

AUGUST 2023 GROUNDWATER MONITORING REPORT

**PACIFIC CITY PARK
600 THIRD AVENUE SOUTHEAST
PACIFIC, WASHINGTON**



King County

River and Floodplain Management Section
Water and Land Resources Division

Note:

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AUGUST 2023 GROUNDWATER MONITORING REPORT

**PACIFIC CITY PARK
600 THIRD AVENUE SOUTHEAST
PACIFIC, WASHINGTON**

Prepared for



King County

**River and Floodplain Management Section
King County Water and Land Resources Division
201 South Jackson Street, Suite 600
Seattle, Washington 98104**

Prepared by

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**In Conjunction with
Aspect Consulting, LLC**

November 15, 2023



Prepared by:

King County River and Floodplain Management Section
King County Water and Land Resources Division

Herrera Environmental Consultants, Inc.

For comments or questions contact:

Mary Strazer, Senior Engineer – 206-263-5817

Alternate Formats Available.

Call 206-477-4812 or TTY 711

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CERTIFICATE OF LICENSED HYDROGEOLOGIST

This document has been prepared under the supervision of a licensed hydrogeologist.

Bruce Carpenter, LHG

Name

October 28, 2023

Date

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1. INTRODUCTION

This report documents the results of quarterly groundwater monitoring completed in August 2023 for Pacific City Park, located at 600 Third Avenue Southeast in Pacific, Washington (herein referred to as the Site; Figures 1 and 2). This report supplements the Remedial Investigation (RI) Report (Herrera 2019a), the Supplemental RI (SRI) Report and associated Monitoring Reports (Herrera 2019b, 2019c, 2019d, 2019e), and the Sampling and Analysis Plan Addendum Memorandum (Herrera 2023a) submitted by King County to the Washington State Department of Ecology (Ecology), which includes groundwater monitoring described in this report. The Site was an informal dumpsite and city dump between approximately 1921 and 1965. It is defined as any location where one or more of the contaminants of potential concern (COPCs) associated with the dumpsite are present in Site media at concentrations exceeding the screening levels developed for the RI.

The August 2023 monitoring was conducted to further evaluate the nature and extent of hazardous substances in groundwater at the Site and to support the development, selection, and implementation of a cleanup action. Since 2015, four quarters or more of groundwater monitoring have been completed for wells MW-1 through MW-12. The August 2023 groundwater monitoring was the second quarterly sampling event for wells MW-13 and MW-14, which were installed and sampled in May 2023 as part of a second Supplemental RI (Herrera 2023b).

King County is performing work at the Site to meet the requirements of the Model Toxics Control Act (MTCA) Cleanup Regulation, Chapter 173-340 WAC, for an RI and feasibility study (FS), and to select and implement a cleanup action alternative. The August 2023 quarterly monitoring was conducted to collect additional data and information on the seasonal variability of conditions at the Site and areas located adjacent to the west of the Site boundary.



Legend

- Study area
- County boundary
- City limits
- Waterbody
- Stream (King County)
- Roads



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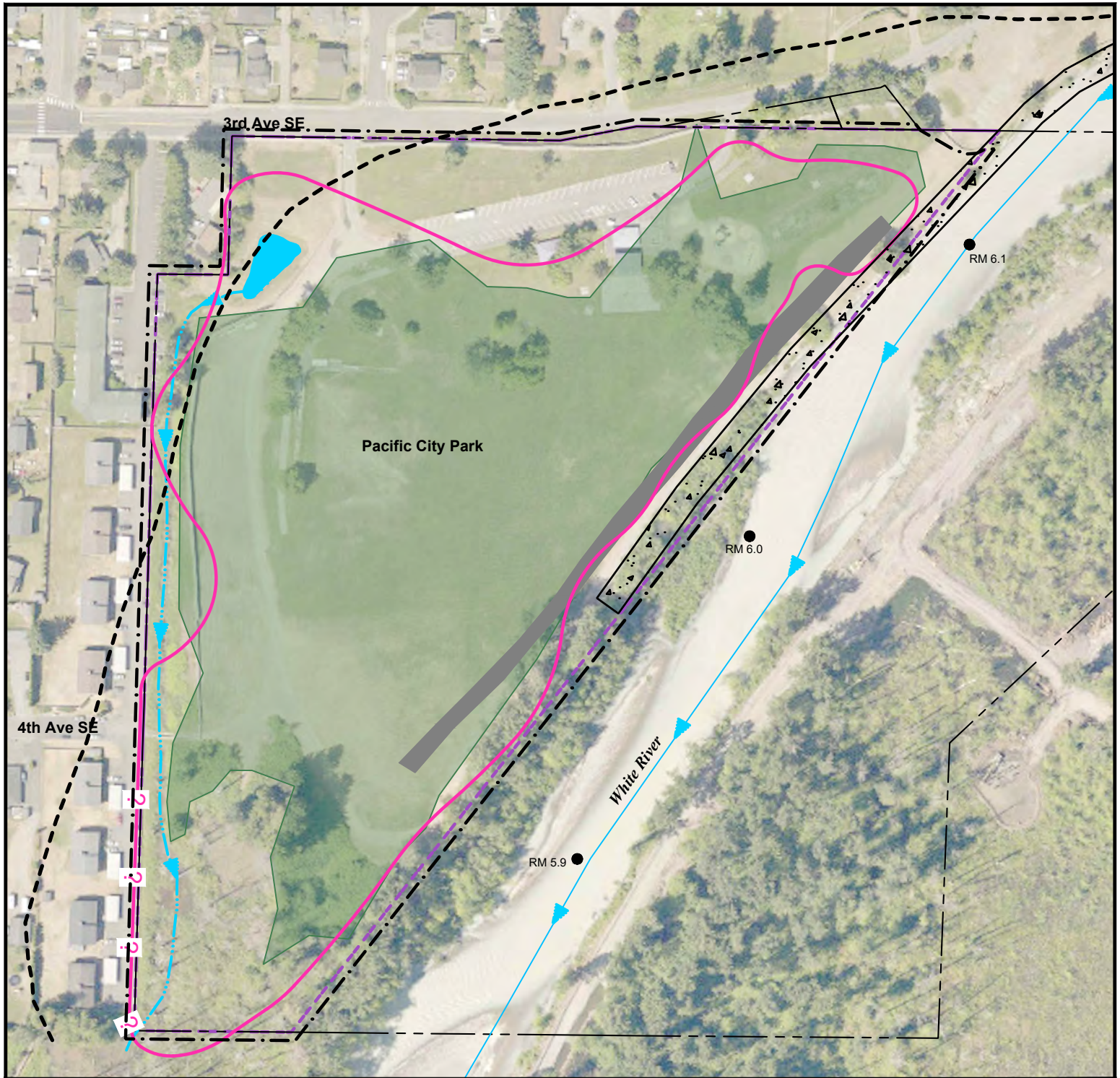
Figure 1.
Vicinity Map, Pacific City Park, Pacific,
Washington.

0 1,500 3,000 6,000
Feet



Aerial: King County (2017)
Prepared for King County by Herrera
K:\Projects\Y 2017\17-06520-000\Project\Report\RI\Fig1_GW_VicinityMap_letter.mxd (11/8/2019)

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Legend

- Parcel boundary
- .-.- Study area
- Park boundary
- Site boundary
- Historical extent of river floodplain based on 1936 aerial photograph (source: King County)
- Approximate extent of historic fill/dumping
- Existing stormwater pond
- Existing concrete revetment
- Existing stormwater ditch
- Linear feature identified during 2018 geophysical survey in vicinity of historic levee
- RM 6.0 River mile (10th)

Figure 2.
Site Map, Pacific City Park,
Pacific, Washington.

0 100 200 400 Feet



Aerial source: King County (2017)
 O:\proj\Y2017\17-06520-000\CAD\Drawg\August 2023 GW monitoring report\Fig2_Site Map.dwg

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1.1. GENERAL SITE INFORMATION

Site Name	Pacific City Park
Site Address	600 Third Avenue Southeast
Facility Site Identification number (FSID)	2160
King County Assessor's Parcel No.	3621049040
Cleanup Site ID	21
VCP Project Number	NW3204
Ecology Site Manager	Michael Warfel

The project consultant is Mark Ewbank with Herrera Environmental Consultants, Inc. (Herrera), located at 2200 Sixth Avenue, Suite 1100, Seattle, Washington 98121. Telephone: 206-787-8217, and email: MEwbank@herrerainc.com.

Pacific City Park is owned by King County, with a portion, approximately 21 acres, leased to the City of Pacific for use as a City park. Mary Strazer, Senior Engineer with the River and Floodplain Management Section of the King County Water and Land Resources Division, is the Site contact. Her office is located at 201 South Jackson Street, Suite 600, Seattle, Washington 98104; telephone: 206-263-5817, and email: mstrazer@kingcounty.gov.

2. METHODS

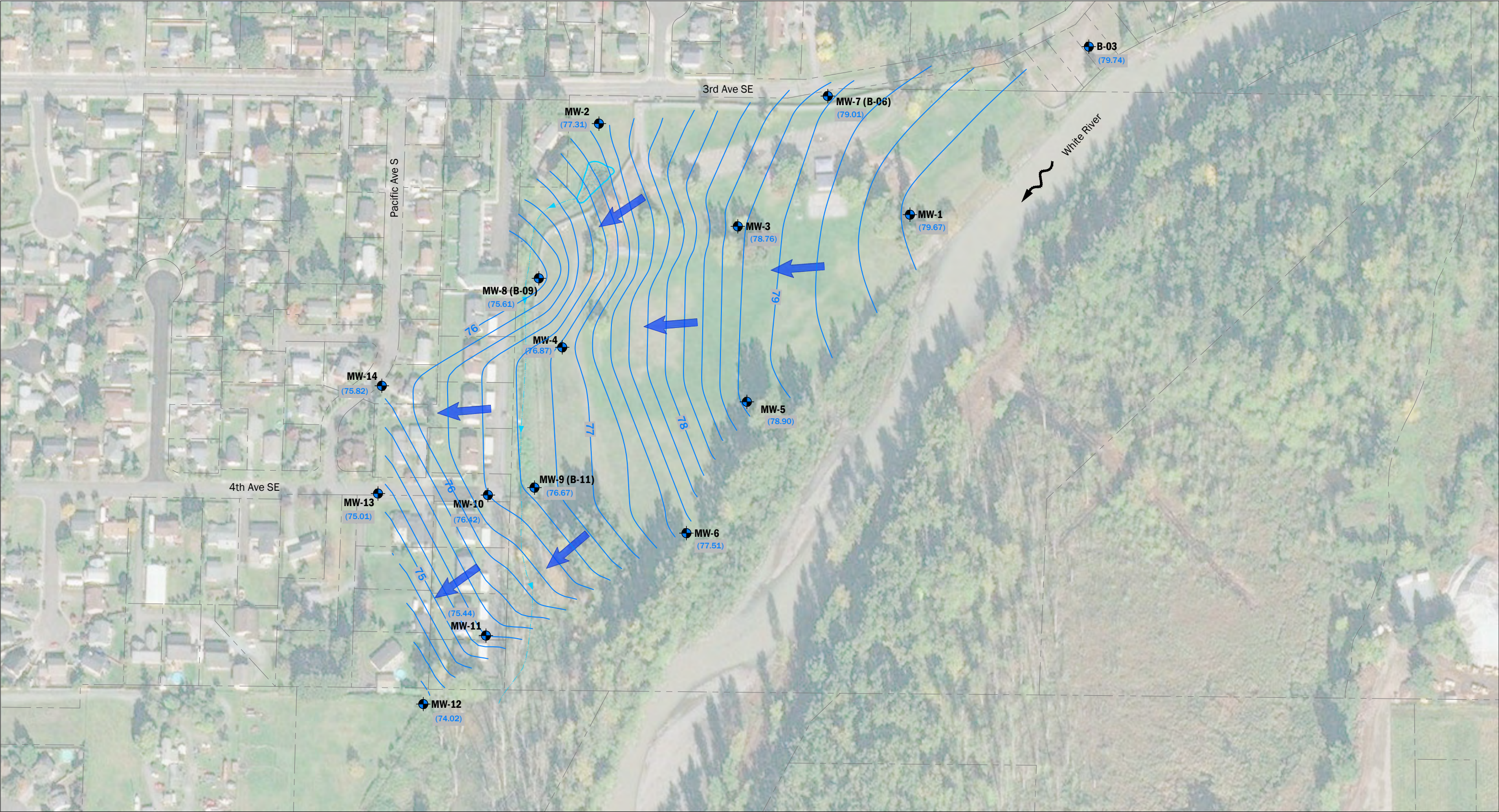
On August 15 and 16, 2023, Herrera staff collected groundwater samples from 14 monitoring wells, MW-1 through MW-14, across the Site. The work was conducted in general accordance with the Sampling and Analysis Plan (SAP) (Herrera 2023b). The locations of all monitoring wells at the Site are depicted on Figure 3.

2.1. GROUNDWATER SAMPLING

On August 15, 2023, Herrera staff collected one round of static groundwater levels from monitoring wells MW-1 through MW-14 and boring B-03 (see Figure 3). On August 15 through 16, 2023, Herrera staff collected groundwater samples from all 14 monitoring wells (MW-1 through MW-14) and hand delivered the samples to OnSite Environmental, Inc. (OnSite) for laboratory analysis. All samples were submitted for analysis of volatile organic compounds (VOCs) by EPA Method 8260D. In addition, MW-4, and MW-9 through MW-14 were also sampled for carcinogenic polycyclic aromatic hydrocarbons (cPAHs) by EPA Method 8270D/SIM and total and dissolved MTCA metals by EPA Methods 200.8/7470A.

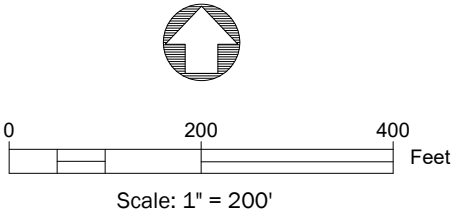
All samples were collected using the low-flow purge method described in the SAP (Herrera 2023b), and dissolved metals samples were field filtered.

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Legend

-  Monitoring Well Location
-  Stormwater Ditch
-  Property Line
-  (75.61) Groundwater Elevation (August 15, 2023)
-  76 Groundwater Elevation Contour (August 15, 2023)
-  Groundwater Flow Direction (August 15, 2023)



Source: Background CAD file and imagery provided by Herrera, January, 2018.

DRAFT

Water Level Contour Map
August 15, 2023
Pacific Park,
Pacific, Washington



Oct-2023
REVISED BY:
MML/SCC

FIGURE NO.
3

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3. RESULTS

The analytical results for samples collected in August 2023 are compared to the Site Screening Levels (SSLs) developed in the RI Report based on current and potential future exposure pathways and receptors (Herrera 2019a).

3.1. GROUNDWATER CONDITIONS

On August 15, 2023, static groundwater levels measured in monitoring wells MW-1 through MW-14 and B-03 ranged from 1.47 feet below the top of the well monument (btom) in MW-7 to 6.60 feet btom in MW-6 (see Table 1—all tables appear in a separate section following the main report text). Groundwater flow is consistent with previous monitoring events and flow is generally toward the west-southwest.

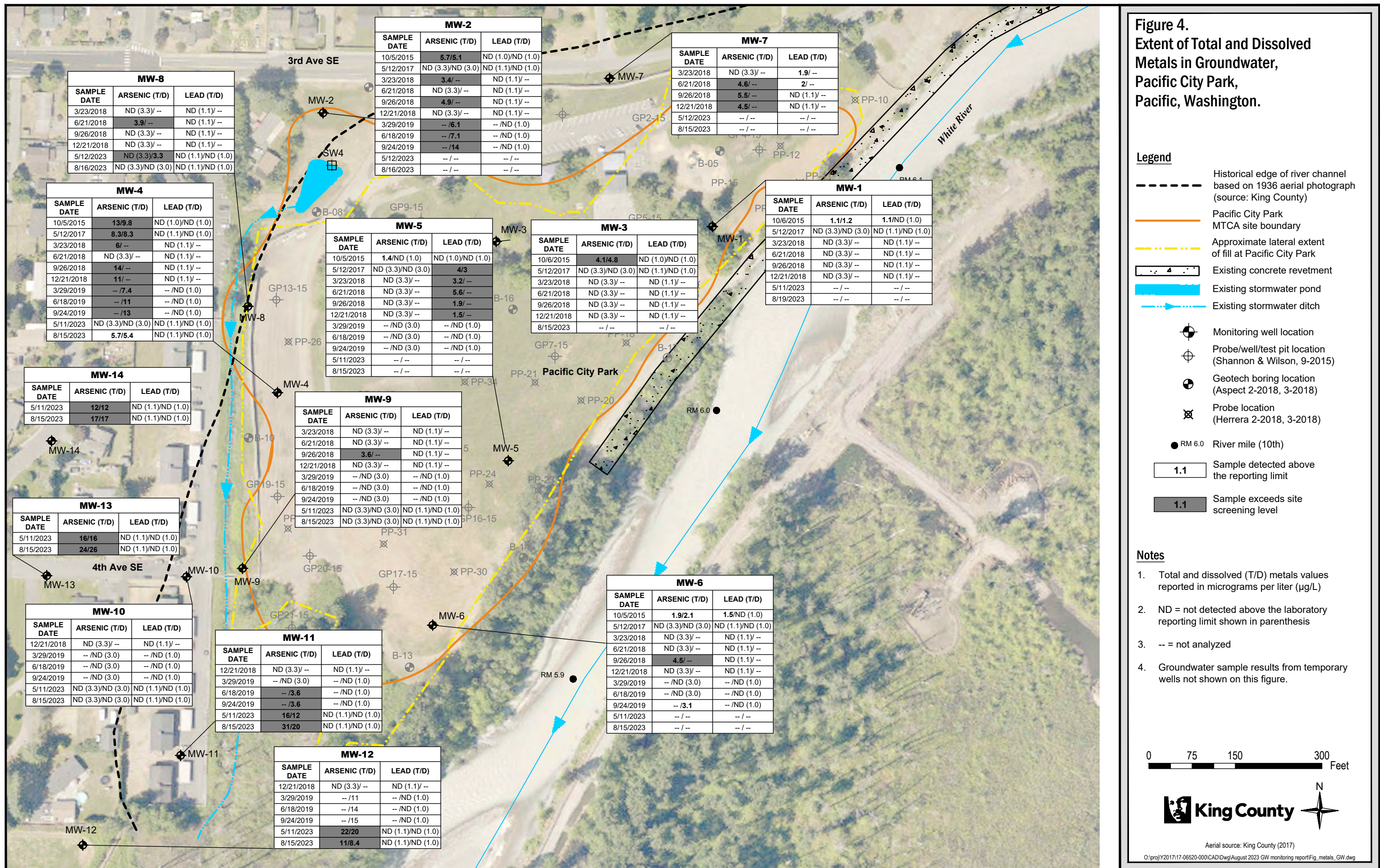
3.2. GROUNDWATER ANALYTICAL RESULTS

A summary of groundwater analytical results for samples collected from monitoring wells is presented in Table 2. Figures 4 and 5 depict the laboratory results for metals and non-metal COPCs in groundwater, respectively.

During the August 2023 sampling event, VOCs were non-detect in groundwater samples collected in monitoring wells MW-1, MW-2, MW-5, MW-6, MW-7, and wells MW-13 and MW-14, which were installed and first sampled in May 2023. Detections of vinyl chloride in groundwater samples collected from MW-3, MW-4, MW-8, MW-9, and MW-11 were above the site screening level (SSL) of 0.02 µg/L and ranged from 0.035 µg/L in MW-11 to 0.27 µg/L in MW-3. Other detections of VOCs in groundwater during the August 2023 sampling event included: cis-1,2-dichloroethene (cDCE) was detected below the SSL (16 µg/L) at 0.23 µg/L in groundwater from MW-3; chlorobenzene was detected at low concentrations and below the SSL (100 µg/L) in MW-4, MW-9, and MW-11 at concentrations from 0.27 to 0.96 µg/L; chloromethane, which has no established SSL or MTCA cleanup level (CUL), was detected in MW-12 at 1.8 µg/L; and acetone, a common laboratory contaminant, was found at low levels (5.5 to 11 µg/L) in 12 of the groundwater samples below the MTCA Method B cleanup level of 7,200 µg/L (no SSL is established for acetone in groundwater).

In MW-10, carcinogenic polyaromatic hydrocarbons (cPAHs) benzo(a)anthracene, chrysene, benzo(b)fluoranthene, and benzo(a)pyrene were detected above their individual SSLs (each 0.01 µg/L) in groundwater from MW-10. Concentrations of these four detected cPAHs ranged from 0.012 to 0.024 µg/L. The weighted toxic equivalency quotient (TEQ) for cPAHs in groundwater from MW-10 was 0.018 µg/L, which is above the SSL of 0.015 µg/L.

Of the five MTCA metals, total and dissolved arsenic was detected above the SSL of 3.3 µg/L in groundwater from monitoring wells MW-4 and MW-11 through MW-14. Total arsenic ranged from 5.7 to 31 µg/L in MW-4 and MW-11, respectively. Dissolved arsenic ranged from 5.4 to 26 µg/L in MW-4 and MW-13, respectively (Table 2). These results are generally consistent with the results of previous groundwater sampling events at the Site.



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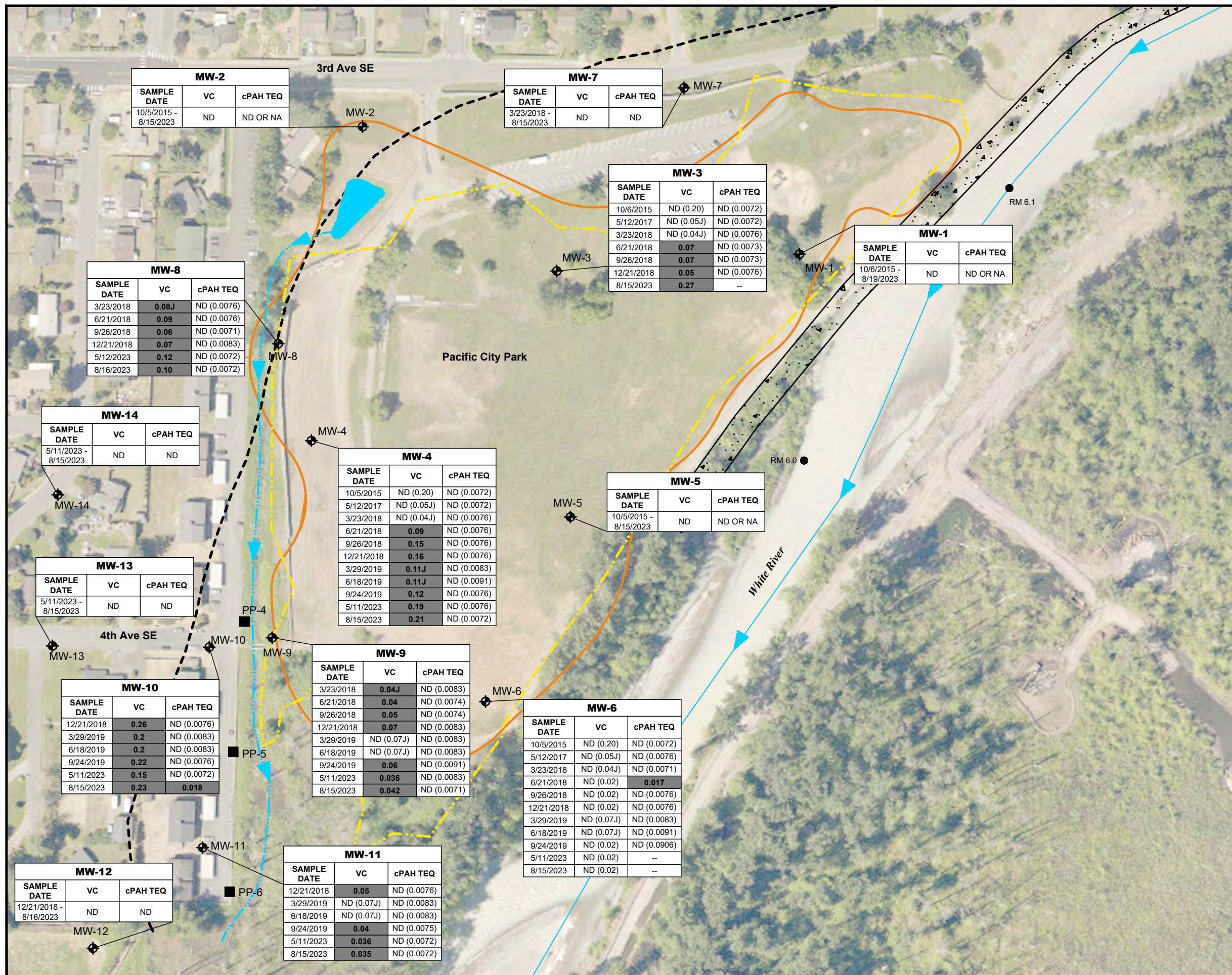


Figure 5.
Non-metals Contaminants of
Concern in Groundwater,
Pacific City Park,
Pacific, Washington.

- Legend**
- Historical edge of river channel based on 1936 aerial photograph (source: King County)
 - Pacific City Park MTCA site boundary
 - Approximate lateral extent of fill at Pacific City Park
 - Existing concrete revetment
 - Existing stormwater pond
 - Existing stormwater ditch
 - Monitoring well location
 - Probe location (Herrera, 5-2017)
 - RM 6.0 River mile (10th)
 - 1.1 Sample exceeds site screening level

- Notes**
- Results reported in micrograms per liter (µg/L)
 - ND = not detected above the laboratory reporting limit shown in parenthesis
 - NA or -- = not analyzed
 - Groundwater sample results from temporary wells not shown on this figure

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3.3. LAB ANALYSIS

Laboratory analyses for the August 2023 investigation were performed by OnSite, of Redmond, Washington, an Ecology-accredited laboratory. Laboratory reports and chain-of-custody forms are included in Appendix A.

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4. CONCLUSIONS

This monitoring report presents groundwater monitoring data that supplements information previously presented in the RI report (Herrera 2019a), Supplemental RI report (Herrera 2019b), previous monitoring reports (Herrera 2019c, 2019d, 2019e), and Sampling and Analysis Plan Addendum (Herrera 2023b) prepared for the Site.

Water levels from the August 2023 monitoring event indicate groundwater flow is generally consistent with previous monitoring events and was observed to flow toward the west-southwest.

Analytical results for this sampling event are consistent with previous sampling events performed at the Site. VC was detected above the SSL (0.02 µg/L) in groundwater in monitoring wells MW-3, MW-4, and MW-8 through MW-11 from 0.035 to 0.27 µg/L. Previous VC sampling results from 2015 through 2019 in these six monitoring wells ranged from non-detect (<0.02 µg/L) to 0.26 µg/L. VC has not been detected in groundwater samples collected from monitoring wells MW-1, MW-2, MW-5 through MW-7, and MW-12 through MW-14. The western extent of VC in groundwater remains between the western side of the stormwater ditch and the east side of the Fourth Avenue Southeast apartments.

Additional detections of VOCs in groundwater below their respective SSLs, including the detections of cDCE in MW-3 and chlorobenzene in MW-4, and MW-9 through MW-11 are consistent with previous sampling results for those locations. Chloromethane, which was detected in groundwater from MW-12 during this sampling event has not previously been detected at the Site. Chloromethane is primarily associated with natural sources, especially from burnt or rotting wood and it does not have any listed MTCA cleanup levels for groundwater or soil. Acetone, a common laboratory contaminant was detected below the MTCA Method B groundwater cleanup level (7,200 µg/L) in groundwater samples at concentrations of 5.5 to 11 µg/L from MW-2 through MW-9 and MW-11 through MW-14.

The detection of cPAHs and their associated TEQ above SSLs in the groundwater sample collected from MW-10 are the first non-detect results of cPAHs in groundwater from MW-10. cPAHs in groundwater at the Site have previously been non-detect, with the exception of the sample collected from MW-6 during the June 2018 sampling event (Table 2).

Of the five MTCA metals, only total and dissolved arsenic was detected in groundwater from samples collected from five wells: MW-4 and MW-11 through MW-14. Total and dissolved arsenic were not detected in groundwater samples during this sampling event in MW-8, MW-9, and MW-10. Detections and associated SSL exceedances of arsenic in groundwater at the Site have been variable with no apparent seasonal fluctuations. In general, the highest detections of total and dissolved arsenic in groundwater have been detected outside the Park in MW-11 through MW-14. Arsenic has been detected in groundwater samples collected from

across the Site, is naturally occurring in soil and groundwater in Washington state and is not present at concentrations that warrant remedial action.

The VOC, metals, and cPAH groundwater data reinforce the conclusions from the RI and SRI that leaching of contaminants from the dumpsite is not affecting groundwater quality at concentrations that pose a risk to human health or the environment.

As described in the April 2023 SAP, two additional rounds of quarterly groundwater samples will be collected in November 2023 and February 2024 from all 14 monitoring wells located on and near the Park to further evaluate the nature and extent of hazardous substances in groundwater at the Site.

5. REFERENCES

Herrera. 2018. Sampling and Analysis Plan, Environmental Exploration, Pacific Park/Dumpsite, Pacific, Washington. Prepared for the River and Floodplain Management Section, King County Water and Land Resources Division by Herrera Environmental Consultants, Inc., Seattle, Washington. February 13.

Herrera. 2019a. Remedial Investigation Report, Pacific City Park, Pacific, Washington. Prepared for the River and Floodplain Management Section, King County Water and Land Resources Division by Herrera Environmental Consultants, Inc., Seattle, Washington. January 4.

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Herrera. 2019c. March 2019 Monitoring Report, Pacific City Park, Pacific, Washington. Prepared for the River and Floodplain Management Section, King County Water and Land Resources Division by Herrera Environmental Consultants, Inc., Seattle, Washington. June 10.

Herrera. 2019d. June/July 2019 Monitoring Report, Pacific City Park, Pacific, Washington. Prepared for the River and Floodplain Management Section, King County Water and Land Resources Division by Herrera Environmental Consultants, Inc., Seattle, Washington. October 1

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Herrera. 2023a. Vapor Intrusion and Groundwater Exploration, Pacific Park, Pacific Washington: May 2023 Sampling Results and Conclusions/Sampling and Analysis Plan Addendum. Prepared for the River and Floodplain Management Section, King County Water and Land Resources Division by Herrera Environmental Consultants, Inc., Seattle, Washington. July 25.

Herrera. 2023b. Sampling and Analysis Plan, Vapor Intrusion and Groundwater Exploration, Pacific Park/Dumpsite, Pacific, Washington. Prepared for the River and Floodplain Management Section, King County Water and Land Resources Division by Herrera Environmental Consultants, Inc., Seattle, Washington. August 3, 2022. Updated April 24, 2023.

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TABLES

**Table 1. Summary of Water Level Elevation Data from Monitoring Wells,
Pacific City Park Remedial Investigation, Pacific, Washington.**

Monitoring Well Identification	Measurement Date	Reference Elevation (feet) ^a	Depth to Water (feet)	Water Level Elevation (feet)
MW-1	5/12/2017	83.16	2.33	80.83
	3/23/2018		2.84	80.32
	6/21/2018		3.12	80.04
	9/26/2018		5.80	77.36
	12/21/2019		2.73	80.43
	3/29/2019		3.20	79.96
	6/18/2019		3.20	79.96
	9/24/2019		5.01	78.15
	5/11/2023	83.46	1.82	81.64
	8/15/2023		3.79	79.67
MW-2	5/12/2017	79.85	2.00	77.85
	3/23/2018		1.81	78.04
	6/21/2018		2.32	77.53
	9/26/2018		3.68	76.17
	12/21/2019		2.07	77.78
	3/29/2019		2.07	77.78
	6/18/2019		2.52	77.33
	9/24/2019		3.31	76.54
	5/11/2023	80.15	1.49	78.66
	8/15/2023		2.84	77.31
MW-3	5/12/2017	80.01	0.40	79.61
	3/23/2018		0.55	79.46
	6/21/2018		1.27	78.74
	9/26/2018		3.01	77.00
	12/21/2019		0.68	79.33
	3/29/2019		1.10	78.91
	6/18/2019		1.13	78.88
	9/24/2019		2.36	77.65
	5/11/2023	80.31	NM	NM
	8/15/2023		1.55	78.76
MW-4	5/12/2017	80.14	2.73	77.41
	3/23/2018		3.09	77.05
	6/21/2018		3.53	76.61
	9/26/2018		4.54	75.60
	12/21/2019		3.16	76.98
	3/29/2019		3.40	76.74
	6/18/2019		3.40	76.74
	9/24/2019		4.11	76.03
	5/11/2023	80.44	2.59	77.85
	8/15/2023		3.57	76.87

Table 1 (continued). Summary of Water Level Elevation Data from Monitoring Wells, Pacific City Park Remedial Investigation, Pacific, Washington.

Monitoring Well Identification	Measurement Date	Reference Elevation (feet) ^a	Depth to Water (feet)	Water Level Elevation (feet)
MW-5	5/12/2017	81.40	1.60	79.80
	3/23/2018		2.26	79.14
	6/21/2018		2.38	79.02
	9/26/2018		4.80	76.60
	12/21/2019		2.04	79.36
	3/29/2019		2.42	78.98
	6/18/2019		2.42	78.98
	9/24/2019		4.07	77.33
	5/11/2023	81.69	1.26	80.43
	8/15/2023		2.79	78.90
MW-6	5/12/2017	83.81	5.71	78.10
	3/23/2018		6.65	77.16
	6/21/2018		6.60	77.21
	9/26/2018		8.53	75.28
	12/21/2019		6.42	77.39
	3/29/2019		6.76	77.05
	6/18/2019		6.64	77.17
	9/24/2019		7.95	75.86
	5/11/2023	84.11	5.32	78.79
	8/15/2023		6.60	77.51
MW-7 (B-06)	3/23/2018	79.82	0.32	79.50
	6/21/2018		0.78	79.04
	9/26/2018		2.68	77.14
	12/21/2019		0.84	78.98
	3/29/2019		0.69	79.13
	6/18/2019		1.02	78.80
	9/24/2019		2.06	77.76
	5/11/2023	80.48	0.68	79.80
	8/15/2023		1.47	79.01
MW-8 (B-09)	3/23/2018	79.95	2.63	77.32
	6/21/2018		3.12	76.83
	9/26/2018		4.20	75.75
	10/9/2019		4.03	75.92
	12/21/2019		3.05	76.90
	3/29/2019		3.27	76.68
	6/18/2019		3.24	76.71
	9/24/2019		3.76	76.19
	5/11/2023	80.56	2.51	78.05
	8/16/2023		4.95	75.61

Table 1 (continued). Summary of Water Level Elevation Data from Monitoring Wells, Pacific City Park Remedial Investigation, Pacific, Washington.

Monitoring Well Identification	Measurement Date	Reference Elevation (feet) ^a	Depth to Water (feet)	Water Level Elevation (feet)
MW-9 (B-11)	3/23/2018	82.59	5.85	76.74
	6/21/2018		6.02	76.57
	9/26/2018		6.98	75.61
	12/21/2019		6.20	76.39
	3/29/2019		6.40	76.19
	6/18/2019		6.35	76.24
	9/24/2019		7.03	75.56
	5/11/2023	83.26	5.83	77.43
	8/15/2023		6.59	76.67
MW-10	12/21/2019	79.14	2.71	76.43
	3/29/2019		2.87	76.27
	6/18/2019		2.87	76.27
	9/24/2019		3.35	75.79
	5/11/2023	79.44	2.48	76.96
	8/15/2023		3.02	76.42
MW-11	12/21/2019	79.52	4.05	75.47
	3/29/2019		4.35	75.17
	6/18/2019		4.34	75.18
	9/24/2019		4.72	74.80
	5/11/2023	79.82	3.80	76.02
	8/15/2023		4.38	75.44
MW-12	12/21/2019	78.11	2.51	75.60
	3/29/2019		3.12	74.99
	6/18/2019		4.02	74.09
	9/24/2019		4.39	73.72
	5/11/2023	78.51	2.90	75.61
	8/16/2023		4.49	74.02
MW-13	5/11/2023	80.84	4.12	76.72
	8/15/2023		5.83	75.01
MW-14	5/11/2023	81.78	3.76	78.02
	8/15/2023		5.96	75.82
B-03 ^b	3/23/2018	86.12	5.52	80.60
	6/21/2018		5.41	80.71
	9/26/2018		8.30	77.82
	12/21/2019		5.05	81.07
	3/29/2019		5.51	80.61
	6/18/2019		5.47	80.65
	9/24/2019		7.46	78.66
	5/11/2023		NM	NM
	8/15/2023		6.38	79.74

- ^a Reference elevation is the top of protective casing (North American Vertical Datum 1988 [NAVD 88])
- ^b Standing water level measurement only at boring location B-03. No groundwater sample was collected.
- Measuring point is the lid of the well monument.
- Measuring point elevation is relative to NAVD88.
- NM = Not measured.

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Table 2 Summary of Groundwater Sample Results from Monitoring Wells, Pacific City Park Remedial Investigation, Pacific, Washington.																						
Sample Location	Sample Date	Petroleum Hydrocarbons (µg/L)			Volatile Organic Compounds by EPA Method 8260D (µg/L)								Total Metals by EPA Method 200.8 (µg/L)					Dissolved Metals by EPA Method 200.8 (µg/L)				
		GRO	DRO	Lube Oil	Benzene	Toluene	Ethyl-benzene	Xylenes, Total	cDCE	1,4-Dichlorobenzene	Chlorobenzene	Vinyl Chloride										
													Arsenic	Cadmium	Chromium	Lead	Mercury	Arsenic	Cadmium	Chromium	Lead	Mercury
Site Screening Level		1,000	500	500	0.44	57	29	1,000	16		100	0.02	3.3	4.4	50	2.5	0.5	3.3	4.4	50	2.5	0.5
GW SL for VI					2.4	15,000	2,800	0.33	180	5	340	0.33	–	–	–	–	–	–	–	–	–	–
MW-1	10/6/2015	ND (50)	ND (50)	ND (100)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.20)	ND (1.0)	ND (0.20)	1.1	ND (0.20)	ND (0.50)	1.1	ND (0.10)	1.2	ND (0.20)	ND (0.50)	ND (1.0)	ND (0.10)
	5/12/2017	ND (100)	ND (260)	ND (420)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.05J) ^a	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	3/23/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.04J) ^a	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	6/21/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	9/26/2018	ND (100)	ND (270)	ND (430)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	12/21/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	5/11/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.020)	–	–	–	–	–	–	–	–	–	–
	8/19/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.020)	–	–	–	–	–	–	–	–	–	–
MW-2	10/5/2015	ND (50)	ND (50)	ND (100)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.20)	ND (1.0)	ND (0.20)	5.7	ND (0.20)	2.3	ND (1.0)	ND (0.10)	5.1	ND (0.20)	1.6	ND (1.0)	ND (0.10)
	5/12/2017	ND (100)	ND (270)	ND (440)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.05J) ^a	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	3/23/2018	ND (110)	ND (260)	ND (420)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.04J) ^a	3.4	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	6/21/2018	ND (100)	ND (270)	ND (430)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	9/26/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	4.9	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	12/21/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	3/29/2019	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.07J) ^a	–	–	–	–	–	6.1	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	6/18/2019	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.07J) ^a	–	–	–	–	–	7.1	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	9/24/2019	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	–	–	–	–	–	14	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	5/12/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.020)	–	–	–	–	–	–	–	–	–	–
	8/16/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.020)	–	–	–	–	–	–	–	–	–	–
	MW-3	10/6/2015	ND (50)	ND (50)	ND (100)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.20)	ND (1.0)	ND (0.20)	4.1	ND (0.20)	2.8	ND (1.0)	ND (0.10)	4.8	ND (0.20)	1.5	ND (1.0)
5/12/2017		ND (100)	ND (260)	ND (420)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.05J) ^a	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
3/23/2018		ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	0.22	ND (0.20)	ND (0.20)	ND (0.04J) ^a	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
6/21/2018		ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	0.070 ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
9/26/2018		ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	0.35	ND (0.20)	ND (0.20)	0.070 ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
12/21/2018		ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	0.30	ND (0.20)	ND (0.20)	0.050 ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
8/15/2023		–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	0.23	ND (0.20)	ND (0.20)	0.27	–	–	–	–	–	–	–	–	–	–

Table 2 (continued) Summary of Groundwater Sample Results from Monitoring Wells, Pacific City Park Remedial Investigation, Pacific, Washington.																						
Sample Location	Sample Date	Petroleum Hydrocarbons (µg/L)			Volatile Organic Compounds by EPA Method 8260D (µg/L)								Total Metals by EPA Method 200.8 (µg/L)					Dissolved Metals by EPA Method 200.8 (µg/L)				
		GRO	DRO	Lube Oil	Benzene	Toluene	Ethyl- benzene	Xylenes, Total	cDCE	1,4- Dichloro benzene	Chlorob enzene	Vinyl Chloride										
													Arsenic	Cadmium	Chromium	Lead	Mercury	Arsenic	Cadmium	Chromium	Lead	Mercury
MW-4	10/5/2015	ND (50)	ND (50)	ND (100)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.20)	5.7	ND (0.20)	13	ND (0.20)	2.7	ND (1.0)	ND (0.10)	9.8	ND (0.20)	1.5	ND (1.0)	ND (0.10)
	5/12/2017	ND (100)	ND (260)	ND (420)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	1.5	ND (0.05J)a	8.3	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	8.3	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	3/23/2018	ND (110)	ND (270)	ND (440)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	1.1	ND (0.04J)a	6	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	6/21/2018	ND (100)	ND (270)	ND (430)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	0.09 ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	9/26/2018	ND (100)	ND (250)	ND (410)	0.22	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	4.6	0.15 ^b	14	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	12/21/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	3.7	0.16 ^b	11	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	3/29/2019	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	2.6	0.11J ^a	–	–	–	–	–	7.4	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	6/18/2019	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.33	0.11J ^a	–	–	–	–	–	11	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	9/24/2019	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	5.2	0.12 ^b	–	–	–	–	–	13	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	5/11/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.24	0.19	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	ND (3.0)	ND (4)	ND (10)	ND (1.0)	ND (0.50)
8/15/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.96	0.21	5.7	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	5.4	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)	
MW-5	10/5/2015	ND (50)	ND (50)	ND (100)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.20)	ND (1.0)	ND (0.20)	1.4	ND (0.20)	0.52	ND (1.0)	ND (0.10)	ND (1.0)	ND (0.20)	ND (0.50)	ND (1.0)	ND (0.10)
	5/12/2017	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.05J) ^a	ND (3.3)	ND (4.4)	ND (11)	4	ND (0.50)	ND (3.0)	ND (4.0)	ND (10)	3	ND (0.50)
	3/23/2018	ND (100)	ND (260)	ND (420)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.04J) ^a	ND (3.3)	ND (4.4)	ND (11)	3.2	ND (0.50)	–	–	–	–	–
	6/21/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	ND (3.3)	ND (4.4)	ND (11)	5.6	ND (0.50)	–	–	–	–	–
	9/26/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	ND (3.3)	ND (4.4)	ND (11)	1.9	ND (0.50)	–	–	–	–	–
	12/21/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	ND (3.3)	ND (4.4)	ND (11)	1.5	ND (0.50)	–	–	–	–	–
	3/29/2019	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.07J) ^a	–	–	–	–	–	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	6/18/2019	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.07J) ^a	–	–	–	–	–	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	9/24/2019	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	–	–	–	–	–	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	5/11/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.020)	–	–	–	–	–	–	–	–	–	–
8/15/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.020)	–	–	–	–	–	–	–	–	–	–	

Table 2 (continued) Summary of Groundwater Sample Results from Monitoring Wells, Pacific City Park Remedial Investigation, Pacific, Washington.																						
Sample Location	Sample Date	Petroleum Hydrocarbons (µg/L)			Volatile Organic Compounds by EPA Method 8260D (µg/L)								Total Metals by EPA Method 200.8 (µg/L)					Dissolved Metals by EPA Method 200.8 (µg/L)				
		GRO	DRO	Lube Oil	Benzene	Toluene	Ethyl-benzene	Xylenes, Total	cDCE	1,4-Dichlorobenzene	Chlorobenzene	Vinyl Chloride	Arsenic	Cadmium	Chromium	Lead	Mercury	Arsenic	Cadmium	Chromium	Lead	Mercury
MW-6	10/5/2015	ND (50)	ND (50)	ND (100)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.20)	ND (1.0)	ND (0.20)	1.9	ND (0.20)	0.74	1.5	ND (0.10)	2.1	ND (0.20)	ND (0.50)	ND (1.0)	ND (0.10)
	5/12/2017	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.05J) ^a	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	3/23/2018	ND (110)	ND (280)	ND (450)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.04J) ^a	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	6/21/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	9/26/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	0.2	ND (0.20)	ND (0.02) ^b	4.5	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	12/21/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	3/29/2019	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.07J) ^a	–	–	–	–	–	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	6/18/2019	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.07J) ^a	–	–	–	–	–	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	9/24/2019	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	–	–	–	–	–	3.1	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	5/11/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.020)	–	–	–	–	–	–	–	–	–	–
	8/15/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.020)	–	–	–	–	–	–	–	–	–	–
MW-7	3/23/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.04J) ^a	ND (3.3)	ND (4.4)	ND (11)	1.9	ND (0.50)	–	–	–	–	–
	6/21/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	4.6	ND (4.4)	ND (11)	2	ND (0.50)	–	–	–	–	–
	9/26/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	5.5	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	12/21/2018	ND (100)	ND (270)	ND (440)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	4.5	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	5/12/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.020)	–	–	–	–	–	–	–	–	–	–
	8/15/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.020)	–	–	–	–	–	–	–	–	–	–
MW-8	3/23/2018	ND (100)	ND (260)	ND (420)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	0.08J ^a	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (1.1)	–	–	–	–	–
	6/21/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	0.09 ^b	3.9	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	9/26/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	0.06 ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	12/21/2018	ND (100)	ND (260)	ND (420)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	0.07 ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	5/12/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	0.12	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	3.3	ND (4)	ND (10)	ND (1.0)	ND (0.50)
	8/16/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	0.10	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
MW-9	3/23/2018	ND (100)	ND (260)	ND (420)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	0.04J ^a	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	6/21/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	0.04 ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	9/26/2018	ND (100)	ND (250)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.38	0.05 ^b	3.6	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	12/21/2018	ND (100)	ND (260)	ND (420)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.43	0.07 ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	3/29/2019	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.41	ND (0.07J) ^a	–	–	–	–	–	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	6/18/2019	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.34	ND (0.07J) ^a	–	–	–	–	–	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	9/24/2019	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.38	0.06 ^b	–	–	–	–	–	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	5/11/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.27	0.036	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	ND (3.0)	ND (4)	ND (10)	ND (1.0)	ND (0.50)
	8/15/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.29	0.042	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)

Table 2 (continued) Summary of Groundwater Sample Results from Monitoring Wells, Pacific City Park Remedial Investigation, Pacific, Washington.																						
Sample Location	Sample Date	Petroleum Hydrocarbons (µg/L)			Volatile Organic Compounds by EPA Method 8260D (µg/L)								Total Metals by EPA Method 200.8 (µg/L)					Dissolved Metals by EPA Method 200.8 (µg/L)				
		GRO	DRO	Lube Oil	Benzene	Toluene	Ethyl-benzene	Xylenes, Total	cDCE	1,4-Dichlorobenzene	Chlorobenzene	Vinyl Chloride	Arsenic	Cadmium	Chromium	Lead	Mercury	Arsenic	Cadmium	Chromium	Lead	Mercury
MW-10	12/21/2018	ND (100)	ND (270)	ND (430)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	0.26 ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	3/29/2019	ND (100)	ND (250)	ND (400)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	0.20 ^b	–	–	–	–	–	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	6/18/2019	ND (100)	ND (270)	ND (430)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	0.20 ^a	–	–	–	–	–	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	9/24/2019	ND (100)	ND (270)	ND (430)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.27	0.22 ^b	–	–	–	–	–	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	5/11/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.22	0.15	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	ND (3.0)	ND (4)	ND (10)	ND (1.0)	ND (0.50)
	8/15/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.27	0.23	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
MW-11	12/21/2018	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	0.05 ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	3/29/2019	ND (100)	ND (290)	ND (470)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.24	ND (0.07J) ^a	–	–	–	–	–	ND (3.0)	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	6/18/2019	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.33	ND (0.07J) ^a	–	–	–	–	–	3.6	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	9/24/2019	ND (100)	ND (270)	ND (430)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.36	0.04 ^b	–	–	–	–	–	3.6	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	5/11/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	0.036	16	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	12	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	8/15/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	0.34	0.035	31	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	20	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
MW-12	12/21/2018	ND (100)	ND (260)	ND (420)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	ND (3.3)	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	–	–	–	–	–
	3/29/2019	ND (100)	ND (260)	ND (420)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.07J) ^a	–	–	–	–	–	11	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	6/18/2019	ND (100)	ND (260)	ND (410)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.07J) ^a	–	–	–	–	–	14	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	9/24/2019	ND (100)	ND (270)	ND (430)	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.02) ^b	–	–	–	–	–	15	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	5/11/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.020)	22	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	20	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	8/16/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.020)	11	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	8.4	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
MW-13	5/11/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.020)	16	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	16	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	8/15/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.020)	24	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	26	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
MW-14	5/11/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.020)	12	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	12	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)
	8/15/2023	–	–	–	ND (0.20)	ND (1.0)	ND (0.20)	ND (0.40)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.020)	17	ND (4.4)	ND (11)	ND (1.1)	ND (0.50)	17	ND (4.0)	ND (10)	ND (1.0)	ND (0.50)

Table 2 (continued) Summary of Groundwater Sample Results from Monitoring Wells, Pacific City Park Remedial Investigation, Pacific, Washington.															
Sample Location	Sample Date	Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) by EPA Method 8270E SIM (µg/L)									Field Parameters				
		Total PCBs	Benzo (a)-anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (j,k) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a,h) anthracene	Total cPAHs (TEQ)	Temp (°C)	DO (mg/L)	Cond(µS/cm)	pH (std units)	Turbidity (NTU)
Site Screening Level		0.05	0.01	0.016	0.01	0.01	0.01	0.01	0.01	0.015	–	–	–	–	–
GW SL for VI			–	–	–	–	–	–	–	–	–	–	–	–	–
MW-1	10/6/2015	–	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.076)	NR	NR	NR	NR	NR
	5/12/2017	–	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0072)	9.0	3.28	98	6.84	Clear
	3/23/2018	–	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0071)	6.9	4.67	97	6.94	Clear
	6/21/2018	–	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0072)	11.3	1.69	77	6.79	Clear
	9/26/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	14.2	2.76	113	6.64	Clear
	12/21/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	7.9	4.35	93	4.45	1.0
	5/11/2023	–	–	–	–	–	–	–	–	–	9.2	3.48	79	6.22	2.2
	8/19/2023	–	–	–	–	–	–	–	–	–	16.6	0.80	88	6.35	3.8
MW-2	10/5/2015	–	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.0072)	NR	NR	NR	NR	NR
	5/12/2017	–	ND (0.0099)	ND (0.0099)	ND (0.0099)	ND (0.0099)	ND (0.0099)	ND (0.0099)	ND (0.0099)	ND (0.0075)	11.9	2.47	296	6.58	Clear
	3/23/2018	–	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0083)	9.8	0.66	328	6.54	Clear
	6/21/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	13.7	3.28	270	6.33	Clear
	9/26/2018	–	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0071)	15.8	0.23	276	6.30	Clear
	12/21/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	11.5	0.38	314	4.38	30.4
	3/29/2019	–	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0083)	10.1	0.21	269	6.40	1.8
	6/18/2019	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	13.1	0.20	367	6.30	42.3
	9/24/2019	–	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0083)	15.9	0.64	296	6.35	Clear
	5/12/2023	–	–	–	–	–	–	–	–	–	11.6	0.47	330	6.50	4.4
	8/16/2023	–	–	–	–	–	–	–	–	–	15.3	0.16	192	6.63	42.7
MW-3	10/6/2015	–	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.0072)	NR	NR	NR	NR	NR
	5/12/2017	–	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0072)	10.9	0.69	332	7.08	Clear
	3/23/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	8.1	0.50	332	7.01	Clear
	6/21/2018	–	ND (0.0097)	ND (0.0097)	ND (0.0097)	ND (0.0097)	ND (0.0097)	ND (0.0097)	ND (0.0097)	ND (0.0073)	12.8	0.11	281	7.08	Clear
	9/26/2018	–	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0072)	14.5	0.12	322	6.65	Clear
	12/21/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	10.1	0.09	414	4.75	85.6
	8/15/2023	–	–	–	–	–	–	–	–	–	14.3	0.34	194	6.85	2.0

Table 2 (continued) Summary of Groundwater Sample Results from Monitoring Wells, Pacific City Park Remedial Investigation, Pacific, Washington.															
Sample Location	Sample Date	Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) by EPA Method 8270E SIM (µg/L)									Field Parameters				
		Total PCBs	Benzo (a)-anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (j,k) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a,h) anthracene	Total cPAHs (TEQ)	Temp (°C)	DO (mg/L)	Cond(µS/cm)	pH (std units)	Turbidity (NTU)
Site Screening Level		0.05	0.01	0.016	0.01	0.01	0.01	0.01	0.01	0.015	–	–	–	–	–
GW SL for VI			–	–	–	–	–	–	–	–	–	–	–	–	–
MW-4	10/5/2015	–	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.0072)	NR	NR	NR	NR	NR
	5/12/2017	–	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0072)	11.5	0.19	348	6.60	Clear
	3/23/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	9.1	0.55	307	6.15	Clear
	6/21/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	15.4	2.05	309	6.62	Clear
	9/26/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	20.4	1.47	325	6.10	Clear
	12/21/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	11.8	0.21	351	4.55	9.4
	3/29/2019	–	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0083)	9.3	0.25	341	6.64	14.4
	6/18/2019	–	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.0091)	14.6	0.44	313	6.61	95.5
	9/24/2019	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	19.0	0.63	324	6.47	Clear
	5/11/2023	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	11.2	0.87	292	6.25	17.5
MW-5	8/15/2023	–	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0072)	19.6	0.31	4	6.41	12.0
	10/5/2015	–	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.0072)	NR	NR	NR	NR	NR
	5/12/2017	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	9.5	1.06	156	7.08	Clear
	3/23/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	6.7	0.47	129	6.69	Clear
	6/21/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	11.6	0.08	126	7.44	Clear
	9/26/2018	–	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0071)	15.3	0.26	193	6.90	Clear
	12/21/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	10.0	0.45	182	5.14	5.4
	3/29/2019	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	7.1	0.04	143	7.32	1.7
	6/18/2019	–	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0083)	11.6	0.31	125	7.20	1.3
	9/24/2019	–	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.0098)	15.5	0.64	189	6.78	Clear
	5/11/2023	–	–	–	–	–	–	–	–	8.1	0.27	141	6.97	3.4	
	8/15/2023	–	–	–	–	–	–	–	–	13.8	0.47	144	7.11	3.6	

Table 2 (continued) Summary of Groundwater Sample Results from Monitoring Wells, Pacific City Park Remedial Investigation, Pacific, Washington.															
Sample Location	Sample Date	Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) by EPA Method 8270E SIM (µg/L)									Field Parameters				
		Total PCBs	Benzo (a)-anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (j,k) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a,h) anthracene	Total cPAHs (TEQ)	Temp (°C)	DO (mg/L)	Cond(µS/cm)	pH (std units)	Turbidity (NTU)
Site Screening Level		0.05	0.01	0.016	0.01	0.01	0.01	0.01	0.01	0.015	–	–	–	–	–
GW SL for VI			–	–	–	–	–	–	–	–	–	–	–	–	–
MW-6	10/5/2015	–	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.0072)	NR	NR	NR	NR	NR
	5/12/2017	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	10.2	0.25	132	6.25	Clear
	3/23/2018	–	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0071)	6.9	0.73	161	5.95	Clear
	6/21/2018	–	0.014	0.014	0.012	0.012	0.011	0.012	0.011	0.017	12.4	0.14	154	6.69	Clear
	9/26/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	15.1	0.44	341	6.25	Clear
	12/21/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	11.0	0.17	206	3.90	3.2
	3/29/2019	–	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0083)	6.9	0.24	176	6.64	1.4
	6/18/2019	–	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.0091)	12.1	0.35	164	6.62	3.5
	9/24/2019	–	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.0906)	15.5	0.67	294	6.71	Clear
	5/11/2023	–	–	–	–	–	–	–	–	–	9.9	0.30	170	6.18	7.3
	8/15/2023	–	–	–	–	–	–	–	–	–	14.4	0.42	197	6.98	6.7
MW-7	3/23/2018	–	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0071)	6.9	0.52	127	6.94	Clear
	6/21/2018	–	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0072)	16.2	0.12	137	6.59	Clear
	9/26/2018	–	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0071)	16.2	0.49	151	6.47	Clear
	12/21/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	8.8	0.23	188	4.41	9.7
	5/12/2023	–	–	–	–	–	–	–	–	–	13.8	0.37	157	6.65	3.1
	8/15/2023	–	–	–	–	–	–	–	–	–	19.4	0.37	130	6.66	10.1
MW-8	3/23/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	10.8	0.45	400	6.62	Clear
	6/21/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	13.4	2.44	384	6.24	Clear
	9/26/2018	–	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0071)	16.4	0.61	325	6.56	Clear
	12/21/2018	–	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0083)	11.8	0.72	340	6.66	59.0
	5/12/2023	–	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0072)	11.4	0.08	301	6.47	67.3
	8/16/2023	–	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0072)	15.0	0.16	228	6.79	4.6
MW-9	3/23/2018	–	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0083)	10.5	0.42	294	6.22	Clear
	6/21/2018	–	ND (0.0098)	ND (0.0098)	ND (0.0098)	ND (0.0098)	ND (0.0098)	ND (0.0098)	ND (0.0098)	ND (0.0074)	11.5	2.65	240	6.58	Clear
	9/26/2018	–	ND (0.0098)	ND (0.0098)	ND (0.0098)	ND (0.0098)	ND (0.0098)	ND (0.0098)	ND (0.0098)	ND (0.0074)	14.5	0.60	249	6.41	Clear
	12/21/2018	–	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0083)	12.3	0.33	323	6.74	23.0
	3/29/2019	–	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0083)	10.9	0.27	292	6.74	38.0
	6/18/2019	–	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0083)	11.3	0.31	248	6.75	26.2
	9/24/2019	–	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.0091)	14.2	0.72	228	6.65	Clear
	5/11/2023	–	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0083)	10.7	0.26	237	6.57	27.9
	8/15/2023	–	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0071)	13.4	0.09	137	6.91	7.5

Table 2 (continued) Summary of Groundwater Sample Results from Monitoring Wells, Pacific City Park Remedial Investigation, Pacific, Washington.															
Sample Location	Sample Date	Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) by EPA Method 8270E SIM (µg/L)									Field Parameters				
		Total PCBs	Benzo (a)-anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (j,k) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a,h) anthracene	Total cPAHs (TEQ)	Temp (°C)	DO (mg/L)	Cond(µS/cm)	pH (std units)	Turbidity (NTU)
Site Screening Level		0.05	0.01	0.016	0.01	0.01	0.01	0.01	0.01	0.015	–	–	–	–	–
GW SL for VI			–	–	–	–	–	–	–	–	–	–	–	–	–
MW-10	12/21/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	12.9	0.29	291	6.83	24.0
	3/29/2019	–	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0083)	11.8	0.21	287	6.72	20.5
	6/18/2019	–	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0083)	14.5	0.91	287	NR	54.0
	9/24/2019	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	17.6	0.71	285	7.16	Slight
	5/11/2023	–	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0072)	13.2	0.45	236	6.64	53.9
	8/15/2023	–	0.024	0.022	0.019	ND (0.0095)	0.012	ND (0.0095)	ND (0.0095)	0.018	18.4	0.10	191	6.77	120.0
MW-11	12/21/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	11.6	2.01	409	6.81	8.5
	3/29/2019	–	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0083)	10.3	1.05	355	6.39	51.0
	6/18/2019	–	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0083)	12.4	0.38	307	7.08	37.0
	9/24/2019	–	ND (0.0099)	ND (0.0099)	ND (0.0099)	ND (0.0099)	ND (0.0099)	ND (0.0099)	ND (0.0099)	ND (0.0075)	15.8	0.69	278	6.93	Clear
	5/11/2023	–	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0072)	11.9	0.45	404	6.72	39.4
	8/15/2023	–	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0072)	16.0	0.09	195	6.84	4.4
MW-12	12/21/2018	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	8.3	2.26	265	6.34	9.0
	3/29/2019	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	8.3	0.92	240	6.06	50.0
	6/18/2019	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	10.7	0.64	322	6.67	Clear
	9/24/2019	–	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0076)	13.0	0.64	378	6.52	Slight
	5/11/2023	–	ND (0.0098)	ND (0.0098)	ND (0.0098)	ND (0.0098)	ND (0.0098)	ND (0.0098)	ND (0.0098)	ND (0.0074)	10.3	0.31	356	6.28	105.2
	8/16/2023	–	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0071)	14.3	0.11	274	6.39	68.1
MW-13	5/11/2023	–	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0072)	14.2	0.30	281	6.30	15.5
	8/15/2023	–	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0094)	ND (0.0072)	20.5	0.13	271	6.45	19.9
MW-14	5/11/2023	–	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0072)	13.8	0.39	343	6.25	73.1
	8/15/2023	–	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0095)	ND (0.0072)	20.8	0.15	307	6.39	279.0

All results shown in micrograms per liter (µg/L).

GRO = Gasoline range organics. Analyzed by NWTPH-Gx.

DRO = Diesel range organics. DRO and Lube Oil analyzed by NWTPH-Dx.

Volatile organic compounds (VOCs) analyzed by EPA Method 8260D. Vinyl chloride analyzed by EPA Method 8260D-SIM in 2023.

Site Screening Levels from Remedial Investigation Report, 2019.

Groundwater Screening Level for Vapor Intrusion from MTCA Method B Vapor Intrusion Groundwater Screening Level, Non-Cancer or Cancer (whichever is lower) from Department of Ecology CLARC tables, January 2023.

Values shown in **bold** are detected above the laboratory reporting limit.

Values shown in **bold and shaded** are detected at or above the Site Screening Level.

ND = Not detected at or above the laboratory reporting limits (RL) (shown in parentheses).

J = The value reported was below the practical quantitation limit. The value is an estimate.

a = Vinyl chloride concentration reported based on theoretical calculated method detection limit (MDL).

b = Vinyl chloride concentration reported based on laboratory review of available SIM (Specific Ion Monitoring) data with lower detection limit of 0.02 ug/L.

TEQ = Toxicity equivalent concentration. The total TEQ concentration for cPAHs is calculated using one-half the reporting limit for compounds that were not detected above the reporting limit.

DO = Dissolved oxygen

mg/L = Milligrams per liter

µS/cm = MicroSiemens per centimeter

– = Not analyzed or not applicable.

NR = Not reported.

APPENDIX A

Laboratory Analytical Data

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**OnSite
Environmental Inc.**

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 25, 2023

George Iftner
Herrera Environmental Consultants, Inc.
2200 6th Avenue, Suite 1100
Seattle, WA 98121

Re: Analytical Data for Project 17-06520-000
Laboratory Reference No. 2308-180

Dear George:

Enclosed are the analytical results and associated quality control data for samples submitted on August 16, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 25, 2023
Samples Submitted: August 16, 2023
Laboratory Reference: 2308-180
Project: 17-06520-000

Case Narrative

Samples were collected on August 15 and 16, 2023 and received by the laboratory on August 16, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MWDUP					
Laboratory ID:	08-180-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloromethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Vinyl Chloride	0.25	0.20	EPA 8260D	8-17-23	8-17-23	
Bromomethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Chloroethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Acetone	5.2	5.0	EPA 8260D	8-17-23	8-17-23	
Iodomethane	ND	8.2	EPA 8260D	8-17-23	8-17-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-17-23	8-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-17-23	8-17-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Butanone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloroform	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Benzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Trichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Dibromomethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Toluene	ND	1.0	EPA 8260D	8-17-23	8-17-23	



Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MWDUP					
Laboratory ID:	08-180-01					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Hexanone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chlorobenzene	0.27	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-17-23	8-17-23	
o-Xylene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Styrene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromoform	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Naphthalene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	88	75-127				
Toluene-d8	96	80-127				
4-Bromofluorobenzene	98	78-125				



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11					
Laboratory ID:	08-180-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloromethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Vinyl Chloride (SIM)	0.035	0.020	EPA 8260D/SIM	8-17-23	8-17-23	
Bromomethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Chloroethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Acetone	7.8	5.0	EPA 8260D	8-17-23	8-17-23	
Iodomethane	ND	8.2	EPA 8260D	8-17-23	8-17-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-17-23	8-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-17-23	8-17-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Butanone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloroform	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Benzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Trichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Dibromomethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Toluene	ND	1.0	EPA 8260D	8-17-23	8-17-23	



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 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11					
Laboratory ID:	08-180-02					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Hexanone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chlorobenzene	0.34	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-17-23	8-17-23	
o-Xylene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Styrene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromoform	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Naphthalene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	89	75-127				
Toluene-d8	95	80-127				
4-Bromofluorobenzene	99	78-125				



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Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6					
Laboratory ID:	08-180-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloromethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	8-17-23	8-17-23	
Bromomethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Chloroethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Acetone	11	5.0	EPA 8260D	8-17-23	8-17-23	
Iodomethane	ND	8.2	EPA 8260D	8-17-23	8-17-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-17-23	8-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-17-23	8-17-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Butanone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloroform	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Benzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Trichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Dibromomethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Toluene	ND	1.0	EPA 8260D	8-17-23	8-17-23	



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 Project: 17-06520-000

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6					
Laboratory ID:	08-180-03					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Hexanone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-17-23	8-17-23	
o-Xylene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Styrene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromoform	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Naphthalene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	87	75-127				
Toluene-d8	96	80-127				
4-Bromofluorobenzene	99	78-125				



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Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10					
Laboratory ID:	08-180-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloromethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Vinyl Chloride	0.23	0.20	EPA 8260D	8-17-23	8-17-23	
Bromomethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Chloroethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Acetone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Iodomethane	ND	8.2	EPA 8260D	8-17-23	8-17-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-17-23	8-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-17-23	8-17-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Butanone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloroform	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Benzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Trichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Dibromomethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Toluene	ND	1.0	EPA 8260D	8-17-23	8-17-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10					
Laboratory ID:	08-180-04					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Hexanone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chlorobenzene	0.27	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-17-23	8-17-23	
o-Xylene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Styrene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromoform	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Naphthalene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	89	75-127				
Toluene-d8	95	80-127				
4-Bromofluorobenzene	98	78-125				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5					
Laboratory ID:	08-180-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloromethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	8-17-23	8-17-23	
Bromomethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Chloroethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Acetone	9.5	5.0	EPA 8260D	8-17-23	8-17-23	
Iodomethane	ND	8.2	EPA 8260D	8-17-23	8-17-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-17-23	8-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-17-23	8-17-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Butanone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloroform	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Benzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Trichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Dibromomethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Toluene	ND	1.0	EPA 8260D	8-17-23	8-17-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5					
Laboratory ID:	08-180-05					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Hexanone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-17-23	8-17-23	
o-Xylene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Styrene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromoform	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Naphthalene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	89	75-127				
Toluene-d8	95	80-127				
4-Bromofluorobenzene	98	78-125				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-13					
Laboratory ID:	08-180-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloromethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	8-17-23	8-17-23	
Bromomethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Chloroethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Acetone	9.4	5.0	EPA 8260D	8-17-23	8-17-23	
Iodomethane	ND	8.2	EPA 8260D	8-17-23	8-17-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-17-23	8-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-17-23	8-17-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Butanone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloroform	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Benzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Trichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Dibromomethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Toluene	ND	1.0	EPA 8260D	8-17-23	8-17-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-13					
Laboratory ID:	08-180-06					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Hexanone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-17-23	8-17-23	
o-Xylene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Styrene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromoform	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Naphthalene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	87	75-127				
Toluene-d8	96	80-127				
4-Bromofluorobenzene	98	78-125				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4					
Laboratory ID:	08-180-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloromethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Vinyl Chloride	0.21	0.20	EPA 8260D	8-17-23	8-17-23	
Bromomethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Chloroethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Acetone	9.6	5.0	EPA 8260D	8-17-23	8-17-23	
Iodomethane	ND	8.2	EPA 8260D	8-17-23	8-17-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-17-23	8-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-17-23	8-17-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Butanone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloroform	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Benzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Trichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Dibromomethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Toluene	ND	1.0	EPA 8260D	8-17-23	8-17-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4					
Laboratory ID:	08-180-07					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Hexanone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chlorobenzene	0.96	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-17-23	8-17-23	
o-Xylene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Styrene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromoform	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Naphthalene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	87	75-127				
Toluene-d8	96	80-127				
4-Bromofluorobenzene	99	78-125				



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14					
Laboratory ID:	08-180-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloromethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	8-17-23	8-17-23	
Bromomethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Chloroethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Acetone	10	5.0	EPA 8260D	8-17-23	8-17-23	
Iodomethane	ND	8.2	EPA 8260D	8-17-23	8-17-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-17-23	8-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-17-23	8-17-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Butanone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloroform	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Benzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Trichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Dibromomethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Toluene	ND	1.0	EPA 8260D	8-17-23	8-17-23	



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 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14					
Laboratory ID:	08-180-08					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Hexanone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-17-23	8-17-23	
o-Xylene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Styrene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromoform	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Naphthalene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	91	75-127				
Toluene-d8	98	80-127				
4-Bromofluorobenzene	98	78-125				



Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3					
Laboratory ID:	08-180-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloromethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Vinyl Chloride	0.27	0.20	EPA 8260D	8-17-23	8-17-23	
Bromomethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Chloroethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Acetone	11	5.0	EPA 8260D	8-17-23	8-17-23	
Iodomethane	ND	8.2	EPA 8260D	8-17-23	8-17-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-17-23	8-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-17-23	8-17-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,2-Dichloroethene	0.23	0.20	EPA 8260D	8-17-23	8-17-23	
2-Butanone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloroform	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Benzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Trichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Dibromomethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Toluene	ND	1.0	EPA 8260D	8-17-23	8-17-23	



Date of Report: August 25, 2023
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VOLATILE ORGANICS EPA 8260D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3					
Laboratory ID:	08-180-09					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Hexanone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-17-23	8-17-23	
o-Xylene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Styrene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromoform	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Naphthalene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	90	75-127				
Toluene-d8	96	80-127				
4-Bromofluorobenzene	97	78-125				



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This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7					
Laboratory ID:	08-180-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloromethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	8-17-23	8-17-23	
Bromomethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Chloroethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Acetone	6.8	5.0	EPA 8260D	8-17-23	8-17-23	
Iodomethane	ND	8.2	EPA 8260D	8-17-23	8-17-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-17-23	8-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-17-23	8-17-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Butanone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloroform	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Benzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Trichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Dibromomethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Toluene	ND	1.0	EPA 8260D	8-17-23	8-17-23	



Date of Report: August 25, 2023
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7					
Laboratory ID:	08-180-10					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Hexanone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-17-23	8-17-23	
o-Xylene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Styrene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromoform	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Naphthalene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	89	75-127				
Toluene-d8	98	80-127				
4-Bromofluorobenzene	98	78-125				



Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9					
Laboratory ID:	08-180-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloromethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Vinyl Chloride (SIM)	0.042	0.020	EPA 8260D/SIM	8-17-23	8-17-23	
Bromomethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Chloroethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Acetone	10	5.0	EPA 8260D	8-17-23	8-17-23	
Iodomethane	ND	8.2	EPA 8260D	8-17-23	8-17-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-17-23	8-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-17-23	8-17-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Butanone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloroform	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Benzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Trichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Dibromomethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Toluene	ND	1.0	EPA 8260D	8-17-23	8-17-23	



Date of Report: August 25, 2023
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 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9					
Laboratory ID:	08-180-11					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Hexanone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chlorobenzene	0.29	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-17-23	8-17-23	
o-Xylene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Styrene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromoform	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Naphthalene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	90	75-127				
Toluene-d8	96	80-127				
4-Bromofluorobenzene	98	78-125				



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2					
Laboratory ID:	08-180-12					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloromethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	8-17-23	8-17-23	
Bromomethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Chloroethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Acetone	5.3	5.0	EPA 8260D	8-17-23	8-17-23	
Iodomethane	ND	8.2	EPA 8260D	8-17-23	8-17-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-17-23	8-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-17-23	8-17-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Butanone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloroform	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Benzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Trichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Dibromomethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Toluene	ND	1.0	EPA 8260D	8-17-23	8-17-23	



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VOLATILE ORGANICS EPA 8260D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2					
Laboratory ID:	08-180-12					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Hexanone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-17-23	8-17-23	
o-Xylene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Styrene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromoform	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Naphthalene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	89	75-127				
Toluene-d8	96	80-127				
4-Bromofluorobenzene	99	78-125				



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Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8					
Laboratory ID:	08-180-13					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloromethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Vinyl Chloride (SIM)	0.10	0.020	EPA 8260D/SIM	8-17-23	8-17-23	
Bromomethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Chloroethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Acetone	10	5.0	EPA 8260D	8-17-23	8-17-23	
Iodomethane	ND	8.2	EPA 8260D	8-17-23	8-17-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-17-23	8-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-17-23	8-17-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Butanone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloroform	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Benzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Trichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Dibromomethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Toluene	ND	1.0	EPA 8260D	8-17-23	8-17-23	



Date of Report: August 25, 2023
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 Laboratory Reference: 2308-180
 Project: 17-06520-000

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8					
Laboratory ID:	08-180-13					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Hexanone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-17-23	8-17-23	
o-Xylene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Styrene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromoform	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Naphthalene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	87	75-127				
Toluene-d8	96	80-127				
4-Bromofluorobenzene	99	78-125				



Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12					
Laboratory ID:	08-180-14					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloromethane	1.8	1.0	EPA 8260D	8-17-23	8-17-23	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	8-17-23	8-17-23	
Bromomethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Chloroethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Acetone	5.5	5.0	EPA 8260D	8-17-23	8-17-23	
Iodomethane	ND	8.2	EPA 8260D	8-17-23	8-17-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-17-23	8-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-17-23	8-17-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Butanone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloroform	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Benzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Trichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Dibromomethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Toluene	ND	1.0	EPA 8260D	8-17-23	8-17-23	



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 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12					
Laboratory ID:	08-180-14					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Hexanone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-17-23	8-17-23	
o-Xylene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Styrene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromoform	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Naphthalene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	88	75-127				
Toluene-d8	96	80-127				
4-Bromofluorobenzene	96	78-125				



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	08-180-15					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloromethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	8-17-23	8-17-23	
Bromomethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Chloroethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Acetone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Iodomethane	ND	8.2	EPA 8260D	8-17-23	8-17-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-17-23	8-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-17-23	8-17-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Butanone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloroform	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Benzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Trichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Dibromomethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Toluene	ND	1.0	EPA 8260D	8-17-23	8-17-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	08-180-15					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Hexanone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-17-23	8-17-23	
o-Xylene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Styrene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromoform	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Naphthalene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	87	75-127				
Toluene-d8	95	80-127				
4-Bromofluorobenzene	95	78-125				



Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
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**VOLATILE ORGANICS EPA 8260D/SIM
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0817W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloromethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	8-17-23	8-17-23	
Bromomethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Chloroethane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Acetone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Iodomethane	ND	8.2	EPA 8260D	8-17-23	8-17-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-17-23	8-17-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-17-23	8-17-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Butanone	ND	5.0	EPA 8260D	8-17-23	8-17-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chloroform	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Benzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Trichloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Dibromomethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Toluene	ND	1.0	EPA 8260D	8-17-23	8-17-23	



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**VOLATILE ORGANICS EPA 8260D/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0817W1					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Hexanone	ND	2.0	EPA 8260D	8-17-23	8-17-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-17-23	8-17-23	
o-Xylene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Styrene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromoform	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Bromobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
Naphthalene	ND	1.0	EPA 8260D	8-17-23	8-17-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-17-23	8-17-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent		Recovery		RPD	
					Recovery		Limits		RPD	Limit
SPIKE BLANKS										
Laboratory ID:	SB0817W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	8.79	8.10	10.0	10.0	88	81	34-166	8	21	
Chloromethane	10.5	10.3	10.0	10.0	105	103	63-138	2	18	
Vinyl Chloride	11.3	10.8	10.0	10.0	113	108	71-135	5	20	
Bromomethane	8.78	10.6	10.0	10.0	88	106	20-151	19	36	
Chloroethane	9.92	9.56	10.0	10.0	99	96	76-125	4	20	
Trichlorofluoromethane	9.11	9.18	10.0	10.0	91	92	75-131	1	19	
1,1-Dichloroethene	9.40	9.14	10.0	10.0	94	91	78-125	3	19	
Acetone	8.30	8.35	10.0	10.0	83	84	76-125	1	18	
Iodomethane	6.07	7.35	10.0	10.0	61	74	10-155	19	40	
Carbon Disulfide	8.45	8.18	10.0	10.0	85	82	58-129	3	17	
Methylene Chloride	8.97	8.71	10.0	10.0	90	87	80-120	3	15	
(trans) 1,2-Dichloroethene	9.51	9.37	10.0	10.0	95	94	80-125	1	17	
Methyl t-Butyl Ether	9.35	9.03	10.0	10.0	94	90	80-122	3	15	
1,1-Dichloroethane	9.30	9.13	10.0	10.0	93	91	80-125	2	17	
Vinyl Acetate	9.24	9.06	10.0	10.0	92	91	80-131	2	15	
2,2-Dichloropropane	11.0	11.1	10.0	10.0	110	111	80-146	1	21	
(cis) 1,2-Dichloroethene	9.79	9.92	10.0	10.0	98	99	80-129	1	17	
2-Butanone	9.20	9.06	10.0	10.0	92	91	80-129	2	16	
Bromochloromethane	9.60	9.55	10.0	10.0	96	96	80-125	1	18	
Chloroform	9.43	9.23	10.0	10.0	94	92	80-123	2	16	
1,1,1-Trichloroethane	9.32	9.17	10.0	10.0	93	92	80-123	2	18	
Carbon Tetrachloride	9.22	9.24	10.0	10.0	92	92	80-126	0	17	
1,1-Dichloropropene	9.48	9.28	10.0	10.0	95	93	80-126	2	18	
Benzene	9.40	9.31	10.0	10.0	94	93	80-121	1	16	
1,2-Dichloroethane	9.61	8.98	10.0	10.0	96	90	80-124	7	15	
Trichloroethene	9.44	9.07	10.0	10.0	94	91	80-122	4	18	
1,2-Dichloropropane	9.70	9.58	10.0	10.0	97	96	80-123	1	15	
Dibromomethane	9.93	9.68	10.0	10.0	99	97	80-123	3	15	
Bromodichloromethane	10.6	10.2	10.0	10.0	106	102	80-125	4	15	
(cis) 1,3-Dichloropropene	11.4	10.8	10.0	10.0	114	108	80-129	5	15	
Methyl Isobutyl Ketone	10.1	10.0	10.0	10.0	101	100	80-124	1	15	
Toluene	9.00	8.82	10.0	10.0	90	88	80-120	2	18	
(trans) 1,3-Dichloropropene	10.7	10.2	10.0	10.0	107	102	80-134	5	17	



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 Project: 17-06520-000

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

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Analyte	Result		Spike Level		Percent		Recovery		RPD	
					Recovery		Limits		RPD	Limit
SPIKE BLANKS										
Laboratory ID:	SB0817W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	10.8	10.2	10.0	10.0	108	102	77-126	6	20	
Tetrachloroethene	9.97	9.70	10.0	10.0	100	97	80-124	3	18	
1,3-Dichloropropane	10.6	10.4	10.0	10.0	106	104	80-120	2	15	
2-Hexanone	10.1	10.6	10.0	10.0	101	106	80-130	5	16	
Dibromochloromethane	9.61	9.32	10.0	10.0	96	93	80-128	3	15	
1,2-Dibromoethane	11.7	10.9	10.0	10.0	117	109	80-127	7	15	
Chlorobenzene	10.5	10.3	10.0	10.0	105	103	80-120	2	17	
1,1,1,2-Tetrachloroethane	11.1	10.9	10.0	10.0	111	109	80-125	2	17	
Ethylbenzene	10.6	10.5	10.0	10.0	106	105	80-125	1	18	
m,p-Xylene	21.0	20.8	20.0	20.0	105	104	80-127	1	18	
o-Xylene	10.4	10.3	10.0	10.0	104	103	80-126	1	18	
Styrene	11.1	10.8	10.0	10.0	111	108	80-130	3	17	
Bromoform	11.6	11.2	10.0	10.0	116	112	80-130	4	15	
Isopropylbenzene	10.6	10.6	10.0	10.0	106	106	80-129	0	18	
Bromobenzene	11.3	11.1	10.0	10.0	113	111	76-128	2	16	
1,1,2,2-Tetrachloroethane	12.8	12.4	10.0	10.0	128	124	74-130	3	15	
1,2,3-Trichloropropane	11.7	9.29	10.0	10.0	117	93	71-129	23	25	
n-Propylbenzene	11.9	11.8	10.0	10.0	119	118	80-129	1	19	
2-Chlorotoluene	11.7	11.4	10.0	10.0	117	114	80-128	3	18	
4-Chlorotoluene	12.3	11.7	10.0	10.0	123	117	80-130	5	19	
1,3,5-Trimethylbenzene	11.8	11.5	10.0	10.0	118	115	80-131	3	18	
tert-Butylbenzene	11.4	11.1	10.0	10.0	114	111	80-130	3	18	
1,2,4-Trimethylbenzene	11.4	11.3	10.0	10.0	114	113	80-130	1	18	
sec-Butylbenzene	11.8	11.7	10.0	10.0	118	117	80-130	1	18	
1,3-Dichlorobenzene	11.4	11.3	10.0	10.0	114	113	80-126	1	17	
p-Isopropyltoluene	12.1	11.9	10.0	10.0	121	119	80-132	2	18	
1,4-Dichlorobenzene	11.4	11.0	10.0	10.0	114	110	80-121	4	17	
1,2-Dichlorobenzene	11.1	10.7	10.0	10.0	111	107	79-125	4	15	
n-Butylbenzene	13.1	13.0	10.0	10.0	131	130	80-138	1	19	
1,2-Dibromo-3-chloropropane	10.5	10.5	10.0	10.0	105	105	73-133	0	15	
1,2,4-Trichlorobenzene	12.5	12.4	10.0	10.0	125	124	80-139	1	18	
Hexachlorobutadiene	12.1	11.6	10.0	10.0	121	116	80-151	4	18	
Naphthalene	11.5	11.8	10.0	10.0	115	118	68-144	3	25	
1,2,3-Trichlorobenzene	12.0	12.4	10.0	10.0	120	124	75-146	3	28	
Surrogate:										
Dibromofluoromethane					93	90	75-127			
Toluene-d8					98	96	80-127			
4-Bromofluorobenzene					105	102	78-125			



Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MWDUP					
Laboratory ID:	08-180-01					
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Chrysene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Indeno(1,2,3-c,d)pyrene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>65</i>	<i>26-106</i>				
<i>Pyrene-d10</i>	<i>69</i>	<i>45-104</i>				
<i>Terphenyl-d14</i>	<i>74</i>	<i>43-114</i>				

Client ID:	MW-11					
Laboratory ID:	08-180-02					
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Chrysene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Indeno(1,2,3-c,d)pyrene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>66</i>	<i>26-106</i>				
<i>Pyrene-d10</i>	<i>72</i>	<i>45-104</i>				
<i>Terphenyl-d14</i>	<i>75</i>	<i>43-114</i>				



Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10					
Laboratory ID:	08-180-04					
Benzo[a]anthracene	0.024	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Chrysene	0.022	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[b]fluoranthene	0.019	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[a]pyrene	0.012	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Indeno(1,2,3-c,d)pyrene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>88</i>	<i>26-106</i>				
<i>Pyrene-d10</i>	<i>87</i>	<i>45-104</i>				
<i>Terphenyl-d14</i>	<i>94</i>	<i>43-114</i>				

Client ID:	MW-13					
Laboratory ID:	08-180-06					
Benzo[a]anthracene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Chrysene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[b]fluoranthene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo(j,k)fluoranthene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[a]pyrene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Indeno(1,2,3-c,d)pyrene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Dibenz[a,h]anthracene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>71</i>	<i>26-106</i>				
<i>Pyrene-d10</i>	<i>75</i>	<i>45-104</i>				
<i>Terphenyl-d14</i>	<i>79</i>	<i>43-114</i>				



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 Laboratory Reference: 2308-180
 Project: 17-06520-000

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4					
Laboratory ID:	08-180-07					
Benzo[a]anthracene	ND	0.0096	EPA 8270E/SIM	8-18-23	8-18-23	
Chrysene	ND	0.0096	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[b]fluoranthene	ND	0.0096	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo(j,k)fluoranthene	ND	0.0096	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[a]pyrene	ND	0.0096	EPA 8270E/SIM	8-18-23	8-18-23	
Indeno(1,2,3-c,d)pyrene	ND	0.0096	EPA 8270E/SIM	8-18-23	8-18-23	
Dibenz[a,h]anthracene	ND	0.0096	EPA 8270E/SIM	8-18-23	8-18-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>59</i>	<i>26-106</i>				
<i>Pyrene-d10</i>	<i>67</i>	<i>45-104</i>				
<i>Terphenyl-d14</i>	<i>73</i>	<i>43-114</i>				

Client ID:	MW-14					
Laboratory ID:	08-180-08					
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Chrysene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Indeno(1,2,3-c,d)pyrene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>74</i>	<i>26-106</i>				
<i>Pyrene-d10</i>	<i>77</i>	<i>45-104</i>				
<i>Terphenyl-d14</i>	<i>84</i>	<i>43-114</i>				



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 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9					
Laboratory ID:	08-180-11					
Benzo[a]anthracene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Chrysene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[b]fluoranthene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo(j,k)fluoranthene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[a]pyrene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Indeno(1,2,3-c,d)pyrene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Dibenz[a,h]anthracene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>73</i>	<i>26-106</i>				
<i>Pyrene-d10</i>	<i>82</i>	<i>45-104</i>				
<i>Terphenyl-d14</i>	<i>85</i>	<i>43-114</i>				

Client ID:	MW-8					
Laboratory ID:	08-180-13					
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Chrysene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Indeno(1,2,3-c,d)pyrene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	8-18-23	8-18-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>69</i>	<i>26-106</i>				
<i>Pyrene-d10</i>	<i>76</i>	<i>45-104</i>				
<i>Terphenyl-d14</i>	<i>78</i>	<i>43-114</i>				



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PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12					
Laboratory ID:	08-180-14					
Benzo[a]anthracene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Chrysene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[b]fluoranthene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[j,k]fluoranthene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[a]pyrene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Indeno(1,2,3-c,d)pyrene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
Dibenz[a,h]anthracene	ND	0.0094	EPA 8270E/SIM	8-18-23	8-18-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>86</i>	<i>26-106</i>				
<i>Pyrene-d10</i>	<i>87</i>	<i>45-104</i>				
<i>Terphenyl-d14</i>	<i>90</i>	<i>43-114</i>				



Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0818W1					
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	8-18-23	8-18-23	
Chrysene	ND	0.010	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	8-18-23	8-18-23	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	8-18-23	8-18-23	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270E/SIM	8-18-23	8-18-23	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	8-18-23	8-18-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	61	26-106				
Pyrene-d10	77	45-104				
Terphenyl-d14	75	43-114				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0818W1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	0.549	0.498	0.500	0.500	110	100	51 - 119	10	20	
Chrysene	0.515	0.458	0.500	0.500	103	92	52 - 113	12	21	
Benzo[b]fluoranthene	0.541	0.502	0.500	0.500	108	100	50 - 116	7	24	
Benzo(j,k)fluoranthene	0.542	0.482	0.500	0.500	108	96	54 - 113	12	22	
Benzo[a]pyrene	0.516	0.468	0.500	0.500	103	94	52 - 110	10	21	
Indeno(1,2,3-c,d)pyrene	0.505	0.472	0.500	0.500	101	94	55 - 114	7	21	
Dibenz[a,h]anthracene	0.526	0.489	0.500	0.500	105	98	55 - 111	7	19	
Surrogate:										
2-Fluorobiphenyl					63	71	26-106			
Pyrene-d10					89	80	45-104			
Terphenyl-d14					87	81	43-114			



Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		MWDUP				
Laboratory ID:		08-180-01				
Arsenic	ND	3.3	EPA 200.8	8-21-23	8-21-23	
Cadmium	ND	4.4	EPA 200.8	8-21-23	8-21-23	
Chromium	ND	11	EPA 200.8	8-21-23	8-21-23	
Lead	ND	1.1	EPA 200.8	8-21-23	8-21-23	
Mercury	ND	0.50	EPA 7470A	8-24-23	8-24-23	

Client ID:		MW-11				
Laboratory ID:		08-180-02				
Arsenic	31	3.3	EPA 200.8	8-21-23	8-21-23	
Cadmium	ND	4.4	EPA 200.8	8-21-23	8-21-23	
Chromium	ND	11	EPA 200.8	8-21-23	8-21-23	
Lead	ND	1.1	EPA 200.8	8-21-23	8-21-23	
Mercury	ND	0.50	EPA 7470A	8-24-23	8-24-23	

Client ID:		MW-10				
Laboratory ID:		08-180-04				
Arsenic	ND	3.3	EPA 200.8	8-21-23	8-21-23	
Cadmium	ND	4.4	EPA 200.8	8-21-23	8-21-23	
Chromium	ND	11	EPA 200.8	8-21-23	8-21-23	
Lead	ND	1.1	EPA 200.8	8-21-23	8-21-23	
Mercury	ND	0.50	EPA 7470A	8-24-23	8-24-23	

Client ID:		MW-13				
Laboratory ID:		08-180-06				
Arsenic	24	3.3	EPA 200.8	8-21-23	8-21-23	
Cadmium	ND	4.4	EPA 200.8	8-21-23	8-21-23	
Chromium	ND	11	EPA 200.8	8-21-23	8-21-23	
Lead	ND	1.1	EPA 200.8	8-21-23	8-21-23	
Mercury	ND	0.50	EPA 7470A	8-24-23	8-24-23	



Date of Report: August 25, 2023
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TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW-4						
Laboratory ID: 08-180-07						
Arsenic	5.7	3.3	EPA 200.8	8-21-23	8-21-23	
Cadmium	ND	4.4	EPA 200.8	8-21-23	8-21-23	
Chromium	ND	11	EPA 200.8	8-21-23	8-21-23	
Lead	ND	1.1	EPA 200.8	8-21-23	8-21-23	
Mercury	ND	0.50	EPA 7470A	8-24-23	8-24-23	

Client ID: MW-14						
Laboratory ID: 08-180-08						
Arsenic	17	3.3	EPA 200.8	8-21-23	8-21-23	
Cadmium	ND	4.4	EPA 200.8	8-21-23	8-21-23	
Chromium	ND	11	EPA 200.8	8-21-23	8-21-23	
Lead	ND	1.1	EPA 200.8	8-21-23	8-21-23	
Mercury	ND	0.50	EPA 7470A	8-24-23	8-24-23	

Client ID: MW-9						
Laboratory ID: 08-180-11						
Arsenic	ND	3.3	EPA 200.8	8-21-23	8-21-23	
Cadmium	ND	4.4	EPA 200.8	8-21-23	8-21-23	
Chromium	ND	11	EPA 200.8	8-21-23	8-21-23	
Lead	ND	1.1	EPA 200.8	8-21-23	8-21-23	
Mercury	ND	0.50	EPA 7470A	8-24-23	8-24-23	

Client ID: MW-8						
Laboratory ID: 08-180-13						
Arsenic	ND	3.3	EPA 200.8	8-21-23	8-21-23	
Cadmium	ND	4.4	EPA 200.8	8-21-23	8-21-23	
Chromium	ND	11	EPA 200.8	8-21-23	8-21-23	
Lead	ND	1.1	EPA 200.8	8-21-23	8-21-23	
Mercury	ND	0.50	EPA 7470A	8-24-23	8-24-23	



Date of Report: August 25, 2023
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TOTAL METALS
EPA 200.8/7470A

Matrix: Water

Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12					
Laboratory ID:	08-180-14					
Arsenic	11	3.3	EPA 200.8	8-21-23	8-21-23	
Cadmium	ND	4.4	EPA 200.8	8-21-23	8-21-23	
Chromium	ND	11	EPA 200.8	8-21-23	8-21-23	
Lead	ND	1.1	EPA 200.8	8-21-23	8-21-23	
Mercury	ND	0.50	EPA 7470A	8-24-23	8-24-23	



Date of Report: August 25, 2023
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**TOTAL METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0821WM1					
Arsenic	ND	3.3	EPA 200.8	8-21-23	8-21-23	
Cadmium	ND	4.4	EPA 200.8	8-21-23	8-21-23	
Chromium	ND	11	EPA 200.8	8-21-23	8-21-23	
Lead	ND	1.1	EPA 200.8	8-21-23	8-21-23	

Laboratory ID:	MB0824W1					
Mercury	ND	0.50	EPA 7470A	8-24-23	8-24-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-180-01							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	NA	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	08-180-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	08-180-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	89.6	93.3	111	111	ND	81	84	75-125	4	20
Cadmium	90.2	89.3	111	111	ND	81	81	75-125	1	20
Chromium	82.2	87.3	111	111	ND	74	79	75-125	6	20
Lead	88.9	90.2	111	111	ND	80	81	75-125	1	20

Laboratory ID:	08-180-01									
Mercury	5.50	5.55	6.25	6.25	ND	88	89	75-125	1	20



Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		MWDUP				
Laboratory ID:		08-180-01				
Arsenic	ND	3.0	EPA 200.8		8-18-23	
Cadmium	ND	4.0	EPA 200.8		8-18-23	
Chromium	ND	10	EPA 200.8		8-18-23	
Lead	ND	1.0	EPA 200.8		8-18-23	
Mercury	ND	0.50	EPA 7470A		8-24-23	

Client ID:		MW-11				
Laboratory ID:		08-180-02				
Arsenic	20	3.0	EPA 200.8		8-18-23	
Cadmium	ND	4.0	EPA 200.8		8-18-23	
Chromium	ND	10	EPA 200.8		8-18-23	
Lead	ND	1.0	EPA 200.8		8-18-23	
Mercury	ND	0.50	EPA 7470A		8-24-23	

Client ID:		MW-10				
Laboratory ID:		08-180-04				
Arsenic	ND	3.0	EPA 200.8		8-18-23	
Cadmium	ND	4.0	EPA 200.8		8-18-23	
Chromium	ND	10	EPA 200.8		8-18-23	
Lead	ND	1.0	EPA 200.8		8-18-23	
Mercury	ND	0.50	EPA 7470A		8-24-23	

Client ID:		MW-13				
Laboratory ID:		08-180-06				
Arsenic	26	3.0	EPA 200.8		8-18-23	
Cadmium	ND	4.0	EPA 200.8		8-18-23	
Chromium	ND	10	EPA 200.8		8-18-23	
Lead	ND	1.0	EPA 200.8		8-18-23	
Mercury	ND	0.50	EPA 7470A		8-24-23	



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DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW-4						
Laboratory ID: 08-180-07						
Arsenic	5.4	3.0	EPA 200.8		8-18-23	
Cadmium	ND	4.0	EPA 200.8		8-18-23	
Chromium	ND	10	EPA 200.8		8-18-23	
Lead	ND	1.0	EPA 200.8		8-18-23	
Mercury	ND	0.50	EPA 7470A		8-24-23	

Client ID: MW-14						
Laboratory ID: 08-180-08						
Arsenic	17	3.0	EPA 200.8		8-18-23	
Cadmium	ND	4.0	EPA 200.8		8-18-23	
Chromium	ND	10	EPA 200.8		8-18-23	
Lead	ND	1.0	EPA 200.8		8-18-23	
Mercury	ND	0.50	EPA 7470A		8-24-23	

Client ID: MW-9						
Laboratory ID: 08-180-11						
Arsenic	ND	3.0	EPA 200.8		8-18-23	
Cadmium	ND	4.0	EPA 200.8		8-18-23	
Chromium	ND	10	EPA 200.8		8-18-23	
Lead	ND	1.0	EPA 200.8		8-18-23	
Mercury	ND	0.50	EPA 7470A		8-24-23	

Client ID: MW-8						
Laboratory ID: 08-180-13						
Arsenic	ND	3.0	EPA 200.8		8-21-23	
Cadmium	ND	4.0	EPA 200.8		8-18-23	
Chromium	ND	10	EPA 200.8		8-18-23	
Lead	ND	1.0	EPA 200.8		8-18-23	
Mercury	ND	0.50	EPA 7470A		8-24-23	



Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
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 Project: 17-06520-000

DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12					
Laboratory ID:	08-180-14					
Arsenic	8.4	3.0	EPA 200.8		8-18-23	
Cadmium	ND	4.0	EPA 200.8		8-18-23	
Chromium	ND	10	EPA 200.8		8-18-23	
Lead	ND	1.0	EPA 200.8		8-18-23	
Mercury	ND	0.50	EPA 7470A		8-24-23	



Date of Report: August 25, 2023
 Samples Submitted: August 16, 2023
 Laboratory Reference: 2308-180
 Project: 17-06520-000

**DISSOLVED METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0816F1					
Arsenic	ND	3.0	EPA 200.8	8-16-23	8-18-23	
Cadmium	ND	4.0	EPA 200.8	8-16-23	8-18-23	
Chromium	ND	10	EPA 200.8	8-16-23	8-18-23	
Lead	ND	1.0	EPA 200.8	8-16-23	8-18-23	

Laboratory ID:	MB0817F1					
Mercury	ND	0.50	EPA 7470A	8-17-23	8-24-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-185-03							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	NA	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	08-192-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	08-185-03									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	88.2	91.4	80.0	80.0	ND	110	114	75-125	4	20
Cadmium	82.6	83.6	80.0	80.0	ND	103	105	75-125	1	20
Chromium	84.8	86.0	80.0	80.0	ND	106	108	75-125	1	20
Lead	78.6	78.8	80.0	80.0	ND	98	99	75-125	0	20

Laboratory ID:	08-192-01									
Mercury	5.53	5.43	6.25	6.25	ND	88	87	75-125	2	20





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





Analytical Laboratory Testing Services
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MVA Onsite Environmental Inc.

Chain of Custody

Turnaround Request (in working days)				Laboratory Number: 08-180	
(Check One)					
☐ Same Day	☐ 1 Day				
☐ 2 Days	☐ 3 Days				
☒ Standard (7 Days)					
☐ (other) _____					
Company:	HERRERA ENVIRO.	Project Number:	17-06520-000	Project Name:	PACIFIC CITY PARK
Project Manager:	G. IFTNER	Sampled by:	SEM/GI	Number of Containers	
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	
11	MW-9	8/15/23	1600	GW	7
12	MW-2	8/16/23	0748		3
13	MW-8		0845		7
14	MW-12		1015		7
15	MW-1		1200		3
Signature _____ Company <u>HEC</u> Date <u>8/16/23</u> Time <u>1333</u> Comments/Special Instructions <u>① DETECTION LIMIT OF 0.02 mg/L FOR VINYL CHLORIDE.</u>					
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
Reviewed/Date					

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒