reported.

Method NWTPH-Dx: Surrogate recovery for the following samples were outside control limits (low): B1-JPHC_20220907 (580-117672-13) and DUP-1_20220907 (580-117672-14). Re-extraction was performed outside of holding time with acceptable results.

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: Re-analysis of sample MW-13_20220907 (580-117672-6) following was performed at 20x dilution, outside (ten hours) of the analytical holding time due to failure of quality control parameters (working analytic range 0.2-10.0) in the initial analysis. New dilution confirms target analyte data gathered within sample hold-time and also conforms to quality control parameters per standard operating procedure.

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

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

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

Detection Summary

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

Job ID: 580-117672-1

Client Sample ID: MW-4_20220907 — Lab Sample ID: 580-117672-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C12-C24	410		100		ug/L	1		NWTPH-Dx	Total/NA
Sulfate	39		1.5		mg/L	1		300.0	Total/NA
Total Dissolved Solids	250		30		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-8_20220907 — Lab Sample ID: 580-117672-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	120		3.0		mg/L	2		300.0	Total/NA
Nitrate as N	5.9		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	440		60		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-10_20220907 — Lab Sample ID: 580-117672-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	98		1.5		mg/L	1		300.0	Total/NA
Nitrate as N	2.9		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	390		60		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-11_20220907 — Lab Sample ID: 580-117672-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C12-C24	210		100		ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-12_20220907 — Lab Sample ID: 580-117672-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C12-C24	660		100		ug/L	1		NWTPH-Dx	Total/NA
Sulfate	37		1.5		mg/L	1		300.0	Total/NA
Total Dissolved Solids	360		60		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-13_20220907 — Lab Sample ID: 580-117672-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C12-C24	230		100		ug/L	1		NWTPH-Dx	Total/NA
C12-C24	170	H	100		ug/L	1		NWTPH-Dx	Total/NA
Lead	45		2.0		ug/L	5		6020B	Total Recoverable
Nitrite as N	0.46		0.40		mg/L	1		300.0	Total/NA
Sulfate	1200		30		mg/L	20		300.0	Total/NA
Nitrate as N	120	H	4.0		mg/L	20		300.0	Total/NA
Total Dissolved Solids	2500		240		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-13_PDB_20220907 — Lab Sample ID: 580-117672-7

No Detections.

Client Sample ID: MW-15_2022097 — Lab Sample ID: 580-117672-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.8		2.0		ug/L	5		6020B	Total Recoverable
Sulfate	25		1.5		mg/L	1		300.0	Total/NA
Total Dissolved Solids	360		60		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 580-117672-1

Client Sample ID: MW-15_PDB_20220907 — Lab Sample ID: 580-117672-9

No Detections.

Client Sample ID: MW-19_20220907 — Lab Sample ID: 580-117672-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	93		1.5		mg/L	1		300.0	Total/NA
Nitrate as N	2.0		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	290		30		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-20_20220907 — Lab Sample ID: 580-117672-11

No Detections.

Client Sample ID: MW-21_20220907 — Lab Sample ID: 580-117672-12

No Detections.

Client Sample ID: B1-JPHC_20220907 — Lab Sample ID: 580-117672-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C12-C24	700		100		ug/L	1		NWTPH-Dx	Total/NA
C12-C24	190	H	100		ug/L	1		NWTPH-Dx	Total/NA
C24-C40	400		260		ug/L	1		NWTPH-Dx	Total/NA
Sulfate	250		15		mg/L	10		300.0	Total/NA
Nitrate as N	0.33		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	770		120		mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-1_20220907 — Lab Sample ID: 580-117672-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C12-C24	2200		100		ug/L	1		NWTPH-Dx	Total/NA
C12-C24	220	H	100		ug/L	1		NWTPH-Dx	Total/NA
C24-C40	1600		250		ug/L	1		NWTPH-Dx	Total/NA
Lead	4.0		2.0		ug/L	5		6020B	Total Recoverable
Sulfate	260		7.5		mg/L	5		300.0	Total/NA
Nitrate as N	0.34		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	770		120		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-4_20220907

Lab Sample ID: 580-117672-1

Date Collected: 09/07/22 10:20

Matrix: Water

Date Received: 09/08/22 09:30

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			09/20/22 13:19	1
Benzene	ND		1.0		ug/L			09/20/22 13:19	1
Toluene	ND		1.0		ug/L			09/20/22 13:19	1
Ethylbenzene	ND		1.0		ug/L			09/20/22 13:19	1
m-Xylene & p-Xylene	ND		5.0		ug/L			09/20/22 13:19	1
o-Xylene	ND		1.0		ug/L			09/20/22 13:19	1
Xylenes, Total	ND		1.0		ug/L			09/20/22 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/20/22 13:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*09/20/22 13:19*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*09/20/22 13:19*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/20/22 13:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C7-C12	ND		250		ug/L			09/13/22 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*50 - 150*		*09/13/22 18:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C24	**410**		100		ug/L		09/19/22 08:39	09/20/22 03:26	1
C24-C40	ND		260		ug/L		09/19/22 08:39	09/20/22 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*98*		*50 - 150*	*09/19/22 08:39*	*09/20/22 03:26*	*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		09/21/22 12:11	09/23/22 01:34	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		09/15/22 14:57	09/16/22 15:46	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			09/08/22 18:54	1
Sulfate	**39**		1.5		mg/L			09/08/22 18:54	1
Nitrate as N	ND		0.20		mg/L			09/08/22 18:54	1
Total Dissolved Solids	**250**		30		mg/L			09/13/22 16:28	1

Client Sample ID: MW-8_20220907

Lab Sample ID: 580-117672-2

Date Collected: 09/07/22 17:35

Matrix: Water

Date Received: 09/08/22 09:30

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			09/20/22 13:39	1
Benzene	ND		1.0		ug/L			09/20/22 13:39	1

Client Sample ID: MW-8_20220907

Lab Sample ID: 580-117672-2

Date Collected: 09/07/22 17:35

Matrix: Water

Date Received: 09/08/22 09:30

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			09/20/22 13:39	1
Ethylbenzene	ND		1.0		ug/L			09/20/22 13:39	1
m-Xylene & p-Xylene	ND		5.0		ug/L			09/20/22 13:39	1
o-Xylene	ND		1.0		ug/L			09/20/22 13:39	1
Xylenes, Total	ND		1.0		ug/L			09/20/22 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/20/22 13:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*09/20/22 13:39*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*09/20/22 13:39*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*09/20/22 13:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C7-C12	ND		250		ug/L			09/13/22 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*50 - 150*		*09/13/22 19:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C24	ND		100		ug/L		09/19/22 08:39	09/20/22 03:48	1
C24-C40	ND		260		ug/L		09/19/22 08:39	09/20/22 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*92*		*50 - 150*	*09/19/22 08:39*	*09/20/22 03:48*	*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		09/21/22 12:11	09/23/22 02:30	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		09/15/22 14:57	09/16/22 15:56	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			09/08/22 19:41	1
Sulfate	**120**		3.0		mg/L			09/09/22 23:21	2
Nitrate as N	**5.9**		0.20		mg/L			09/08/22 19:41	1
Total Dissolved Solids	**440**		60		mg/L			09/13/22 16:28	1

Client Sample ID: MW-10_20220907

Lab Sample ID: 580-117672-3

Date Collected: 09/07/22 16:30

Matrix: Water

Date Received: 09/08/22 09:30

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			09/20/22 13:58	1
Benzene	ND		1.0		ug/L			09/20/22 13:58	1
Toluene	ND		1.0		ug/L			09/20/22 13:58	1
Ethylbenzene	ND		1.0		ug/L			09/20/22 13:58	1

Client Sample ID: MW-10_20220907

Lab Sample ID: 580-117672-3

Date Collected: 09/07/22 16:30
Matrix: Water
Date Received: 09/08/22 09:30

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		5.0		ug/L			09/20/22 13:58	1
o-Xylene	ND		1.0		ug/L			09/20/22 13:58	1
Xylenes, Total	ND		1.0		ug/L			09/20/22 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*09/20/22 13:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*09/20/22 13:58*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*09/20/22 13:58*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*09/20/22 13:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C7-C12	ND		250		ug/L			09/13/22 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*102*		*50 - 150*		*09/13/22 20:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C24	ND		110		ug/L		09/19/22 08:39	09/20/22 04:11	1
C24-C40	ND		270		ug/L		09/19/22 08:39	09/20/22 04:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*95*		*50 - 150*	*09/19/22 08:39*	*09/20/22 04:11*	*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		09/21/22 12:11	09/23/22 02:34	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		09/15/22 14:57	09/16/22 16:00	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			09/08/22 19:53	1
Sulfate	**98**		1.5		mg/L			09/08/22 19:53	1
Nitrate as N	**2.9**		0.20		mg/L			09/08/22 19:53	1
Total Dissolved Solids	**390**		60		mg/L			09/13/22 16:28	1

Client Sample ID: MW-11_20220907

Lab Sample ID: 580-117672-4

Date Collected: 09/07/22 08:30
Matrix: Water
Date Received: 09/08/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C24	**210**		100		ug/L		09/19/22 08:39	09/20/22 04:56	1
C24-C40	ND		250		ug/L		09/19/22 08:39	09/20/22 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*89*		*50 - 150*	*09/19/22 08:39*	*09/20/22 04:56*	*1*

Client Sample ID: MW-12_20220907

Lab Sample ID: 580-117672-5

Date Collected: 09/07/22 15:45

Matrix: Water

Date Received: 09/08/22 09:30

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			09/20/22 14:18	1
Benzene	ND		1.0		ug/L			09/20/22 14:18	1
Toluene	ND		1.0		ug/L			09/20/22 14:18	1
Ethylbenzene	ND		1.0		ug/L			09/20/22 14:18	1
m-Xylene & p-Xylene	ND		5.0		ug/L			09/20/22 14:18	1
o-Xylene	ND		1.0		ug/L			09/20/22 14:18	1
Xylenes, Total	ND		1.0		ug/L			09/20/22 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/20/22 14:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*09/20/22 14:18*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*09/20/22 14:18*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*09/20/22 14:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C7-C12	ND		250		ug/L			09/13/22 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*50 - 150*		*09/13/22 20:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C24	**660**		100		ug/L		09/19/22 08:39	09/20/22 05:19	1
C24-C40	ND		250		ug/L		09/19/22 08:39	09/20/22 05:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*88*		*50 - 150*	*09/19/22 08:39*	*09/20/22 05:19*	*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		09/21/22 12:11	09/23/22 03:02	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		09/15/22 14:57	09/16/22 16:03	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			09/08/22 20:05	1
Sulfate	**37**		1.5		mg/L			09/08/22 20:05	1
Nitrate as N	ND		0.20		mg/L			09/08/22 20:05	1
Total Dissolved Solids	**360**		60		mg/L			09/13/22 16:28	1

Client Sample ID: MW-13_20220907

Lab Sample ID: 580-117672-6

Date Collected: 09/07/22 13:40

Matrix: Water

Date Received: 09/08/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C24	**230**		100		ug/L		09/19/22 08:39	09/20/22 05:41	1
C12-C24	**170**	**H**	100		ug/L		09/22/22 11:03	09/26/22 20:33	1

Client Sample ID: MW-13_20220907

Lab Sample ID: 580-117672-6

Date Collected: 09/07/22 13:40

Matrix: Water

Date Received: 09/08/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C24-C40	ND		250		ug/L		09/19/22 08:39	09/20/22 05:41	1
C24-C40	ND	H	260		ug/L		09/22/22 11:03	09/26/22 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*41*	*S1-*	*50 - 150*	*09/19/22 08:39*	*09/20/22 05:41*	*1*
o- terphenyl (Surr)	*37*	*S1-*	*50 - 150*	*09/22/22 11:03*	*09/26/22 20:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**45**		2.0		ug/L		09/21/22 12:11	09/23/22 03:19	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		09/15/22 14:57	09/16/22 16:07	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	**0.46**		0.40		mg/L			09/08/22 20:28	1
Sulfate	**1200**		30		mg/L			09/09/22 23:32	20
Nitrate as N	**120**	**H**	4.0		mg/L			09/09/22 23:32	20
Total Dissolved Solids	**2500**		240		mg/L			09/13/22 16:28	1

Client Sample ID: MW-13_PDB_20220907

Lab Sample ID: 580-117672-7

Date Collected: 09/07/22 13:10

Matrix: Water

Date Received: 09/08/22 09:30

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			09/20/22 14:37	1
Benzene	ND		1.0		ug/L			09/20/22 14:37	1
Toluene	ND		1.0		ug/L			09/20/22 14:37	1
Ethylbenzene	ND		1.0		ug/L			09/20/22 14:37	1
m-Xylene & p-Xylene	ND		5.0		ug/L			09/20/22 14:37	1
o-Xylene	ND		1.0		ug/L			09/20/22 14:37	1
Xylenes, Total	ND		1.0		ug/L			09/20/22 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/20/22 14:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*09/20/22 14:37*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*09/20/22 14:37*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/20/22 14:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C7-C12	ND		250		ug/L			09/13/22 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*50 - 150*		*09/13/22 20:56*	*1*

Client Sample ID: MW-15_2022097

Lab Sample ID: 580-117672-8

Date Collected: 09/07/22 12:10

Matrix: Water

Date Received: 09/08/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C24	ND		110		ug/L		09/19/22 08:39	09/20/22 06:04	1
C12-C24	ND	H	110		ug/L		09/22/22 11:03	09/26/22 20:56	1
C24-C40	ND		280		ug/L		09/19/22 08:39	09/20/22 06:04	1
C24-C40	ND	H	260		ug/L		09/22/22 11:03	09/26/22 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*38*	*S1-*	*50 - 150*	*09/19/22 08:39*	*09/20/22 06:04*	*1*
o- terphenyl (Surr)	*30*	*S1-*	*50 - 150*	*09/22/22 11:03*	*09/26/22 20:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**6.8**		2.0		ug/L		09/21/22 12:11	09/23/22 03:16	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		09/15/22 14:57	09/16/22 16:10	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			09/08/22 21:03	1
Sulfate	**25**		1.5		mg/L			09/08/22 21:03	1
Nitrate as N	ND		0.20		mg/L			09/08/22 21:03	1
Total Dissolved Solids	**360**		60		mg/L			09/13/22 16:28	1

Client Sample ID: MW-15_PDB_20220907

Lab Sample ID: 580-117672-9

Date Collected: 09/07/22 11:30

Matrix: Water

Date Received: 09/08/22 09:30

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			09/20/22 14:57	1
Benzene	ND		1.0		ug/L			09/20/22 14:57	1
Toluene	ND		1.0		ug/L			09/20/22 14:57	1
Ethylbenzene	ND		1.0		ug/L			09/20/22 14:57	1
m-Xylene & p-Xylene	ND		5.0		ug/L			09/20/22 14:57	1
o-Xylene	ND		1.0		ug/L			09/20/22 14:57	1
Xylenes, Total	ND		1.0		ug/L			09/20/22 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/20/22 14:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*09/20/22 14:57*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*09/20/22 14:57*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*09/20/22 14:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C7-C12	ND		250		ug/L			09/13/22 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*50 - 150*		*09/13/22 21:22*	*1*

Client Sample ID: MW-19_20220907

Lab Sample ID: 580-117672-10

Date Collected: 09/07/22 18:45

Matrix: Water

Date Received: 09/08/22 09:30

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			09/20/22 15:17	1
Benzene	ND		1.0		ug/L			09/20/22 15:17	1
Toluene	ND		1.0		ug/L			09/20/22 15:17	1
Ethylbenzene	ND		1.0		ug/L			09/20/22 15:17	1
m-Xylene & p-Xylene	ND		5.0		ug/L			09/20/22 15:17	1
o-Xylene	ND		1.0		ug/L			09/20/22 15:17	1
Xylenes, Total	ND		1.0		ug/L			09/20/22 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*09/20/22 15:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*09/20/22 15:17*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*09/20/22 15:17*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/20/22 15:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C7-C12	ND		250		ug/L			09/13/22 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*50 - 150*		*09/13/22 21:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C24	ND		100		ug/L		09/19/22 08:39	09/20/22 06:27	1
C24-C40	ND		260		ug/L		09/19/22 08:39	09/20/22 06:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*95*		*50 - 150*	*09/19/22 08:39*	*09/20/22 06:27*	*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		09/21/22 12:11	09/23/22 02:37	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		09/15/22 14:57	09/16/22 16:14	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			09/08/22 21:27	1
Sulfate	**93**		1.5		mg/L			09/08/22 21:27	1
Nitrate as N	**2.0**		0.20		mg/L			09/08/22 21:27	1
Total Dissolved Solids	**290**		30		mg/L			09/13/22 16:28	1

Client Sample ID: MW-20_20220907

Lab Sample ID: 580-117672-11

Date Collected: 09/07/22 09:05

Matrix: Water

Date Received: 09/08/22 09:30

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			09/20/22 11:59	1
Benzene	ND		1.0		ug/L			09/20/22 11:59	1

Client Sample ID: MW-20_20220907

Lab Sample ID: 580-117672-11

Date Collected: 09/07/22 09:05

Matrix: Water

Date Received: 09/08/22 09:30

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			09/20/22 11:59	1
Ethylbenzene	ND		1.0		ug/L			09/20/22 11:59	1
m-Xylene & p-Xylene	ND		5.0		ug/L			09/20/22 11:59	1
o-Xylene	ND		1.0		ug/L			09/20/22 11:59	1
Xylenes, Total	ND		1.0		ug/L			09/20/22 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*09/20/22 11:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*09/20/22 11:59*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*09/20/22 11:59*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*09/20/22 11:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C7-C12	ND		250		ug/L			09/13/22 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*102*		*50 - 150*		*09/13/22 22:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C24	ND	F1	110		ug/L		09/19/22 08:39	09/20/22 07:12	1
C24-C40	ND		270		ug/L		09/19/22 08:39	09/20/22 07:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*99*		*50 - 150*	*09/19/22 08:39*	*09/20/22 07:12*	*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		09/21/22 12:11	09/23/22 01:38	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		09/15/22 14:57	09/16/22 15:07	5

Client Sample ID: MW-21_20220907

Lab Sample ID: 580-117672-12

Date Collected: 09/07/22 07:10

Matrix: Water

Date Received: 09/08/22 09:30

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			09/20/22 15:37	1
Benzene	ND		1.0		ug/L			09/20/22 15:37	1
Toluene	ND		1.0		ug/L			09/20/22 15:37	1
Ethylbenzene	ND		1.0		ug/L			09/20/22 15:37	1
m-Xylene & p-Xylene	ND		5.0		ug/L			09/20/22 15:37	1
o-Xylene	ND		1.0		ug/L			09/20/22 15:37	1
Xylenes, Total	ND		1.0		ug/L			09/20/22 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*09/20/22 15:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*09/20/22 15:37*	*1*

Client Sample ID: MW-21_20220907

Lab Sample ID: 580-117672-12

Date Collected: 09/07/22 07:10

Matrix: Water

Date Received: 09/08/22 09:30

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*09/20/22 15:37*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*09/20/22 15:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C7-C12	ND		250		ug/L			09/13/22 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*50 - 150*		*09/13/22 23:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C24	ND		100		ug/L		09/19/22 08:39	09/20/22 08:20	1
C24-C40	ND		260		ug/L		09/19/22 08:39	09/20/22 08:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*96*		*50 - 150*	*09/19/22 08:39*	*09/20/22 08:20*	*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		09/21/22 12:11	09/23/22 02:41	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		09/15/22 14:57	09/16/22 17:00	5

Client Sample ID: B1-JPHC_20220907

Lab Sample ID: 580-117672-13

Date Collected: 09/07/22 14:30

Matrix: Water

Date Received: 09/08/22 09:30

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			09/20/22 15:57	1
Benzene	ND		1.0		ug/L			09/20/22 15:57	1
Toluene	ND		1.0		ug/L			09/20/22 15:57	1
Ethylbenzene	ND		1.0		ug/L			09/20/22 15:57	1
m-Xylene & p-Xylene	ND		5.0		ug/L			09/20/22 15:57	1
o-Xylene	ND		1.0		ug/L			09/20/22 15:57	1
Xylenes, Total	ND		1.0		ug/L			09/20/22 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/20/22 15:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*09/20/22 15:57*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*09/20/22 15:57*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/20/22 15:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C7-C12	ND		250		ug/L			09/13/22 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*50 - 150*		*09/13/22 23:55*	*1*

Client Sample ID: B1-JPHC_20220907

Lab Sample ID: 580-117672-13

Date Collected: 09/07/22 14:30

Matrix: Water

Date Received: 09/08/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C24	**700**		100		ug/L		09/19/22 08:39	09/20/22 08:42	1
C12-C24	**190**	**H**	100		ug/L		09/22/22 11:03	09/26/22 21:18	1
C24-C40	**400**		260		ug/L		09/19/22 08:39	09/20/22 08:42	1
C24-C40	ND	H	250		ug/L		09/22/22 11:03	09/26/22 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*30*	*S1-*	*50 - 150*	*09/19/22 08:39*	*09/20/22 08:42*	*1*
o- terphenyl (Surr)	*92*		*50 - 150*	*09/22/22 11:03*	*09/26/22 21:18*	*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		09/21/22 12:11	09/23/22 03:23	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		09/15/22 14:57	09/16/22 16:53	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			09/08/22 22:25	1
Sulfate	**250**		15		mg/L			09/09/22 23:44	10
Nitrate as N	**0.33**		0.20		mg/L			09/08/22 22:25	1
Total Dissolved Solids	**770**		120		mg/L			09/13/22 16:28	1

Client Sample ID: DUP-1_20220907

Lab Sample ID: 580-117672-14

Date Collected: 09/07/22 01:00

Matrix: Water

Date Received: 09/08/22 09:30

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			09/20/22 16:16	1
Benzene	ND		1.0		ug/L			09/20/22 16:16	1
Toluene	ND		1.0		ug/L			09/20/22 16:16	1
Ethylbenzene	ND		1.0		ug/L			09/20/22 16:16	1
m-Xylene & p-Xylene	ND		5.0		ug/L			09/20/22 16:16	1
o-Xylene	ND		1.0		ug/L			09/20/22 16:16	1
Xylenes, Total	ND		1.0		ug/L			09/20/22 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/20/22 16:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*09/20/22 16:16*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*09/20/22 16:16*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/20/22 16:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C7-C12	ND		250		ug/L			09/14/22 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*50 - 150*		*09/14/22 00:21*	*1*

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

Job ID: 580-117672-1

Client Sample ID: DUP-1_20220907

Date Collected: 09/07/22 01:00
Date Received: 09/08/22 09:30

Lab Sample ID: 580-117672-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C24	**2200**		100		ug/L		09/19/22 08:39	09/20/22 09:05	1
C12-C24	**220**	**H**	100		ug/L		09/22/22 11:03	09/26/22 21:41	1
C24-C40	**1600**		250		ug/L		09/19/22 08:39	09/20/22 09:05	1
C24-C40	ND	H	250		ug/L		09/22/22 11:03	09/26/22 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*19*	*S1-*	*50 - 150*	*09/19/22 08:39*	*09/20/22 09:05*	*1*
o- terphenyl (Surr)	*88*		*50 - 150*	*09/22/22 11:03*	*09/26/22 21:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**4.0**		2.0		ug/L		09/21/22 12:11	09/23/22 03:26	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		ug/L		09/15/22 14:57	09/16/22 16:56	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			09/08/22 22:49	1
Sulfate	**260**		7.5		mg/L			09/08/22 23:01	5
Nitrate as N	**0.34**		0.20		mg/L			09/08/22 22:49	1
Total Dissolved Solids	**770**		120		mg/L			09/13/22 16:28	1

Surrogate Summary

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

Job ID: 580-117672-1

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)
580-117672-1	MW-4_20220907	92	102	94	96
580-117672-2	MW-8_20220907	93	100	94	97
580-117672-3	MW-10_20220907	91	99	92	94
580-117672-5	MW-12_20220907	93	99	93	94
580-117672-7	MW-13_PDB_20220907	93	99	91	96
580-117672-9	MW-15_PDB_20220907	92	95	95	95
580-117672-10	MW-19_20220907	90	100	91	96
580-117672-11	MW-20_20220907	91	97	93	94
580-117672-11 MS	MW-20_20220907	93	99	96	94
580-117672-11 MSD	MW-20_20220907	97	100	94	92
580-117672-12	MW-21_20220907	91	102	92	95
580-117672-13	B1-JPHC_20220907	93	101	87	96
580-117672-14	DUP-1_20220907	92	105	90	96
LCS 410-297655/4	Lab Control Sample	95	100	96	97
MB 410-297655/6	Method Blank	97	98	95	93

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)
		TFT-F1
Lab Sample ID	Client Sample ID	(50-150)
580-117672-1	MW-4_20220907	98
580-117672-2	MW-8_20220907	100
580-117672-3	MW-10_20220907	102
580-117672-5	MW-12_20220907	101
580-117672-7	MW-13_PDB_20220907	101
580-117672-9	MW-15_PDB_20220907	101
580-117672-10	MW-19_20220907	101
580-117672-11	MW-20_20220907	102
580-117672-11 MS	MW-20_20220907	95
580-117672-11 MSD	MW-20_20220907	96
580-117672-12	MW-21_20220907	99
580-117672-13	B1-JPHC_20220907	100
580-117672-14	DUP-1_20220907	100
LCS 410-295234/6	Lab Control Sample	95
LCSD 410-295234/7	Lab Control Sample Dup	94
MB 410-295234/5	Method Blank	99

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Surrogate Summary

Client: Antea USA Inc.
Job ID: 580-117672-1
Project/Site: BP -ARCO 980

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

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		OTP							
Lab Sample ID	Client Sample ID	(50-150)							
580-117672-1	MW-4_20220907	98							
580-117672-2	MW-8_20220907	92							
580-117672-3	MW-10_20220907	95							
580-117672-3 DU	MW-10_20220907	96							
580-117672-4	MW-11_20220907	89							
580-117672-5	MW-12_20220907	88							
580-117672-6	MW-13_20220907	41 S1-							
580-117672-6	MW-13_20220907	37 S1-							
580-117672-8	MW-15_2022097	38 S1-							
580-117672-8	MW-15_2022097	30 S1-							
580-117672-10	MW-19_20220907	95							
580-117672-10 DU	MW-19_20220907	95							
580-117672-11	MW-20_20220907	99							
580-117672-11 MS	MW-20_20220907	93							
580-117672-11 MSD	MW-20_20220907	97							
580-117672-12	MW-21_20220907	96							
580-117672-13	B1-JPHC_20220907	30 S1-							
580-117672-13	B1-JPHC_20220907	92							
580-117672-14	DUP-1_20220907	19 S1-							
580-117672-14	DUP-1_20220907	88							
LCS 410-297210/2-A	Lab Control Sample	91							
LCS 410-298853/2-A	Lab Control Sample	92							
LCSD 410-297210/3-A	Lab Control Sample Dup	89							
LCSD 410-298853/3-A	Lab Control Sample Dup	93							
MB 410-297210/1-A	Method Blank	97							
MB 410-298853/1-A	Method Blank	94							

Surrogate Legend

OTP = o- terphenyl (Surr)

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

Lab Sample ID: MB 410-297655/6
Matrix: Water
Analysis Batch: 297655

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			09/20/22 10:38	1
Benzene	ND		1.0		ug/L			09/20/22 10:38	1
Toluene	ND		1.0		ug/L			09/20/22 10:38	1
Ethylbenzene	ND		1.0		ug/L			09/20/22 10:38	1
m-Xylene & p-Xylene	ND		5.0		ug/L			09/20/22 10:38	1
o-Xylene	ND		1.0		ug/L			09/20/22 10:38	1
Xylenes, Total	ND		1.0		ug/L			09/20/22 10:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/20/22 10:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/20/22 10:38*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*09/20/22 10:38*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 120*		*09/20/22 10:38*	*1*

Lab Sample ID: LCS 410-297655/4
Matrix: Water
Analysis Batch: 297655

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	20.0	20.1		ug/L		101	69 - 122
Benzene	20.0	20.8		ug/L		104	80 - 120
Toluene	20.0	19.7		ug/L		99	80 - 120
Ethylbenzene	20.0	19.2		ug/L		96	80 - 120
m-Xylene & p-Xylene	40.0	40.4		ug/L		101	80 - 120
o-Xylene	20.0	18.9		ug/L		94	80 - 120
Xylenes, Total	60.0	59.3		ug/L		99	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*

Lab Sample ID: 580-117672-11 MS
Matrix: Water
Analysis Batch: 297655

Client Sample ID: MW-20_20220907
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl tert-butyl ether	ND		20.0	20.4		ug/L		100	69 - 122
Benzene	ND		20.0	21.0		ug/L		105	80 - 120
Toluene	ND		20.0	21.1		ug/L		105	80 - 120
Ethylbenzene	ND		20.0	19.9		ug/L		100	80 - 120
m-Xylene & p-Xylene	ND		40.0	42.7		ug/L		107	80 - 120
o-Xylene	ND		20.0	19.7		ug/L		98	80 - 120
Xylenes, Total	ND		60.0	62.4		ug/L		104	80 - 120

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

Lab Sample ID: 580-117672-11 MS
Matrix: Water
Analysis Batch: 297655

Client Sample ID: MW-20_20220907
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	*93*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*80 - 120*

Lab Sample ID: 580-117672-11 MSD
Matrix: Water
Analysis Batch: 297655

Client Sample ID: MW-20_20220907
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		20.0	21.1		ug/L		103	69 - 122	3	30
Benzene	ND		20.0	21.2		ug/L		106	80 - 120	1	30
Toluene	ND		20.0	21.1		ug/L		106	80 - 120	0	30
Ethylbenzene	ND		20.0	20.3		ug/L		101	80 - 120	2	30
m-Xylene & p-Xylene	ND		40.0	42.5		ug/L		106	80 - 120	0	30
o-Xylene	ND		20.0	20.3		ug/L		101	80 - 120	3	30
Xylenes, Total	ND		60.0	62.8		ug/L		105	80 - 120	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	*97*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*80 - 120*

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

Lab Sample ID: MB 410-295234/5
Matrix: Water
Analysis Batch: 295234

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C7-C12	ND		250		ug/L			09/13/22 13:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	*99*		*50 - 150*		*09/13/22 13:17*	*1*

Lab Sample ID: LCS 410-295234/6
Matrix: Water
Analysis Batch: 295234

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C7-C12			1100	1240		ug/L		113	64 - 131		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	*95*		*50 - 150*

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

Lab Sample ID: LCSD 410-295234/7
Matrix: Water
Analysis Batch: 295234

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
C7-C12			1100	1220		ug/L		111	64 - 131	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*94*		*50 - 150*

Lab Sample ID: 580-117672-11 MS
Matrix: Water
Analysis Batch: 295234

Client Sample ID: MW-20_20220907
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C7-C12	ND		1120	1300		ug/L		113	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*95*		*50 - 150*

Lab Sample ID: 580-117672-11 MSD
Matrix: Water
Analysis Batch: 295234

Client Sample ID: MW-20_20220907
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C7-C12	ND		1120	1320		ug/L		114	80 - 120	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*96*		*50 - 150*

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

Lab Sample ID: MB 410-297210/1-A
Matrix: Water
Analysis Batch: 297417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 297210

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C24	ND		100		ug/L		09/19/22 08:39	09/20/22 02:18	1
C24-C40	ND		250		ug/L		09/19/22 08:39	09/20/22 02:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*97*		*50 - 150*	*09/19/22 08:39*	*09/20/22 02:18*	*1*

Lab Sample ID: LCS 410-297210/2-A
Matrix: Water
Analysis Batch: 297417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 297210

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C12-C24			600	273		ug/L		45	14 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o- terphenyl (Surr)	*91*		*50 - 150*

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

Lab Sample ID: LCSD 410-297210/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297417 — **Prep Batch: 297210**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C24			600	259		ug/L		43	14 - 115	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o- terphenyl (Surr)	*89*		*50 - 150*

Lab Sample ID: 580-117672-11 MS — **Client Sample ID: MW-20_20220907**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297417 — **Prep Batch: 297210**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C12-C24	ND	F1	632	ND	F1	ug/L		0.3	30 - 115		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o- terphenyl (Surr)	*93*		*50 - 150*

Lab Sample ID: 580-117672-11 MSD — **Client Sample ID: MW-20_20220907**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297417 — **Prep Batch: 297210**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C24	ND	F1	646	ND	F1	ug/L		0.7	30 - 115	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o- terphenyl (Surr)	*97*		*50 - 150*

Lab Sample ID: 580-117672-3 DU — **Client Sample ID: MW-10_20220907**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297417 — **Prep Batch: 297210**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
C12-C24	ND			ND		ug/L				NC	20
C24-C40	ND			ND		ug/L				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
o- terphenyl (Surr)	*96*		*50 - 150*

Lab Sample ID: 580-117672-10 DU — **Client Sample ID: MW-19_20220907**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297417 — **Prep Batch: 297210**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
C12-C24	ND			ND		ug/L				NC	20
C24-C40	ND			ND		ug/L				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
o- terphenyl (Surr)	*95*		*50 - 150*

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

Lab Sample ID: MB 410-298853/1-A
Matrix: Water
Analysis Batch: 299986

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 298853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C24	ND		100		ug/L		09/22/22 11:03	09/26/22 19:25	1
C24-C40	ND		250		ug/L		09/22/22 11:03	09/26/22 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*94*		*50 - 150*	*09/22/22 11:03*	*09/26/22 19:25*	*1*

Lab Sample ID: LCS 410-298853/2-A
Matrix: Water
Analysis Batch: 299986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 298853

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C12-C24			600	231		ug/L		38	14 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o- terphenyl (Surr)	*92*		*50 - 150*

Lab Sample ID: LCSD 410-298853/3-A
Matrix: Water
Analysis Batch: 299986

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 298853

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C24			600	237		ug/L		40	14 - 115	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o- terphenyl (Surr)	*93*		*50 - 150*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-404015/24-A
Matrix: Water
Analysis Batch: 404206

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 404015

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.40		ug/L		09/15/22 14:57	09/16/22 15:04	1

Lab Sample ID: LCS 580-404015/25-A
Matrix: Water
Analysis Batch: 404206

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 404015

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

Lab Sample ID: LCSD 580-404015/26-A
Matrix: Water
Analysis Batch: 404206

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 404015

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead			1000	1030		ug/L		103	80 - 120	0	20

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

Lab Sample ID: MB 580-404526/22-A
Matrix: Water
Analysis Batch: 404910

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 404526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.40		ug/L		09/21/22 12:11	09/23/22 01:31	1

Lab Sample ID: LCS 580-404526/23-A
Matrix: Water
Analysis Batch: 404910

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 404526

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Lead			1000	1020		ug/L		102	80 - 120		

Lab Sample ID: LCSD 580-404526/24-A
Matrix: Water
Analysis Batch: 404910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 404526

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

Lab Sample ID: 580-117672-11 MS
Matrix: Water
Analysis Batch: 404910

Client Sample ID: MW-20_20220907
Prep Type: Total Recoverable
Prep Batch: 404526

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: 580-117672-11 MSD
Matrix: Water
Analysis Batch: 404910

Client Sample ID: MW-20_20220907
Prep Type: Total Recoverable
Prep Batch: 404526

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1000	1060		ug/L		106	80 - 120	3	20

Lab Sample ID: 580-117672-11 DU
Matrix: Water
Analysis Batch: 404910

Client Sample ID: MW-20_20220907
Prep Type: Total Recoverable
Prep Batch: 404526

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

Lab Sample ID: 580-117672-1 MS
Matrix: Water
Analysis Batch: 404206

Client Sample ID: MW-4_20220907
Prep Type: Dissolved
Prep Batch: 404015

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Lead	ND		1000	1000		ug/L		100	80 - 120		

Lab Sample ID: 580-117672-1 MSD
Matrix: Water
Analysis Batch: 404206

Client Sample ID: MW-4_20220907
Prep Type: Dissolved
Prep Batch: 404015

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1000	1060		ug/L		106	80 - 120	6	20

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

Job ID: 580-117672-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 580-117672-11 MS
Matrix: Water
Analysis Batch: 404206

Client Sample ID: MW-20_20220907
Prep Type: Dissolved
Prep Batch: 404015

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

Lab Sample ID: 580-117672-11 MSD
Matrix: Water
Analysis Batch: 404206

Client Sample ID: MW-20_20220907
Prep Type: Dissolved
Prep Batch: 404015

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1000	1080		ug/L		108	80 - 120	1	20

Lab Sample ID: 580-117672-11 DU
Matrix: Water
Analysis Batch: 404206

Client Sample ID: MW-20_20220907
Prep Type: Dissolved
Prep Batch: 404015

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 580-403598/30
Matrix: Water
Analysis Batch: 403598

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			09/08/22 17:21	1

Lab Sample ID: LCS 580-403598/31
Matrix: Water
Analysis Batch: 403598

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	51.6		mg/L		103	90 - 110

Lab Sample ID: LCSD 580-403598/32
Matrix: Water
Analysis Batch: 403598

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	51.5		mg/L		103	90 - 110	0	15

Lab Sample ID: 580-117672-10 MS
Matrix: Water
Analysis Batch: 403598

Client Sample ID: MW-19_20220907
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	93		50.0	138		mg/L		90	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 580-117672-10 MSD — **Client Sample ID: MW-19_20220907**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403598

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	93		50.0	138		mg/L		91	90 - 110	0	15

Lab Sample ID: MB 580-403604/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.40		mg/L			09/08/22 17:21	1
Nitrate as N	ND		0.20		mg/L			09/08/22 17:21	1

Lab Sample ID: LCS 580-403604/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403604

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	5.07		mg/L		101	90 - 110

Lab Sample ID: LCSD 580-403604/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403604

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	5.00	5.07		mg/L		101	90 - 110	1	15
Nitrate as N	5.00	5.06		mg/L		101	90 - 110	0	15

Lab Sample ID: 580-117672-10 MS — **Client Sample ID: MW-19_20220907**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	ND		5.00	5.02		mg/L		100	90 - 110
Nitrate as N	2.0		5.00	6.94		mg/L		99	90 - 110

Lab Sample ID: 580-117672-10 MSD — **Client Sample ID: MW-19_20220907**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 403604

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	5.05		mg/L		101	90 - 110	1	15
Nitrate as N	2.0		5.00	6.95		mg/L		99	90 - 110	0	15

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

Lab Sample ID: MB 410-295455/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 295455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30		mg/L			09/13/22 16:28	1

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

Lab Sample ID: LCS 410-295455/2
Matrix: Water
Analysis Batch: 295455

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	200	198		mg/L		99	72 - 127

Lab Sample ID: 580-117672-13 MS
Matrix: Water
Analysis Batch: 295455

Client Sample ID: B1-JPHC_20220907
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	770		800	1550		mg/L		97	72 - 127

Lab Sample ID: 580-117672-6 DU
Matrix: Water
Analysis Batch: 295455

Client Sample ID: MW-13_20220907
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	2500		2480		mg/L		0.5	5

Lab Sample ID: 580-117672-13 DU
Matrix: Water
Analysis Batch: 295455

Client Sample ID: B1-JPHC_20220907
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	770		770		mg/L		0.5	5

GC/MS VOA

Analysis Batch: 297655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-117672-1	MW-4_20220907	Total/NA	Water	8260D	
580-117672-2	MW-8_20220907	Total/NA	Water	8260D	
580-117672-3	MW-10_20220907	Total/NA	Water	8260D	
580-117672-5	MW-12_20220907	Total/NA	Water	8260D	
580-117672-7	MW-13_PDB_20220907	Total/NA	Water	8260D	
580-117672-9	MW-15_PDB_20220907	Total/NA	Water	8260D	
580-117672-10	MW-19_20220907	Total/NA	Water	8260D	
580-117672-11	MW-20_20220907	Total/NA	Water	8260D	
580-117672-12	MW-21_20220907	Total/NA	Water	8260D	
580-117672-13	B1-JPHC_20220907	Total/NA	Water	8260D	
580-117672-14	DUP-1_20220907	Total/NA	Water	8260D	
MB 410-297655/6	Method Blank	Total/NA	Water	8260D	
LCS 410-297655/4	Lab Control Sample	Total/NA	Water	8260D	
580-117672-11 MS	MW-20_20220907	Total/NA	Water	8260D	
580-117672-11 MSD	MW-20_20220907	Total/NA	Water	8260D	

GC VOA

Analysis Batch: 295234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-117672-1	MW-4_20220907	Total/NA	Water	NWTPH-Gx	
580-117672-2	MW-8_20220907	Total/NA	Water	NWTPH-Gx	
580-117672-3	MW-10_20220907	Total/NA	Water	NWTPH-Gx	
580-117672-5	MW-12_20220907	Total/NA	Water	NWTPH-Gx	
580-117672-7	MW-13_PDB_20220907	Total/NA	Water	NWTPH-Gx	
580-117672-9	MW-15_PDB_20220907	Total/NA	Water	NWTPH-Gx	
580-117672-10	MW-19_20220907	Total/NA	Water	NWTPH-Gx	
580-117672-11	MW-20_20220907	Total/NA	Water	NWTPH-Gx	
580-117672-12	MW-21_20220907	Total/NA	Water	NWTPH-Gx	
580-117672-13	B1-JPHC_20220907	Total/NA	Water	NWTPH-Gx	
580-117672-14	DUP-1_20220907	Total/NA	Water	NWTPH-Gx	
MB 410-295234/5	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 410-295234/6	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 410-295234/7	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
580-117672-11 MS	MW-20_20220907	Total/NA	Water	NWTPH-Gx	
580-117672-11 MSD	MW-20_20220907	Total/NA	Water	NWTPH-Gx	

GC Semi VOA

Prep Batch: 297210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-117672-1	MW-4_20220907	Total/NA	Water	3510C	
580-117672-2	MW-8_20220907	Total/NA	Water	3510C	
580-117672-3	MW-10_20220907	Total/NA	Water	3510C	
580-117672-4	MW-11_20220907	Total/NA	Water	3510C	
580-117672-5	MW-12_20220907	Total/NA	Water	3510C	
580-117672-6	MW-13_20220907	Total/NA	Water	3510C	
580-117672-8	MW-15_2022097	Total/NA	Water	3510C	
580-117672-10	MW-19_20220907	Total/NA	Water	3510C	
580-117672-11	MW-20_20220907	Total/NA	Water	3510C	
580-117672-12	MW-21_20220907	Total/NA	Water	3510C	
580-117672-13	B1-JPHC_20220907	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 297210 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-117672-14	DUP-1_20220907	Total/NA	Water	3510C	
MB 410-297210/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-297210/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-297210/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
580-117672-11 MS	MW-20_20220907	Total/NA	Water	3510C	
580-117672-11 MSD	MW-20_20220907	Total/NA	Water	3510C	
580-117672-3 DU	MW-10_20220907	Total/NA	Water	3510C	
580-117672-10 DU	MW-19_20220907	Total/NA	Water	3510C	

Analysis Batch: 297417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-117672-1	MW-4_20220907	Total/NA	Water	NWTPH-Dx	297210
580-117672-2	MW-8_20220907	Total/NA	Water	NWTPH-Dx	297210
580-117672-3	MW-10_20220907	Total/NA	Water	NWTPH-Dx	297210
580-117672-4	MW-11_20220907	Total/NA	Water	NWTPH-Dx	297210
580-117672-5	MW-12_20220907	Total/NA	Water	NWTPH-Dx	297210
580-117672-6	MW-13_20220907	Total/NA	Water	NWTPH-Dx	297210
580-117672-8	MW-15_2022097	Total/NA	Water	NWTPH-Dx	297210
580-117672-10	MW-19_20220907	Total/NA	Water	NWTPH-Dx	297210
580-117672-11	MW-20_20220907	Total/NA	Water	NWTPH-Dx	297210
580-117672-12	MW-21_20220907	Total/NA	Water	NWTPH-Dx	297210
580-117672-13	B1-JPHC_20220907	Total/NA	Water	NWTPH-Dx	297210
580-117672-14	DUP-1_20220907	Total/NA	Water	NWTPH-Dx	297210
MB 410-297210/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	297210
LCS 410-297210/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	297210
LCSD 410-297210/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	297210
580-117672-11 MS	MW-20_20220907	Total/NA	Water	NWTPH-Dx	297210
580-117672-11 MSD	MW-20_20220907	Total/NA	Water	NWTPH-Dx	297210
580-117672-3 DU	MW-10_20220907	Total/NA	Water	NWTPH-Dx	297210
580-117672-10 DU	MW-19_20220907	Total/NA	Water	NWTPH-Dx	297210

Prep Batch: 298853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-117672-6	MW-13_20220907	Total/NA	Water	3510C	
580-117672-8	MW-15_2022097	Total/NA	Water	3510C	
580-117672-13	B1-JPHC_20220907	Total/NA	Water	3510C	
580-117672-14	DUP-1_20220907	Total/NA	Water	3510C	
MB 410-298853/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-298853/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-298853/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 299986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-117672-6	MW-13_20220907	Total/NA	Water	NWTPH-Dx	298853
580-117672-8	MW-15_2022097	Total/NA	Water	NWTPH-Dx	298853
580-117672-13	B1-JPHC_20220907	Total/NA	Water	NWTPH-Dx	298853
580-117672-14	DUP-1_20220907	Total/NA	Water	NWTPH-Dx	298853
MB 410-298853/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	298853
LCS 410-298853/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	298853
LCSD 410-298853/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	298853

Metals

Filtration Batch: 403881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-117672-1	MW-4_20220907	Dissolved	Water	FILTRATION	
580-117672-2	MW-8_20220907	Dissolved	Water	FILTRATION	
580-117672-3	MW-10_20220907	Dissolved	Water	FILTRATION	
580-117672-5	MW-12_20220907	Dissolved	Water	FILTRATION	
580-117672-6	MW-13_20220907	Dissolved	Water	FILTRATION	
580-117672-8	MW-15_2022097	Dissolved	Water	FILTRATION	
580-117672-10	MW-19_20220907	Dissolved	Water	FILTRATION	
580-117672-11	MW-20_20220907	Dissolved	Water	FILTRATION	
580-117672-12	MW-21_20220907	Dissolved	Water	FILTRATION	
580-117672-13	B1-JPHC_20220907	Dissolved	Water	FILTRATION	
580-117672-14	DUP-1_20220907	Dissolved	Water	FILTRATION	
580-117672-1 MS	MW-4_20220907	Dissolved	Water	FILTRATION	
580-117672-1 MSD	MW-4_20220907	Dissolved	Water	FILTRATION	
580-117672-11 MS	MW-20_20220907	Dissolved	Water	FILTRATION	
580-117672-11 MSD	MW-20_20220907	Dissolved	Water	FILTRATION	
580-117672-11 DU	MW-20_20220907	Dissolved	Water	FILTRATION	

Prep Batch: 404015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-117672-1	MW-4_20220907	Dissolved	Water	3005A	403881
580-117672-2	MW-8_20220907	Dissolved	Water	3005A	403881
580-117672-3	MW-10_20220907	Dissolved	Water	3005A	403881
580-117672-5	MW-12_20220907	Dissolved	Water	3005A	403881
580-117672-6	MW-13_20220907	Dissolved	Water	3005A	403881
580-117672-8	MW-15_2022097	Dissolved	Water	3005A	403881
580-117672-10	MW-19_20220907	Dissolved	Water	3005A	403881
580-117672-11	MW-20_20220907	Dissolved	Water	3005A	403881
580-117672-12	MW-21_20220907	Dissolved	Water	3005A	403881
580-117672-13	B1-JPHC_20220907	Dissolved	Water	3005A	403881
580-117672-14	DUP-1_20220907	Dissolved	Water	3005A	403881
MB 580-404015/24-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-404015/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-404015/26-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
580-117672-1 MS	MW-4_20220907	Dissolved	Water	3005A	403881
580-117672-1 MSD	MW-4_20220907	Dissolved	Water	3005A	403881
580-117672-11 MS	MW-20_20220907	Dissolved	Water	3005A	403881
580-117672-11 MSD	MW-20_20220907	Dissolved	Water	3005A	403881
580-117672-11 DU	MW-20_20220907	Dissolved	Water	3005A	403881

Analysis Batch: 404206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-117672-1	MW-4_20220907	Dissolved	Water	6020B	404015
580-117672-2	MW-8_20220907	Dissolved	Water	6020B	404015
580-117672-3	MW-10_20220907	Dissolved	Water	6020B	404015
580-117672-5	MW-12_20220907	Dissolved	Water	6020B	404015
580-117672-6	MW-13_20220907	Dissolved	Water	6020B	404015
580-117672-8	MW-15_2022097	Dissolved	Water	6020B	404015
580-117672-10	MW-19_20220907	Dissolved	Water	6020B	404015
580-117672-11	MW-20_20220907	Dissolved	Water	6020B	404015
580-117672-12	MW-21_20220907	Dissolved	Water	6020B	404015
580-117672-13	B1-JPHC_20220907	Dissolved	Water	6020B	404015

Metals (Continued)

Analysis Batch: 404206 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-117672-14	DUP-1_20220907	Dissolved	Water	6020B	404015
MB 580-404015/24-A	Method Blank	Total Recoverable	Water	6020B	404015
LCS 580-404015/25-A	Lab Control Sample	Total Recoverable	Water	6020B	404015
LCSD 580-404015/26-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	404015
580-117672-1 MS	MW-4_20220907	Dissolved	Water	6020B	404015
580-117672-1 MSD	MW-4_20220907	Dissolved	Water	6020B	404015
580-117672-11 MS	MW-20_20220907	Dissolved	Water	6020B	404015
580-117672-11 MSD	MW-20_20220907	Dissolved	Water	6020B	404015
580-117672-11 DU	MW-20_20220907	Dissolved	Water	6020B	404015

Prep Batch: 404526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-117672-1	MW-4_20220907	Total Recoverable	Water	3005A	
580-117672-2	MW-8_20220907	Total Recoverable	Water	3005A	
580-117672-3	MW-10_20220907	Total Recoverable	Water	3005A	
580-117672-5	MW-12_20220907	Total Recoverable	Water	3005A	
580-117672-6	MW-13_20220907	Total Recoverable	Water	3005A	
580-117672-8	MW-15_2022097	Total Recoverable	Water	3005A	
580-117672-10	MW-19_20220907	Total Recoverable	Water	3005A	
580-117672-11	MW-20_20220907	Total Recoverable	Water	3005A	
580-117672-12	MW-21_20220907	Total Recoverable	Water	3005A	
580-117672-13	B1-JPHC_20220907	Total Recoverable	Water	3005A	
580-117672-14	DUP-1_20220907	Total Recoverable	Water	3005A	
MB 580-404526/22-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-404526/23-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-404526/24-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
580-117672-11 MS	MW-20_20220907	Total Recoverable	Water	3005A	
580-117672-11 MSD	MW-20_20220907	Total Recoverable	Water	3005A	
580-117672-11 DU	MW-20_20220907	Total Recoverable	Water	3005A	

Analysis Batch: 404910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-117672-1	MW-4_20220907	Total Recoverable	Water	6020B	404526
580-117672-2	MW-8_20220907	Total Recoverable	Water	6020B	404526
580-117672-3	MW-10_20220907	Total Recoverable	Water	6020B	404526
580-117672-5	MW-12_20220907	Total Recoverable	Water	6020B	404526
580-117672-6	MW-13_20220907	Total Recoverable	Water	6020B	404526
580-117672-8	MW-15_2022097	Total Recoverable	Water	6020B	404526
580-117672-10	MW-19_20220907	Total Recoverable	Water	6020B	404526
580-117672-11	MW-20_20220907	Total Recoverable	Water	6020B	404526
580-117672-12	MW-21_20220907	Total Recoverable	Water	6020B	404526
580-117672-13	B1-JPHC_20220907	Total Recoverable	Water	6020B	404526
580-117672-14	DUP-1_20220907	Total Recoverable	Water	6020B	404526
MB 580-404526/22-A	Method Blank	Total Recoverable	Water	6020B	404526
LCS 580-404526/23-A	Lab Control Sample	Total Recoverable	Water	6020B	404526
LCSD 580-404526/24-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	404526
580-117672-11 MS	MW-20_20220907	Total Recoverable	Water	6020B	404526
580-117672-11 MSD	MW-20_20220907	Total Recoverable	Water	6020B	404526
580-117672-11 DU	MW-20_20220907	Total Recoverable	Water	6020B	404526

General Chemistry

Analysis Batch: 295455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-117672-1	MW-4_20220907	Total/NA	Water	SM 2540C	
580-117672-2	MW-8_20220907	Total/NA	Water	SM 2540C	
580-117672-3	MW-10_20220907	Total/NA	Water	SM 2540C	
580-117672-5	MW-12_20220907	Total/NA	Water	SM 2540C	
580-117672-6	MW-13_20220907	Total/NA	Water	SM 2540C	
580-117672-8	MW-15_2022097	Total/NA	Water	SM 2540C	
580-117672-10	MW-19_20220907	Total/NA	Water	SM 2540C	
580-117672-13	B1-JPHC_20220907	Total/NA	Water	SM 2540C	
580-117672-14	DUP-1_20220907	Total/NA	Water	SM 2540C	
MB 410-295455/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 410-295455/2	Lab Control Sample	Total/NA	Water	SM 2540C	
580-117672-13 MS	B1-JPHC_20220907	Total/NA	Water	SM 2540C	
580-117672-6 DU	MW-13_20220907	Total/NA	Water	SM 2540C	
580-117672-13 DU	B1-JPHC_20220907	Total/NA	Water	SM 2540C	

Analysis Batch: 403598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-117672-1	MW-4_20220907	Total/NA	Water	300.0	
580-117672-2	MW-8_20220907	Total/NA	Water	300.0	
580-117672-3	MW-10_20220907	Total/NA	Water	300.0	
580-117672-5	MW-12_20220907	Total/NA	Water	300.0	
580-117672-6	MW-13_20220907	Total/NA	Water	300.0	
580-117672-8	MW-15_2022097	Total/NA	Water	300.0	
580-117672-10	MW-19_20220907	Total/NA	Water	300.0	
580-117672-13	B1-JPHC_20220907	Total/NA	Water	300.0	
580-117672-14	DUP-1_20220907	Total/NA	Water	300.0	
MB 580-403598/30	Method Blank	Total/NA	Water	300.0	
LCS 580-403598/31	Lab Control Sample	Total/NA	Water	300.0	
LCSD 580-403598/32	Lab Control Sample Dup	Total/NA	Water	300.0	
580-117672-10 MS	MW-19_20220907	Total/NA	Water	300.0	
580-117672-10 MSD	MW-19_20220907	Total/NA	Water	300.0	

Analysis Batch: 403604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-117672-1	MW-4_20220907	Total/NA	Water	300.0	
580-117672-2	MW-8_20220907	Total/NA	Water	300.0	
580-117672-3	MW-10_20220907	Total/NA	Water	300.0	
580-117672-5	MW-12_20220907	Total/NA	Water	300.0	
580-117672-6	MW-13_20220907	Total/NA	Water	300.0	
580-117672-6	MW-13_20220907	Total/NA	Water	300.0	
580-117672-8	MW-15_2022097	Total/NA	Water	300.0	
580-117672-10	MW-19_20220907	Total/NA	Water	300.0	
580-117672-13	B1-JPHC_20220907	Total/NA	Water	300.0	
580-117672-14	DUP-1_20220907	Total/NA	Water	300.0	
MB 580-403604/3	Method Blank	Total/NA	Water	300.0	
LCS 580-403604/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 580-403604/5	Lab Control Sample Dup	Total/NA	Water	300.0	
580-117672-10 MS	MW-19_20220907	Total/NA	Water	300.0	
580-117672-10 MSD	MW-19_20220907	Total/NA	Water	300.0	

Lab Chronicle

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

Job ID: 580-117672-1

Client Sample ID: MW-4_20220907

Lab Sample ID: 580-117672-1

Date Collected: 09/07/22 10:20

Matrix: Water

Date Received: 09/08/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	297655	ULCP	ELLE	09/20/22 13:19
Total/NA	Analysis	NWTPH-Gx		1	295234	NND8	ELLE	09/13/22 18:23
Total/NA	Prep	3510C			297210	YDF5	ELLE	09/19/22 08:39
Total/NA	Analysis	NWTPH-Dx		1	297417	UHEW	ELLE	09/20/22 03:26
Dissolved	Filtration	FILTRATION			403881	CA	EET SEA	09/14/22 13:58
Dissolved	Prep	3005A			404015	CA	EET SEA	09/15/22 14:57
Dissolved	Analysis	6020B		5	404206	FCW	EET SEA	09/16/22 15:46
Total Recoverable	Prep	3005A			404526	ABP	EET SEA	09/21/22 12:11
Total Recoverable	Analysis	6020B		5	404910	TMH	EET SEA	09/23/22 01:34
Total/NA	Analysis	300.0		1	403598	JHR	EET SEA	09/08/22 18:54
Total/NA	Analysis	300.0		1	403604	JHR	EET SEA	09/08/22 18:54
Total/NA	Analysis	SM 2540C		1	295455	UOCA	ELLE	09/13/22 16:28

Client Sample ID: MW-8_20220907

Lab Sample ID: 580-117672-2

Date Collected: 09/07/22 17:35

Matrix: Water

Date Received: 09/08/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	297655	ULCP	ELLE	09/20/22 13:39
Total/NA	Analysis	NWTPH-Gx		1	295234	NND8	ELLE	09/13/22 19:40
Total/NA	Prep	3510C			297210	YDF5	ELLE	09/19/22 08:39
Total/NA	Analysis	NWTPH-Dx		1	297417	UHEW	ELLE	09/20/22 03:48
Dissolved	Filtration	FILTRATION			403881	CA	EET SEA	09/14/22 13:58
Dissolved	Prep	3005A			404015	CA	EET SEA	09/15/22 14:57
Dissolved	Analysis	6020B		5	404206	FCW	EET SEA	09/16/22 15:56
Total Recoverable	Prep	3005A			404526	ABP	EET SEA	09/21/22 12:11
Total Recoverable	Analysis	6020B		5	404910	TMH	EET SEA	09/23/22 02:30
Total/NA	Analysis	300.0		1	403604	JHR	EET SEA	09/08/22 19:41
Total/NA	Analysis	300.0		2	403598	JHR	EET SEA	09/09/22 23:21
Total/NA	Analysis	SM 2540C		1	295455	UOCA	ELLE	09/13/22 16:28

Client Sample ID: MW-10_20220907

Lab Sample ID: 580-117672-3

Date Collected: 09/07/22 16:30

Matrix: Water

Date Received: 09/08/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	297655	ULCP	ELLE	09/20/22 13:58
Total/NA	Analysis	NWTPH-Gx		1	295234	NND8	ELLE	09/13/22 20:05
Total/NA	Prep	3510C			297210	YDF5	ELLE	09/19/22 08:39
Total/NA	Analysis	NWTPH-Dx		1	297417	UHEW	ELLE	09/20/22 04:11
Dissolved	Filtration	FILTRATION			403881	CA	EET SEA	09/14/22 13:58
Dissolved	Prep	3005A			404015	CA	EET SEA	09/15/22 14:57
Dissolved	Analysis	6020B		5	404206	FCW	EET SEA	09/16/22 16:00

Client Sample ID: MW-10_20220907

Lab Sample ID: 580-117672-3

Date Collected: 09/07/22 16:30

Matrix: Water

Date Received: 09/08/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			404526	ABP	EET SEA	09/21/22 12:11
Total Recoverable	Analysis	6020B		5	404910	TMH	EET SEA	09/23/22 02:34
Total/NA	Analysis	300.0		1	403598	JHR	EET SEA	09/08/22 19:53
Total/NA	Analysis	300.0		1	403604	JHR	EET SEA	09/08/22 19:53
Total/NA	Analysis	SM 2540C		1	295455	UOCA	ELLE	09/13/22 16:28

Client Sample ID: MW-11_20220907

Lab Sample ID: 580-117672-4

Date Collected: 09/07/22 08:30

Matrix: Water

Date Received: 09/08/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			297210	YDF5	ELLE	09/19/22 08:39
Total/NA	Analysis	NWTPH-Dx		1	297417	UHEW	ELLE	09/20/22 04:56

Client Sample ID: MW-12_20220907

Lab Sample ID: 580-117672-5

Date Collected: 09/07/22 15:45

Matrix: Water

Date Received: 09/08/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	297655	ULCP	ELLE	09/20/22 14:18
Total/NA	Analysis	NWTPH-Gx		1	295234	NND8	ELLE	09/13/22 20:31
Total/NA	Prep	3510C			297210	YDF5	ELLE	09/19/22 08:39
Total/NA	Analysis	NWTPH-Dx		1	297417	UHEW	ELLE	09/20/22 05:19
Dissolved	Filtration	FILTRATION			403881	CA	EET SEA	09/14/22 13:58
Dissolved	Prep	3005A			404015	CA	EET SEA	09/15/22 14:57
Dissolved	Analysis	6020B		5	404206	FCW	EET SEA	09/16/22 16:03
Total Recoverable	Prep	3005A			404526	ABP	EET SEA	09/21/22 12:11
Total Recoverable	Analysis	6020B		5	404910	TMH	EET SEA	09/23/22 03:02
Total/NA	Analysis	300.0		1	403598	JHR	EET SEA	09/08/22 20:05
Total/NA	Analysis	300.0		1	403604	JHR	EET SEA	09/08/22 20:05
Total/NA	Analysis	SM 2540C		1	295455	UOCA	ELLE	09/13/22 16:28

Client Sample ID: MW-13_20220907

Lab Sample ID: 580-117672-6

Date Collected: 09/07/22 13:40

Matrix: Water

Date Received: 09/08/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			297210	YDF5	ELLE	09/19/22 08:39
Total/NA	Analysis	NWTPH-Dx		1	297417	UHEW	ELLE	09/20/22 05:41
Total/NA	Prep	3510C			298853	YDF5	ELLE	09/22/22 11:03
Total/NA	Analysis	NWTPH-Dx		1	299986	IUSB	ELLE	09/26/22 20:33
Dissolved	Filtration	FILTRATION			403881	CA	EET SEA	09/14/22 13:58
Dissolved	Prep	3005A			404015	CA	EET SEA	09/15/22 14:57
Dissolved	Analysis	6020B		5	404206	FCW	EET SEA	09/16/22 16:07

Lab Chronicle

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

Job ID: 580-117672-1

Client Sample ID: MW-13_20220907

Lab Sample ID: 580-117672-6

Date Collected: 09/07/22 13:40
Matrix: Water
Date Received: 09/08/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			404526	ABP	EET SEA	09/21/22 12:11
Total Recoverable	Analysis	6020B		5	404910	TMH	EET SEA	09/23/22 03:19
Total/NA	Analysis	300.0		1	403604	JHR	EET SEA	09/08/22 20:28
Total/NA	Analysis	300.0		20	403598	JHR	EET SEA	09/09/22 23:32
Total/NA	Analysis	300.0		20	403604	JHR	EET SEA	09/09/22 23:32
Total/NA	Analysis	SM 2540C		1	295455	UOCA	ELLE	09/13/22 16:28

Client Sample ID: MW-13_PDB_20220907

Lab Sample ID: 580-117672-7

Date Collected: 09/07/22 13:10
Matrix: Water
Date Received: 09/08/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	297655	ULCP	ELLE	09/20/22 14:37
Total/NA	Analysis	NWTPH-Gx		1	295234	NND8	ELLE	09/13/22 20:56

Client Sample ID: MW-15_2022097

Lab Sample ID: 580-117672-8

Date Collected: 09/07/22 12:10
Matrix: Water
Date Received: 09/08/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			297210	YDF5	ELLE	09/19/22 08:39
Total/NA	Analysis	NWTPH-Dx		1	297417	UHEW	ELLE	09/20/22 06:04
Total/NA	Prep	3510C			298853	YDF5	ELLE	09/22/22 11:03
Total/NA	Analysis	NWTPH-Dx		1	299986	IUSB	ELLE	09/26/22 20:56
Dissolved	Filtration	FILTRATION			403881	CA	EET SEA	09/14/22 13:58
Dissolved	Prep	3005A			404015	CA	EET SEA	09/15/22 14:57
Dissolved	Analysis	6020B		5	404206	FCW	EET SEA	09/16/22 16:10
Total Recoverable	Prep	3005A			404526	ABP	EET SEA	09/21/22 12:11
Total Recoverable	Analysis	6020B		5	404910	TMH	EET SEA	09/23/22 03:16
Total/NA	Analysis	300.0		1	403598	JHR	EET SEA	09/08/22 21:03
Total/NA	Analysis	300.0		1	403604	JHR	EET SEA	09/08/22 21:03
Total/NA	Analysis	SM 2540C		1	295455	UOCA	ELLE	09/13/22 16:28

Client Sample ID: MW-15_PDB_20220907

Lab Sample ID: 580-117672-9

Date Collected: 09/07/22 11:30
Matrix: Water
Date Received: 09/08/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	297655	ULCP	ELLE	09/20/22 14:57
Total/NA	Analysis	NWTPH-Gx		1	295234	NND8	ELLE	09/13/22 21:22

Lab Chronicle

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

Job ID: 580-117672-1

Client Sample ID: MW-19_20220907

Lab Sample ID: 580-117672-10

Date Collected: 09/07/22 18:45

Matrix: Water

Date Received: 09/08/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	297655	ULCP	ELLE	09/20/22 15:17
Total/NA	Analysis	NWTPH-Gx		1	295234	NND8	ELLE	09/13/22 21:48
Total/NA	Prep	3510C			297210	YDF5	ELLE	09/19/22 08:39
Total/NA	Analysis	NWTPH-Dx		1	297417	UHEW	ELLE	09/20/22 06:27
Dissolved	Filtration	FILTRATION			403881	CA	EET SEA	09/14/22 13:58
Dissolved	Prep	3005A			404015	CA	EET SEA	09/15/22 14:57
Dissolved	Analysis	6020B		5	404206	FCW	EET SEA	09/16/22 16:14
Total Recoverable	Prep	3005A			404526	ABP	EET SEA	09/21/22 12:11
Total Recoverable	Analysis	6020B		5	404910	TMH	EET SEA	09/23/22 02:37
Total/NA	Analysis	300.0		1	403598	JHR	EET SEA	09/08/22 21:27
Total/NA	Analysis	300.0		1	403604	JHR	EET SEA	09/08/22 21:27
Total/NA	Analysis	SM 2540C		1	295455	UOCA	ELLE	09/13/22 16:28

Client Sample ID: MW-20_20220907

Lab Sample ID: 580-117672-11

Date Collected: 09/07/22 09:05

Matrix: Water

Date Received: 09/08/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	297655	ULCP	ELLE	09/20/22 11:59
Total/NA	Analysis	NWTPH-Gx		1	295234	NND8	ELLE	09/13/22 22:13
Total/NA	Prep	3510C			297210	YDF5	ELLE	09/19/22 08:39
Total/NA	Analysis	NWTPH-Dx		1	297417	UHEW	ELLE	09/20/22 07:12
Dissolved	Filtration	FILTRATION			403881	CA	EET SEA	09/14/22 13:58
Dissolved	Prep	3005A			404015	CA	EET SEA	09/15/22 14:57
Dissolved	Analysis	6020B		5	404206	FCW	EET SEA	09/16/22 15:07
Total Recoverable	Prep	3005A			404526	ABP	EET SEA	09/21/22 12:11
Total Recoverable	Analysis	6020B		5	404910	TMH	EET SEA	09/23/22 01:38

Client Sample ID: MW-21_20220907

Lab Sample ID: 580-117672-12

Date Collected: 09/07/22 07:10

Matrix: Water

Date Received: 09/08/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	297655	ULCP	ELLE	09/20/22 15:37
Total/NA	Analysis	NWTPH-Gx		1	295234	NND8	ELLE	09/13/22 23:30
Total/NA	Prep	3510C			297210	YDF5	ELLE	09/19/22 08:39
Total/NA	Analysis	NWTPH-Dx		1	297417	UHEW	ELLE	09/20/22 08:20
Dissolved	Filtration	FILTRATION			403881	CA	EET SEA	09/14/22 13:58
Dissolved	Prep	3005A			404015	CA	EET SEA	09/15/22 14:57
Dissolved	Analysis	6020B		5	404206	FCW	EET SEA	09/16/22 17:00
Total Recoverable	Prep	3005A			404526	ABP	EET SEA	09/21/22 12:11
Total Recoverable	Analysis	6020B		5	404910	TMH	EET SEA	09/23/22 02:41

Lab Chronicle

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

Job ID: 580-117672-1

Client Sample ID: B1-JPHC_20220907

Lab Sample ID: 580-117672-13

Date Collected: 09/07/22 14:30

Matrix: Water

Date Received: 09/08/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	297655	ULCP	ELLE	09/20/22 15:57
Total/NA	Analysis	NWTPH-Gx		1	295234	NND8	ELLE	09/13/22 23:55
Total/NA	Prep	3510C			297210	YDF5	ELLE	09/19/22 08:39
Total/NA	Analysis	NWTPH-Dx		1	297417	UHEW	ELLE	09/20/22 08:42
Total/NA	Prep	3510C			298853	YDF5	ELLE	09/22/22 11:03
Total/NA	Analysis	NWTPH-Dx		1	299986	IUSB	ELLE	09/26/22 21:18
Dissolved	Filtration	FILTRATION			403881	CA	EET SEA	09/14/22 13:58
Dissolved	Prep	3005A			404015	CA	EET SEA	09/15/22 14:57
Dissolved	Analysis	6020B		5	404206	FCW	EET SEA	09/16/22 16:53
Total Recoverable	Prep	3005A			404526	ABP	EET SEA	09/21/22 12:11
Total Recoverable	Analysis	6020B		5	404910	TMH	EET SEA	09/23/22 03:23
Total/NA	Analysis	300.0		1	403604	JHR	EET SEA	09/08/22 22:25
Total/NA	Analysis	300.0		10	403598	JHR	EET SEA	09/09/22 23:44
Total/NA	Analysis	SM 2540C		1	295455	UOCA	ELLE	09/13/22 16:28

Client Sample ID: DUP-1_20220907

Lab Sample ID: 580-117672-14

Date Collected: 09/07/22 01:00

Matrix: Water

Date Received: 09/08/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	297655	ULCP	ELLE	09/20/22 16:16
Total/NA	Analysis	NWTPH-Gx		1	295234	NND8	ELLE	09/14/22 00:21
Total/NA	Prep	3510C			297210	YDF5	ELLE	09/19/22 08:39
Total/NA	Analysis	NWTPH-Dx		1	297417	UHEW	ELLE	09/20/22 09:05
Total/NA	Prep	3510C			298853	YDF5	ELLE	09/22/22 11:03
Total/NA	Analysis	NWTPH-Dx		1	299986	IUSB	ELLE	09/26/22 21:41
Dissolved	Filtration	FILTRATION			403881	CA	EET SEA	09/14/22 13:58
Dissolved	Prep	3005A			404015	CA	EET SEA	09/15/22 14:57
Dissolved	Analysis	6020B		5	404206	FCW	EET SEA	09/16/22 16:56
Total Recoverable	Prep	3005A			404526	ABP	EET SEA	09/21/22 12:11
Total Recoverable	Analysis	6020B		5	404910	TMH	EET SEA	09/23/22 03:26
Total/NA	Analysis	300.0		1	403604	JHR	EET SEA	09/08/22 22:49
Total/NA	Analysis	300.0		5	403598	JHR	EET SEA	09/08/22 23:01
Total/NA	Analysis	SM 2540C		1	295455	UOCA	ELLE	09/13/22 16:28

Laboratory References:

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

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

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

Job ID: 580-117672-1

Laboratory: Eurofins Seattle

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

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

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-22
A2LA	ISO/IEC 17025	0001.01	11-30-22
Alaska	State	PA00009	07-01-23
Alaska (UST)	State	17-027	02-28-23
Arizona	State	AZ0780	03-12-23
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-22
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-23
Delaware (DW)	State	N/A	01-31-23
Florida	NELAP	E87997	06-30-23
Georgia (DW)	State	C048	01-31-23
Hawaii	State	N/A	01-31-23
Illinois	NELAP	200027	01-31-23
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-22
Kentucky (DW)	State	KY90088	12-31-22
Kentucky (UST)	State	1.01	11-30-22
Kentucky (WW)	State	KY90088	01-01-23
Louisiana	NELAP	02055	06-30-23
Maine	State	2019012	03-12-23
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	10-06-22
Michigan	State	9930	01-31-23
Minnesota	NELAP	042-999-487	12-31-22
Mississippi	State	022	01-31-23
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-23
Montana (UST)	State	<cert No.>	02-01-23
Nebraska	State	NE-OS-32-17	01-31-23
New Hampshire	NELAP	2730	01-10-23
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-22
North Dakota	State	R-205	01-31-23
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-23
Rhode Island	State	LAO00338	12-30-22
South Carolina	State	89002	01-31-23
Tennessee	State	02838	01-31-23

Accreditation/Certification Summary

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

Job ID: 580-117672-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704194-22-43	08-31-23
USDA	US Federal Programs	P330-19-00197	08-09-23
Vermont	State	VT - 36037	10-28-22
Virginia	NELAP	460182	06-15-23
Washington	State	C457	04-11-23
West Virginia (DW)	State	9906 C	12-31-22
West Virginia DEP	State	055	10-31-22
Wyoming	State	8TMS-L	01-31-23
Wyoming (UST)	A2LA	1.01	11-30-22

Method Summary

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

Job ID: 580-117672-1

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

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

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

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

Job ID: 580-117672-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-117672-1	MW-4_20220907	Water	09/07/22 10:20	09/08/22 09:30
580-117672-2	MW-8_20220907	Water	09/07/22 17:35	09/08/22 09:30
580-117672-3	MW-10_20220907	Water	09/07/22 16:30	09/08/22 09:30
580-117672-4	MW-11_20220907	Water	09/07/22 08:30	09/08/22 09:30
580-117672-5	MW-12_20220907	Water	09/07/22 15:45	09/08/22 09:30
580-117672-6	MW-13_20220907	Water	09/07/22 13:40	09/08/22 09:30
580-117672-7	MW-13_PDB_20220907	Water	09/07/22 13:10	09/08/22 09:30
580-117672-8	MW-15_2022097	Water	09/07/22 12:10	09/08/22 09:30
580-117672-9	MW-15_PDB_20220907	Water	09/07/22 11:30	09/08/22 09:30
580-117672-10	MW-19_20220907	Water	09/07/22 18:45	09/08/22 09:30
580-117672-11	MW-20_20220907	Water	09/07/22 09:05	09/08/22 09:30
580-117672-12	MW-21_20220907	Water	09/07/22 07:10	09/08/22 09:30
580-117672-13	B1-JPHC_20220907	Water	09/07/22 14:30	09/08/22 09:30
580-117672-14	DUP-1_20220907	Water	09/07/22 01:00	09/08/22 09:30

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:**

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: WA - 00980, Groundwater Monitoring	
Lab PM: WA-00980, GWM	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: 00C87-0002/WR1027162	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: m.elaine.walker@et.eurofinsus.com	Stage 70: Commercial-Site Activities Activity 116: Contracts Management	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 X; Limited Plus Package; Full Package

Lab No.	Sample Description	Date	Time	Field Matrix	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Filt	Pres	BTEX by EPA 8260	MTBE by EPA 8260	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 6020	Pb-D by EPA 6020	Nitrate / Nitrite (NH)	Sulfate	TDS	Comments
	MW-15_PDB_20220907	9/7/2022	1130	W			G	6			X	X	X							
	MW-19_20220907	9/7/2022	1845	W			G	13			X	X	X	X	X	X	X	X	X	
	MW-20_20220907	9/7/2022	905	W			G	30			X	X	X	X	X	X				MS/MSD
	MW-21_20220907	9/7/2022	710	W			G	10			X	X	X	X	X	X				
	B1-JPHC_20220907	9/7/2022	1430	W			G	13			X	X	X	X	X	X	X	X	X	
	Dup-1_20220907	9/7/2022	100	W			G	13			X	X	X	X	X	X	X	X	X	

Sampler's Name: Sam Hinze & Nathan Han	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Antea Group	[signature] / Antea	9/8/22	0930	[signature]	9/8/22	0930
Ship Method: Ship Date:						
Shipment Tracking No:						

Special Instructions: lab filter for Lead samples, 48 hr hold time for all Nitrate/Nitrite and Sulfates samples

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

580-117672 Chain of Custody

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: Eurofins	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: WA - 00980, Groundwater Monitoring	
Lab PM: WA-00980, GWM	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 Acont: NA	Enfos Proposal No: 00C87-0002/WR1027162	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: m.elaine.walker@et.eurofinsus.com	Stage 70: Commercial-Site Activities Activity 116: Contracts Management	Invoice To: BP-RM _____ BP/ARC ___X___	
BP/RM PM: Wade Melton			
PM Phone: 360-594-7978			
PM Email: wade.melton@bp.com			

Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Filt	Pres	Analysis	BTEX by EPA 8260	MTBE by EPA 8260	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 6020	Pb-D by EPA 6020	Nitrate / Nitrite (N)	Sulfate	TDS	Comments
	MW-4_20220907	9/7/2022	1020	W				G	13				X	X	X	X	X	X	X	X	X	
	MW-8_20220907	9/7/2022	1735	W				G	13				X	X	X	X	X	X	X	X	X	
	MW-10_20220907	9/7/2022	1630	W				G	13				X	X	X	X	X	X	X	X	X	
	MW-11_20220907	9/7/2022	830	W				G	2							X						
	MW-12_20220907	9/7/2022	1545	W				G	13				X	X	X	X	X	X	X	X	X	
	MW-13_20220907	9/7/2022	1340	W				G	7							X	X	X	X	X	X	
	MW-13_PDB_20220907	9/7/2022	1310	W				G	6				X	X	X							
	MW-15_20220907	9/7/2022	1210	W				G	7							X	X	X	X	X	X	

Sampler's Name: NH SH

Sampler's Company: Antea Group

Ship Method: Ship Date:

Shipment Tracking No:

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
[signature] / Antea	9/8/22	0930	[signature] DW	9/8/22	0930

Special Instructions: lab filter for Lead samples, 48 hr hold time for all Nitrate / Nitrite and Sulfate samples

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

Therm. ID: IR8 Cor: 1.1 ° Unc: 0.5 °
Cooler Dsc: LB
Packing: Bub
Cust. Seal: Yes ___ No ___
Blue Ice, Wet, Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: CO

Therm. ID: IR8 Cor: 4.3 ° Unc: 3.7 °
Cooler Dsc: LB
Packing: Bub
Cust. Seal: Yes ___ No ___
Blue Ice, Wet, Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: CO

Therm. ID: IR8 Cor: -1.5 ° Unc: -2.1 °
Cooler Dsc: LB
Packing: Bub
Cust. Seal: Yes ___ No ___
Blue Ice, Wet, Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: CO

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Grant, Katie	Carrier Tracking No(s):	COC No: 580-108822.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Katie.Grant@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State Program - Washington		Job #: 580-117672-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 9/21/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: BP -ARCO 980	Project #: 58010261			
Site: ARCO 980 Antea	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd	NWTPH_Gx/5030B (MOD) Copy Analytes	NWTPH_Dx/3510C_LVI_14d (MOD) Northwest - DRO/RRO	8260D/5030C (MOD) BTEX, MTBE	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
MW-4_20220907 (580-117672-1)	9/7/22	10:20 Pacific		Water			X	X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-8_20220907 (580-117672-2)	9/7/22	17:35 Pacific		Water			X	X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-10_20220907 (580-117672-3)	9/7/22	16:30 Pacific		Water			X	X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-12_20220907 (580-117672-5)	9/7/22	15:45 Pacific		Water			X	X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-13_PDB_20220907 (580-117672-7)	9/7/22	13:10 Pacific		Water				X		X	4	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-15_PDB_20220907 (580-117672-9)	9/7/22	11:30 Pacific		Water				X		X	4	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-19_20220907 (580-117672-10)	9/7/22	18:45 Pacific		Water			X	X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-20_20220907 (580-117672-11)	9/7/22	09:05 Pacific		Water				X	X	X	5	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-20_20220907 (580-117672-11MS)	9/7/22	09:05 Pacific	MS	Water				X	X	X	5	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/9/22 1326	BELJ			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/10/22 10:06	Company ELLET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.8

Ver: 06/08/2021

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Grant, Katie	Carrier Tracking No(s):	COC No: 580-108822.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Katie.Grant@et.eurofinsus.com	State of Origin: Washington	Page: Page 2 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State Program - Washington		Job #: 580-117672-1
Address: 2425 New Holland Pike,	Due Date Requested: 9/21/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: BP -ARCO 980	Project #: 58010261			
Site: ARCO 980 Antea	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd	NWTPH_Gx/5030B (MOD) Copy Analytes	NWTPH_Dx/3510C_LVI_14d (MOD) Northwest - DRO/RRO	8260D/5030C (MOD) BTEX, MTBE	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
MW-20_20220907 (580-117672-11MSD)	9/7/22	09:05 Pacific	MSD	Water				X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-21_20220907 (580-117672-12)	9/7/22	07:10 Pacific		Water				X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
B1-JPHC_20220907 (580-117672-13)	9/7/22	14:30 Pacific		Water			X	X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
DUP-1_20220907 (580-117672-14)	9/7/22	01:00 Pacific		Water			X	X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		9/9/22 1326	EET			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	9/10/22 10:06	ELLET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.8

Ver: 06/08/2021

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Grant, Katie	Carrier Tracking No(s):	COC No: 580-108822.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Katie.Grant@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State Program - Washington		Job #: 580-117672-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 9/21/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: BP -ARCO 980	Project #: 58010261			
Site: ARCO 980 Antea	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd	NWTPH_Gx/5030B (MOD) Copy Analytes	NWTPH_Dx/3510C_LVI_14d (MOD) Northwest - DRO/RRO	8260D/5030C (MOD) BTEX, MTBE	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
MW-4_20220907 (580-117672-1)	9/7/22	10:20 Pacific		Water			X	X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-8_20220907 (580-117672-2)	9/7/22	17:35 Pacific		Water			X	X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-10_20220907 (580-117672-3)	9/7/22	16:30 Pacific		Water			X	X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-12_20220907 (580-117672-5)	9/7/22	15:45 Pacific		Water			X	X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-13_PDB_20220907 (580-117672-7)	9/7/22	13:10 Pacific		Water				X		X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-15_PDB_20220907 (580-117672-9)	9/7/22	11:30 Pacific		Water				X		X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-19_20220907 (580-117672-10)	9/7/22	18:45 Pacific		Water			X	X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-20_20220907 (580-117672-11)	9/7/22	09:05 Pacific		Water				X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-20_20220907 (580-117672-11MS)	9/7/22	09:05 Pacific	MS	Water				X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9/9/22 1326	ET			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/10/22 10:06	Company ELLET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.6

Ver: 06/08/2021

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Grant, Katie	Carrier Tracking No(s):	COC No: 580-108822.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Katie.Grant@et.eurofinsus.com	State of Origin: Washington	Page: Page 2 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State Program - Washington		Job #: 580-117672-1
Address: 2425 New Holland Pike,	Due Date Requested: 9/21/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: BP -ARCO 980	Project #: 58010261			
Site: ARCO 980 Antea	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastetoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd	NWTPH_Gx/5030B (MOD) Copy Analytes	NWTPH_Dx/3510C_LVI_14d (MOD) Northwest - DRO/RRO	8260D/5030C (MOD) BTEX, MTBE	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
MW-20_20220907 (580-117672-11MSD)	9/7/22	09:05 Pacific	MSD	Water				X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-21_20220907 (580-117672-12)	9/7/22	07:10 Pacific		Water				X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
B1-JPHC_20220907 (580-117672-13)	9/7/22	14:30 Pacific		Water			X	X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
DUP-1_20220907 (580-117672-14)	9/7/22	01:00 Pacific		Water			X	X	X	X	6	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9/9/22 1326	ERTN			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/10/22 10:06	Company ELLET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.8

Ver: 06/08/2021

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Grant, Katie	Carrier Tracking No(s):	COC No: 580-108823.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Katie.Grant@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State Program - Washington		Job #: 580-117672-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 9/21/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: BP -ARCO 980	Project #: 58010261			
Site: ARCO 980 Antea	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd	NWTPH_Gx/5030B (MOD) Copy Analytes	NWTPH_Dx/3510C_LVI_14d (MOD) Northwest - DRO/RRO	8260D/5030C (MOD) BTEX, MTBE	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X					X	
MW-4_20220907 (580-117672-1)	9/7/22	10:20 Pacific		Water			X	X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-8_20220907 (580-117672-2)	9/7/22	17:35 Pacific		Water			X	X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-20_20220907 (580-117672-11)	9/7/22	09:05 Pacific		Water				X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/9/22 1359	EET			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/10/22 10:12	Company EET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.2

Ver: 06/08/2021

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Grant, Katie	Carrier Tracking No(s):	COC No: 580-108828.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Katie.Grant@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State Program - Washington		Job #: 580-117672-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 9/21/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: BP -ARCO 980	Project #: 58010261			
Site: ARCO 980 Antea	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd	NWTPH_Gx/5030B (MOD) Copy Analytes	NWTPH_Dx/3510C_LVI_14d (MOD) Northwest - DRO/RRO	8260D/5030C (MOD) BTEX, MTBE	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
MW-4_20220907 (580-117672-1)	9/7/22	10:20 Pacific		Water			X	X	X	X	1	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-8_20220907 (580-117672-2)	9/7/22	17:35 Pacific		Water			X	X	X	X	1	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-10_20220907 (580-117672-3)	9/7/22	16:30 Pacific		Water			X	X	X	X	1	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-12_20220907 (580-117672-5)	9/7/22	15:45 Pacific		Water			X	X	X	X	1	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-13_20220907 (580-117672-6)	9/7/22	13:40 Pacific		Water			X		X		1	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-15_2022097 (580-117672-8)	9/7/22	12:10 Pacific		Water			X		X		1	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-19_20220907 (580-117672-10)	9/7/22	18:45 Pacific		Water			X	X	X	X	1	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
B1-JPHC_20220907 (580-117672-13)	9/7/22	14:30 Pacific		Water			X	X	X	X	1	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
DUP-1_20220907 (580-117672-14)	9/7/22	01:00 Pacific		Water			X	X	X	X	1	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/9/22 1525	EEN			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	9/10/22 0952	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4

Ver: 06/08/2021

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Grant, Katie	Carrier Tracking No(s):	COC No: 580-108824.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Katie.Grant@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State Program - Washington		Job #: 580-117672-1
Address: 2425 New Holland Pike, .	Due Date Requested: 9/21/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: BP -ARCO 980	Project #: 58010261			
Site: ARCO 980 Antea	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd	NWTPH_Gx/5030B (MOD) Copy Analytes	NWTPH_Dx/3510C_LVI_14d (MOD) Northwest - DRO/RRO	8260D/5030C (MOD) BTEX, MTBE	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
MW-10_20220907 (580-117672-3)	9/7/22	16:30 Pacific		Water			X	X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-11_20220907 (580-117672-4)	9/7/22	08:30 Pacific		Water					X		2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-12_20220907 (580-117672-5)	9/7/22	15:45 Pacific		Water			X	X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-13_20220907 (580-117672-6)	9/7/22	13:40 Pacific		Water			X		X		2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-15_2022097 (580-117672-8)	9/7/22	12:10 Pacific		Water			X		X		2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-19_20220907 (580-117672-10)	9/7/22	18:45 Pacific		Water			X	X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-20_20220907 (580-117672-11MS)	9/7/22	09:05 Pacific	MS	Water				X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-20_20220907 (580-117672-11MSD)	9/7/22	09:05 Pacific	MSD	Water				X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-21_20220907 (580-117672-12)	9/7/22	07:10 Pacific		Water				X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/9/22 1426	BEN			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/10/22 10:08	Company EET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.6

JN

Ver: 06/08/2021

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Grant, Katie	Carrier Tracking No(s):	COC No: 580-108824.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Katie.Grant@et.eurofinsus.com	State of Origin: Washington	Page: Page 2 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State Program - Washington		Job #: 580-117672-1
Address: 2425 New Holland Pike,	Due Date Requested: 9/21/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: BP -ARCO 980	Project #: 58010261			
Site: ARCO 980 Antea	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastetoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd	NWTPH_Gx/5030B (MOD) Copy Analytes	NWTPH_Dx/3510C_LVI_14d (MOD) Northwest - DRO/RRO	8260D/5030C (MOD) BTEX, MTBE	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
B1-JPHC_20220907 (580-117672-13)	9/7/22	14:30 Pacific		Water			X	X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
DUP-1_20220907 (580-117672-14)	9/7/22	01:00 Pacific		Water			X	X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/9/22 1426	DTN			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/10/22 10:08	Company ELLT

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.6

Ver: 06/08/2021

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Grant, Katie	Carrier Tracking No(s):	COC No: 580-108824.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Katie.Grant@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State Program - Washington		Job #: 580-117672-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 9/21/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: BP -ARCO 980	Project #: 58010261			
Site: ARCO 980 Antea	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA
M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd	NWTPH_Gx/5030B (MOD) Copy Analytes	NWTPH_Dx/3510C_LVI_14d (MOD) Northwest - DRO/RRO	8260D/5030C (MOD) BTEX, MTBE	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
MW-10_20220907 (580-117672-3)	9/7/22	16:30 Pacific		Water			X	X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-11_20220907 (580-117672-4)	9/7/22	08:30 Pacific		Water					X		2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-12_20220907 (580-117672-5)	9/7/22	15:45 Pacific		Water			X	X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-13_20220907 (580-117672-6)	9/7/22	13:40 Pacific		Water			X		X		2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-15_2022097 (580-117672-8)	9/7/22	12:10 Pacific		Water			X		X		2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-19_20220907 (580-117672-10)	9/7/22	18:45 Pacific		Water			X	X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-20_20220907 (580-117672-11MS)	9/7/22	09:05 Pacific	MS	Water				X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-20_20220907 (580-117672-11MSD)	9/7/22	09:05 Pacific	MSD	Water				X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
MW-21_20220907 (580-117672-12)	9/7/22	07:10 Pacific		Water				X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification *Unconfirmed*	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For ____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9/9/22 1445	BETN			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	9/10/22 0952	[signature]

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.6

Ver: 06/08/2021

9/27/2022

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Grant, Katie	Carrier Tracking No(s):	COC No: 580-108824.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Katie.Grant@et.eurofinsus.com	State of Origin: Washington	Page: Page 2 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State Program - Washington		Job #: 580-117672-1
Address: 2425 New Holland Pike, .	Due Date Requested: 9/21/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: BP -ARCO 980	Project #: 58010261			
Site: ARCO 980 Antea	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd	NWTPH_Gx/5030B (MOD) Copy Analytes	NWTPH_Dx/3510C_LVI_14d (MOD) Northwest - DRO/RRO	8260D/5030C (MOD) BTEX, MTBE	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
B1-JPHC_20220907 (580-117672-13)	9/7/22	14:30 Pacific		Water			X	X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available
DUP-1_20220907 (580-117672-14)	9/7/22	01:00 Pacific		Water			X	X	X	X	2	BP LaMP ICOC, Analyze LCS/LCSD if no MS/MSD volume is available

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9/9/22 1445	EGN			
2						
3					9/10/22 0952	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4 1.6

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Antea USA Inc.

Job Number: 580-117672-1

Login Number: 117672

List Source: Eurofins Seattle

List Number: 1

Creator: Vallelunga, Diana L

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	

Login Sample Receipt Checklist

Client: Antea USA Inc.

Job Number: 580-117672-1

Login Number: 117672
List Number: 2
Creator: McCaskey, Jonathan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 09/10/22 12:30 PM

Question	Answer	Comment
The cooler's custody seal is 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-117672-1

SDG No.:

Batch Number: 403881 Batch Start Date: 09/14/22 13:57 Batch Analyst: Anderson, Chelsey

Batch Method: FILTRATION Batch End Date: 09/14/22 17:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
580-117672-I-1	MW-4_20220907	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-117672-I-2	MW-8_20220907	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-117672-I-3	MW-10_20220907	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-117672-I-5	MW-12_20220907	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-117672-E-6	MW-13_20220907	FILTRATION, 3005A, 6020B	D	100 mL	100 mL				
580-117672-E-8	MW-15_2022097	FILTRATION, 3005A, 6020B	D	100 mL	100 mL				
580-117672-I-10	MW-19_20220907	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-117672-I-14	DUP-1_20220907	FILTRATION, 3005A, 6020B	D	100 mL	100 mL				
580-117672-J-11 MS	MW-20_20220907	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-117672-J-11	MW-20_20220907	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-117672-J-11 MSD	MW-20_20220907	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-117672-J-12	MW-21_20220907	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-117672-I-13	B1-JPHC_20220907	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				

Batch Notes	
Filter ID	1350321
Nitric Acid ID	3277869

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 Seattle Job No.: 580-117672-1

SDG No.:

Batch Number: 404015 Batch Start Date: 09/15/22 18:00 Batch Analyst: Anderson, Chelsey

Batch Method: 3005A Batch End Date: 09/15/22 22:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00020	ICP CAL 2 00017	MET Spike 3C 00038	
580-117672-J-11-B	MW-20_20220907	3005A, 6020B	D	50 mL	50 mL				
580-117672-J-11-B DU	MW-20_20220907	3005A, 6020B	D	50 mL	50 mL				
580-117672-J-11-A MS	MW-20_20220907	3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-117672-J-11-C MSD	MW-20_20220907	3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-117672-I-1-A	MW-4_20220907	3005A, 6020B	D	50 mL	50 mL				
580-117672-I-1-A MS	MW-4_20220907	3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-117672-I-1-A MSD	MW-4_20220907	3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-117672-I-2-A	MW-8_20220907	3005A, 6020B	D	50 mL	50 mL				
580-117672-I-3-A	MW-10_20220907	3005A, 6020B	D	50 mL	50 mL				
580-117672-I-5-A	MW-12_20220907	3005A, 6020B	D	50 mL	50 mL				
580-117672-E-6-A	MW-13_20220907	3005A, 6020B	D	50 mL	50 mL				
580-117672-E-8-A	MW-15_2022097	3005A, 6020B	D	50 mL	50 mL				
580-117672-I-10-A	MW-19_20220907	3005A, 6020B	D	50 mL	50 mL				
580-117672-J-12-A	MW-21_20220907	3005A, 6020B	D	50 mL	50 mL				
580-117672-I-13-A	B1-JPHC_20220907	3005A, 6020B	D	50 mL	50 mL				
580-117672-I-14-A	DUP-1_20220907	3005A, 6020B	D	50 mL	50 mL				
MB 580-404015/24		3005A, 6020B		50 mL	50 mL				
LCS 580-404015/25		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-404015/26		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 Seattle Job No.: 580-117672-1

SDG No.:

Batch Number: 404015 Batch Start Date: 09/15/22 18:00 Batch Analyst: Anderson, Chelsey

Batch Method: 3005A Batch End Date: 09/15/22 22:00

Batch Notes	
Hot Block ID	BLOCK E
Thermometer ID	742935
Thermometer Location ID	E6
Uncorrected Temperature	94.0 Celsius
Oven, Bath or Block Temperature 1	94.7 Degrees C
Uncorrected Temperature 2	94.0 Celsius
Oven, Bath or Block Temperature 2	94.7 Degrees C
Lot # of hydrochloric acid	3143156
Lot # of Nitric Acid	3277869
Pipette ID	metals prep 2
Digestion Tube/Cup ID	3238702
First Start time	see above
First End time	see above
Analyst ID - Spike Witness Analyst	CA - AUA

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 Seattle Job No.: 580-117672-1

SDG No.:

Batch Number: 404526 Batch Start Date: 09/21/22 12:11 Batch Analyst: Pineda, Abigail B

Batch Method: 3005A Batch End Date: 09/21/22 17:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00020	ICP CAL 2 00017	MET Spike 3C 00038	
580-117672-I-11	MW-20_20220907	3005A, 6020B	R	50 mL	50 mL				
580-117672-I-11 DU	MW-20_20220907	3005A, 6020B	R	50 mL	50 mL				
580-117672-I-11 MS	MW-20_20220907	3005A, 6020B	R	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-117672-I-11 MSD	MW-20_20220907	3005A, 6020B	R	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-117672-G-1	MW-4_20220907	3005A, 6020B	R	50 mL	50 mL				
580-117672-G-2	MW-8_20220907	3005A, 6020B	R	50 mL	50 mL				
580-117672-G-3	MW-10_20220907	3005A, 6020B	R	50 mL	50 mL				
580-117672-G-5	MW-12_20220907	3005A, 6020B	R	50 mL	50 mL				
580-117672-C-6	MW-13_20220907	3005A, 6020B	R	50 mL	50 mL				
580-117672-C-8	MW-15_2022097	3005A, 6020B	R	50 mL	50 mL				
580-117672-G-10	MW-19_20220907	3005A, 6020B	R	50 mL	50 mL				
580-117672-I-12	MW-21_20220907	3005A, 6020B	R	50 mL	50 mL				
580-117672-G-13	B1-JPHC_20220907	3005A, 6020B	R	50 mL	50 mL				
580-117672-G-14	DUP-1_20220907	3005A, 6020B	R	50 mL	50 mL				
MB 580-404526/22		3005A, 6020B		50 mL	50 mL				
LCS 580-404526/23		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-404526/24		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 Seattle Job No.: 580-117672-1

SDG No.:

Batch Number: 404526 Batch Start Date: 09/21/22 12:11 Batch Analyst: Pineda, Abigail B

Batch Method: 3005A Batch End Date: 09/21/22 17:30

Batch Notes	
Digestion Tube/Cup ID	3238695
Pipette/Syringe/Dispenser ID	METALS-PREP-2
Analyst ID - Spike Analyst	AP
Analyst ID - Spike Witness Analyst	TH
Sufficient Volume for Batch QC	yes
Hydrochloric Acid ID	3282359
Nitric Acid ID	3277868
Digestion Unit ID	BLOCK A
Thermometer ID	1108431
Thermometer Location ID	A40
Temperature - Uncorrected - Start	91 Deg. C
Temperature - Corrected - Start	90.6 Deg. C
Digestion Start Time	09/21/2022 13:30
Digestion End Time	09/21/2022 17:30
Temperature - Uncorrected - End	91.0 Deg. C
Temperature - Corrected - End	90.6 Deg. 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 Seattle Job No.: 580-117672-1

SDG No.:

Batch Number: 403598 Batch Start Date: 09/08/22 16:57 Batch Analyst: Roberts, Jacob H

Batch Method: 300.0 Batch End Date: 09/09/22 05:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC-Custom-EE 00030			
580-117672-I-1	MW-4_20220907	300.0	T	5 mL	5 mL				
580-117672-I-1 ^2	MW-4_20220907	300.0	T	5 mL	5 mL				
580-117672-I-2	MW-8_20220907	300.0	T	5 mL	5 mL				
580-117672-I-3	MW-10_20220907	300.0	T	5 mL	5 mL				
580-117672-I-5	MW-12_20220907	300.0	T	5 mL	5 mL				
580-117672-I-5 ^2	MW-12_20220907	300.0	T	5 mL	5 mL				
580-117672-E-6	MW-13_20220907	300.0	T	5 mL	5 mL				
580-117672-E-6 ^2	MW-13_20220907	300.0	T	5 mL	5 mL				
580-117672-E-6 ^10	MW-13_20220907	300.0	T	5 mL	5 mL				
580-117672-E-8	MW-15_2022097	300.0	T	5 mL	5 mL				
580-117672-E-8 ^2	MW-15_2022097	300.0	T	5 mL	5 mL				
580-117672-I-10	MW-19_20220907	300.0	T	5 mL	5 mL				
580-117672-I-10 MS	MW-19_20220907	300.0	T	5 mL	5 mL	0.25 mL			
580-117672-I-10 MSD	MW-19_20220907	300.0	T	5 mL	5 mL	0.25 mL			
580-117672-I-13	B1-JPHC_20220907	300.0	T	5 mL	5 mL				
580-117672-I-13 ^2	B1-JPHC_20220907	300.0	T	5 mL	5 mL				
580-117672-I-14	DUP-1_20220907	300.0	T	5 mL	5 mL				
580-117672-I-14 ^5	DUP-1_20220907	300.0	T	5 mL	5 mL				
MB 580-403598/30		300.0		5 mL	5 mL				
LCS 580-403598/31		300.0		5 mL	5 mL	0.25 mL			
LCSD 580-403598/32		300.0		5 mL	5 mL	0.25 mL			
580-117672-I-2 ^2	MW-8_20220907	300.0	T	5 mL	5 mL				
580-117672-E-6 ^20	MW-13_20220907	300.0	T	5 mL	5 mL				
580-117672-I-13 ^10	B1-JPHC_20220907	300.0	T	5 mL	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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-117672-1

SDG No.:

Batch Number: 403598 Batch Start Date: 09/08/22 16:57 Batch Analyst: Roberts, Jacob H

Batch Method: 300.0 Batch End Date: 09/09/22 05:40

Batch Notes	
Filter ID	17572132
Pipette/Syringe/Dispenser ID	WC 10 C / WC 5 A / WC 2 C / WC 0.1 D
Sufficient Volume for Batch QC	yes
Eluent 1 ID	220308

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 Seattle Job No.: 580-117672-1

SDG No.:

Batch Number: 403604 Batch Start Date: 09/08/22 16:57 Batch Analyst: Roberts, Jacob H

Batch Method: 300.0 Batch End Date: 09/09/22 00:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC-Custom-EE 00030			
MB 580-403604/3		300.0		5 mL	5 mL				
LCS 580-403604/4		300.0		5 mL	5 mL	0.25 mL			
LCSD 580-403604/5		300.0		5 mL	5 mL	0.25 mL			
580-117672-I-1	MW-4_20220907	300.0	T	5 mL	5 mL				
580-117672-I-1 ^2	MW-4_20220907	300.0	T	5 mL	5 mL				
580-117672-I-2	MW-8_20220907	300.0	T	5 mL	5 mL				
580-117672-I-3	MW-10_20220907	300.0	T	5 mL	5 mL				
580-117672-I-5	MW-12_20220907	300.0	T	5 mL	5 mL				
580-117672-I-5 ^2	MW-12_20220907	300.0	T	5 mL	5 mL				
580-117672-E-6	MW-13_20220907	300.0	T	5 mL	5 mL				
580-117672-E-6 ^2	MW-13_20220907	300.0	T	5 mL	5 mL				
580-117672-E-6 ^10	MW-13_20220907	300.0	T	5 mL	5 mL				
580-117672-E-8	MW-15_2022097	300.0	T	5 mL	5 mL				
580-117672-E-8 ^2	MW-15_2022097	300.0	T	5 mL	5 mL				
580-117672-I-10	MW-19_20220907	300.0	T	5 mL	5 mL				
580-117672-I-10 MS	MW-19_20220907	300.0	T	5 mL	5 mL	0.25 mL			
580-117672-I-10 MSD	MW-19_20220907	300.0	T	5 mL	5 mL	0.25 mL			
580-117672-I-13	B1-JPHC_20220907	300.0	T	5 mL	5 mL				
580-117672-I-13 ^2	B1-JPHC_20220907	300.0	T	5 mL	5 mL				
580-117672-I-14	DUP-1_20220907	300.0	T	5 mL	5 mL				
580-117672-I-14 ^5	DUP-1_20220907	300.0	T	5 mL	5 mL				
580-117672-E-6 ^20	MW-13_20220907	300.0	T	5 mL	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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-117672-1

SDG No.:

Batch Number: 403604 Batch Start Date: 09/08/22 16:57 Batch Analyst: Roberts, Jacob H

Batch Method: 300.0 Batch End Date: 09/09/22 00:15

Batch Notes	
Filter ID	17572132
Pipette/Syringe/Dispenser ID	WC 10 C / WC 2 C / WC 5 A
Sufficient Volume for Batch QC	yes
Eluent 1 ID	220308

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 Lancaster Laboratories | Job No.: 580-117672-1

SDG No.:

Batch Number: 297655 | Batch Start Date: 09/20/22 08:58 | Batch Analyst: Pape, Linda C

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
LCS 410-297655/4		8260D		5 mL	5 mL				2652
MB 410-297655/6		8260D		5 mL	5 mL				2652
580-117672-A-11	MW-20_20220907	8260D	T	5 mL	5 mL	<2 SU	N	N	
580-117672-A-11 MS	MW-20_20220907	8260D	T	5 mL	5 mL	<2 SU	N	N	
580-117672-A-11 MSD	MW-20_20220907	8260D	T	5 mL	5 mL	<2 SU	N	N	
580-117672-A-1	MW-4_20220907	8260D	T	5 mL	5 mL	<2 SU	N	N	
580-117672-A-2	MW-8_20220907	8260D	T	5 mL	5 mL	<2 SU	N	N	
580-117672-A-3	MW-10_20220907	8260D	T	5 mL	5 mL	<2 SU	N	N	
580-117672-A-5	MW-12_20220907	8260D	T	5 mL	5 mL	<2 SU	N	N	
580-117672-A-7	MW-13_PDB_20220907	8260D	T	5 mL	5 mL	<2 SU	N	N	
580-117672-A-9	MW-15_PDB_20220907	8260D	T	5 mL	5 mL	<2 SU	N	N	
580-117672-A-10	MW-19_20220907	8260D	T	5 mL	5 mL	<2 SU	N	N	
580-117672-A-12	MW-21_20220907	8260D	T	5 mL	5 mL	<2 SU	N	N	
580-117672-A-13	B1-JPHC_20220907	8260D	T	5 mL	5 mL	<2 SU	N	N	
580-117672-A-14	DUP-1_20220907	8260D	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Cent_ISSS 00010	MSV_LCS_2CEVE 00078	MSV_LCS_ACROL 00076	MSV_LCS_Gases 00106	MSV_LCS_VOC#1 00073	
LCS 410-297655/4		8260D		5 uL	50 uL	50 uL	50 uL	50 uL	
MB 410-297655/6		8260D		5 uL					
580-117672-A-11	MW-20_20220907	8260D	T	5 uL					
580-117672-A-11 MS	MW-20_20220907	8260D	T	5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL	
580-117672-A-11 MSD	MW-20_20220907	8260D	T	5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL	
580-117672-A-1	MW-4_20220907	8260D	T	5 uL					
580-117672-A-2	MW-8_20220907	8260D	T	5 uL					
580-117672-A-3	MW-10_20220907	8260D	T	5 uL					
580-117672-A-5	MW-12_20220907	8260D	T	5 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/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 580-117672-1

SDG No.:

Batch Number: 297655 | Batch Start Date: 09/20/22 08:58 | Batch Analyst: Pape, Linda C

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Cent_ISSS 00010	MSV_LCS_2CEVE 00078	MSV_LCS_ACROL 00076	MSV_LCS_Gases 00106	MSV_LCS_VOC#1 00073	
580-117672-A-7	MW-13_PDB_20220907	8260D	T	5 uL					
580-117672-A-9	MW-15_PDB_20220907	8260D	T	5 uL					
580-117672-A-10	MW-19_20220907	8260D	T	5 uL					
580-117672-A-12	MW-21_20220907	8260D	T	5 uL					
580-117672-A-13	B1-JPHC_20220907	8260D	T	5 uL					
580-117672-A-14	DUP-1_20220907	8260D	T	5 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 Lancaster Laboratories | Job No.: 580-117672-1

SDG No.:

Batch Number: 295234 | Batch Start Date: 09/13/22 12:01 | Batch Analyst: Terradillos, Antonio

Batch Method: NWTPH-Gx | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	Headspace	Lot#Vial	GCV Q GRO 00034
MB 410-295234/5		NWTPH-Gx		5 mL	5 mL			2652	
LCS 410-295234/6		NWTPH-Gx		5 mL	5 mL			2652	55 uL
LCSD 410-295234/7		NWTPH-Gx		5 mL	5 mL			2652	55 uL
580-117672-D-1	MW-4_20220907	NWTPH-Gx	T	5 mL	5 mL	<2 SU	N		
580-117672-D-2	MW-8_20220907	NWTPH-Gx	T	5 mL	5 mL	<2 SU	N		
580-117672-D-3	MW-10_20220907	NWTPH-Gx	T	5 mL	5 mL	<2 SU	N		
580-117672-D-5	MW-12_20220907	NWTPH-Gx	T	5 mL	5 mL	<2 SU	N		
580-117672-D-7	MW-13_PDB_20220907	NWTPH-Gx	T	5 mL	5 mL	<2 SU	N		
580-117672-D-9	MW-15_PDB_20220907	NWTPH-Gx	T	5 mL	5 mL	<2 SU	N		
580-117672-D-10	MW-19_20220907	NWTPH-Gx	T	5 mL	5 mL	<2 SU	N		
580-117672-D-11	MW-20_20220907	NWTPH-Gx	T	5 mL	5 mL	<2 SU	N		
580-117672-D-11 MS	MW-20_20220907	NWTPH-Gx	T	5 mL	5 mL	<2 SU	N		24 uL
580-117672-D-11 MSD	MW-20_20220907	NWTPH-Gx	T	5 mL	5 mL	<2 SU	N		24 uL
580-117672-D-12	MW-21_20220907	NWTPH-Gx	T	5 mL	5 mL	<2 SU	N		
580-117672-D-13	B1-JPHC_20220907	NWTPH-Gx	T	5 mL	5 mL	<2 SU	N		
580-117672-D-14	DUP-1_20220907	NWTPH-Gx	T	5 mL	5 mL	<2 SU	N		

Lab Sample ID	Client Sample ID	Method Chain	Basis	GCV_W_TFT 00007	AnalysisComment				
MB 410-295234/5		NWTPH-Gx		1 uL					
LCS 410-295234/6		NWTPH-Gx		1 uL					
LCSD 410-295234/7		NWTPH-Gx		1 uL					
580-117672-D-1	MW-4_20220907	NWTPH-Gx	T	1 uL	c/o J hit, but gets LOQ reporting				
580-117672-D-2	MW-8_20220907	NWTPH-Gx	T	1 uL	c/o J hit, but gets LOQ reporting				

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 Lancaster Laboratories | Job No.: 580-117672-1

SDG No.:

Batch Number: 295234 | Batch Start Date: 09/13/22 12:01 | Batch Analyst: Terradillos, Antonio

Batch Method: NWTPH-Gx | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	GCV_W_TFT 00007	AnalysisComment				
580-117672-D-3	MW-10_20220907	NWTPH-Gx	T	1 uL	c/o J hit, but gets LOQ reporting				
580-117672-D-5	MW-12_20220907	NWTPH-Gx	T	1 uL	c/o J hit, but gets LOQ reporting				
580-117672-D-7	MW-13_PDB_20220907	NWTPH-Gx	T	1 uL	c/o J hit, but gets LOQ reporting				
580-117672-D-9	MW-15_PDB_20220907	NWTPH-Gx	T	1 uL	c/o J hit, but gets LOQ reporting				
580-117672-D-10	MW-19_20220907	NWTPH-Gx	T	1 uL	c/o J hit, but gets LOQ reporting				
580-117672-D-11	MW-20_20220907	NWTPH-Gx	T	1 uL	c/o J hit, but gets LOQ reporting				
580-117672-D-11 MS	MW-20_20220907	NWTPH-Gx	T	1 uL					
580-117672-D-11 MSD	MW-20_20220907	NWTPH-Gx	T	1 uL					
580-117672-D-12	MW-21_20220907	NWTPH-Gx	T	1 uL	c/o J hit, but gets LOQ reporting				
580-117672-D-13	B1-JPHC_20220907	NWTPH-Gx	T	1 uL	c/o J hit, but gets LOQ reporting				
580-117672-D-14	DUP-1_20220907	NWTPH-Gx	T	1 uL	c/o J hit, but gets LOQ reporting				

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 Lancaster Laboratories | Job No.: 580-117672-1

SDG No.:

Batch Number: 297210 | Batch Start Date: 09/19/22 08:39 | Batch Analyst: Carrick, Adam

Batch Method: 3510C | Batch End Date: 09/19/22 12:16

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	DensityAcc	InitialAmount	FinalAmount	ReceivedpH
MB 410-297210/1		3510C, NWTPH-Dx				n/a	250 mL	2 mL	n/a SU
LCS 410-297210/2		3510C, NWTPH-Dx				n/a	250 mL	2 mL	n/a SU
LCSD 410-297210/3		3510C, NWTPH-Dx				n/a	250 mL	2 mL	n/a SU
580-117672-H-11 MS	MW-20_20220907	3510C, NWTPH-Dx	T	404.91 g	167.52 g	n/a	237.4 mL	2 mL	<2 SU
580-117672-H-11 MSD	MW-20_20220907	3510C, NWTPH-Dx	T	399.89 g	167.53 g	n/a	232.4 mL	2 mL	<2 SU
580-117672-L-1	MW-4_20220907	3510C, NWTPH-Dx	T	408.12 g	166.67 g	n/a	241.5 mL	2 mL	<2 SU
580-117672-L-2	MW-8_20220907	3510C, NWTPH-Dx	T	408.23 g	165.05 g	n/a	243.2 mL	2 mL	<2 SU
580-117672-K-3 DU	MW-10_20220907	3510C, NWTPH-Dx	T	392.11 g	165.66 g	n/a	226.5 mL	2 mL	<2 SU
580-117672-L-3	MW-10_20220907	3510C, NWTPH-Dx	T	399.91 g	164.70 g	n/a	235.2 mL	2 mL	<2 SU
580-117672-B-4	MW-11_20220907	3510C, NWTPH-Dx	T	411.16 g	165.05 g	n/a	246.1 mL	2 mL	<2 SU
580-117672-L-5	MW-12_20220907	3510C, NWTPH-Dx	T	412.24 g	166.61 g	n/a	245.6 mL	2 mL	<2 SU
580-117672-B-6	MW-13_20220907	3510C, NWTPH-Dx	T	413.56 g	166.98 g	n/a	246.6 mL	2 mL	<2 SU
580-117672-B-8	MW-15_2022097	3510C, NWTPH-Dx	T	385.52 g	164.96 g	n/a	220.6 mL	2 mL	<2 SU
580-117672-K-10 DU	MW-19_20220907	3510C, NWTPH-Dx	T	403.34 g	166.19 g	n/a	237.2 mL	2 mL	<2 SU
580-117672-L-10	MW-19_20220907	3510C, NWTPH-Dx	T	405.58 g	164.88 g	n/a	240.7 mL	2 mL	<2 SU
580-117672-H-11	MW-20_20220907	3510C, NWTPH-Dx	T	402.00 g	167.89 g	n/a	234.1 mL	2 mL	<2 SU
580-117672-H-12	MW-21_20220907	3510C, NWTPH-Dx	T	403.61 g	164.99 g	n/a	238.6 mL	2 mL	<2 SU
580-117672-L-13	B1-JPHC_20220907	3510C, NWTPH-Dx	T	410.28 g	166.14 g	n/a	244.1 mL	2 mL	<2 SU
580-117672-L-14	DUP-1_20220907	3510C, NWTPH-Dx	T	411.39 g	165.86 g	n/a	245.5 mL	2 mL	<2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	CUPerformed	OP_MINIDRO_MS 00069	OP_MINIDRO_SS 00047	AnalysisComment

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 Lancaster Laboratories | Job No.: 580-117672-1

SDG No.:

Batch Number: 297210 | Batch Start Date: 09/19/22 08:39 | Batch Analyst: Carrick, Adam

Batch Method: 3510C | Batch End Date: 09/19/22 12:16

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	CUPerformed	OP_MINIDRO_MS 00069	OP_MINIDRO_SS 00047	AnalysisComment
MB 410-297210/1		3510C, NWTPH-Dx		<2 SU	n/a SU	n		1 mL	DI H20
LCS 410-297210/2		3510C, NWTPH-Dx		<2 SU	n/a SU	n	1 mL	1 mL	DI H20
LCSD 410-297210/3		3510C, NWTPH-Dx		<2 SU	n/a SU	n	1 mL	1 mL	DI H20
580-117672-H-11 MS	MW-20_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n	1 mL	1 mL	pale yellow tint
580-117672-H-11 MSD	MW-20_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n	1 mL	1 mL	pale yellow tint
580-117672-L-1	MW-4_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	pale yellow tint
580-117672-L-2	MW-8_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	pale yellow tint
580-117672-K-3 DU	MW-10_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	clear
580-117672-L-3	MW-10_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	clear
580-117672-B-4	MW-11_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	clear
580-117672-L-5	MW-12_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	clear
580-117672-B-6	MW-13_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	black cloudy with black sediment, sample was centrifuged
580-117672-B-8	MW-15_2022097	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	black cloudy with black sediment, sample was centrifuged
580-117672-K-10 DU	MW-19_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	clear
580-117672-L-10	MW-19_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	clear
580-117672-H-11	MW-20_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	clear
580-117672-H-12	MW-21_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	clear

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 Lancaster Laboratories | Job No.: 580-117672-1

SDG No.:

Batch Number: 297210 | Batch Start Date: 09/19/22 08:39 | Batch Analyst: Carrick, Adam

Batch Method: 3510C | Batch End Date: 09/19/22 12:16

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	CUPerformed	OP_MINIDRO_MS 00069	OP_MINIDRO_SS 00047	AnalysisComment
580-117672-L-13	B1-JPHC_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	black cloudy with black sediment, sample was centrifuged
580-117672-L-14	DUP-1_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	black cloudy with black sediment, sample was centrifuged

Batch Notes	
Balance ID	25996
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	AGC40572, CNG41579
Analyst ID - Spike Analyst	AGC40572, CNG41579
Acid Used for pH Adjustment ID	HCl:1108912
Prep Solvent ID	MeCl2:223128
Prep Solvent Volume Used	45 mL
Na2SO4 ID	22257A
Analyst ID - Concentration	AGC40572
Equipment ID - Concentration 1	RapidVap#4,3,1
Concentration 1 Corrected Temperature	80 Degrees C

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 Lancaster Laboratories | Job No.: 580-117672-1

SDG No.:

Batch Number: 298853 | Batch Start Date: 09/22/22 11:03 | Batch Analyst: Carrick, Adam

Batch Method: 3510C | Batch End Date: 09/22/22 13:01

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	DensityAcc	InitialAmount	FinalAmount	ReceivedpH
MB 410-298853/1		3510C, NWTPH-Dx				n/a	250 mL	2 mL	n/a SU
LCS 410-298853/2		3510C, NWTPH-Dx				n/a	250 mL	2 mL	n/a SU
LCSD 410-298853/3		3510C, NWTPH-Dx				n/a	250 mL	2 mL	n/a SU
580-117672-A-6	MW-13_20220907	3510C, NWTPH-Dx	T	404.80 g	166.27 g	n/a	238.5 mL	2 mL	<2 SU
580-117672-A-8	MW-15_2022097	3510C, NWTPH-Dx	T	402.37 g	165.36 g	n/a	237 mL	2 mL	<2 SU
580-117672-K-13	B1-JPHC_20220907	3510C, NWTPH-Dx	T	410.56 g	165.14 g	n/a	245.4 mL	2 mL	<2 SU
580-117672-K-14	DUP-1_20220907	3510C, NWTPH-Dx	T	412.49 g	166.20 g	n/a	246.3 mL	2 mL	<2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	CUPerformed	OP_MINIDRO_MS 00070	OP_MINIDRO_SS 00047	AnalysisComment
MB 410-298853/1		3510C, NWTPH-Dx		<2 SU	n/a SU	n		1 mL	DI H20
LCS 410-298853/2		3510C, NWTPH-Dx		<2 SU	n/a SU	n	1 mL	1 mL	DI H20
LCSD 410-298853/3		3510C, NWTPH-Dx		<2 SU	n/a SU	n	1 mL	1 mL	DI H20
580-117672-A-6	MW-13_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	black cloudy with black sediment
580-117672-A-8	MW-15_2022097	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	black cloudy with black sediment
580-117672-K-13	B1-JPHC_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	clear with black sediment
580-117672-K-14	DUP-1_20220907	3510C, NWTPH-Dx	T	n/a SU	n/a SU	n		1 mL	clear with black sediment

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 Lancaster Laboratories | Job No.: 580-117672-1

SDG No.:

Batch Number: 298853 | Batch Start Date: 09/22/22 11:03 | Batch Analyst: Carrick, Adam

Batch Method: 3510C | Batch End Date: 09/22/22 13:01

Batch Notes	
Balance ID	25996
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	AGC40572, RSR34942
Analyst ID - Spike Analyst	AGC40572
Acid Used for pH Adjustment ID	HCl:1108912
Prep Solvent ID	MeCl2:222699
Prep Solvent Volume Used	45 mL
Na2SO4 ID	22264A
Analyst ID - Concentration	AGC40572, RSR34942
Equipment ID - Concentration 1	RapidVap#4
Concentration 1 Corrected Temperature	80 Degrees C

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 Lancaster Laboratories | Job No.: 580-117672-1

SDG No.:

Batch Number: 295455 | Batch Start Date: 09/14/22 07:30 | Batch Analyst: Arosemena, Olivia C

Batch Method: SM 2540C | Batch End Date: 09/15/22 06:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2
MB 410-295455/1		SM 2540C			B0668114	3.5160 g	200 mL	3.5155 g	3.5154 g
LCS 410-295455/2		SM 2540C			B0668127	3.5064 g	100 mL	3.5262 g	3.5262 g
580-117672-N-1	MW-4_20220907	SM 2540C	T	487.5 uS/cm	B0668128	3.5562 g	200 mL	3.6070 g	3.6071 g
580-117672-N-2	MW-8_20220907	SM 2540C	T	721.8 uS/cm	B0668129	3.4947 g	100 mL	3.5393 g	3.5390 g
580-117672-N-3	MW-10_20220907	SM 2540C	T	631.9 uS/cm	B0668115	3.8625 g	100 mL	3.9014 g	3.9014 g
580-117672-N-5	MW-12_20220907	SM 2540C	T	641.2 uS/cm	B0668126	3.4742 g	100 mL	3.5107 g	3.5126 g
580-117672-H-6	MW-13_20220907	SM 2540C	T	3.12 mS/cm	B0668125	3.7506 g	25 mL	3.8116 g	3.8126 g
580-117672-H-6 DU	MW-13_20220907	SM 2540C	T	3.12 mS/cm	B0668124	3.3805 g	25 mL	3.4417 g	3.4426 g
580-117672-H-8	MW-15_2022097	SM 2540C	T	742.1 uS/cm	B0668123	3.4295 g	100 mL	3.4659 g	3.4656 g
580-117672-N-10	MW-19_20220907	SM 2540C	T	562.8 uS/cm	B0668122	3.4697 g	200 mL	3.5264 g	3.5268 g
580-117672-N-13	B1-JPHC_20220907	SM 2540C	T	1.342 mS/cm	B0668121	3.4100 g	50 mL	3.4473 g	3.4490 g
580-117672-N-13 MS	B1-JPHC_20220907	SM 2540C	T	1.342 mS/cm	B0668120	3.4245 g	50 mL	3.5015 g	3.5021 g
580-117672-N-13 DU	B1-JPHC_20220907	SM 2540C	T	1.342 mS/cm	B0668119	3.4639 g	50 mL	3.5020 g	3.5024 g
580-117672-N-14	DUP-1_20220907	SM 2540C	T	1.283 mS/cm	B0666829	3.4489 g	50 mL	3.4871 g	3.4875 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Weight3	Weight4	WeightOne%Diff	WeightTwo%Diff	Weight4OK	Residue
MB 410-295455/1		SM 2540C				Pass No Unit	N/A No Unit	N/A	-0.0005 g
LCS 410-295455/2		SM 2540C				Pass No Unit	N/A No Unit	N/A	0.0198 g
580-117672-N-1	MW-4_20220907	SM 2540C	T			Pass No Unit	N/A No Unit	N/A	0.0508 g
580-117672-N-2	MW-8_20220907	SM 2540C	T			Pass No Unit	N/A No Unit	N/A	0.0446 g
580-117672-N-3	MW-10_20220907	SM 2540C	T			Pass No Unit	N/A No Unit	N/A	0.0389 g
580-117672-N-5	MW-12_20220907	SM 2540C	T	3.5107 g	3.5105 g	Fail >0.5mg No Unit	Fail >0.5mg No Unit	Pass	0.0365 g
580-117672-H-6	MW-13_20220907	SM 2540C	T	3.8123 g		Fail >0.5mg No Unit	Pass No Unit	N/A	0.061 g
580-117672-H-6 DU	MW-13_20220907	SM 2540C	T	3.4425 g		Fail >0.5mg No Unit	Pass No Unit	N/A	0.0612 g
580-117672-H-8	MW-15_2022097	SM 2540C	T			Pass No Unit	N/A No Unit	N/A	0.0364 g
580-117672-N-10	MW-19_20220907	SM 2540C	T			Pass No Unit	N/A No Unit	N/A	0.0567 g

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 Lancaster Laboratories | Job No.: 580-117672-1

SDG No.:

Batch Number: 295455 | Batch Start Date: 09/14/22 07:30 | Batch Analyst: Arosemena, Olivia C

Batch Method: SM 2540C | Batch End Date: 09/15/22 06:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	Weight3	Weight4	WeightOne%Diff	WeightTwo%Diff	Weight4OK	Residue
580-117672-N-13	B1-JPHC_20220907	SM 2540C	T	3.4487 g		Fail >0.5mg No Unit	Pass No Unit	N/A	0.0373 g
580-117672-N-13 MS	B1-JPHC_20220907	SM 2540C	T	3.5018 g		Fail >0.5mg No Unit	Pass No Unit	N/A	0.077 g
580-117672-N-13 DU	B1-JPHC_20220907	SM 2540C	T			Pass No Unit	N/A No Unit	N/A	0.0381 g
580-117672-N-14	DUP-1_20220907	SM 2540C	T			Pass No Unit	N/A No Unit	N/A	0.0382 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue2	Residue3	Residue4	FinalAmount	CalcMsg	WC_TDS_4000 00036
MB 410-295455/1		SM 2540C		-0.0006 g	N/A g	N/A g	200 mL	OK	
LCS 410-295455/2		SM 2540C		0.0198 g	N/A g	N/A g	200 mL	OK	
580-117672-N-1	MW-4_20220907	SM 2540C	T	0.0509 g	N/A g	N/A g	200 mL	OK	
580-117672-N-2	MW-8_20220907	SM 2540C	T	0.0443 g	N/A g	N/A g	200 mL	OK	
580-117672-N-3	MW-10_20220907	SM 2540C	T	0.0389 g	N/A g	N/A g	200 mL	OK	
580-117672-N-5	MW-12_20220907	SM 2540C	T	0.0384 g	0.0365 g	0.0363 g	200 mL	OK	
580-117672-H-6	MW-13_20220907	SM 2540C	T	0.062 g	0.0617 g	N/A g	200 mL	OK	
580-117672-H-6 DU	MW-13_20220907	SM 2540C	T	0.0621 g	0.062 g	N/A g	200 mL	OK	
580-117672-H-8	MW-15_2022097	SM 2540C	T	0.0361 g	N/A g	N/A g	200 mL	OK	
580-117672-N-10	MW-19_20220907	SM 2540C	T	0.0571 g	N/A g	N/A g	200 mL	OK	
580-117672-N-13	B1-JPHC_20220907	SM 2540C	T	0.039 g	0.0387 g	N/A g	200 mL	OK	
580-117672-N-13 MS	B1-JPHC_20220907	SM 2540C	T	0.0776 g	0.0773 g	N/A g	200 mL	OK	10 mL
580-117672-N-13 DU	B1-JPHC_20220907	SM 2540C	T	0.0385 g	N/A g	N/A g	200 mL	OK	
580-117672-N-14	DUP-1_20220907	SM 2540C	T	0.0386 g	N/A g	N/A g	200 mL	OK	

Lab Sample ID	Client Sample ID	Method Chain	Basis	WC_TDS_LCS 00138					
MB 410-295455/1		SM 2540C							
LCS 410-295455/2		SM 2540C		100 mL					
580-117672-N-1	MW-4_20220907	SM 2540C	T						
580-117672-N-2	MW-8_20220907	SM 2540C	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 Lancaster Laboratories | Job No.: 580-117672-1

SDG No.:

Batch Number: 295455 | Batch Start Date: 09/14/22 07:30 | Batch Analyst: Arosemena, Olivia C

Batch Method: SM 2540C | Batch End Date: 09/15/22 06:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	WC_TDS_LCS 00138					
580-117672-N-3	MW-10_20220907	SM 2540C	T						
580-117672-N-5	MW-12_20220907	SM 2540C	T						
580-117672-H-6	MW-13_20220907	SM 2540C	T						
580-117672-H-6 DU	MW-13_20220907	SM 2540C	T						
580-117672-H-8	MW-15_2022097	SM 2540C	T						
580-117672-N-10	MW-19_20220907	SM 2540C	T						
580-117672-N-13	B1-JPHC_20220907	SM 2540C	T						
580-117672-N-13 MS	B1-JPHC_20220907	SM 2540C	T						
580-117672-N-13 DU	B1-JPHC_20220907	SM 2540C	T						
580-117672-N-14	DUP-1_20220907	SM 2540C	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 Lancaster Laboratories | Job No.: 580-117672-1

SDG No.:

Batch Number: 295455 Batch Start Date: 09/14/22 07:30 Batch Analyst: Arosemena, Olivia C

Batch Method: SM 2540C Batch End Date: 09/15/22 06:15

Batch Notes	
Nominal Amount Used	200 mL
Conductivity Meter ID	1107672
Filter ID	17491437
Balance ID	27505
Vessel Lot ID	202224001-2223-MS
Oven ID	6605
Thermometer ID	1048
Weight(WT1) Start Date/Time	09/14/2022 07:30
Uncorrected Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Date/Time Out	09/14/2022 15:08
Uncorrected Weight(WT1) Temp Out	180 Celsius
Weight(WT1) Temp Out	180 Celsius
Date/Time - In - CW (WT2)	09/14/2022 16:03
Temperature - Start-CW(WT2) -Uncorrected	180 Celsius
Temperature - Start - CW (WT2) - Correct	180 Celsius
Date/Time - Out - CW (WT2)	09/14/2022 18:51
Temperature - End-CW(WT2) -Uncorrected	180 Celsius
Temperature - End - CW (WT2) - Correct	180 Celsius
Date/Time - In - CW (WT3)	09/14/2022 19:52
Temperature - Start-CW(WT3) -Uncorrected	180 Celsius
Temperature - Start - CW (WT3) - Correct	180 Celsius
Date/Time - Out - CW (WT3)	09/14/2022 20:53
Temperature - End-CW(WT3) -Uncorrected	180 Celsius
Temperature - End - CW (WT3) - Correct	180 Celsius
Date/Time - In - CW (WT4)	09/14/2022 21:33
Temperature - Start-CW(WT4) -Uncorrected	180 Celsius
Temperature - Start - CW (WT4) - Correct	180 Celsius
Date/Time - Out - CW (WT4)	09/15/2022 06:15
Temperature - End-CW(WT4) -Uncorrected	180 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 Lancaster Laboratories | Job No.: 580-117672-1

SDG No.:

Batch Number: 295455 | Batch Start Date: 09/14/22 07:30 | Batch Analyst: Arosemena, Olivia C

Batch Method: SM 2540C | Batch End Date: 09/15/22 06:15

Constant Weight (WT4) Temp Out	180 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.