

January 12, 2024

Sunny Becker, Site Manager Washington State Department of Ecology Northwest Regional Office 3190 160th Ave SE Bellevue, WA 98008-5452

RE: Everett Landfill – 2023 Groundwater Performance Monitoring Report

Dear Sunny:

Floyd | Snider has completed the Groundwater Performance Monitoring annual report for the Everett Landfill site. This report satisfies the groundwater reporting requirements outlined in Section 4.5.3 of the Compliance Monitoring and Contingency Plan.

The attached letter report presents data and results from the two Groundwater Monitoring events for 2023.

If you have any comments or questions on the attached, please don't hesitate to contact me. Alternatively, you can contact Kate Snider at Floyd & Snider, Inc.

Sincerely,

Randy Loveless, P.E. Senior Engineer, Landfill Site Manager

Enclosure

Public Works

Category 2: Sensitive information 3200 Cedar Street Everett, WA 98201



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Memorandum

- **To:** Randy Loveless, P.E., City of Everett Public Works
- From: Kate Snider, Sabine Datum, and Brett Beaulieu, Floyd | Snider
- **Date:** January 12, 2024
- Project No: COEv-DEVEL 2014
 - Re: 2023 Annual Groundwater Monitoring Report Everett Landfill/Tire Fire Site, Everett, Washington

This memorandum presents the 2023 sampling and analytical results of groundwater monitoring at the Everett Landfill/Tire Fire Site (Site), located in Everett, Washington (Figure 1). Sampling was performed in accordance with the Site Cleanup Action Plan (CAP) and Compliance Monitoring and Contingency Plan (CMCP; Floyd | Snider 2001) and the Site Sampling and Analysis Plan (HWA 2015). Groundwater has been monitored at the Site since 2001. Historical groundwater data collected by HWA Geosciences, Inc. (HWA) prior to 2021 are appended to this report as Attachment 1 (HWA 2020).

BACKGROUND

The Site is approximately 70 acres and located east of Interstate 5 and the western shore of the Snohomish River between 36th Street and 41st Street. Nine groundwater monitoring wells screened within the deep aquifer (MW-11R, MW-21R, MW-29R, MW-30, MW-31, MW-36, MW-37, MW-38, and MW-39R)¹ are currently selected for compliance monitoring.

Per the CMCP, evaluation monitoring was performed for 3 years, between 2001 and 2004, prior to performance monitoring to supplement existing information regarding baseline conditions at the Site. The CMCP then requires that performance monitoring be conducted for at least 10 years (referred to as compliance monitoring in this report), in which seasonal and long-term changes in groundwater quality are monitored semiannually. Initial compliance monitoring to be reset or be reinstated after the first significant pile installation activity and after additional pile installation in a zone identified for pile restrictions. The 10-year compliance monitoring period reset in October 2020 after the first pile installation that penetrated the aquitard occurred.

¹ Deep aquifer wells are screened at depths from 18 to 28 feet to 32 to 40.5 feet below ground surface (bgs).



Groundwater in the shallow (leachate) aquifer² is collected in the leachate collection system and conveyed off-site for treatment. A small section of the shallow aquifer is present east of the leachate collection system (and west of the East Ditch; Figure 2). There is residual waste in a narrow strip of land between the leachate collection trench and the East Ditch; however, as documented in the 2001 CAP (Floyd|Snider 2001), groundwater from this narrow strip of land is collected in the leachate collection system and conveyed off-site, preventing groundwater discharge to surface water.

The shallow aquifer point of compliance is located on the strip of land between the East Ditch and the leachate collection trench. Shallow aquifer compliance criteria are based on hydraulic control through operation of the leachate collection system. Hydraulic control is demonstrated through monitoring of water levels to show that hydraulic gradients are toward the leachate collection system, which would indicate that no shallow aquifer discharge to surface water is occurring. No water quality monitoring of the shallow aquifer is required while operating the leachate collection trench.

Because the shallow aquifer is discharging to the leachate collection system, groundwater quality compliance is only monitored in the deep aquifer, per the requirements of the CMCP. Groundwater in the deep aquifer discharges to the Snohomish River. The deep aquifer is a potential future source of drinking water. The points of compliance for the deep aquifer are MW-36, MW-37, MW-38, and MW-39R, the groundwater monitoring wells closest to the Snohomish River.

Contaminants of concern (COCs) and their site-specific cleanup levels (CULs) were initially presented in the CMCP. After completion of evaluation monitoring, the COCs were refined and limited to the following for compliance monitoring: metals (arsenic, iron, manganese, nickel, and zinc), chloride, and bis(2-ethylhexyl)phthalate (BEHP; HWA 2004).

For additional background details refer to the CMCP (Floyd|Snider 2001) and the 2004 HWA Evaluation Monitoring Report (HWA 2004).

GROUNDWATER MONITORING EVENTS

Floyd|Snider completed two groundwater monitoring events in 2023. The sampling locations are depicted on Figure 2. Groundwater monitoring was performed using low-flow purging and sampling techniques, per the Floyd|Snider Standard Guideline Low-Flow Groundwater Sampling (Attachment 1).

² The shallow aquifer is present at depths less than 22 feet bgs.

February 2023 Sampling Event

On February 22 and 23, 2023, groundwater samples were collected from the following nine wells:

- Deep aquifer monitoring wells MW-11R, MW-21R, MW-29R, MW-30, and MW-31
- Deep aquifer point of compliance wells MW-36, MW-37, MW-38, and MW-39R

A field duplicate was collected from well MW-29R.

Water level measurements from the top of casing were collected immediately prior to sampling at each well during the 2 days of sampling. Water level measurements and groundwater elevations are summarized in Table 1. During low-flow purging of the wells, field parameters (i.e., pH, temperature, dissolved oxygen, turbidity, oxidation-reduction potential (ORP), and specific conductance) were recorded every 3 to 5 minutes for up to 1 hour or until parameters stabilized prior to sampling. The recorded field parameters are reported in Table 2. Low-flow purging of the wells was maintained throughout the sampling process. Samples analyzed for dissolved metals were field filtered with a disposable 0.45-micron filter. After completion of sampling, groundwater samples were transported to the analytical laboratories and analyzed for the site-specific COCs (refer to Laboratory Analysis section).

During the February 2023 sampling event, the transducer and barometric logger³ in MW-46 were removed from the well for data download. The transducer and barologger were reinstalled in MW-46 in after downloading the data. The pressure transducer measures water level and temperature continuously while the barologger measures barometric pressure to correct for barometric pressure effects on water level data.

July and September 2023 Sampling Event

On July 18 and 19, 2023, groundwater samples were collected from the following wells:

- Deep aquifer point of compliance wells MW-37, MW-38, and MW-39R
- Deep aquifer monitoring wells MW-11R, MW-29R, MW-30, and MW-31

Wells MW-21R and MW-36 were inaccessible at the time due to the presence of a hornet's nest in the monument of MW-21R and the presence of a camp surrounding MW-36. These two wells were sampled on September 26, 2023.

A field duplicate sample was collected from MW-11R.

Depth to water measurements were collected immediately prior to sampling at each well. Water level measurements were also collected from wells MW-22, MW-24, MW-25, MW-26, and

³ The pressure transducer consists of Model Solinst 3001 Levelogger 5 and the barometric logger consists of Model Solinst Barologger 5.

MW-46.⁴ Water level measurements are summarized in Table 1. During low-flow purging of the wells, field parameters (pH, temperature, dissolved oxygen, turbidity, ORP, and specific conductance) were recorded every 3 to 5 minutes for up to 1 hour or until parameters stabilized prior to sampling. Low-flow purging of the wells was maintained throughout the sampling process. Samples analyzed for dissolved metals were field filtered with a disposable 0.45-micrometer filter. The recorded field parameters are reported in Table 2. After completion of sampling, groundwater samples were transported to the analytical laboratories and analyzed for the site-specific COCs (refer to Laboratory Analysis section below).

During the July 2023 sampling event, the transducer and barometric logger in MW-46 were removed from the well for data download and reinstalled after downloading the data.

LABORATORY ANALYSIS

Groundwater samples collected in February, July, and September 2023 were submitted to the City of Everett Environmental Laboratory for the following analyses:

- Dissolved metals (arsenic, iron, manganese, nickel, and zinc) by USEPA Method 200.8
- Dissolved chloride by Standard Method SM4500-CL-E

Groundwater samples were also submitted to OnSite Environmental in Redmond, Washington, for the following analysis:

• BEHP by USEPA Method 8270E

ANALYTICAL RESULTS

Table 2 summarizes the groundwater analytical results from the 2023 sampling events. The laboratory reports are included in Attachment 2. Floyd|Snider performed data validation for all analytical data with a U.S. Environmental Protection Agency (USEPA) Level 2B Data Quality Review. The analytical data were validated in accordance with the USEPA *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA 2020a) and/or USEPA *National Functional Functional Guidelines for Inorganic Superfund Methods Data Review* (USEPA 2020b). No qualifiers were added to the analytical results based on the data quality review. Data were determined to be of acceptable quality for use as reported by the laboratory. A data validation summary is included in Attachment 3. Historical groundwater analytical results from 2001 to 2020 (i.e., excerpts from previous HWA annual reports) are included as Attachment 4.

Arsenic

Arsenic concentrations were detected in wells MW-21R, MW-30, MW-31, and MW-36. Concentrations in MW-21R were the greatest with 9.00 micrograms per liter (μ g/L) in February. The site-specific CUL for arsenic is 25 μ g/L. Arsenic concentrations in MW-21R have exceeded the CUL

⁴ MW-22, MW-24, MW-25, MW-26, and MW-46 are screened in the shallow aquifer and not sampled.

previously (in July 2009) and have been fluctuating between non-detect (less than 1 μ g/L) and 24.6 μ g/L since 2010. Arsenic concentrations in MW-21R over time relative to the CUL are shown on the graph depicted on Figure 3.

Iron

Iron was detected in all wells during both sampling events. Detected concentrations ranged between 84.0 μ g/L in MW-36 and 47,700 μ g/L in MW-31. Both the February and July 2023 iron concentrations in MW-31 exceeded the iron CUL of 23,687 μ g/L.

Iron concentrations in well MW-31 have exceeded the CUL since sampling began in 2001. Concentrations fluctuated from 2001 to 2013 between approximately 30,000 and 45,000 μ g/L, and then increased sharply to over 70,000 μ g/L between 2014 and 2015, as shown on the graph on Figure 4. Iron has also previously exceeded the CUL in MW-37. Trends of iron concentrations over time in MW-37 are shown on Figure 5. There has been an overall downward trend at MW-31 since 2015 with seasonal fluctuations; however, concentrations have been increasing again since October 2022.

Manganese

Manganese was detected in all wells during both sampling events but none of the concentrations exceeded the CUL of 4,040 μ g/L. Concentrations ranged between 8.90 μ g/L in MW-36 (detected in February 2023) and 1,850 μ g/L in MW-37 (detected in July 2023).

Nickel

Nickel concentrations were detected in MW-31 and MW-36. Concentrations ranged between 0.700 and 3.30 μ g/L, which are less than the nickel CUL of 10 μ g/L.

Zinc

Zinc was not detected at concentrations greater than the laboratory reporting limit of 10 μ g/L in any of the samples collected in February, July, or September 2023. The CUL for zinc is 76.6 μ g/L.

Chloride

Chloride concentrations were detected in all wells sampled in February, July, and September 2023. Chloride in MW-37 was detected at a concentration of 1,460 milligrams per liter (mg/L) in February and at 1,890 mg/L in July. These concentrations exceed the CUL of 230 mg/L. Chloride concentrations in MW-37 have previously exceeded the CUL between 2005 and 2006 and since 2016. Sampling had been discontinued in this well between 2006 and 2015 due to the influence of saline water from the Snohomish River into groundwater. When sampling resumed in 2015, concentrations increased steadily between 2015 and 2017, decreased between 2017 and

January 2019, and have since increased again. Chloride concentrations in MW-37 over time relative to the CUL are shown on the graph depicted on Figure 6.

As discussed in previous monitoring reports, and confirmed by HWA during a 2006 study (HWA 2006), chloride concentrations in MW-37, which is located only 15 feet from the Snohomish River, are the result of increasing river salinity due to decreased precipitation and river flow in the Snohomish River. The tidally influenced rise and fall of Snohomish River water levels results in mixing of surface water into groundwater, and the presence of a saltwater wedge in the river affects the salinity in shoreline monitoring wells, specifically MW-37. Groundwater near the river is greatly influenced by river elevations and gradient reversals between the river and MW-37 (indicated by the higher groundwater elevations compared to surface water elevations) occur, as shown in Figure 7 from HWA's 2006 chloride investigation (refer to Attachment 5).

HWA established a correlation between salinity and chloride concentrations in MW-37, determined by specific conductivity measurements as an indicator for salinity (refer to Figure 6 in Attachment 5). Specific conductivity measurements in MW-37 increased and decreased with tidally influenced water levels, following the same pattern as groundwater levels, and specific conductivity in the river varied in conjunction with tides, indicating a saltwater wedge moving up and down with the tides (refer to Figures 8 and 9 in Attachment 5). Long-term precipitation trends and average river conductivities between 1980 and 2005 show that decreasing precipitation resulted in increasing specific conductivities, an indicator for salinity.

Salinity data collected from the Snohomish River near the Site indicate salinities between 5 and 18 parts per thousand (ppt; Hall et el. 2018), whereas the site-specific chloride cleanup level of 230 μ g/L would correspond to approximately 0.42 ppt salinity,⁵ assuming minimal contribution from ions other than chloride, which is consistent with specific conductance in Site groundwater. Even the greatest chloride concentrations of 1,790 mg/L measured in MW-37 in July 2017 corresponds to only approximately 3.23 ppt salinity, less than the salinities measured in the Snohomish River near the Site. This indicates that chloride in groundwater from the deep aquifer at MW-37 is unlikely to affect chloride concentrations in the river.

BEHP

In February 2023, BEHP was detected at a concentration of 1.2 μ g/L, which is below the 10 μ g/L CUL for BEHP in well MW-38.

HYDRAULIC GRADIENT

Hydraulic gradients in the deep aquifer have been monitored since 2001, per the requirements of the CMCP. Easterly flow toward the Snohomish River has been established and documented during the past monitoring years, with the exception of the area between MW-31 and MW-37,

⁵ Per the conversion salinity (ppt) = $0.0018066 \times chloride$ ion concentration (mg/L).

as discussed below. Based on groundwater levels measured in 2023 and resulting elevations, groundwater in the deep aquifer flows to the east toward the Snohomish River, with a hydraulic gradient of approximately 0.02 feet per foot (ft/ft). Groundwater elevations in February and July 2023 are shown on Figures 7 and 8, respectively. Due to lack of accessibility of wells MW-21R and MW-36 in July 2023, elevations for July 2023 are limited to the accessible well locations.

Reverse (westerly) groundwater flow between MW-31 and MW-37 was observed in both February 2023, with a hydraulic gradient of approximately 0.07 ft/ft, and July 2023, with a hydraulic gradient of approximately 0.05 ft/ft. These gradients may not be permanent and are also strongly affected by tidal fluctuations in nearshore groundwater elevations from variation in the Snohomish River stage elevation. Previous sampling events have shown that seasonal groundwater elevations greatly fluctuated in the wells closest to the river. For example, groundwater elevations in MW-37 in January 2021 were more than 9 feet higher than in July 2021 (Floyd|Snider 2021). Significant differences were also measured in 2021 in MW-36, with over 6 feet of difference, and in MW-31, with over 4.5 feet of difference (Floyd|Snider 2021). In 2023, the water level elevation in MW-36 was 6.65 feet greater in February than in July, and in MW-37 the difference in elevation between February and July was 4.80 feet. Tidal influences from the Snohomish River are responsible for these variations, as previously determined by HWA (refer to discussion about chloride in MW-37 above). Based on the United States Geological Survey (USGS) river gage readings for the Snohomish River approximately 7 miles upstream of the Site at Snohomish,⁶ Washington, in February 2023, daily tidal fluctuations accounted for up to 10 feet in river water level differences. In July 2023, daily tidal differences resulted in up to 12 feet of changes in river levels. Seasonally, in 2022, lowest river levels fluctuated by about 9 feet and high river levels fluctuated by approximately 6 feet. As a result, in addition to seasonal variations, the time of day at which water levels were measured in the wells explains the high variability in the water levels in the near shore wells.

Per the CMCP, hydraulic control of the shallow (leachate) aquifer is demonstrated through monitoring of water levels to show that hydraulic gradients are toward the leachate collection system. For this reason, groundwater levels at and near the Everett Landfill leachate collection system are monitored to evaluate hydraulic control of the shallow aquifer with review of the transducer data from well MW-46 (screened in the shallow aquifer) and level sensor data from wet well at Lift Station 21 (LS21). Water level and barometer readings collected hourly between November 17, 2022, and July 19, 2023, are presented on Figure 9. Data show that LS21 wet well water elevations ranged between -1.7 and 2.3 feet North American Vertical Datum of 1988 (NAVD 88) between November 17, 2022, and July 19, 2023, are presented in MW-46 elevations. This spike is consistent with action flood stage elevations of the Snohomish River. Groundwater elevations in MW-46 ranged from 9.16 to 12.8 feet NAVD 88 between November 2022 and July 2023. Based on the elevation data, groundwater elevations inside the wet well were 6.68 to 14.5 feet lower than

⁶ According to the USGS, the Snohomish River gage datum is 9.86 feet below National Geodetic Vertical Datum of 1929.

groundwater elevations in MW-46. Given that the wet well groundwater elevations were below the shallow aquifer groundwater elevations, no discharge from the shallow aquifer to the Snohomish River occurred between November 2022 and July 2023, as expected. The shallow aquifer continues to be hydraulically controlled.

SUMMARY

The 2023 groundwater analytical results are similar to results in previous monitoring years. Exceedances of the iron CUL were detected in MW-31 and exceedances of the chloride CUL were detected in MW-37. MW-37 is a point of compliance well, in which sampling was discontinued between 2006 and 2015 following the evaluation of the influence of saline water from the Snohomish River into groundwater. Chloride concentrations have been fluctuating in MW-37 since 2016, between 242 and 1,890 μ g/L, exceeding the CUL. The data suggest that chloride concentrations at MW-37 are affected by saline water from the Snohomish River, based on HWA's previous evaluation and the comparison of Snohomish River salinities with corresponding chloride concentrations.

Until further recommendations or comments are received, Floyd | Snider will continue to sample the nine wells selected for compliance monitoring semiannually. Per the CMCP, the 10-year performance monitoring period reset in October 2020 after the first pile installation that penetrated the aquitard occurred.

REFERENCES

- Floyd|Snider. 2001. Cleanup Action Plan for the Everett Landfill/Tire Fire Site (Site) in Everett, Washington. March.
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 Patterns in a Large River Delta to Support Tidal Wetland Habitat Restoration." Northwest
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- U.S. Environmental Protection Agency (USEPA). 2020a. *National Functional Guidelines for Inorganic Superfund Methods Data Review*. Prepared by the Office of Superfund Remediation and Technology Innovation. EPA-542-R-20-006/OLEM 9240.1-66. November.
- ______. 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. Prepared by the Office of Superfund Remediation and Technology Innovation. EPA-540-R-20-005/OLEM 9240.0-51. November.

LIST OF ATTACHMENTS

- Table 12023 Groundwater Elevations
- Table 2
 Summary of 2023 Groundwater Analytical Results
- Figure 1 Site Vicinity Map
- Figure 2 Groundwater Monitoring Well Locations
- Figure 3 Arsenic Concentrations in MW-21R
- Figure 4 Iron Concentrations in MW-31
- Figure 5 Iron Concentrations in MW-37
- Figure 6 Chloride Concentrations in MW-37
- Figure 7 Deep Aquifer Groundwater Elevations February 2023
- Figure 8 Deep Aquifer Groundwater Elevations October 2023
- Figure 9 LS21 vs MW-46 Groundwater Elevations November 2022 through July 2023
- Attachment 1 Floyd | Snider Standard Guidelines
- Attachment 2 Analytical Laboratory Reports
- Attachment 3 Data Validation Summary
- Attachment 4 Historical Groundwater Monitoring Analytical Results and Groundwater Elevations
- Attachment 5 Excerpts from December 2006 HWA MW-37 Chloride Investigation Everett Landfill



Name: Brett Beaulieu Date: 1/12/2024

Tables

Table 1 2023 Groundwater Elevations

						February 20	23 Sampling Eve	nt	July 2023 Sampling Event							
	Depth of Well TOC			Date of Water	Time of Water	Depth to	Groundwater	Snohomish River Level Gage ⁽²⁾	Date of Water	Time of Water	Depth to	Groundwater	Snohomish River Level Gage ⁽²⁾			
	Screen	Elevation	TOC Elevation	Level	Level	Water	Elevation	Elevation at Time of Water Level	Level	Level	evel Water Elevation		at Time of Water Level			
Well ID	(feet bgs) ⁽¹⁾	(feet MSL)	(feet NAVD 88)	Measurement	Measurement	(feet)	(feet NAVD 88)	Measurement (feet NAVD 88)	Measurement	Measurement	(feet)	(feet NAVD 88)	Measurement (feet NAVD 88)			
MW-11R	30–40	18.761	14.311	2/23/2023	8:40	9.15	5.16	10.74	7/18/2023	8:58	13.35	0.96	4.57			
MW-21R	30–40	43.81	39.36	2/22/2023	14:36	11.79	27.57	6.08	9/26/2023	7:55	12.83	26.53	1.67			
MW-22	unknown	32.22	27.77	2/22/2023	14:59	4.79	22.98	6.00	7/19/2022	9:55	6.89	20.88	3.88			
MW-24 ⁽³⁾	unknown	14.012	9.562	2/23/2023	13:25	2.50	7.06	7:48	7/19/2023	12:17	4.33	5.23	0.72			
MW-25 ⁽³⁾	unknown	12.515	8.065	2/23/2023	11:59	2.15	5.92	7.045	7/19/2023	10:36	4.42	3.65	3.11			
MW-26 ⁽³⁾	unknown	12.183	7.733	2/23/2023	10:35	1.97	5.76	8.915	7/18/2023	13:19	2.42	5.31	-0.79			
MW-29R	39–49	12.452	8.002	2/23/2023	10:18	2.03	5.97	9.20	7/18/2023	13:32	7.30	0.70	-0.96			
MW-30	28–38	12.773	8.323	2/23/2023	12:05	7.00	1.32	7.05	7/19/2023	10:33	9.22	-0.90	3.11			
MW-31	18–28	14.031	9.581	2/23/2023	13:33	10.25	-0.67	5.33	7/19/2023	12:12	12.73	-3.15	0.72			
MW-36	21.5-31.5	15.37	10.92	2/22/2023	11:08	4.20	6.72	8.69	9/26/2023	9:27	10.85	0.07	-0.0050			
MW-37	27.5-37.5	18.73	14.28	2/22/2023	9:46	5.83	8.45	10.26	7/18/2023	9:17	10.63	3.65	4.17			
MW-38	32–40.5	18.07	13.62	2/22/2023	12:57	9.27	4.35	6.99	7/18/2023	11:26	12.85	0.77	0.90			
MW-39R	51–61	15.919	11.469	2/23/2023	10:38	6.85	4.62	8.61	7/18/2023	13:22	11.80	-0.33	-0.79			
MW-46 ⁽³⁾	7–22	26.619	22.169	2/23/2023	12:47	11.02	11.15	6.14	7/19/2023	11:40	13.19	8.98	1.33			

Well not selected for performance monitoring.

1 Information obtained from historical boring logs.

2 Snohomish River Level Gage at Snohomish, Washington, located approximately 7 miles upstream from the site.

3 Screened in shallow aquifer.

Abbreviations:

bgs Below ground surface

MSL Mean sea level

NAVD 88 North American Vertical Datum of 1988

TOC Top of casing

Table 2Summary of 2023 Groundwater Analytical Results

	Location Name							MW-11R MW-21R					MW-29R							
					MW-11R-	MW-11R-	MW-D11R-	MW-21R-	MW-21R-	MW-21R-	MW-21R-	MW-29R-	Dup-1-	MW-29R-	MW-29R-	MW-29RD-	MW-29R-			
			Sar	nple Name	022323	071823	071823	021522	101922	022223	092623	021522	021522	101922	022323	022323	071823			
	2/23/2023	7/18/2023	7/18/2023	2/15/2022	10/19/2022	2/22/2023	9/26/2023	2/15/2022	2/15/2022	10/19/2022	2/23/2023	2/23/2023	7/18/2023							
Analyte	CAS No.	Analysis Method	CUL	Unit																
Dissolved Metals																				
Arsenic	7440-38-2	EPA 200.8	25	μg/L	0.600 U	0.600 U	0.600 U	10.3	18.8	9.00	6.10	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U			
Iron	7439-89-6	EPA 200.8	23,687	μg/L	3,260	3,690	3,710	11,200	13,200	13,000	11,900	4,730	4,720	5,870	5,560	5,550	5,740			
Manganese	7439-96-5	EPA 200.8	4,040	μg/L	685	660	665	1,680	2,180	1,730	1,550	314	317	391	399	396	392			
Nickel	7440-02-0	EPA 200.8	10	μg/L	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U			
Zinc	7440-66-6	EPA 200.8	76.6	μg/L	10.0 U	6.00 U	6.00 U	10.0 U	10.0 U	10.0 U	6.00 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	6.00 U			
Conventionals																				
Chloride	16887-00-6	SM 4500-CL-E	230	mg/L	15.8	16.7	17.1	16.8	8.90	13.0	11.4	9.50	9.60	10.9	11.1	11.5	11.6			
Semivolatile Organic Compounds	5																			
Bis(2-ethylhexyl)phthalate	117-81-7	EPA 8270E	10	μg/L	1.0 U	0.95 U	0.94 U	1.1 U	0.95 U	1.0 U	1.0 U	1.0 U	0.98 U	0.97 U	1.0 U	1.0 U	0.94 U			
Field Parameters																				
Dissolved Oxygen		YSI METER		mg/L	2.49	0.21		1.24	1.01	2.61	0.25	1.16		0.15	2.69		0.25			
ORP		YSI METER		mV	-53.3	-61.2		138.1	-76	-15.1	-61.7	154		-108.6	2.3		-5.8			
рН	рН	YSI METER		рН	7.1	7.09		6.59	6.72	6.49	6.74	6.37		6.42	6.44		6.64			
Specific Conductance		YSI METER		μS/cm	700	813		429.3	601	432.5	523	559		848	668		872			
Temperature		YSI METER		°C	11.9	13.5		12.1	12.74	11.1	13.2	11.6		13.9	10.7		15.1			
Turbidity		TURBM		NTU	2.37	9.21		4.14	2.45	2.55	2.21	3.25		1.15	1.91		1.14			

Conventionals and dissolved metals results are rounded to three significant figures. SVOCs are rounded to two significant figures. Field Parameters are presented to the decimal places provided on the field meters. -- Not applicable/available or not analyzed.

BOLD/RED Analyte was detected at a concentration greater than the CUL.

Abbreviations:

- °C Degrees Celsius
- CAS Chemical Abstracts Service

CUL Cleanup level

µg/L Micrograms per liter

- $\mu\text{S/cm}$ Microsiemens per centimeter
- mg/L Milligrams per liter
- mV Millivolts
- NTU Nephelometric turbidity units
- ORP Oxidation-reduction potential

SVOC Semivolatile organic compound

Qualifiers:

J Analyte was detected; concentration is an estimate.

U Analyte was not detected at the associated reporting limit.

Table 2Summary of 2023 Groundwater Analytical Results

			Locat	tion Name	e MW-30						MM	/-31		MW-36				
					MW-30-	MW-30-	MW-D30-	MW-30-	MW-30-	MW-31-	MW-31-	MW-31-	MW-31-	MW-36-	MW-36-	MW-36-	MW-36-	
			Sam	nple Name	021622	101922	101922	022323	071923	021522	101922	022323	071923	021622	101822	022223	092623	
			Sa	mple Date	2/16/2022	10/19/2022	10/19/2022	2/23/2023	7/19/2023	2/15/2022	10/19/2022	2/23/2023	7/19/2023	2/16/2022	10/18/2022	2/22/2023	9/26/2023	
Analyte	CAS No.	Analysis Method	CUL	Unit														
Dissolved Metals																		
Arsenic	7440-38-2	EPA 200.8	25	μg/L	6.60	6.90	6.80	7.60	6.00	1.60 J	1.40 J	1.40 J	1.10	10.4	5.40	1.00 J	5.10	
Iron	7439-89-6	EPA 200.8	23,687	μg/L	11,000	11,600	11,700	12,200	11,400	39,300	39,500	35,700	47,700	5,080	5,860	84.0	10,300	
Manganese	7439-96-5	EPA 200.8	4,040	μg/L	503	516	519	536	490	1,240	1,220	1,270	1,230	453	326	8.90	546	
Nickel	7440-02-0	EPA 200.8	10	μg/L	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	3.00	2.90	3.30	2.80	4.70	1.70 J	0.700 J	2.70	
Zinc	7440-66-6	EPA 200.8	76.6	µg/L	10.0 U	10.0 U	10.0 U	10.0 U	6.00 U	10.0 U	10.0 U	10.0 U	6.00 U	10.0 U	10.0 U	10.0 U	6.00 U	
Conventionals																		
Chloride	16887-00-6	SM 4500-CL-E	230	mg/L	16.7	17.0	16.9	16.9	16.9	140	150	151	155	30.3	22.8	3.50	31.4	
Semivolatile Organic Compound	s																	
Bis(2-ethylhexyl)phthalate	117-81-7	EPA 8270E	10	µg/L	1.0 U	0.99 U	0.96 U	0.94 U	0.94 U	0.99 U	0.95 U	1.0 U	1.0 U	1.1 U	0.95 U	0.97 U	0.97 U	
Field Parameters																		
Dissolved Oxygen		YSI METER		mg/L	1.48	0.13		2.63	0.57	1.15	0.82	2.36	0.14	1.28	0.93	4.83	0.19	
ORP		YSI METER		mV	145	-118.4		-19.1	-24.4	162.2	-17.6	24.6	-6.9	135.2	-36.7	24.9	-52.8	
рН	рН	YSI METER		рН	6.52	6.63		6.62	6.65	6.02	6.07	6.13	6.14	6.63	6.7	7.01	6.66	
Specific Conductance		YSI METER		μS/cm	443.1	550		434.9	511	914	1,160	916	1,083	492.2	668	52.1	618	
Temperature		YSI METER		°C	11.9	13.3		11.8	14.7	13	13.41	12.9	15.7	11.1	11.64	10.1	12.1	
Turbidity		TURBM		ntu	0.87	1.36		3.16	1.8	4.44	1.43	5.48	4.46	5.96	8.51	8.61	0.9	

Conventionals and dissolved metals results are rounded to three significant figures. SVOCs are rounded to two significant figures. Field Parameters are presented to the decimal places provided on the field meters. -- Not applicable/available or not analyzed.

BOLD/RED Analyte was detected at a concentration greater than the CUL.

Abbreviations:

°C Degrees Celsius

CAS Chemical Abstracts Service

CUL Cleanup level

μg/L Micrograms per liter μS/cm Microsiemens per centimeter

mg/L Milligrams per liter

mV Millivolts

NTU Nephelometric turbidity units

ORP Oxidation-reduction potential

SVOC Semivolatile organic compound

Qualifiers:

J Analyte was detected; concentration is an estimate.

U Analyte was not detected at the associated reporting limit.

Table 2Summary of 2023 Groundwater Analytical Results

			Locat	ion Name		MW-	-37			MW	-38		MW-39R				
					MW-37-	MW-37-	MW-37-	MW-37-	MW-38-		MW-38-	MW-38-	MW-39R-	MW-39R-	MW-39R-	MW-39R-	
			Sam	ple Name	021622	101822	022223	071823	021522	MW-38-101822	022223	071823	021522	101922	022323	071823	
			Sar	nple Date	2/16/2022	10/18/2022	2/22/2023	7/18/2023	2/15/2022	10/18/2022	2/22/2023	7/18/2023	2/15/2022	10/19/2022	2/23/2023	7/18/2023	
Analyte	CAS No.	Analysis Method	CUL	Unit												í – – – – – – – – – – – – – – – – – – –	
Dissolved Metals																	
Arsenic	7440-38-2	EPA 200.8	25	μg/L	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	
Iron	7439-89-6	EPA 200.8	23,687	μg/L	15,200	24,100	11,300	12,600	2,800	2,840	4,030	2,640	4,230	4,620	4,620	4,990	
Manganese	7439-96-5	EPA 200.8	4,040	μg/L	1,440	814	1,620	1,850	268	278	305	265	230	238	250	242	
Nickel	7440-02-0	EPA 200.8	10	μg/L	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	0.600 U	
Zinc	7440-66-6	EPA 200.8	76.6	μg/L	10.0 U	10.0 U	10.0 U	6.00 U	10.0 U	10.0 U	10.0 U	6.00 U	10.0 U	10.0 U	10.0 U	6.00 U	
Conventionals																	
Chloride	16887-00-6	SM 4500-CL-E	230	mg/L	1,080	242	1,460	1,890	10.9	10.6	15.9	16.4	7.50	7.30	6.90	7.80	
Semivolatile Organic Compoun	ds																
Bis(2-ethylhexyl)phthalate	117-81-7	EPA 8270E	10	μg/L	1.1 U	0.95 U	1.0 U	0.94 U	1.0 U	0.95 U	1.2	0.96 U	1.0 U	0.98 U	0.96 U	0.98 U	
Field Parameters	-		-	-													
Dissolved Oxygen		YSI METER		mg/L	1.42	2.5	2.37	0.31	1.3	0.29	2.47	0.28	7.99	0.29	8.38	0.2	
ORP		YSI METER		mV	186.5	-30.8	-24.8	-26	135.6	-106.5	14	37.1	-108.1	-124.4	-55.8	-55.6	
рН	рН	YSI METER		рΗ	6.4	6.32	6.39	6.75	6.54	6.68	6.45	6.82	6.79	6.87	6.82	6.87	
Specific Conductance		YSI METER		μS/cm	3,007	1,391	3,639	5,647	304.9	380	330.4	392.3	235.5	293.2	210.9	279.7	
Temperature		YSI METER		°C	11.3	11.7	10.7	12.1	10.8	11.8	10.4	11.5	11.8	13.7	10.9	14.4	
Turbidity		TURBM		ntu	1.05	0.95	21	1.32	0.67	4.03	2.38	1.45	1.22	1.34	2.1	2.96	

Conventionals and dissolved metals results are rounded to three significant figures. SVOCs are rounded to two significant figures. Field Parameters are presented to the decimal places provided on the field meters.

BOLD/RED Analyte was detected at a concentration greater than the CUL.

Abbreviations:

°C Degrees Celsius

CAS Chemical Abstracts Service

CUL Cleanup level

µg/L Micrograms per liter

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mg/L Milligrams per liter mV Millivolts

NTU Nephelometric turbidity units ORP Oxidation–reduction potential

SVOC Semivolatile organic compound

Qualifiers:

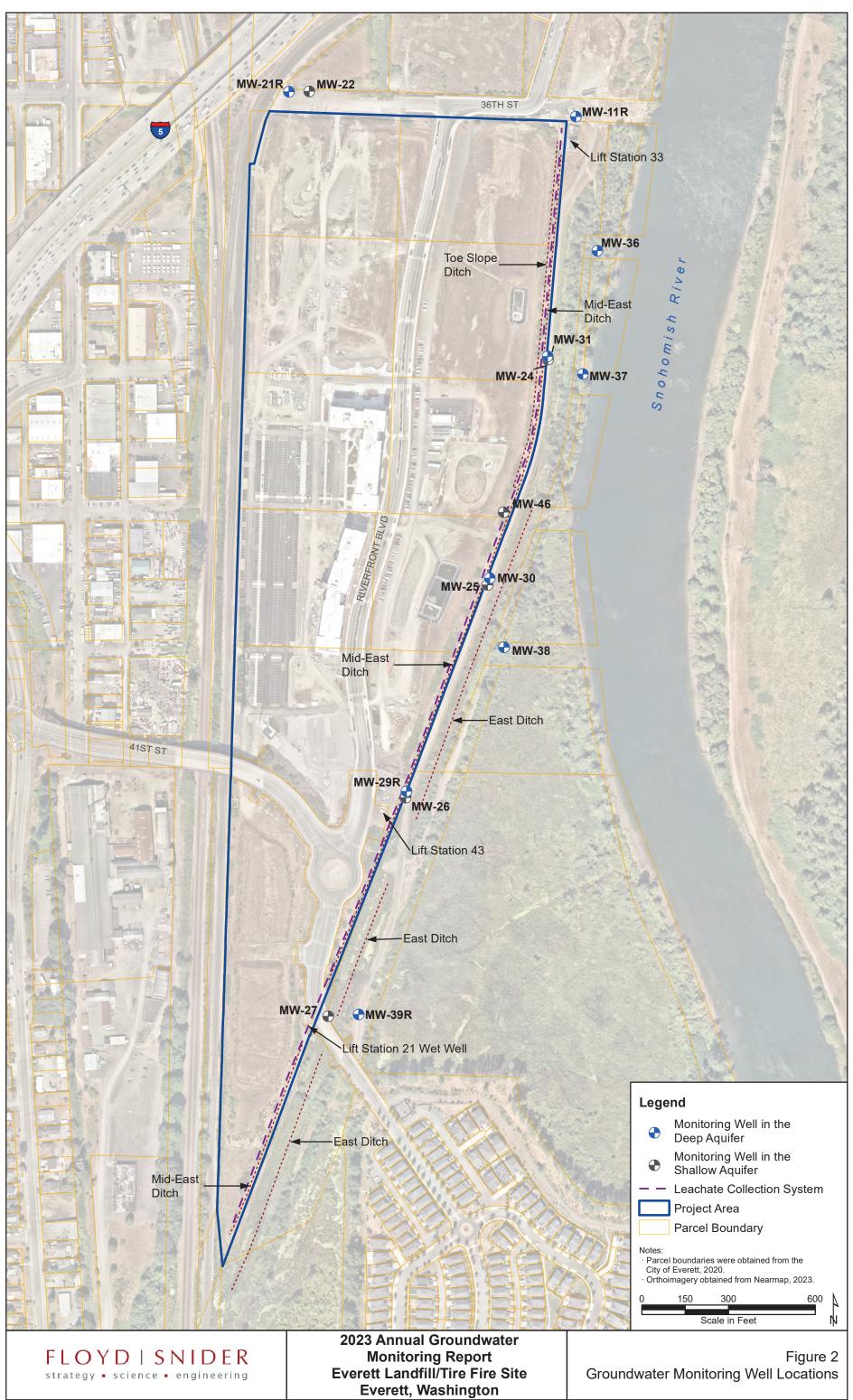
J Analyte was detected; concentration is an estimate.

U Analyte was not detected at the associated reporting limit.

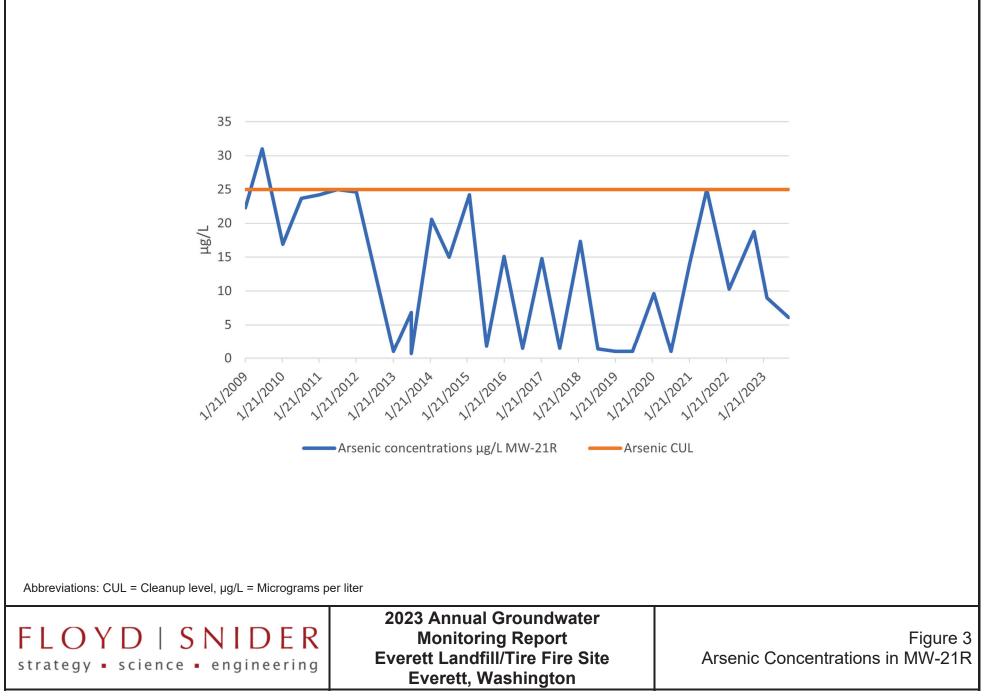
Figures

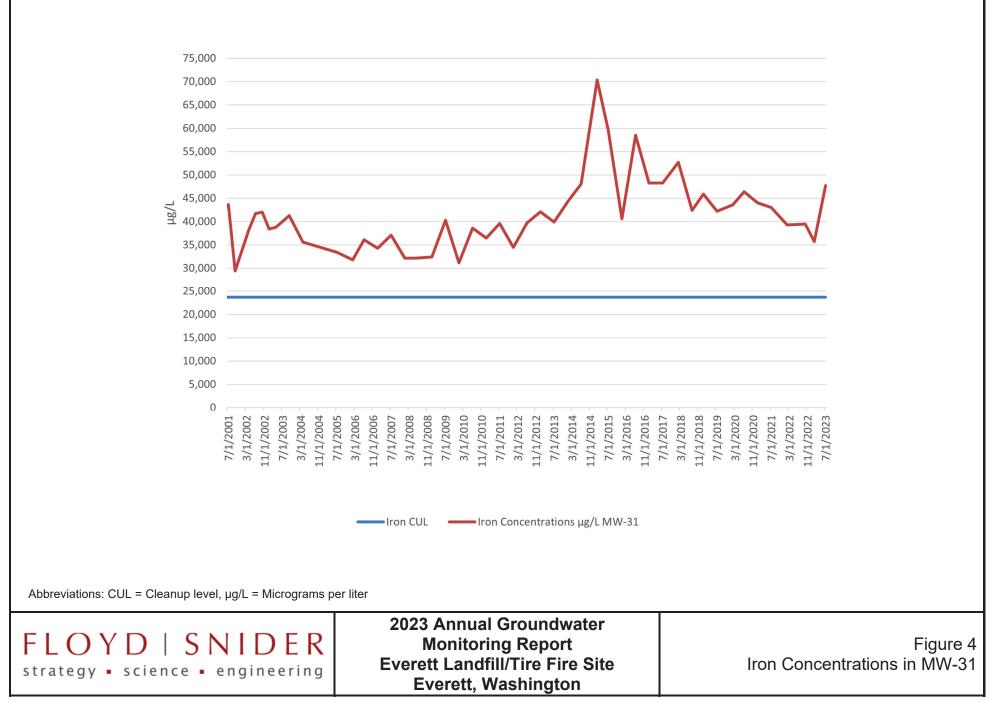


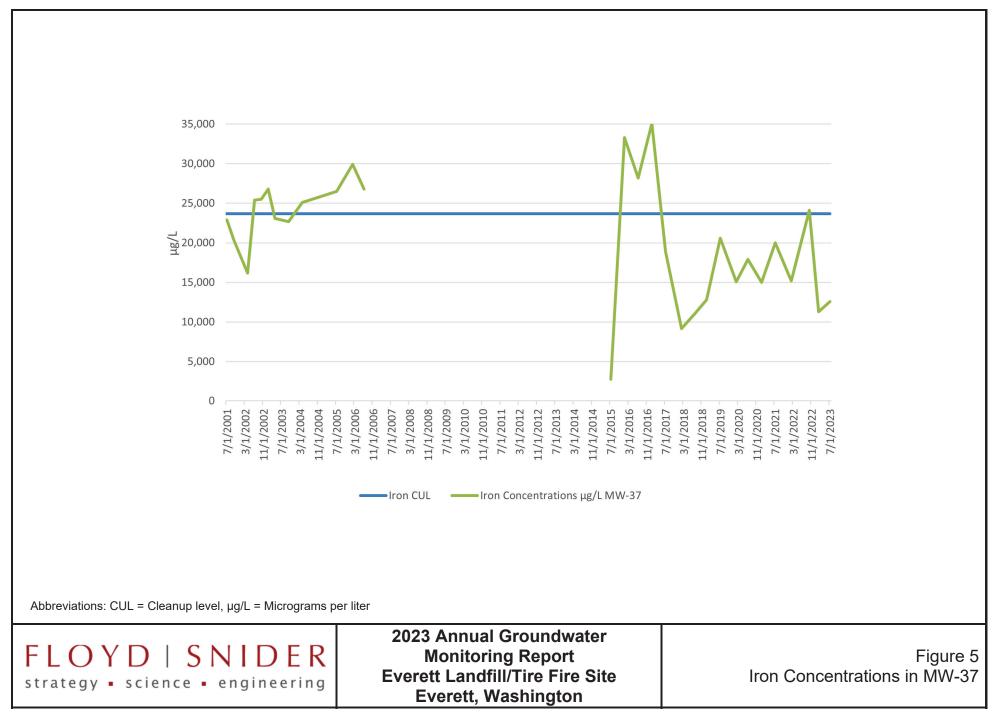
I:\GIS\Projects\CoEV-Devel\MXD\2023 Annual Groundwater Monitoring Report\Figure 1 Site Vicinity Map.mxd 12/1/2023

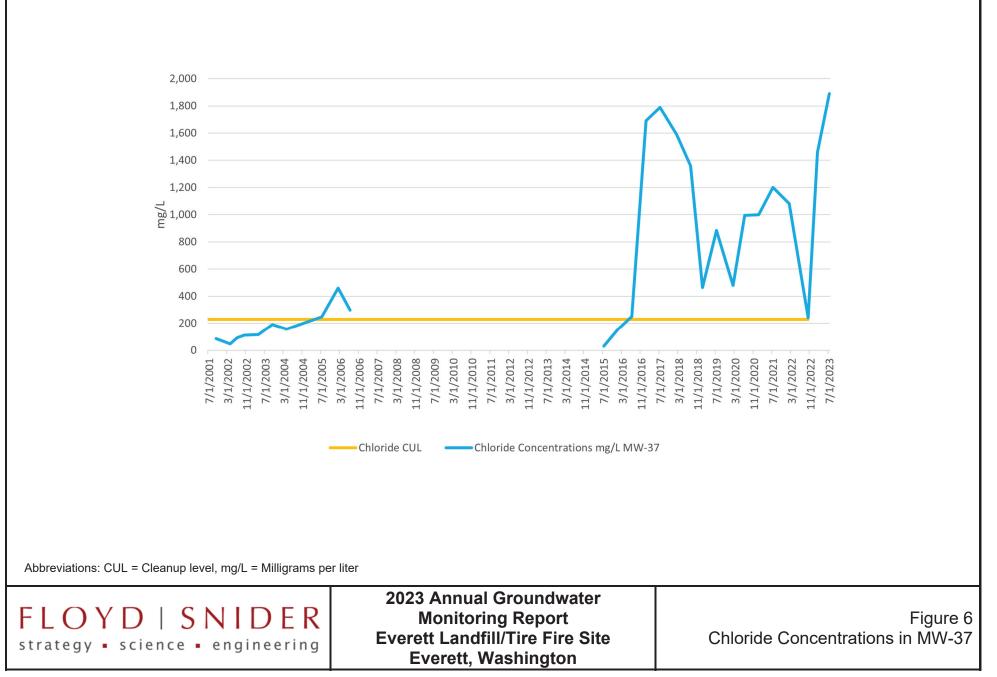


I\GIS\Projects\CoEV-Devel\MXD\2023 Annual Groundwater Monitoring Report\Figure 2 Groundwater Monitoring Well Locations.mxd 12/1/2023

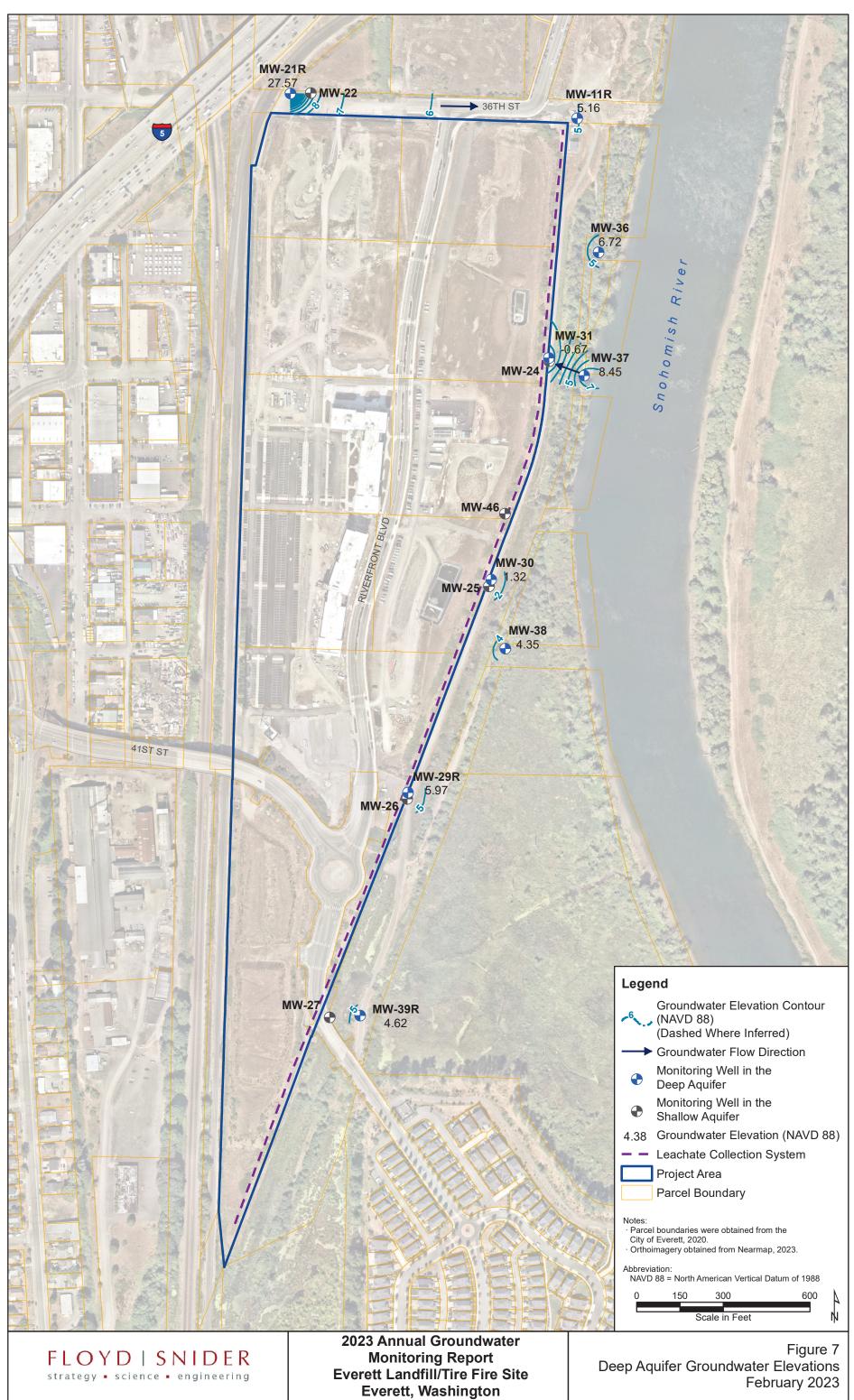




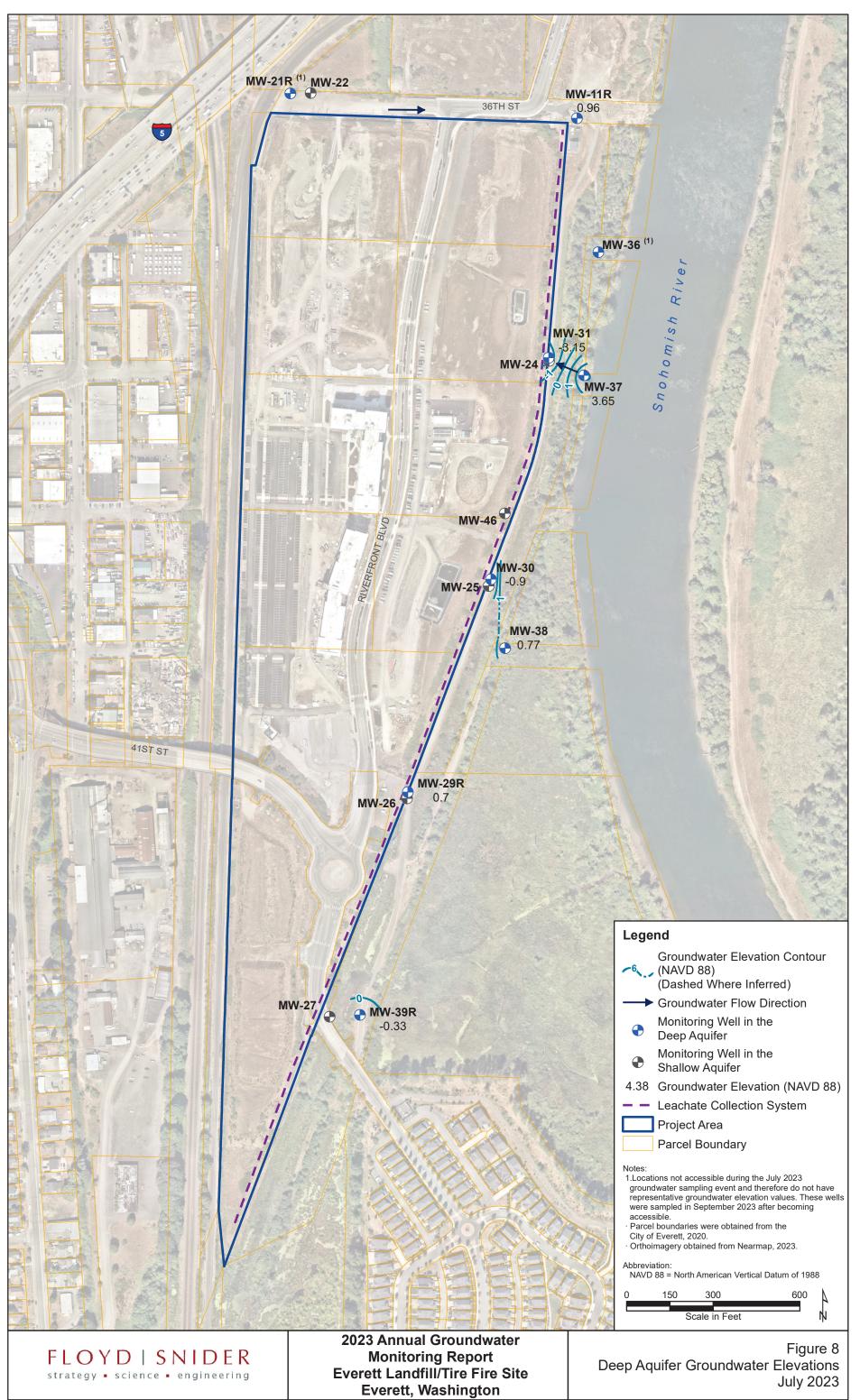




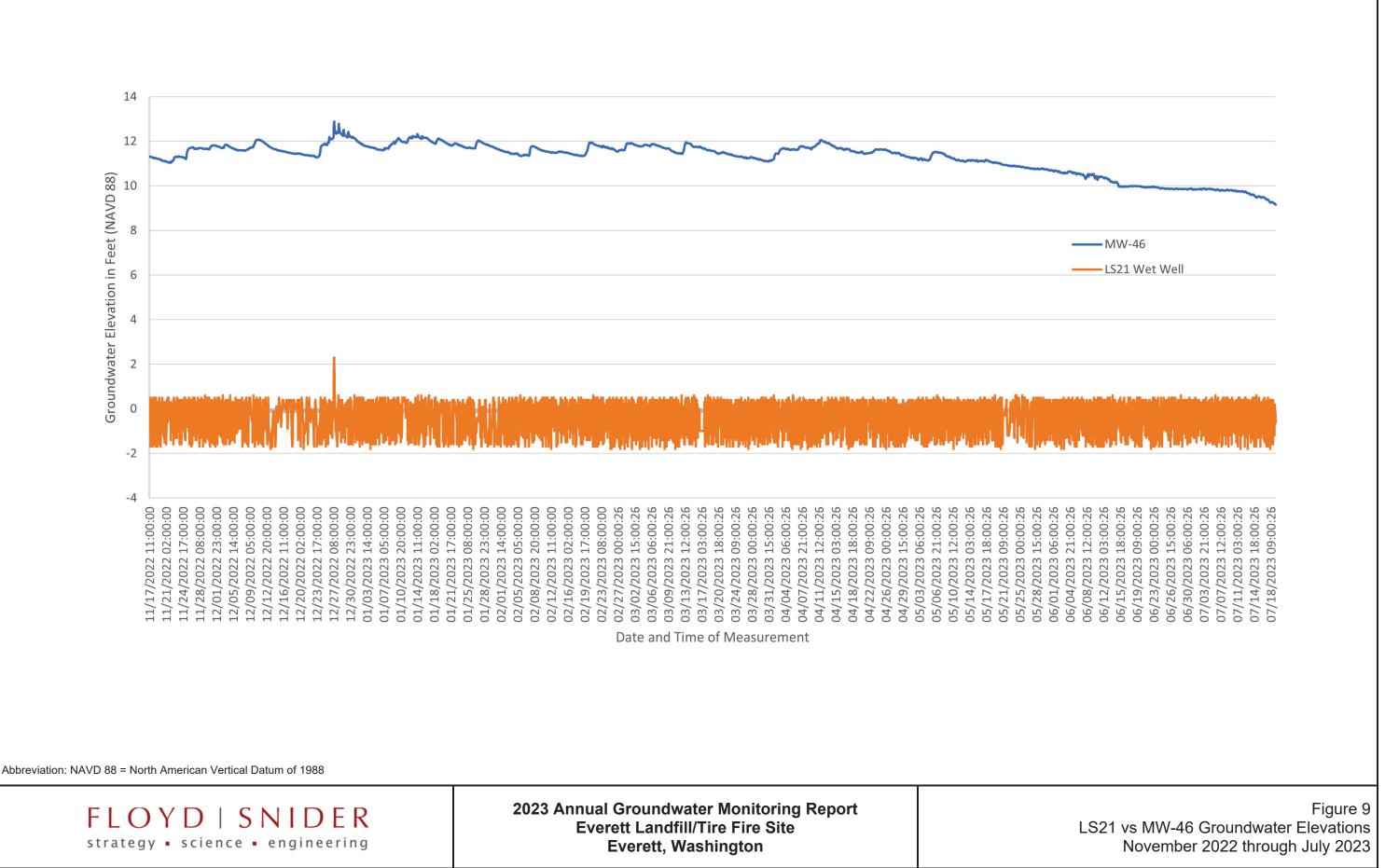
12/19/2023



I\GIS\Projects\CoEV-Devel\MXD\2023 Annual Groundwater Monitoring Report\Figure 7 Deep Aquifer Groundwater Elevations February 2023.mxd 12/27/2023



I:GISiProjects\CoEV-Devel\MXD\2023 Annual Groundwater Monitoring Report\Figure 8 Deep Aquifer Groundwater Elevations July 2023.mxd 12/27/2023



Attachment 1 Floyd | Snider Standard Guidelines

F|S STANDARD GUIDELINE

Low-Flow Groundwater Sample Collection

DATE/LAST UPDATE: December 2022

These procedures should be considered standard guidelines and are intended to provide useful guidance when in the field but are not intended to be step-by-step procedures, as some steps may not be applicable to all projects.

All field staff should be sufficiently trained in the standard guidelines for the sampling method they intend to use and should review and understand these procedures prior to going into the field. It is the responsibility of the field staff to review the standard guidelines with the field manager or project manager and identify any deviations from these guidelines prior to field work. When possible, the project-specific Sampling and Analysis Plan should contain any expected deviations and should be referenced in conjunction with these standard guidelines.

1.0 Scope and Purpose

This standard guideline provides details necessary for collecting representative groundwater samples from monitoring wells using low-flow methods. These guidelines are designed to meet or exceed guidelines set forth by the Washington State Department of Ecology (Ecology). Low-Flow sampling provides a method to minimize the volume of water that is purged and disposed from a monitoring well, and minimizes the impact that purging has on groundwater chemistry during sample collection.

2.0 Equipment and Supplies

Groundwater Sampling Equipment and Tools

- For wells with head less than 25 feet:
 - Peristaltic pump with fully charged internal battery or standalone battery and appropriate connectors
- For wells with head greater than 25 feet:
 - Bladder pump and controller, as well as an air cylinder, or air compressor (with extension cord if near an electrical outlet; with battery and appropriate connectors or generator if not near an outlet)

- Low-flow submersible pump and controller (with extension cord if near an electrical outlet; with battery and appropriate connectors or generator if not near an outlet)
- Multi-parameter water quality meter
- Water level meter
- Polyethylene tubing, Teflon tubing, or similar (assume polyethylene unless otherwise specified in SAP) and tubing weights (for wells deeper than approximately 10 feet)
- Silicone tubing
- Filters (if field filtering)
- Tools for opening wells and drums (1/2-inch, 9/16-inch, 5/8 and 15/16-inch sockets ratchet, screwdriver, hammer/rubber mallet, bung wrench; any other necessary tools if non-standard monuments have been used)
- Well keys
- Tube cutters, razor blade, or scissors
- 5-gallon buckets, lids, and clamp
- Decontamination supplies: Alconox (or similar), distilled or deionized water, spray bottles, and paper towels
- Bailer or hand pump to drain well box if full of stormwater
- Trash bags

Lab Equipment

- Sample jars/bottles
- Coolers
- Chain-of-Custody Forms
- Labels
- Ice
- Ziploc bags

Paperwork

- Field notebook with site maps
- Table of well construction details and/or well logs, if available
- Sampling forms (enclosed)
- Purge water plan
- Rite-in-the-Rain pens, paper, and permanent markers

- Site-Specific Health and Safety Plan (HASP) and F|S Accident Prevention Plan (APP)
- List of emergency contacts for the Site or facility
- Safety Data Sheets (SDS) binder
- Sampling and Analysis Plan (SAP) and/or Quality Assurance Project Plan (QAPP) (including tables of analytes and bottle types)

Safety Equipment

- PPE:
 - Waterproof boots (safety toed, depending on site)
 - o Safety vest
 - Safety glasses
 - o Rain gear
 - Nitrile gloves
 - Work gloves
- First Aid kit
- Emergency kit (fire extinguisher, road flares)
- Traffic barricades or cones

3.0 Standard Procedures

Low-flow groundwater sampling consists of purging groundwater within the well casing at a rate equal to or less than the flow rate of representative groundwater from the surrounding aquifer into the well screen. The flow rate will depend on the hydraulic conductivity of the aquifer and the drawdown, with the goal of minimizing drawdown within the monitoring well. Field parameters are monitored during purging and groundwater samples are collected after field parameters have stabilized. Deviations from these procedures should be approved by the Project Manager and fully documented.

3.1 OFFICE PREPARATION

First, meet with the PM to identify the key objectives of the groundwater sampling effort. This may include the order of wells to be sampled (e.g., if using non-dedicated equipment, wells may need to be sampled in order of least contaminated to most contaminated), whether any wells require redevelopment at least 24-hours prior to sampling, and/or key stabilization parameters (e.g., elevated turbidity may require purging beyond 30 minutes, even if the readings are within 10%).

Conduct a kick-off meeting with the sampling team to discuss site health and safety protocols, data quality objectives, and any site-specific special considerations or sampling procedures.

3.2 TAILGATE SAFETY MEETING

Conduct a tailgate safety meeting prior to beginning work at the site. Emergency evacuation procedures, rally points, and onsite communication protocols should be discussed at the first tailgate meeting and repeated if new personnel join the field team onsite.

The safety meeting should cover the hazards specific to groundwater sampling. Typical hazards include the following:

- Chemical hazards (refer to HASP for site chemical exposure hazards)
- Site hazards
 - Traffic hazards onsite (e.g., truck traffic, heavy machinery)
 - Biological hazards (e.g., spiders or wasps within well monuments)
- Physical hazards associated with lifting and carrying heavy equipment and repeated bending while sampling
- Cuts and abrasions associated with using blades and tools
- Electrical hazards (make sure all wires/cables are in good condition and connections to battery or outlet are secure)
- Heat stress and cold stress

Record the meeting attendees and topics discussed on the front page of the tailgate safety meeting form (included as an attachment to the HASP). All attendees should sign the form.

3.3 OTHER HEALTH AND SAFETY GUIDELINES

The following are additional health and safety guidelines that should be followed in the field. These guidelines are intended to supplement the guidelines and requirements identified in the HASP and are not intended to replace the HASP.

- Review and sign the HASP prior to going into the field.
- Conduct a tailgate safety meeting prior to beginning work at the site as discussed in Section 3.2
- When moving between monitoring wells or switching to different tasks (e.g., transitioning from sampling to cooler QC prior to lab pickup), assess any additional hazards that may be associated with the new location or task. Record additional hazards noted and corrective actions to address those hazards on the Daily Tailgate Safety Meeting and Debrief Form (included as an attachment to the HASP).
- Record near misses and incidents on the Near Miss and Incident Reporting Form (included as an attachment to the HASP) and conduct management/client notifications according to the protocols detailed in the HASP.

3.4 CALIBRATION OF WATER QUALITY METERS

All multi-parameter water quality meters to be used will be calibrated prior to each sampling event. Calibration procedures are outlined in each instrument's specific user manual.

3.5 MONITORING, MAINTENANCE, AND SECURITY

Prior to sampling, depth to water and total depth measurements will be collected and recorded for accessible monitoring wells onsite (or an appropriate subset for larger sites). Check for an existing measuring point (notch or visible mark on top of casing). If a measuring point is not observed, a measuring point should be established on the north side of the casing. The conditions of the well box and bolts will also be observed, and deficiencies will be recorded on the sampling forms or logbook (i.e., missing or stripped bolt). The following should also be recorded:

- Condition of the well box, lid, bolts, locks, and gripper cap, if deficiencies
- Condition of gasket if deficient and if water is present in the well box
- Note any obstructions or kinks in the well casing
- Note any equipment in the well casing, such as transducers, bailers, or tubing
- Condition of general area surrounding the well, such as subsidence, potholes, or if the well is submerged within a puddle.

Replace any missing or stripped bolts and redevelop wells if needed.

3.6 LOW-FLOW PURGING METHOD AND SAMPLING PROCEDURES

Groundwater samples will be collected using low-flow purging and sampling procedures consistent with Ecology guidelines and the U.S. Environmental Protection Agency (USEPA) standard operating procedures (USEPA 1996). The following describes the Low-Flow purging and sampling procedures for collecting groundwater samples using a peristaltic pump. If the water level is greater than approximately 20 to 25 feet below ground surface (bgs), Grundfos or Geotech submersible pumps or bladder pumps can be used since their pumping rates can be adjusted to low-flow levels. Submersible pumps are preferable to bladder pumps in situations where less than 5 feet of water column are present in the well casing.

 Place the peristaltic pump and water quality equipment near the wellhead. Slowly lower new poly tubing down into the well casing approximately to the middle of the well screen. When sampling wells with a bottom screen depth greater than approximately 10 feet, it is important to measure the length of tubing prior to placement as longer lengths of tubing are more likely to get caught or otherwise obstructed and feel like it has reached the well bottom; this issue can be mitigated by using decontaminated stainless steel tubing weights. If the depth of the well screen is not known, lower the appropriate length of tubing to the bottom of the well, making sure that the tubing has not been caught on the slotted well casing, and then raise the tubing 3 to 5 feet off the bottom of the casing (limit this distance to 2 feet for wells with total depth less than 10 feet). Document the estimated depth of the tubing placement within the well. Connect the tubing to the peristaltic pump using new flex tubing and connect the discharge line to the flow-through cell of the water quality meter. The discharge line from the flow cell should be directed to a bucket to contain the purged water.

- If using a low-flow submersible pump, connect the pump head to dedicated or disposable tubing. If using a bladder pump, connect both the air intake and water discharge ports to decontaminated or disposable tubing, using the manufacturer's instructions to ensure a secure connection. Lower the pump with tubing into the well as described above and connect the water discharge tubing directly to the flowthrough cell.
- Measure the depth to water to the nearest 0.01 foot with a decontaminated water level meter and record the information on a sampling form.
- Start pumping the well at a purge rate of 0.1 to 0.2 liters per minute and slowly increase the rate. Purge rate is adjusted using a speed control knob or arrows on peristaltic and low-flow submersible pumps. The purge rate for bladder pumps is controlled by the air compressor, which first pressurizes the pump chamber in order to compress the flexible bladder and force water through the discharge line, and then vents the chamber in order to allow the bladder to refill with water.
 - A good rule of thumb is to pressurize to 10 psi + 0.5 psi/foot of tubing depth and begin with 4 discharge/refill cycles per minute; using greater air pressure and accelerating the pump cycles will increase the purge rate.
- Check the water level. If the water level is dropping, lower the purge rate. Maintain a steady flow with no or minimal drawdown (less than 0.33 feet according to USEPA 2002). Maintaining a drawdown of less than 0.33 feet may not be feasible depending on hydrogeological conditions. If possible, measure the discharge rate of the pump with a graduated cylinder or use a stopwatch when filling sampling jars (500 milliliters [mL] polyethylene or glass ambers) to estimate the rate. When purging water through a flow cell, the maximum flow rate for accurate water quality readings is about 0.5 liters per minute (L/minute).
- The discharge tubing should be connected to the flow cell immediately upon initial water discharge, unless the discharge water is visibly turbid or flocculant is observed. Monitor and record water quality parameters every three to five minutes after one tubing volume (including the volume of water in the flow cell) has been purged.
 - One foot of ¼-inch interior diameter tubing holds about 10 mL of water, and flowthrough cells typically hold less than 200 mL of water; one volume should be purged after about 5 minutes at a flow rate of 0.1 L/minute.
- Water-quality indicator parameters that will be monitored and recorded during purging include:
 - o pH
 - Specific conductivity

- Dissolved oxygen
- Temperature
- o Turbidity
- Oxidation reduction potential (ORP)
- Continue purging until temperature, pH, turbidity, and specific conductivity are approximately stable (when measurements are within 10 percent) for three consecutive readings, or 30 minutes have elapsed. Because these field parameters (especially dissolved oxygen and ORP) may not reach the stabilization criteria, collection of the groundwater sample will be based on the professional judgment of field personnel at the time of sampling. A minimum of 5 water quality readings should be collected prior to sampling.
- The water sample can be collected once the criteria above have been met.
- If drawdown in the well cannot be maintained at 0.33 feet or less, reduce the flow or turn off the pump for 15 minutes and allow for recovery. If the water quality parameters have stabilized, and if at least two tubing volumes and the flow cell volume have been purged, then sample collection can proceed when the water level has recovered, and the pump is turned back on. This should be noted on the sampling form.
- To collect the water sample, maintain the same pumping rate. After the well has been purged and the sample bottles have been labeled, the groundwater sample will be collected by directly filling the laboratory-provided bottles from the pump discharge line prior to passing through the flow cell. All sample containers should be filled with minimum disturbance by allowing the water to flow down the inside of the bottle or vial. When collecting a volatile organic compound (VOC) sample, fill to the top to form a meniscus over the mouth of the vial prior to placing the cap to eliminate air bubbles. Be careful not to overflow preserved bottles/pre-cleaned Volatile Organic Analyte (VOA) vials.
- If sampling for filtered metals, collect these samples last and fit an in-line filter at the end of the discharge line. Take note of the flow direction arrow on the filter prior to fitting, invert filter to eliminate air bubbles, and allow minimum of 0.5 to 1 liter of groundwater to pass through the filter prior to collecting the sample.
- Sample labels will clearly identify the project name, sampler's initials, sample location and unique sample ID, analysis to be performed, date, and time. After collection, place samples a cooler maintained at a temperature of approximately 4 to 6 degrees Celsius (°C) using ice (if required). Complete the chain-of-Custody forms. Upon transfer of the samples to the laboratory, the Chain-of-Custody Form will be signed by the persons transferring custody of the sample containers to document change in possession.
- When sample collection is complete at a designated location, remove and properly dispose of the non-dedicated tubing. In most cases, this waste is considered solid waste and can be disposed of as refuse. Close and lock the well.

4.0 Decontamination

All reusable equipment that comes into contact with groundwater should be decontaminated using the processes described in this section prior to moving to the next sampling location.

Water Level Meter: The water level indicator and tape will be decontaminated between sampling locations and at the end the day by spraying the entire length of tape that came in contact with groundwater with an Alconox (or similar)/clean water solution followed by a thorough rinse with distilled or deionized water.

Water Quality Sensors and Flow-Through Cell: Distilled water or deionized water will be used to rinse the water quality sensors and flow-through cell. No other decontamination procedures are recommended since they are sensitive equipment. After the sampling event, the water quality meters will be cleaned and maintained according to the specific manual.

Submersible Pump (if applicable): Decontaminating the pump requires running the pump in three progressively cleaner grades of water.

- 1. Fill a bucket with approximately 4 gallons of an Alconox (or similar)/clean water solution to sufficiently cover the pump. Place the pump and the length of the power cord (if applicable) that was in contact with water into the bucket and run the pump for approximately two minutes or until the volume of water in the bucket has been exhausted.
- 2. Fill a second bucket containing approximately 4 gallons of clean water to sufficiently cover the pump. Place the pump and cord into this bucket and run the pump for approximately two minutes or until the volume of water in the bucket has been exhausted.
- 3. Fill a third bucket with approximately 4 gallons of distilled or deionized water to sufficiently cover the pump. Place the pump and cord into this bucket and run the pump for approximately two minutes or until the volume of water in the bucket has been exhausted.

The soap/water solution may be reused; however, rinse water should be collected for disposal as described in Section 5.0 below. When done for the day, dry the exterior of the pump and cord with clean towels to the extent practical prior to storage.

Bladder Pump: Clean the inside and outside of the pump body with an Alconox (or similar)/clean water solution, followed by a thorough rinse with distilled or deionized water. The outside of the air supply line that came in contact with groundwater may also be cleaned with Alconox (or similar) solution and re-used; bladders and water discharge lines must be replaced after each sample is collected.

5.0 Investigation-Derived Waste (IDW)

Unless otherwise specified in the project work plan, water generated during groundwater sampling activities will be contained, transported, disposed of in accordance with applicable laws, and stored in a designated area until transported off-site for disposal. This includes purge water and decontamination waste water.

The approach to handling and disposal of these materials for a typical cleanup site is as follows.

For IDW that is containerized, such as purge water, 55-gallon drums (or other smaller sized drums) approved by the Washington State Department of Transportation will be used for temporary storage pending profiling and disposal. Each container holding IDW will be sealed and labeled as to its contents (e.g., "purge water"), the dates on which the wastes were placed in the container, the owner's name and contact information for the field person who generated the waste, and the site name.

IDW containerized within drums will be characterized relative to applicable waste criteria using data from the sampling locations whenever possible. Material that is designated for off-site disposal will be transported to an off-site facility permitted to accept the waste. Manifests will be used, as appropriate for disposal. Refer to the FS Special Condition Standard Guideline for Investigation Derived Waste for additional information regarding proper profiling and disposal of wastewater generated by groundwater sampling.

Disposable sampling materials and incidental trash such as tubing, paper towels and gloves/other disposable used in sample processing will be placed in heavy-duty garbage bags or other appropriate containers and disposed of as trash in the municipal collection system unless otherwise specified in the SAP.

6.0 Field Documentation

Groundwater sampling activities will be documented in field sampling forms and/or field notebooks, and Chain-of-Custody Forms. Information recorded will, at a minimum, include personnel present (including subcontractors or client representatives), purpose of field event, weather conditions, sample collection date and times, sample analytes, depths to water, water quality parameters, well box/lid conditions, amount of purged water generated, and any deviations from the SAP. Photographs of damaged well casings or well boxes should be taken.

At the end of the day, complete and review the second page of the tailgate safety meeting form detailing additional hazards, corrective actions, near-misses or incidents. Any incidents that result in equipment damage or field staff injuries should be reported immediately to the PM.

7.0 Demobilization

Upon returning to the office, ensure that all equipment is property cleaned and put away in the field room. Equipment with rechargeable batteries should be plugged in as appropriate. It is

preferable to dispose of trash on-site, but any trash left in the field vehicle should be disposed as regular trash at Two Union Square.

If rented equipment or sample coolers will be placed at the front desk for pickup, clearly label each item with the company picking it up, anticipated pickup time frame, and your contact information so front desk staff can contact you if there are any questions. Notify front desk staff if any items require a signature at pickup.

Within one week of returning from the field, the field lead for the event should review field notes, sampling forms and tailgate safety meeting forms with the PM. Following PM review and approval, field notes will be scanned and saved to the project folder. Hard copies should be filed. The PM will provide copies of near miss and incident reports to the Safety Program Manager.

8.0 References

- U.S. Environmental Protection Agency (USEPA). 1996. Low-Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells, Revision 2. Region 1. July 30, 1996.
- _____. 2002. Groundwater Sampling Guidelines for Superfund and CAR Project Managers. Office of Solid Waste and Emergency Response. EPA 542.S-02-001. May 2002.

Enclosures: Groundwater or Surface Water Sample Collection Form

Record of Revisions:

Revisions	Date
Added health and safety information,	12/9/2022
reviewed EPA guidance, and added	
revisions table.	

GROUNDWATER	R OR SURFA	CE WATE	ER SAMPL	LE CO	LLECTIO	ON FOR	М		
Project:				Date	of Collec	tion:			
Task:				Fie	ld Persor	nnel:			
Purge Data									
Well ID:	Secure: 🗌 Yes 🗌	No Eco	logy Tag #:		Casing	Type/Diamete	er/Screened	Interval	
Replacement Required:] Monument 🔲 Lid	I 🗌 Lock 🗌	Bolts: Missing	g (#)	_ Stripped (#)	Ot	ther Damage	:	
Depth Sounder decontami	nated Prior to Placen	nent in Well:]Yes 🗌 No	One	e Casing Volu	ıme (gal):			
Depth of water (from TOC)):	Time:							
Total Depth (from log or fie	eld measurement): _			_	Diamatar			edule 40 PVC P Volume	ipe Weight of Water
After 5 minutes of purging	(from top of casing):				Diameter	O.D. 1.660"	I.D. 1.380"	(Gal/Linear Ft.) 0.08	(Lbs/Lineal Ft.) 0.64
Begin purge (time):End purge (time):			_	2" 3"	2.375" 3.500"	2.067" 3.068"	0.17 0.38	1.45 3.2	
Volume purged:	Purge water dis	posal method_		_	4" 6"	4.500" 6.625"	4.026" 6.065"	0.66 1.5	5.51 12.5
Time Depth to Water (ft)		рН (s.u.)	DO (mg/L)	Spe Condu (µs/	ictivity	Turbidity (NTU)	Temp (°C)	ORP (mV)	Comments
							- <u> </u>		
							<u> </u>		
Sampling Data									
Sample No:				Loca	tion and Dept	th:			
Date Collected (mo/dy/yr):		Tim	e Collected:			N	/eather:		
Type: 🗌 Ground Water	Surface Water Ot	her:			Sample:	Filtered	Unfiltered	Filter Type:	
Sample Collected with:	Bailer 🛛 Pump Ot	her:	Туре	e: 🗆 Peris	taltic 🛛 Bla	dder 🛛 Sub	mersible O	ther:	
Water Quality Instrument	Data Collected with: -	Type: 🛛 YSI P	roDSS 🗖 Tudi	bidity Mete	er 🛛 Other: _				
Sample Decon Procedure:	Sample collected	with: 🗆 decon	taminated <u>all</u> tub	bing; 🗖 di	sposable tubi	ng 🗖 dedica	ated silicon ar	nd poly tubing; 🗖 de	dicated tubing replaced
Sample Description (Color	, Turbidity, Odor, Oth	er):							
		-							
Sample Analyses									
Analyte	Analysis	Method	Sample	e Contain	er (Quantity Pre	eservative	Notes	
									_
QC samples									
Duplicate Sample No:			Duplicate	Time:		MS/MSD:	: 🗆 Yes 🗌] No	
Signature:							Date:		

Attachment 2 Analytical Laboratory Reports



March 2, 2023

Sabine Datum Floyd & Snider 601 Union Street, Suite 600 Seattle, WA 98101

Re: Analytical Data for Project COEV Devel Laboratory Reference No. 2302-279

Dear Sabine:

Enclosed are the analytical results and associated quality control data for samples submitted on February 23, 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



Date of Report: March 2, 2023 Samples Submitted: February 23, 2023 Laboratory Reference: 2302-279 Project: COEV Devel

Case Narrative

Samples were collected on February 22 and 23, 2023 and received by the laboratory on 23, 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	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-21R-022223					
Laboratory ID:	02-279-01					
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270E	2-27-23	2-28-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	47	10 - 81				
Phenol-d6	33	10 - 86				
Nitrobenzene-d5	77	27 - 105				
2-Fluorobiphenyl	77	33 - 100				
2,4,6-Tribromophenol	110	25 - 124				
Terphenyl-d14	79	40 - 116				

Client ID:	MW-36-022223					
Laboratory ID:	02-279-02					
bis(2-Ethylhexyl)phthalate	ND	0.97	EPA 8270E	2-27-23	2-28-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	41	10 - 81				
Phenol-d6	25	10 - 86				
Nitrobenzene-d5	77	27 - 105				
2-Fluorobiphenyl	79	33 - 100				
2,4,6-Tribromophenol	110	25 - 124				
Terphenyl-d14	83	40 - 116				

Client ID:	MW-37-022223					
Laboratory ID:	02-279-03					
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270E	2-27-23	2-28-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	57	10 - 81				
Phenol-d6	36	10 - 86				
Nitrobenzene-d5	82	27 - 105				
2-Fluorobiphenyl	79	33 - 100				
2,4,6-Tribromophenol	112	25 - 124				
Terphenyl-d14	83	40 - 116				



Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-38-022223					
Laboratory ID:	02-279-04					
bis(2-Ethylhexyl)phthalate	1.2	0.99	EPA 8270E	2-27-23	2-28-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	42	10 - 81				
Phenol-d6	29	10 - 86				
Nitrobenzene-d5	67	27 - 105				
2-Fluorobiphenyl	68	33 - 100				
2,4,6-Tribromophenol	99	25 - 124				
Terphenyl-d14	74	40 - 116				

Client ID:	MW-11R-022323					
Laboratory ID:	02-279-05					
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270E	2-27-23	3-1-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	44	10 - 81				
Phenol-d6	29	10 - 86				
Nitrobenzene-d5	81	27 - 105				
2-Fluorobiphenyl	78	33 - 100				
2,4,6-Tribromophenol	121	25 - 124				
Terphenyl-d14	77	40 - 116				

Client ID:	MW-29R-022323					
Laboratory ID:	02-279-06					
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270E	2-27-23	3-1-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	42	10 - 81				
Phenol-d6	29	10 - 86				
Nitrobenzene-d5	74	27 - 105				
2-Fluorobiphenyl	71	33 - 100				
2,4,6-Tribromophenol	116	25 - 124				
Terphenyl-d14	76	40 - 116				



4

Matrix: Water Units: ug/L

·				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-29RD-022323					
Laboratory ID:	02-279-07					
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270E	2-27-23	3-1-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	41	10 - 81				
Phenol-d6	28	10 - 86				
Nitrobenzene-d5	66	27 - 105				
2-Fluorobiphenyl	74	33 - 100				
2,4,6-Tribromophenol	83	25 - 124				
Terphenyl-d14	78	40 - 116				

Client ID:	MW-30-022323					
Laboratory ID:	02-279-08					
bis(2-Ethylhexyl)phthalate	ND	0.94	EPA 8270E	2-27-23	3-1-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	40	10 - 81				
Phenol-d6	29	10 - 86				
Nitrobenzene-d5	68	27 - 105				
2-Fluorobiphenyl	69	33 - 100				
2,4,6-Tribromophenol	85	25 - 124				
Terphenyl-d14	81	40 - 116				

Client ID:	MW-39R-022323					
Laboratory ID:	02-279-09					
bis(2-Ethylhexyl)phthalate	ND	0.96	EPA 8270E	2-27-23	3-1-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	44	10 - 81				
Phenol-d6	31	10 - 86				
Nitrobenzene-d5	76	27 - 105				
2-Fluorobiphenyl	77	33 - 100				
2,4,6-Tribromophenol	88	25 - 124				
Terphenyl-d14	84	40 - 116				



5

Matrix: Water Units: ug/L

0				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-31-022323					
Laboratory ID:	02-279-10					
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270E	2-27-23	3-1-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	40	10 - 81				
Phenol-d6	31	10 - 86				
Nitrobenzene-d5	70	27 - 105				
2-Fluorobiphenyl	74	33 - 100				
2,4,6-Tribromophenol	95	25 - 124				
Terphenyl-d14	83	40 - 116				



SEMIVOLATILE ORGANICS EPA 8270E/SIM QUALITY CONTROL

Matrix: Water Units: ug/L

0				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0227W1					
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270E	2-27-23	2-28-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	52	10 - 81				
Phenol-d6	36	10 - 86				
Nitrobenzene-d5	78	27 - 105				
2-Fluorobiphenyl	78	33 - 100				
2,4,6-Tribromophenol	98	25 - 124				
Terphenyl-d14	82	40 - 116				

Analyte	Re	sult	Spike	Level		ercent covery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS			••••••			<u></u>				1.0.90
Laboratory ID:	SB02	27W1								
	SB	SBD	SB	SBD	SB	SBD				
bis(2-Ethylhexyl)phthalate	17.5	17.5	20.0	20.0	88	88	20-120	0	30	
Surrogate:										
2-Fluorophenol					56	52	10 - 81			
Phenol-d6					41	39	10 - 86			
Nitrobenzene-d5					80	77	27 - 105			
2-Fluorobiphenyl					78	80	33 - 100			
2,4,6-Tribromophenol					108	3 114	25 - 124			
Terphenyl-d14					80	82	40 - 116			



7



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.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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

Reviewed/Date	Received	Relinquished	Received	Relinquished	Received	Relinquished	Signature	10 NW-31-022303	9 MW- 391 - 02,2333	8 MW-30-002323	7 MW-22 RD-022323	6 MW-29R-022323	5 MM-11R-00.2323	4 NU-38-022223	3 MW-37-022223	2 MM-36-022223	1 NW-218-02223	Lab ID Sample Identification	SU/JL/AJ	SABINE OFTUR	CORU DEX P	Project Number:	COMPANY FLOXO SNIDER	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com	Environmental Inc.	***
Reviewed/Date					S (CATC 223/23 15	(THUYD SNIDER 2003/23/15-3	/ Company Date Time	1 14:15 - Q	11:20	Q.:37	0:55	10.EF	2/23/23 97.30 2	1 13:40	10°. Fr	11:45	2122/22 15:15 H20 2	NWTP NWTP NWTP NWTP Volatile	H-HCII H-Gx/E H-Gx H-Dx (/	3TEX (80)21 82 G Clean	3 Days	Same Day	(Check One) (Check One) (Check One)	Chain of Custody	
Chromatograms with final report Electronic Data Deliverables (EDDs)	Data Package: Standard K Level III D Level IV D					5 * BETTP July	Comments/Special Instructions											Semivu (with lc PAHs & PCBs i Organo Organo Chlorir Total R Total N	olatiles w-leve 3270/Si 8082 opchlorir ophosp nated A CRA M CRA M Metals		M level) cides 80 esticides bicides 8	181 s 8270/	SIM	er: 02-279	Page 1 of 1	

Sample/Cooler Receipt and Acceptance Checklist

Client: FLS			$\infty \Lambda$		
Client Project Name/Number: COEV DEVEL		Initiated by	<u>(</u> IIV		
OnSite Project Number: <u>02 - 279</u>		Date Initiat	ed: 2/2	3/23	
1.0 Cooler Verification					
1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	N/A	1234	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	NA	1234	
1.4 Were the samples delivered on ice or blue ice?	res	No	N/A	1234	2
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	N/A	Temperature:	3,4.6
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	N/A			
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup	Other
2.0 Chain of Custody Verification					
2.1 Was a Chain of Custody submitted with the samples?	Yes	No		1 2 3 4	
2.2 Was the COC legible and written in permanent ink?	Yes	No		1 2 3 4	
2.3 Have samples been relinquished and accepted by each custodian?	es,	No		1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Ves	No		1 2 3 4	
2.5 Were all of the samples listed on the COC submitted?	(es)	No		1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	Yes	No		1 2 3 4	
3.0 Sample Verification					
3.1 Were any sample containers broken or compromised?	Yes	No		1 2 3 4	
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4	
3.4 Have the samples been correctly preserved?	Yes	No	N/A)	1 2 3 4	
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	NA	1 2 3 4	
3.6 Is there sufficient sample submitted to perform requested analyses?	es	No		1 2 3 4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4	
3.8 Was method 5035A used?	Yes	No	N/A	1 2 3 4	
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1 2 3 4	

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

//SERVER\OSE\Administration\forms\cooler_checklist.xls

CITY OF EVERETT ENVIRONMENTAL LABORATORY

00063124

PROJECT #

Client:	FLOYD SNIDER			Date Re	eceived:	02/23/23	
Program:	Contract			Data Re	elease:	SF	
Contact:	MEGAN KING			Date Re	eported:	04/13/23	
						BP74774	BP74775
Department	Analysis	Units	DL	Method	PQL	MW-21R-022223	MW-36-022223
•						2/22/2023	2/22/2023
ETALS(D)	Dis. Arsenic	µg/L	0.6	200.8	2.4	9.0	1.0 J
	Dis. Iron	µg/L	20	200.8	80	13000	84
	Dis. Manganese	µg/L	0.6	200.8	2.4	1730	8.9
	Dis. Nickel	µg/L	0.6	200.8	2.4	<0.6	0.7 J
	Dis. Zinc	µg/L	10	200.8	40	<10	<10
UTRIENTS	Dis. Chloride	mg/L	0.3	SM4500-CL-E	1.2	13.0	3.5
			·		-	BP74776	BP74777
	Amelia	11	E.	Marth	DC:	MW-37-022223	MW-38-022223
Department	Analysis	Units	DL	Method	PQL	2/22/2023	2/22/2023
ETALS(D)	Dis. Arsenic	µg/L	0.6	200.8	2.4	<0.6	<0.6
	Dis. Iron	µg/L	20	200.8	80	11300	4030
	Dis. Manganese	μg/L	0.6	200.8	2.4	1620	305
	Dis. Nickel	µg/L	0.6	200.8	2.4	<0.6	<0.6
	Dis. Zinc	µg/L	10	200.8	40	<10	<10
UTRIENTS	Dis. Chloride	mg/L	0.3	SM4500-CL-E	1.2		15.9
			30	SM4500-CL-E	120	1460	
			1			BP74778	BP74779
						MW-11R-022323	MW-29R-022323
Department	Analysis	Units	DL	Method	PQL	2/23/2023	2/23/2023
ETALS(D)	Dis. Arsenic	µg/L	0.6	200.8	2.4	<0.6	<0.6
	Dis. Iron	µg/L	20	200.8	80	3260	5560
	Dis. Manganese	µg/L	0.6	200.8	2.4	685	399
	Dis. Nickel	µg/L	0.6	200.8	2.4	<0.6	<0.6
	Dis. Zinc	µg/L	10	200.8	40	<10	<10
UTRIENTS	Dis. Chloride	mg/L	0.3	SM4500-CL-E	1.2	15.8	11.1
						BP74780	BP74781
						MW-29RD-022323	MW-30-022323
Department	Analysis	Units	DL	Method	PQL	2/23/2023	2/23/2023
ETALS(D)	Dis. Arsenic	µg/L	0.6	200.8	2.4	<0.6	7.6
	Dis. Iron	µg/L	20	200.8	80	5550	12200
	Dis. Manganese	µg/L	0.6	200.8	2.4	396	536
	Dis. Nickel	μg/L	0.6	200.8	2.4	<0.6	<0.6
	DIS. INICKEI						
	Dis. Zinc	µg/L	10	200.8	40	<10	<10

DL = Detection Limit

- PQL = Practical Quantitation Limit (= 4xDL)
- J = Analyte concentration less than PQL

SA = See Attached

ND = No Data

TNTC = Too numerous to count

DATA REPORTING QUALIFIERS

M = Matrix effect / interference

P/A (used for Total Coliform results) P= Coliforms present, A = Coliforms absent

Y/N (used for E. Coli Results) Y= E. Coli present, N=E. Coli absent

E = Estimated Value. Count from plates not within ideal range.

R = Sample was re-analyzed after holding time.

H = Analyzed past hold time

* Flagged value QC not within established control limits

Page 1 of 2

CITY OF EVERETT ENVIRONMENTAL LABORATORY

00063124

PROJECT #

Client:	FLOYD SNIDER	Date Received:	02/23/23	
Program:	Contract	Data Release:	SF	
Contact:	MEGAN KING	Date Reported:	04/13/23	

						BP74782	BP74783
	A				DO 1	MW-39R-022323	MW-31-022323
Department	Analysis	Units	DL	Method	PQL	2/23/2023	2/23/2023
METALS(D)	Dis. Arsenic	µg/L	0.6	200.8	2.4	<0.6	1.4 J
	Dis. Iron	µg/L	20	200.8	80	4620	35700
	Dis. Manganese	µg/L	0.6	200.8	2.4	250	1270
	Dis. Nickel	µg/L	0.6	200.8	2.4	<0.6	3.3
	Dis. Zinc	µg/L	10	200.8	40	<10	<10
NUTRIENTS	Dis. Chloride	mg/L	0.3	SM4500-CL-E	1.2	6.9	
			3.0	SM4500-CL-E	12.0		151

DL = Detection Limit

- PQL = Practical Quantitation Limit (= 4xDL)
- J = Analyte concentration less than PQL
- SA = See Attached

ND = No Data

TNTC = Too numerous to count

DATA REPORTING QUALIFIERS

M = Matrix effect / interference

- P/A (used for Total Coliform results) P= Coliforms present, A = Coliforms absent
- Y/N (used for E. Coli Results) Y= E. Coli present, N=E. Coli absent

E = Estimated Value. Count from plates not within ideal range.

R = Sample was re-analyzed after holding time.

H = Analyzed past hold time

* Flagged value QC not within established control limits

Page 2 of 2



July 25, 2023

Sabine Datum Floyd & Snider 601 Union Street, Suite 600 Seattle, WA 98101

Re: Analytical Data for Project COEV DEVEL Laboratory Reference No. 2307-145

Dear Sabine:

Enclosed are the analytical results and associated quality control data for samples submitted on July 19, 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



Date of Report: July 25, 2023 Samples Submitted: July 19, 2023 Laboratory Reference: 2307-145 Project: COEV DEVEL

Case Narrative

Samples were collected on July 18, 2023 and received by the laboratory on July 19, 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.



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

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-11R-071823					
Laboratory ID:	07-145-01					
bis(2-Ethylhexyl)phthalate	ND	0.95	EPA 8270E	7-24-23	7-24-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	49	10 - 79				
Phenol-d6	33	10 - 82				
Nitrobenzene-d5	73	28 - 105				
2-Fluorobiphenyl	81	33 - 100				
2,4,6-Tribromophenol	89	25 - 124				
Terphenyl-d14	86	34 - 116				

Client ID:	MW-D11R-071823
Laboratory ID:	07-145-02

Client ID:	MW-38-071823					
Laboratory ID:	07-145-03					
bis(2-Ethylhexyl)phthalate	ND	0.96	EPA 8270E	7-24-23	7-24-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	51	10 - 79				
Phenol-d6	34	10 - 82				
Nitrobenzene-d5	74	28 - 105				
2-Fluorobiphenyl	78	33 - 100				
2,4,6-Tribromophenol	83	25 - 124				
Terphenyl-d14	89	34 - 116				



				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-37-071823					
Laboratory ID:	07-145-04					
bis(2-Ethylhexyl)phthalate	ND	0.94	EPA 8270E	7-24-23	7-24-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	49	10 - 79				
Phenol-d6	32	10 - 82				
Nitrobenzene-d5	64	28 - 105				
2-Fluorobiphenyl	65	33 - 100				
2,4,6-Tribromophenol	82	25 - 124				
Terphenyl-d14	76	34 - 116				

Client ID:	MW-39R-071823					
Laboratory ID:	07-145-05					
bis(2-Ethylhexyl)phthalate	ND	0.98	EPA 8270E	7-24-23	7-24-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	46	10 - 79				
Phenol-d6	29	10 - 82				
Nitrobenzene-d5	68	28 - 105				
2-Fluorobiphenyl	66	33 - 100				
2,4,6-Tribromophenol	75	25 - 124				
Terphenyl-d14	79	34 - 116				

Client ID:	MW-29R-071823					
Laboratory ID:	07-145-06					
bis(2-Ethylhexyl)phthalate	ND	0.94	EPA 8270E	7-24-23	7-24-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	32	10 - 79				
Phenol-d6	22	10 - 82				
Nitrobenzene-d5	50	28 - 105				
2-Fluorobiphenyl	55	33 - 100				
2,4,6-Tribromophenol	68	25 - 124				
Terphenyl-d14	66	34 - 116				



SEMIVOLATILE ORGANICS EPA 8270E/SIM QUALITY CONTROL

0				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0724W1					
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270E	7-24-23	7-24-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	43	10 - 79				
Phenol-d6	31	10 - 82				
Nitrobenzene-d5	64	28 - 105				
2-Fluorobiphenyl	69	33 - 100				
2,4,6-Tribromophenol	95	25 - 124				
Terphenyl-d14	96	34 - 116				

					Per	cent	Recovery		RPD		
Analyte	Result		Spike Level		Recovery		Limits	RPD	Limit	Flags	
SPIKE BLANKS											
Laboratory ID:	SB07	24W1									
	SB	SBD	SB	SBD	SB	SBD					
bis(2-Ethylhexyl)phthalate	22.3	21.6	20.0	20.0	112	108	40 - 120	3	30		
Surrogate:											
2-Fluorophenol					60	49	10 - 79				
Phenol-d6					43	35	10 - 82				
Nitrobenzene-d5					92	78	28 - 105				
2-Fluorobiphenyl					90	77	33 - 100				
2,4,6-Tribromophenol					106	99	25 - 124				
Terphenyl-d14					100	95	34 - 116				





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.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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

Reviewed/Date	Received	Relinquished	Received	Received an Alalaz	Relinquished	Signature ~ /			10 MM-292-071823	5 MM-39R-071803	4 MM-37-071823	3 MW-38-071823	2 MW-JUR-071823	1 MIN-11R-071823	Lab ID Sample Identification	Sampleddy: SU/JP/77	KRTE STURR	Project Name:	COLLY DEVICE	FLOYD SN IDER	14648 NE 95th Street - Redmond, WA 98052 Phone: (425) 883-3881 - www.onsite-env.com	Analytical Laboratory Testing Services	OnSite Environmental Inc.
Reviewed/Date			111 HHA	S. API 2011 - 4 HONA DN	Edult annuslation	Company Date Time			7/18/23 14/18 120 2	14:05	10:05	(2:2)	1:55	7/18/29 9:50 Have 2	NWTF NWTF NWTF Volatil Halog	PH-HCII PH-Gx/P PH-Gx PH-Dx (les 8260 enated	BTEX (8	021 [] 82 G Clear	260])	Same Day 1 Day	(Check One)	Turnaround Request	Chain of Custody
Chromatograms with final report 🗌 Electronic Data Deliverables (EDDs)	Data Package: Standard Level III 🛛 Level IV 🛛		L Sabrie - datum (a) they demuter	* email results to	* BETTP only	Comments/Special Instructions									(with I PAHs PCBs Organ Organ Chlori Total I Total I Total I	ow-leve 8270/S 8082 hochlori hophosp nated A RCRA N WTCA I Metals (oil and	Metals	cides 8 Pesticides	es 8270	/SIM		07 4 4	Page of

Sample/Cooler Receipt and Acceptance Checklist

Client: FLS					
Client Project Name/Number: COEV DEVEL		Initiated by:	NA)	
OnSite Project Number: 07 - 145		Date Initiate	ed:	19/23	
1.0 Cooler Verification					
1.1 Were there custody seals on the outside of the cooler?	Yes	NO	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	NA	1234	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(NIA)	1234	
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	N/A	Temperature:	4.9
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)			
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup	Other
2.0 Chain of Custody Varification					
2.0 Chain of Custody Verification					
2.1 Was a Chain of Custody submitted with the samples?	Yes	No		1234	
2.2 Was the COC legible and written in permanent ink?	Yes	No		1 2 3 4	
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No		1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No		1 2 3 4	
2.5 Were all of the samples listed on the COC submitted?	Yes	No		1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	(Yes)	No		1234	
3.0 Sample Verification					
3.1 Were any sample containers broken or compromised?	Yes	Ro		1 2 3 4	
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	(Yes)	No		1 2 3 4	
3.4 Have the samples been correctly preserved?	Yes	No	MA	1234	
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	(NA)	1 2 3 4	
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	(NO)		1 2 3 4	
3.8 Was method 5035A used?	Yes	No	(NIA)	1234	
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1234	
Explain any discrepancies:					
2.6 Sample MW-29R-071823 (21418	- Nlot	listel	00 PA	(-AND
2.4) Sachape III a a monocos	5 19.10	- 1000	ligues	onco	C. Thata,

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

//SERVER\OSE\Administration\forms\cooler_checklist.xls



July 25, 2023

Kate Snider Floyd & Snider 601 Union Street, Suite 600 Seattle, WA 98101

Re: Analytical Data for Project COEV DEVEL Laboratory Reference No. 2307-146

Dear Kate:

Enclosed are the analytical results and associated quality control data for samples submitted on July 19, 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



Date of Report: July 25, 2023 Samples Submitted: July 19, 2023 Laboratory Reference: 2307-146 Project: COEV DEVEL

Case Narrative

Samples were collected on July 19, 2023 and received by the laboratory on July 19, 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.



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

Matrix: Water Units: ug/L

Client ID:

-				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-31-071923					
Laboratory ID:	07-146-01					
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270E	7-24-23	7-24-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	38	10 - 79				
Phenol-d6	31	10 - 82				
Nitrobenzene-d5	61	28 - 105				
2-Fluorobiphenyl	76	33 - 100				
2,4,6-Tribromophenol	99	25 - 124				
Terphenyl-d14	82	34 - 116				

Laboratory ID:	07-146-02					
bis(2-Ethylhexyl)phthalate	ND	0.94	EPA 8270E	7-24-23	7-24-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	36	10 - 79				
Phenol-d6	24	10 - 82				
Nitrobenzene-d5	56	28 - 105				
2-Fluorobiphenyl	66	33 - 100				
2,4,6-Tribromophenol	97	25 - 124				
Terphenyl-d14	95	34 - 116				

MW-30-071923

Client ID:	BB-071923					
Laboratory ID:	07-146-03					
bis(2-Ethylhexyl)phthalate	ND	0.94	EPA 8270E	7-24-23	7-24-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	52	10 - 79				
Phenol-d6	34	10 - 82				
Nitrobenzene-d5	83	28 - 105				
2-Fluorobiphenyl	82	33 - 100				
2,4,6-Tribromophenol	98	25 - 124				
Terphenyl-d14	98	34 - 116				



SEMIVOLATILE ORGANICS EPA 8270E/SIM QUALITY CONTROL

Matrix: Water Units: ug/L

0				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0724W1					
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270E	7-24-23	7-24-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	43	10 - 79				
Phenol-d6	31	10 - 82				
Nitrobenzene-d5	64	28 - 105				
2-Fluorobiphenyl	69	33 - 100				
2,4,6-Tribromophenol	95	25 - 124				
Terphenyl-d14	96	34 - 116				

					Per	cent	Recovery		RPD	
Analyte	Result		Spike Level		Recovery		Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB07	24W1								
	SB	SBD	SB	SBD	SB	SBD				
bis(2-Ethylhexyl)phthalate	22.3	21.6	20.0	20.0	112	108	40 - 120	3	30	
Surrogate:										
2-Fluorophenol					60	49	10 - 79			
Phenol-d6					43	35	10 - 82			
Nitrobenzene-d5					92	78	28 - 105			
2-Fluorobiphenyl					90	77	33 - 100			
2,4,6-Tribromophenol					106	99	25 - 124			
Terphenyl-d14					100	95	34 - 116			



4



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.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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

Reviewed/Date	Received	Relinquished	Relinquished	Received an DALCLO	Relinquished	Signature	Project Number: Project Number: Project Manager: Project Manage	Analytical Laboratory Testing Service 14648 NE 95th Street • Redmor Phone: (425) 883-3881 • www.c	Environmental Inc.
Reviewed/Date			M HLPHA MIL	161/2 HHORA	HUT BERINS OXONA /	Company Date	Image: Second	(Check One)	Chain of Custody
Chromatograms with final report 🗌 Electronic Data Deliverables (EDDs) 🗙	Data Package: Standard K Level III D Level IV D	TLOYDSNIDER, COM	4	16 SO FRAIL TO	ATNO ULTER X DETTO ONLY	Time Comments/Special Instructions	Image: Second	ory Number: 07 - 1 4 6	y Page 1 of 1

Sample/Cooler Receipt and Acceptance Checklist

Client: FLS					
Client Project Name/Number: COEV DEVEL		Initiated by:	NB		
OnSite Project Number: 07 - 146			ed: 7/19	123	
1.0 Cooler Verification					
1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1234	
1.2 Were the custody seals intact?	Yes	No	NA	1234	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(N/A)	1234	
1.4 Were the samples delivered on ice or blue ice?	(Tes)	No	N/A	1234	
1.5 Were samples received between 0-6 degrees Celsius?	Yes	No	N/A	Temperature:	2.4
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	NIR			
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup	Other
2.0 Chain of Custody Verification					
2.1 Was a Chain of Custody submitted with the samples?	Yes	No		1 2 3 4	
2.2 Was the COC legible and written in permanent ink?	Yes	No		1 2 3 4	
2.3 Have samples been relinquished and accepted by each custodian?	TES	No		1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	res	No		1 2 3 4	
2.5 Were all of the samples listed on the COC submitted?	Yes	No		1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	Yes	No		1 2 3 4	
3.0 Sample Verification					
3.1 Were any sample containers broken or compromised?	Yes	(NO)		1 2 3 4	
3.2 Were any sample labels missing or illegible?	Yes	No		1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	(Yes)	No		1 2 3 4	
3.4 Have the samples been correctly preserved?	Yes	No	MA	1234	
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	NA	1234	
3.6 Is there sufficient sample submitted to perform requested analyses?	Tes	NG		1234	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1234	
3.8 Was method 5035A used?	Yes	No	NER	1234	
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		Ŵ	1 2 3 4	
Explain any discrepancies:					

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

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CITY OF EVERETT ENVIRONMENTAL LABORATORY

00064202

PROJECT #

Client:	FLOYD SNIDER			Date Re	eceived:	07/19/23			
Program:	Contract			Data Re	elease:	SF			
Contact:	SABINE DATUM			Date Re	eported:	08/28/23			
						BP93710	BP93711		
Department	Analysis	Units	DL	Method	PQL	MW-11R-071823	MW-D11R-071823		
-	-					7/18/2023	7/18/2023		
ETALS(D)	Dis. Arsenic	µg/L	0.6	200.8	2.4	<0.6	<0.6		
	Dis. Iron	μg/L	20	200.8	80	3690	3710		
	Dis. Manganese	µg/L	0.6	200.8	2.4	660	665		
	Dis. Nickel	µg/L	0.6	200.8	2.4	<0.6	<0.6		
	Dis. Zinc	µg/L	6	200.8	24	<6	<6		
JTRIENTS	Dis. Chloride	mg/L	0.3	SM4500-CL-E	1.2	16.7	17.1		
						BP93712	BP93713		
epartment	Analysis	Units	DL	Method	PQL	MW-38-071823	MW-37-071823		
Department	Analysis					7/18/2023	7/18/2023		
ETALS(D)	Dis. Arsenic	µg/L	0.6	200.8	2.4	<0.6	<0.6		
	Dis. Iron	µg/L	20	200.8	80	2640	12600		
	Dis. Manganese	µg/L	0.6	200.8	2.4	265	1850		
	Dis. Nickel	µg/L	0.6	200.8	2.4	<0.6	<0.6		
	Dis. Zinc	µg/L	6	200.8	24	<6	<6		
JTRIENTS	Dis. Chloride	mg/L	0.3	SM4500-CL-E	1.2	16.4			
			30	SM4500-CL-E	120		1890		
						BP93714	BP93715		
						MW-39R-071823	MW-30-071923		
Department	Analysis	Units	DL	Method	PQL	7/18/2023	7/19/2023		
ETALS(D)	Dis. Arsenic	μg/L	0.6	200.8	2.4	<0.6	6.0		
	Dis. Iron	µg/L	20	200.8	80	4990	11400		
	Dis. Manganese	µg/L	0.6	200.8	2.4	242	490		
	Dis. Nickel	µg/L	0.6	200.8	2.4	<0.6	<0.6		
	Dis. Zinc	µg/L	6	200.8	24	<6	<6		
ITRIENTS	Dis. Chloride	mg/L	0.3	SM4500-CL-E	1.2	7.8	16.9		
						BP93716	BP93717		
						MW-31-071923	MW-29R-071823		
epartment	Analysis	Units	DL	Method	PQL	7/19/2023	7/18/2023		
TALS(D)	Dis. Arsenic	µg/L	0.6	200.8	2.4	1.1 J	<0.6		
	Dis. Iron	µg/L	20	200.8	80	47700	5740		
	Dis. Manganese	µg/L	0.6	200.8	2.4	1230	392		
	Dis. Nickel	μg/L	0.6	200.8	2.4	2.8	<0.6		
	Dis. Zinc	µg/L	6	200.8	24	<6	<6		
	Dis. Chloride	mg/L	0.3	SM4500-CL-E	1.2	ער	11.6		
JTRIENTS		5	3.0	SM4500-CL-E	12.0	455	0.11		
			3.0	31014300-CL-E	12.0	155			

- PQL = Practical Quantitation Limit (= 4xDL)
- J = Analyte concentration less than PQL

SA = See Attached

ND = No Data

TNTC = Too numerous to count

DATA REPORTING QUALIFIERS

M = Matrix effect / interference

P/A (used for Total Coliform results) P= Coliforms present, A = Coliforms absent

Y/N (used for E. Coli Results) Y= E. Coli present, N=E. Coli absent

E = Estimated Value. Count from plates not within ideal range.

R = Sample was re-analyzed after holding time.

H = Analyzed past hold time

* Flagged value QC not within established control limits



CITY OF EVERETT ENVIRONMENTAL LABORATORY Phone: (425)257-8230 Fax: (425)257-8228 Sample Dropoff: 4027 4th St SE, Everett WA 98201

Mailing Address: 3200 Cedar St, Everett WA 98201

PROJECT # 00064202

QC Report

Client: Floyd Snider								
Batch: N-CL-DIS-50642	Result	MDL	Units	% Rec	%Rec	RPD %	RPD %	Commonts
Dis. Chloride	Result	IVIDL	Units	% Rec	Limits	RPD %	Limit	Comments
METHOD BLANK	<0.3	0.3	mg/L					U
LABORATORY FORTIFIED BLANK	10.1	0.3	mg/L	101	90-110			
CALIBRATION CHECK	5.1	0.3	mg/L	102.0	90-110			
MATRIX SPIKE - BP85302	21.5	0.3	mg/L	102.6	90-110			
MATRIX SPIKE DUP - BP85302	21.3	0.3	mg/L			0.9	20	
LABORATORY CONTROL STANDARD	5.9	0.3	mg/L	107.8	90-110			
Batch: ICPMS-D-I-55706	Result	MDL	Units	% Rec	%Rec	RPD %	RPD %	Comments
Method Blank					Limits		Limit	
Dis. Arsenic	<0.3	0.3	μg/L					U
Dis. Iron	<10	10	μg/L					U
Dis. Manganese	<0.3	0.3	μg/L					U
Dis. Nickel	<0.3	0.3	μg/L					U
Dis. Zinc	<3	3	μg/L					U
Laboratory Fortified Blank								
Dis. Arsenic	49.2	0.3	μg/L	98.4	85-115			
Dis. Iron	5020	10	μg/L	100.4	85-115			
Dis. Manganese	48.6	0.3	μg/L	97.2	85-115			
Dis. Nickel	48.5	0.3	μg/L	97	85-115			
Dis. Zinc	49	5	μg/L	97.8	85-115			
Calibration Check								
Dis. Arsenic	49	0.3	μg/L	98	90-110			
Dis. Iron	5030	10	μg/L	100.6	90-110			
Dis. Manganese	51.2	0.3	μg/L	102.4	90-110			
Dis. Nickel	50.4	0.3	μg/L	100.8	90-110			
Dis. Zinc	51	5	μg/L	101.3	90-110			
Matrix Spike - BP93710								
Dis. Arsenic	98.7	0.6	μg/L	98.6	70-130			
Dis. Iron	13700	20	μg/L	99.9	70-130			
Dis. Manganese	759	0.6	μg/L	98.9	70-130			
Dis. Nickel	94.8	0.6	μg/L	94.6	70-130			
Dis. Zinc	93	6	μg/L	93	70-130			
Matrix Spike Dup - BP93710								
Dis. Arsenic	98.6	0.6	μg/L			0.2	20	
Dis. Iron	13700	20	μg/L			0.2	20	
Dis. Manganese	758	0.6	μg/L			0.2	20	
Dis. Nickel	94.8	0.6	μg/L			0.0	20	
Dis. Zinc	95	6	μg/L			1.7	20	
Laboratory Control Standard	-							
Dis. Arsenic	586	0.3	μg/L	102.5	80-120			
Dis. Iron	405	10	μg/L	100.3	80-120			
Dis. Manganese	381	0.3	μg/L	99.6	80-120			
	1170	0.3	μg/L	98	80-120			
Dis. Nickel	11/0	0.5						



September 28, 2023

Sabine Datum Floyd & Snider 601 Union Street, Suite 600 Seattle, WA 98101

Re: Analytical Data for Project COEV DEVEL Laboratory Reference No. 2309-276

Dear Sabine:

Enclosed are the analytical results and associated quality control data for samples submitted on September 26, 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



Date of Report: September 28, 2023 Samples Submitted: September 26, 2023 Laboratory Reference: 2309-276 Project: COEV DEVEL

Case Narrative

Samples were collected on September 26, 2023 and received by the laboratory on September 26, 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. However the soil results for the QA/QC samples are reported on a wet-weight basis.

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.



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

Matrix: Water Units: ug/L

-				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-21R-092623					
Laboratory ID:	09-276-01					
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270E	9-26-23	9-27-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	52	10 - 79				
Phenol-d6	38	10 - 82				
Nitrobenzene-d5	83	28 - 105				
2-Fluorobiphenyl	90	33 - 100				
2,4,6-Tribromophenol	97	25 - 124				
Terphenyl-d14	92	34 - 116				

Client ID:	MW-36-092623					
Laboratory ID:	09-276-02					
bis(2-Ethylhexyl)phthalate	ND	0.97	EPA 8270E	9-26-23	9-27-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	53	10 - 79				
Phenol-d6	37	10 - 82				
Nitrobenzene-d5	82	28 - 105				
2-Fluorobiphenyl	87	33 - 100				
2,4,6-Tribromophenol	100	25 - 124				
Terphenyl-d14	87	34 - 116				



3

SEMIVOLATILE ORGANICS EPA 8270E/SIM QUALITY CONTROL

Matrix: Water Units: ug/L

·				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270E	9-26-23	9-26-23	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	54	10 - 79				
Phenol-d6	39	10 - 82				
Nitrobenzene-d5	81	28 - 105				
2-Fluorobiphenyl	79	33 - 100				
2,4,6-Tribromophenol	91	25 - 124				
Terphenyl-d14	83	34 - 116				

					Per	rcent	ent Recovery F		RPD		
Analyte	Re	sult	Spike Level		Rec	overy	Limits	RPD	Limit		
SPIKE BLANKS											
Laboratory ID:	SB09	26W1									
	SB	SBD	SB	SBD	SB	SBD					
bis(2-Ethylhexyl)phthalate	21.4	20.0	20.0	20.0	107	100	40 - 120	7	30		
Surrogate:											
2-Fluorophenol					49	57	10 - 79				
Phenol-d6					37	39	10 - 82				
Nitrobenzene-d5					74	84	28 - 105				
2-Fluorobiphenyl					86	84	33 - 100				
2,4,6-Tribromophenol					102	93	25 - 124				
Terphenyl-d14					93	86	34 - 116				



4



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.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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.

Reviewed/Date	Received	Relinquished	Received	Relinquished	Received Nichturg Un	Relinquished Madely	Signature					2 MW-36-092623	1 MW-ZIR-092623	Lab ID Sample Identification	Sampled by: JC & M S	Project Managers SNUME DATUM	Project Name: COEV DEVEL		Company: Flowd Swiden	Phone: (425) 883-3881 • www.onsite-env.com	Analytical Laboratory Testing Services	OnSite Environmental Inc
Reviewed/Date					350	S/1	Company			0		2 1 51:01 ×	1/10/25 8:50 Hz 6 Z	Date Time Sampled Sampled Matrix	(other)	ontaine	Standard (7 Days)	2 Days 3 Days	Same Day 1 Day	(Check One)	Turnaround Request	Chain of (
				-	9/26/23 12.10	9/24/23 2.10	Date Time							NWTP NWTP NWTP Volatil Halogo	'H-Gx 'H-Dx (es 8260 enated	BTEX (80 SG Clea) Volatiles	021 8 an-up () s 8260 ers Only)				Laboratory Number:	Custody
Chromatograms with final report \square Electronic Data Deliverables (EDDs) 💢	Data Package: Standard 🕅 Level III 🗆 Level IV 🗆						Comments/Special Instructions							(with liperators) (with lipera	ow-leve 8270/S 8082 ochlorin ophosp nated A RCRA N MTCA N Metals oil and	horus F cid Her 1etals	cides 80 Pesticides	s 8270	tΡ		09-276	Page of

Sample/Cooler Receipt and Acceptance Checklist

Client: FLS					
Client Project Name/Number: <u>COEV</u> DEVEL		Initiated by	NB		
OnSite Project Number: 09-276		Date Initiate	ed:	1/24/23	
1.0 Cooler Verification					
1.1 Were there custody seals on the outside of the cooler?	Yes	No	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	(N/A	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	NA	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	Yes	(No)	N/A	Temperature:	9.5
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)			EF.
1.7 How were the samples delivered?	Client	Courier	UPS/FedEx	OSE Pickup	Other
2.0 Chain of Custody Verification					
2.1 Was a Chain of Custody submitted with the samples?	(Yes)	No		1 2 3 4	
2.2 Was the COC legible and written in permanent ink?	Yes	No		1234	
2.3 Have samples been relinquished and accepted by each custodian?	Yes	No		1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	No		1234	
2.5 Were all of the samples listed on the COC submitted?	Yes	No		1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	Yes	(No)		1234	
3.0 Sample Verification					
3.1 Were any sample containers broken or compromised?	Yes	(NO		1234	
3.2 Were any sample labels missing or illegible?	Yes	No		1234	
3.3 Have the correct containers been used for each analysis requested?	Yes	No		1 2 3 4	
3.4 Have the samples been correctly preserved?	Yes	No	(NA)	1 2 3 4	
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	N/A	1 2 3 4	
3.6 Is there sufficient sample submitted to perform requested analyses?	Yes	No		1 2 3 4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	No		1 2 3 4	
3.8 Was method 5035A used?	Yes	No	(N/A)	1 2 3 4	
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1 2 3 4	

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

//SERVER\OSE\Administration\forms\cooler_checklist.xls

CITY OF EVERETT ENVIRONMENTAL LABORATORY

00064709

PROJECT #

\bigcap	Client:	FLOYD SNIDER	Date Received:	09/26/23
	Program:	Contract	Data Release:	SF
	Contact:	SABINE DATUM	Date Reported:	11/06/23

						BQ21552	BQ21553
	A I . I.		-		DOI	MW-21R-092623	MW-36-092623
Department	Analysis	Units	DL	Method	PQL	09/26/23	09/26/23
METALS(D)	Dis. Arsenic	µg/L	0.6	200.8	2.4	6.1	5.1
	Dis. Iron	µg/L	20	200.8	80	11900	10300
	Dis. Manganese	μg/L	0.6	200.8	2.4	1550	546
	Dis. Nickel	μg/L	0.6	200.8	2.4	<0.6	2.7
	Dis. Zinc	μg/L	6	200.8	24	<6	<6
NUTRIENTS	Dis. Chloride	mg/L	0.3	SM4500-CL-E	1.2	11.4	
			0.6	SM4500-CL-E	2.4		31.4

DL = Detection Limit

PQL = Practical Quantitation Limit (= 4xDL)

J = Analyte concentration less than PQL

SA = See Attached

ND = No Data

TNTC = Too numerous to count

DATA REPORTING QUALIFIERS

M = Matrix effect / interference

- P/A (used for Total Coliform results) P= Coliforms present, A = Coliforms absent
- Y/N (used for E. Coli Results) Y= E. Coli present, N=E. Coli absent

E = Estimated Value. Count from plates not within ideal range.

R = Sample was re-analyzed after holding time.

H = Analyzed past hold time

* Flagged value QC not within established control limits

EVERETT WASHINGTON

Everett Environmental Lab

QA/QC Report

Project Number

11/08/23

0	00)6	47	70	9
---	----	----	----	----	---

Batch # 56520 QA ID BQ21552	Orig	LFM	LFM AMT	LFM % REC	LFD	LFD RPD	МВ	LFB	LFB TV	LFB % REC	CAL CHK	CAL CK TV	CAL CK %	QCS	QCS TV	QCS % Rec
Dis. Arsenic	6.1	110	100	103.9	109	0.4	<0.3	50.7	50.0	101.3	49.8	50.0	99.6	591	572	103.3
Dis. Iron	11900	22100	10000	102.2	22300	0.7	<10	5100	5000	102.0	5040	5000	100.8	411	404	101.8
Dis. Manganese	1550	5700	4010	103.4	5600	1.8	<0.3	2080	2010	103.8	51.6	50.0	103.2	393	383	102.6
Dis. Nickel	<0.6	101	100	100.9	100	1.3	<0.3	50.9	50.0	101.7	50.8	50.0	101.6	1190	1190	100.2
Dis. Zinc	<6	101	100	100.7	99	1.7	<3	51	50	101.1	51	50	101.9	1860	1800	103.3
Batch # 56134 QA ID BQ21552	Orig	LFM	LFM AMT	LFM % REC	LFD	LFD RPD	MB	LFB	LFB TV	LFB % REC	CAL CHK	CAL CK TV	CAL CK %	QCS	QCS TV	QCS % Rec
Dis. Chloride	11.4	22.4	10.0	109.8	21.8	2.8	<0.3	10.0	10.0	100.0	5.0	5.0	100.0	7.2	7.2	99.9

 Orig = Original
 LFM = Laboratory Fortified Matrix

 DUP = Duplicate
 LFD = Laboratory Fortifided Matrix Duplicate



CITY OF EVERETT ENVIRONMENTAL LABORATORY Phone: (425)257-8230 Fax: (425)257-8228 Sample Dropoff: 4027 4th St SE, Everett WA 98201 Mailing Address: 3200 Cedar St, Everett WA 98201

PROJECT # 00064709

QC Report

							00064709
Result	MDI	Units	% Rec	%Rec	RDD %	RPD %	Comments
Nesult	IVIDE	Onits	70 NEC	Limits	NFD 70	Limit	comments
0.3	0.3	mg/L					U
10.0	0.3	mg/L	100	90-110			
5.0	0.3	mg/L	100	90-110			
22.4	0.3	mg/L	109.8	90-110			
21.8	0.3	mg/L			2.8	20	
7.2	0.3	mg/L	99.9	90-110			
Decult	MD	Unite	% Doc	%Rec	0/ 000	RPD %	Comments
Result	IVIDL	Units	% Rec	Limits	RPD %	Limit	Comments
<0.3	0.3	μg/L					U
<10	10	μg/L					U
<0.3	0.3	μg/L					U
<0.3	0.3	μg/L					U
<5	5	μg/L					U
50.7	0.3	μg/L	101.3	85-115			
5100	10	μg/L	102	85-115			
2080	0.3	μg/L	103.8	85-115			
50.9	0.3		101.7	85-115			
51	5	μg/L	101.1	85-115			
49.8	0.3	μg/L	99.6	90-110			
5040	10			90-110			
51	5	μg/L	101.9	90-110			
					1		
-							
101	10	μg/L	100.7	70-130			
100	0.6				0.4	20	
-					-		
30		F-0/ -	1	1			1
501	03	11g/I	103.3	80-120			
393	0.3	μg/L	101.8	80-120			
1190	0.3	μg/L	102.0	80-120			
	10.0 5.0 22.4 21.8 7.2 Result <0.3	0.3 0.3 10.0 0.3 5.0 0.3 22.4 0.3 21.8 0.3 7.2 0.3 7.2 0.3 0.3 0.3 7.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 50.7 0.3 50.9 0.3 51 51 51 51 51 51 51 51 51 51 <	0.3 0.3 mg/L 10.0 0.3 mg/L 5.0 0.3 mg/L 22.4 0.3 mg/L 21.8 0.3 mg/L 7.2 0.3 mg/L 7.2 0.3 mg/L 7.2 0.3 mg/L <0.3	0.3 0.3 mg/L 10.0 0.3 mg/L 100 5.0 0.3 mg/L 100 22.4 0.3 mg/L 109.8 21.8 0.3 mg/L 109.8 21.8 0.3 mg/L 99.9 7.2 0.3 mg/L 99.9 Result MDL Units % Rec <0.3	Result MDL Units % Rec Limits 0.3 0.3 mg/L 100 90-110 10.0 0.3 mg/L 100 90-110 5.0 0.3 mg/L 100.90-110 22.4 0.3 mg/L 109.8 90-110 21.8 0.3 mg/L 99.9 90-110 21.8 0.3 mg/L 99.9 90-110 21.8 0.3 mg/L 99.9 90-110 7.2 0.3 mg/L 99.9 90-110 7.2 0.3 mg/L 90.10 101.3 <	Result MDL Units % Rec Limits RPD % 0.3 0.3 mg/L 100 90-110 100 90-110 2.0 0.3 mg/L 100 90-110 22.4 0.3 mg/L 109.8 90-110 21.8 0.3 mg/L 109.8 90-110 2.8 7.2 0.3 mg/L 99.9 90-110 100 Result MDL Units % Rec Limits RPD % <0.3	Result MDL Units % Rec Limits RPD % Limit 10.0 0.3 mg/L 100 90-110



CITY OF EVERETT ENVIRONMENTAL LABORATORY 3200 CEDAR STREET; EVERETT WA 98201 Phone: (425)257-8230 Fax: (425)257-8228

		Date: 7/26/23							PROJECT #					
ANALYSIS REQUEST CHAIN OF CUSTODY					Date	1/1	161	173			6	470	9	
			E 10	11					0.0	12 1		≤ 1	H.C	
Client: Elugd S Program: COEV D	Mder 10	ty of		FEAT	rayic	Woin	Addre	ess:	00	phi		a	CIA	100
Phone: 706-850	1-5703	Collecter	By: T	iti	NC NC	E	L	Requeste	d By:	e	WA		DIU	/
				C_{I}	10	Analyses								
Requested sample repo Purpose:	ert date (15 less	than 30 a	ays):			Tr.	hn		Ana	lyses R	equest	a	1	
In Lal		·	Outside			25	vec							
Contr Sample	LIMS ID #	Sample	Contract le Sample Comp Sample				10%							
Description:	(Lab Use Only)	Date	Time	Grab	Matrix		00							
MW-ZIR-09262 MW-36-092623	3 3021552	9/26/23	6:50	I	HzO	X	X							
MIN-36-097673	53	V	10:15	V	J	\times	\times							
										1				
	}													
	1									-				
	/									+				
3										+				
										+				
5														
Cooler? (Y) / 1	N	Cooler 7	Cemp: 0.	6	°C	-INDIC/	ATE: LA	B PERFORM	ING ANAL	YSIS / # C	DF CONT	AINERS-		
CHAIN OF CUSTO	ODY		()				1	1 /)					
*Relinquished:	the la	mst	t		Receive	ed:	Al	-6/	1		Date 9 /2	1.121	Time: 113	ч
*Relinquished:	1002010	0			Receive		/ /	\neg			Date:	4/21	Time:	
*Relinquished:								V			Date:		Time:	
*Relinquished:						Received:								
											Date:		Time:	
COMMENTS: A, A, A, A, A, A, A, A, A, A, A, A, A, A	Fe, Mn	. M:	7.1 1	FD	AT	BO.8	5	C	. 0	1.				
TA SM-IL	50-111	Livij			1 0	Solution		Jour a	. 8.					
Dir. 10	ard	a i	Luis	0 0	1. 1	C .	([0				
EVMALO	SNOW	2. Oh	ANN	Cot	1090	SU	lde	J, C	10U	1				

*Because the City of Everett Environmental Laboratory is a public agency, data, test results, reports and other documents are public records and therefore subject to disclosure to third parties upon their request pursuant to RCW Chap. 42.17.

Attachment 3 Data Validation Summary

Data Validation Summary

Prepared by:	Gretchen Heavner
Date:	December 28, 2023
Project No.:	COEv-DEVEL-2014
Sample Event(s):	February 2023 Groundwater Sampling
Sample Delivery Group(s):	COEv 63124, OnSite 2302-279
Sample Media:	Groundwater

A Compliance Screening (Stage 2A) data quality review was performed on select semivolatile organic compounds, select dissolved metals, and dissolved chloride data resulting from laboratory analysis. The data were reviewed using guidance and quality control (QC) criteria documented in the *Everett Landfill/Tire Fire Site Ground Water Sampling and Analysis Plan* (HWA 2015), *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods* (USEPA 1986), *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA 2020a), and the *National Functional Guidelines for Inorganic Superfund Methods Data Review* (USEPA 2020b).

A total of nine groundwater samples and one field duplicate sample were submitted to two separate laboratories for analysis. Samples were submitted to the City of Everett Environmental Laboratory in Everett, Washington, under sample delivery group (SDG) 63124 for chemical analysis by USEPA Method 200.8 and Standard Method 4500-CL-E. The samples were also submitted to OnSite Environmental, Inc., in Redmond, Washington, under SDG 2302-279 for chemical analysis by USEPA Method 8270E.

DATA QUALITY REVIEW

Field and laboratory QC parameters for all samples met project criteria.

All Analytes

All "J" flagged laboratory results between the method detection limit (MDL) and reporting limit (RL) were qualified as "J" per project standardization rules.

DATA QUALITY SUMMARY

Based on the data quality review, data are determined to be of acceptable quality for use as reported or qualified.

REFERENCES

- HWA GeoSciences Inc (HWA). 2015. Everett Landfill/Tire Fire Site Ground Water Sampling and Analysis Plan. 22 May.
- U.S. Environmental Protection Agency (USEPA). 1986. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods.* U.S. Prepared by the Office of Solid Waste and Emergency Response. EPA-530/SW-846.
- _____. 2020a. National Functional Guidelines for Organic Superfund Methods Data Review. Prepared by the Office of Superfund Remediation and Technology Innovation. EPA-540-R-20-005/OLEM 9240.0-51. November.
- _____. 2020b. National Functional Guidelines for Inorganic Superfund Methods Data Review. Prepared by the Office of Superfund Remediation and Technology Innovation. EPA-542-R-20-006/OLEM 9240.1-66. November.

Data Validation Summary

Prepared by:	Chell Black
Date:	December 28, 2023
Project No.:	COEv-DEVEL-2014
Sample Event(s):	July 2023 Groundwater Sampling
Sample Delivery Group(s):	2307-145, 2307-146, 2309-276, 64202, and 64709
Sample Media:	Groundwater

A Compliance Screening (USEPA Stage 2A) data quality review was performed on dissolved metals, chloride, and bis(2-ehtylhexyl) phthalate data resulting from laboratory analysis. The data were reviewed using guidance and quality control (QC) criteria documented in the *Everett Landfill/Tire Fire Site 2015 Ground Water Sampling and Analysis Plan* (HWA 2015), *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods* (USEPA 1986), *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA 2020a), and the *National Functional Guidelines for Inorganic Superfund Methods Data Review* (USEPA 2020b).

A total of nine groundwater samples, one field duplicate sample, and one trip blank sample were submitted to OnSite Environmental, Inc. (OnSite) in Redmond, Washington, for chemical analysis by USEPA 8270E, and City of Everett Environmental Laboratory (CoEEL) in Everett, Washington, for chemical analysis by USEPA Method 200.8 and SM 4500-CL-E. OnSite reported results under three sample delivery groups (SDGs): 2307-145, 2307-146, and 2309-276. CoEEL reported results under two SDGs: 64202 and 64709.

DATA QUALITY REVIEW

Field and laboratory QC parameters for all samples met project criteria.

DATA QUALITY SUMMARY

All data are determined to be of acceptable quality for use as reported.

REFERENCES

- HWA GeoSciences Inc. (HWA). 2015. Everett Landfill/Tire Fire Site 2015 Ground Water Sampling and Analysis Plan. 22 May.
- U.S. Environmental Protection Agency (USEPA). 1986. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods.* U.S. Prepared by the Office of Solid Waste and Emergency Response. EPA-530/SW-846.
- _____. 2020a. National Functional Guidelines for Organic Superfund Methods Data Review. Prepared by the Office of Superfund Remediation and Technology Innovation. EPA-540-R-20-005/OLEM 9240.0-51. November.
- _____. 2020b. National Functional Guidelines for Inorganic Superfund Methods Data Review. Prepared by the Office of Superfund Remediation and Technology Innovation. EPA-542-R-20-006/OLEM 9240.1-66. November.

Attachment 4 Historical Groundwater Monitoring Analytical Results and Groundwater Elevations

	1			Dis	solved Metals			Conventional	SVOC
Chemical Name		Arsenic	Iron	Manganese	Nickel	Zinc	Chloride	bis (2-Ethylhexyl) phthalate	
Sample	Sample	Unit C.L.	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(ug/L)
Location	Туре	Date	25	23687	4040	10	76.6	230	10
MW-11R MW-11R	NET	7/9/2001 10/3/2001	6 U 6 U	9223 7945	1430 1553	5 U 2 U	8 U 8 U	11.8 18.0	1 U 1 U
MW-11R		1/18/2002	6 U	9439	1910	2 U	10.45	11.6	4 U
MW-11R MW-11R		4/10/2002 7/11/2002	6 U 4 U	8742 32	2025 440	4 U 4 U	8 U 8 U	13.8 13.3	4 U 4 U
MW-11R MW-11R		10/9/2002	40	32 12400	2210	4 U 4 U	8 U 8 U	13.5	4 U 4 U
MW-11R		1/13/2003	4 U	3970	97	4.6	8	40.3	1 U
MW-11R MW-11R		4/23/2003 10/9/2003	4 U 4 U	11000 12800	1810 1860	4 U 4 U	8 U 8 U	20.2 38.4	1 U 2.8 B
MW-11R		4/6/2004	2 U	10200	1260	2 U	8 U	8.8	1 U
MW-11R MW-11R		7/15/2005 2/1/2006	2 U 4 U	12500 11800	1260 1240	2 U 2 U	8 U 8 U	8.0 14.0	10 U 10 U
MW-11R		7/10/2006	4 U	13500	1700	2 U	8 U	13.0	2 U
MW-11R MW-11RD		1/10/2007 1/10/2007	4 U 4 U	12400 12700	1560 1600	4 U 4 U	8 U 8 U	18.3 18.3	2 U 2 U
MW-11R		7/17/2007	4 U	11800	1600	4 U	8 U	15.6	2 U
MW-11R MW-11R		1/24/2008 6/18/2008	2 U 1.4 U	11500 12300	1490 1410	4 U 0.5 U	8 U 5 U	12.6 11.5	10 U 2 U
MW-11RD		6/18/2008	1.4 U	12400	1410	0.5 U	5 U	11.4	2 U
MW-11R MW-11R		1/21/2009 7/10/2009	1.7 U 1.2	12200 14100	1430 1410	0.5 U 1 U	5 U 10 U	10.7 14.5	2 U 2 U
MW-11R MW-11R		1/29/2010	1.2	10800	1300	1 U	10 U	14.5	2 U 2 U
MW-11R		7/28/2010	0.6 U	9860	992	0.5 U	5 U	7.4	2 U
MW-11R MW-11R		1/20/2011 7/19/2011	1.4 J 1 U	11300 7960	1250 716	1 U 1 U	10 U 10 U	10.8 8.8	2 U 2 U
MW-11RD		7/19/2011	1 U	7980	720	1 U	10 U	8.8	2 U
MW-11R MW-11R	I I	1/23/2012 7/11/2012	2.3 NS	NS 7600	NS 535	NS 0.5 U	NS 5 U	NS 4.1	NS 2 U
MW-11R	I	1/22/2013	1.5 J	3320	294	1 U	10 U	3.5	2 U
MW-11R MW-11R	1	7/18/2013 1/31/2014	0.6 J 0.8 J	5800 6260	444 446	0.5 U 0.5 U	5 U 5 U	3.9 8.3	2.6 2 U
MW-11R MW-11R		7/25/2014	0.8 J 0.6 J	5920	446	0.5 U 0.5 U	5 U 5 U	8.3 4.9	2 U 2 U
MW-11R	I	2/9/2015	1 U	5630	433	1 U	10 U	3.1	2 U
MW-11R MW-11R	1	7/29/2015 1/19/2016	1 U 1 U	5600 159000	509 20700	1 U 2.3 J	10 U 10 U	3.4 2320	2 U 2 U
MW-11R		7/18/2016	1 U	5880	640	1 U	10 U	18.2	2 U
MW-11R MW-11R		1/26/2017 7/19/2017	1 U 1 U	8250 180	1060 131	1 U 1 U	10 U 10 U	14.3 4.6	2 U 2 U
MW-11R		2/9/2018	1 U	4430	877	1 U	10 U	7.6	2 U
MW-11R MW-11R		7/31/2018 1/15/2019	1 U 1 U	780 3330	768 727	1 U 1 U	10.3 U 10 U	7.6 10.7	2 U 2 U
MW-11R		7/10/2019	1 U	320	559	1 U	10 U	8.5	2 U
MW-11R		2/3/2020	1 U 1 U	2500	631	1 U 1 U	10 U	7.1	2 U 2 U
MW-11R MW-21	NET	7/21/2020 7/3/2001	6 U	5200 15	428 234	5 U	10 U 8 U	7.7 18.1	1 U
MW-21		10/2/2001	6 U	25	147	7.8	8 U	19.7	1 U
MW-21 MW-21		1/18/2002 4/9/2002	6 U 6 U	49 37	199 222	9.06 8.82	8 U 8 U	20.0 18.2	4 U 4 U
MW-21		7/9/2002	4 U	17	166	7.6	8 U	21.1	4 U
MW-21 MW-21		10/9/2002 1/14/2003	4 U 4 U	15 22	241 205	8.2 8.3	8 U 8 U	16.3 19.7	4 U 1 U
MW-21		4/22/2003	4 U	25	159	8.4	8 U	20.2	1 U
MW-21 MW-21		10/9/2003 4/5/2004	4 U 2 U	17 36	245 293	9.1 9.9	8 U 8 U	16.0 17.9	1 U 1 U
MW-21 MW-21		7/14/2005	2 U 2 U	22	189	9.9 8.6	8 U	17.9	10 U
MW-21		1/31/2006	4 U	49	132	7.9	9	18.0	10 U
MW-21R MW-21R	NET	1/21/2009 7/9/2009	22.3 31	2470 7950	1210 1970	2.3 1 U	8 U 10 U	13.7 9.1	2 U 2 U
MW-21RD		7/9/2009	30.4	7910	1940	1 U	10 U	9.4	2 U
MW-21R MW-21R		1/28/2010 7/28/2010	16.9 23.7	7510 8580	1410 1660	1 U 0.5 U	10 U 5 U	12.6 9.1	2 U 2 U
MW-21R		1/20/2011	24.2	11400	1720	1 U	10 U	10.0	2 U
MW-21R MW-21R		7/19/2011	25	11700	1830	1 U	10 U 10 U	8.5 8.4	2 U 2 U
MW-21R MW-21R		1/23/2012 7/18/2012	24.6 6.8	11400 8820	2080 1600	1 U 0.6 J	10 U 5 U	8.4 11.1	2 U 2 U
MW-21R		1/22/2013	1.0 J	290	50	1 U 0 7 I	10 U	10.4	2 U
MW-21R MW-21R		7/18/2013 2/1/2014	0.7 J 20.6	98 10300	121 1860	0.7 J 0.5 U	5 U 5 U	12.2 7.4	2 U 2 U
MW-21R	1	7/25/2014	15.0	9220	1280	0.5 U	5 U	9.6	2 U
MW-21R MW-21RD	1	2/10/2015 2/10/2015	21 24.2	13700 14000	1720 1730	1 U 1 U	10 U 10 U	10.2 10.5	2 U 16
MW-21R	1	7/30/2015	1.8 J	42 J	3 J	1 U	10 U	10.9	2 U
MW-21R MW-21R	1	1/19/2016 7/18/2016	15.1 1.5 J	13500 100 J	1330 19.3	1 U 1 U	10 U 10 U	16.2 13.3	2 U 2 U
MW-21R	1	1/26/2017	14.8	13900	1760	1 U	10 U	16.3	2 U
MW-21R	1	7/19/2017	1.5 J	48 J	4.5	1 U	10 U	14.0	2 U
MW-21R MW-21RD	1	2/9/2018 2/9/2018	15.7 17.3	12100 13600	1670 1770	1 U 1 U	10 U 10 U	18.9 18.6	2.1 2.2
MW-21R	I	7/31/2018	1.4 J	50 J	13.1	1 U	10.3 U	17.0	2 U
MW-21R MW-21R	1	1/15/2019 7/10/2019	1.0 J 1 U	1950 67 J	1440 9	1 U 1 U	10 U 10 U	16.0 12.2	2 U 2 U
MW-21R	I	2/3/2020	9.6	10800	1780	1 U	10 U	9.6	2 U
MW-21R MW-28	NET	7/21/2020 7/6/2001	1 U 8	40 U 7972	319 247	1 U 5 U	10 U 8 U	4.5	2 U 1 U
MW-28	[``~`	10/5/2001	8	5414	161	2 U	8 U	4.8	1 U
MW-28 MW-28	1	1/23/2002 4/15/2002	8.52 8.18	9332 7644	273 239	2 U 4 U	8 U 8 U	4.8 4.7	4 U 4 U
MW-28 MW-28	1	4/15/2002 7/9/2002	8.18	8220	239	4 U 4 U	8 U 8 U	4.7 5.3	4 U 4 U
MW-28D	1	7/9/2002	12	8260	233	4 U	8 U	5.3	4 U
MW-28 MW-28	1	10/14/2002 1/16/2003	8 8	7490 9190	217 257	4 U 4 U	8 U 8 U	5.1 5.4	4 U 1 U
MW-28	1	4/24/2003	8	7350	239	4 U	8 U	5.0	1 U
MW-28 MW-28	I	10/14/2003 4/12/2004	8 7	8020 7450	225 248	4 U 2 U	8 U 8 U	5.2 4.9	5.6 1 U
MW-28 MW-28	1	7/19/2005	8	7450 8750	248 265	2 U 2 U	8 U 8 U	4.9	10 U
MW-28	I	2/3/2006	8	8950	244	2 U	8 U	5.0	10 U
MW-28 MW-28	1	7/11/2006 1/10/2007	8 8	6440 8960	200 250	2 U 4 U	10 8 U	5.2 5.3	2 U 2 U
MW-28	1	7/18/2007	7	6110	240	4 U	8 U	5.6	2 U
MW-28	I	1/29/2008 1/29/2008	9 7	7300 6420	230 220	4 U 4 U	8 U 8 U	5.2 5.1	10 U 10 U
MW-28D				0440		. + U	0 U	3.1	

				Dis	solved Metals			Conventional	SVOC
	Che	mical Name	Arsenic	Iron	Manganese	Nickel	Zinc	Chloride	bis (2-Ethylhexy phthalate
	Cite	Unit	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(ug/L)
Sample	Sample	C.L.	25	23687	4040	10	76.6	230	10
Location	Туре	Date	25	23087	4040	10	70.0	230	10
MW-29	NET	7/10/2001	6 U	3930	378	5 U	8 U	9.8	1 U
MW-29		10/3/2001	6 U	288	186	2 U	8 U	10.1	1 U
MW-29		1/24/2002	6 U	4472	376	2 U	8 U	10.1	4 U
MW-29		4/12/2002	6 U	4593	372	4 U	8 U	9.7	4 U
MW-29		7/10/2002	4 U	5240	361	4 U	8 U	10.4	4 U
MW-29		10/11/2002	4 U	4580	367	4 U	8 U	10.7	4 U
MW-29		1/17/2003	4 U	4480	346	4 U	8 U	11.3	1.1
MW-29		4/30/2003	4 U	4800	356	4 U	8 U	10.4	2
MW-29		10/13/2003	4 U	4670	373	4 U	8 U	10.4	1 U
MW-29		4/9/2004	2 U	5180	400	2 U	8 U	11.6	1 U
MW-29		7/18/2005	2 U	4310	394	2 U	8 U	10.0	10 U
MW-29		2/3/2006	5	4030	319	2 U	8 U	11.0	10 U
MW-29		7/11/2006	4 U	3320	360	2 U	8	10.4	2 U
MW-29		1/12/2007	4 U	4040	350	4 U	8 U	11.0	2 U
MW-29		7/18/2007	4 U	4270	380	4 U	8 U	11.4	2 U
MW-29		1/29/2008	2 U	4140	370	4 U	8 U	10.5	10 U
MW-29		6/18/2008	0.5 U	4650	352	0.5 U	5 U	10.7	2 U
MW-29		1/22/2009	0.5 U	7210	361	0.5 U	5 U	11.4	2 U
MW-29		7/10/2009	1 U	7010	380	1.3	10 U	10.7	2 U
MW-29		1/28/2010	1 U	4550	355	1 U	10 U	9.7	2 U
MW-29	1	7/30/2010	0.6 J	4270	326	0.5 U	5 U	9.1	2 U
MW-29	1	1/21/2011	1 U	5520	358	1 U	10 U	10.0	2 U
MW-29	1	7/18/2011	1 U	4420	341	1 U	10 U	9.3	2.4
MW-29	1	1/23/2012	NS	NS	NS	NS	NS	NS	N
MW-29	1	7/18/2012	NS	NS	NS	NS	NS	NS	N
MW-29		1/22/2013	NS	NS	NS	NS	NS	NS	N
MW-29R		7/29/2015	2.6 J	1800	473	3.6 J	10 U	108	7.7
MW-29R		1/19/2016	1 U	9360	604	1 U	10 U	11.7	2 U
MW-29R		7/14/2016	1 U	7500	493	1 U	10 U	28.4	2 U
MW-29R		1/26/2017	1 U	10200	675	1 U	10 U	13.4	2 U
MW-29R		7/20/2017	1 U	9630	643	1 U	10 U	13.7	2 U
MW-29R		2/9/2018	1 U	9210	604	1 U	10 U	14.1	2 U
MW-29R		8/1/2018	Î Û	6450	557	1 U	10.3 U	14.9	2 U
MW-29R		1/29/2019	1 U	160	500	1 U	10 U	15.8	2 U
MW-29R		7/10/2019	1 U	4110	527	1 U	10 U	13.3	2 U
MW-29R		2/3/2020	1 U	7790	424	1 U	10 U	11.4	2 U
MW-29RD		2/3/2020	1 U	7480	430	1 U	10 U	11.3	2 U
MW-29R		7/22/2020	1 U	2650	283	1 U	10 U	10.6	2 U
MW-30	NET	7/5/2001	8	4653	573.75	5 U	8 U	27.1	1 U
MW-30		10/3/2001	6 U	254	186	2 U	8 U	26.5	1 U
MW-30		1/25/2002	9.34	6578	548.08	2 U	8 U	23.7	4 U
MW-30		4/11/2002	11.14	6253	506.64	4 U	8 U	23.1	4 U
MW-30		7/10/2002	4 U	222	324	4 U	8 U	23.9	4 U
MW-30		10/10/2002	11	5810	484	4 U	8 U	19.4	4 U
MW-30		1/16/2003	11	6240	505	4 U	8 U	19.6	1 U
MW-30		4/29/2003	9	5850	500	4 U	8 U	19.7	1 U
MW-30		10/13/2003	10	5380	478	4 U	8 U	17.0	1 U
MW-30		4/8/2004	10	5160	478	2 U	8 U	18.4	1 U
MW-30		7/14/2005	9	5070	493	2 U 2 U	8 U	21.0	10 U
MW-30		2/3/2006	13	5290	460	2 U 2 U	8 U	20.0	10 U
MW-30		7/11/2006	4 U	4070	450	2 U 2 U	8 U	17.4	2 U
MW-30		1/12/2007	7	5780	430	4 U	8 U	16.8	2 U 2 U
MW-30 MW-30	1	7/18/2007	5	3690	490	4 U 4 U	8 U 8 U	16.8	2 U 2 U
MW-30 MW-30	1	1/29/2008	9	5240	400	4 U 4 U	8 U 8 U	14.6	2 U 10 U
MW-30 MW-30	1		9 0.7 U	5240 47 J	480	4 U 0.5 U		13.2	
	1	6/18/2008					5 U		2 U
MW-30	1	1/22/2009	5.6	4130	475	0.5 U	5 U	23.5	2 U
MW-30	1	7/10/2009	6.6 7.2	3630	346	1 U	10 U	12.9	2 U
4W-30	1	1/28/2010	7.2	4310	421	1 U 0 5 U	10 U	15.3	2 U 2 U
4W-30 4W-30	1	7/30/2010	7	5250	406	0.5 U	5 U	15.7	2 U
	1	1/21/2011	8.5	5420	428	1 U	10 U	11.9	2 U
AW-30	1	7/18/2011	8.2	4940	417	1 U	10 U	12.3	2 U
AW-30	1	1/24/2012	7.2	5000	445	1 U	10 U	12.8	2 U
4W-30	1	7/18/2012	1.7 J	2340	691	0.5 U	5 U	13.5	2 U
4W-30D	1	7/18/2012	1.8 J	2380	688	0.5 U	5 U	13.0	2 U
4W-30	1	1/22/2013	6.7	4730	424	1 U	10 U	13.8	2 U
4W-30D	1	1/22/2013	6.8	4710	423	1 U	10 U	12.9	2 U
4W-30	1	7/18/2013	4.3	3530	386	0.5 U	5 U	14.7	2.4
4W-30D	1	7/18/2013	4.8	3820	394	0.5 U	5 U	14.9	2 U
4W-30	1	1/31/2014	8.2	6300	428	0.5 U	5 U	11.1	2 U
4W-30	1	7/28/2014	1.2 J	790	116	0.5 U	5 U	11.0	2 U
4W-30	1		b	7110	447	1 U	10 U	10.7	2 U
4W-30	1	7/29/2015	1 U	320	25	1 U	10 U	9.8	2 U
AW-30	1	1/19/2016	4.3	6780	465	1 U	10 U	33.6	2 U
AW-30	1	7/14/2016	8	8320	559	1 U	10 U	142	2 U
4W-30	1	1/26/2017	8.6	7290	446	1 U	72	11.2	2 U
4W-30	1	7/20/2017	1 U	150 J	14.4	1 U	10 U	11.2	2 U
4W-30	1	2/9/2018	9	8830	509	1 U	10 U	11.1	2 U
4W-30	1	8/1/2018	7.6	8690	482	1 U	10.3 U	12.8	2 U
4W-30	1	1/15/2019	7.2	8490	495	1 U	10 U	13.1	2 U
4W-30	1	7/10/2019	1.8 J	1780	174	1 U	10 U	9.0	2 U
	1	2/3/2020	2.5 J	6420	428	1 U	10 U	11.3	2 U
4W-30			1 U						

	1			Dis	solved Metals	1		Conventional	SVOC
	Chen	nical Name	Arsenic	Iron	Manganese	Nickel	Zinc	Chloride	bis (2-Ethylhexyl) phthalate
Sample	Sample	Unit C.L.	(ug/L)	(ug/L)	(ug/L) 4040	(ug/L)	(ug/L)	(mg/L)	(ug/L) 10
Location	Туре	Date	25	23687		10	76.6	230	
MW-31 MW-31	NET	7/5/2001 10/3/2001	6 U 6 U	43672 29424	1261.8 866.99	5 U 3.9	8 U 8 U	149.8 150.0	1 U 1 U
MW-31		1/22/2002	6 U	39542	1206.2	5.83	8 U	137.5	6
MW-31 MW-31		4/10/2002 7/11/2002	6 U 4 U	38227 41700	1178 1190	4 U 4 U	8 U 8 U	136.9 132.0	4 U 4 U
MW-31		10/10/2002	4 U	42000	1190	4.4	8 U	150.0	4 U
MW-31D MW-31		10/10/2002 1/16/2003	4 U 4 U	41800 38400	1180 1150	4 U 4.5	8 U 8 U	151.0 13.5	4 U 1 U
MW-31		4/29/2003	4 U	38800	1130	4 U	8 U	131.0	320
MW-31 MW-31		10/13/2003	4 U 3	41300	1230	4.4 4.7	8 U 8 U	147.0	1 U 1.5 B
MW-31		4/8/2004 7/14/2005	2 U	35600 33400	1220 1150	3.9	8 U	120.0 127.0	1.5 B 10 U
MW-31		2/3/2006	4 U	31800	1150	2.9	8 U	130.0	10 U
MW-31 MW-31		7/12/2006 1/12/2007	4 U 4 U	36100 34300	1160 1170	3	8 U 16	132.0 134.0	2 U 2 U
MW-31		7/17/2007	4 U	37100	1180	7	8 U	149.0	2 U
MW-31 MW-31		1/29/2008 6/18/2008	2 U 1.8 U	32200 39500	1160 1160	4 U 3.2	8 U 5 U	138.0 132.0	10 U 2 U
MW-31		1/22/2009	1.5 U	32400	1080	3.2	5 U	149.7	2 U
MW-31		7/10/2009	1.3	40300	1170	3.2	10 U	148.0	2 U
MW-31 MW-31		1/28/2010 7/30/2010	1.3 1.4 J	31200 38600	1130 1150	3.2	10 U 5 U	147.0 143.0	2 U 2 U
MW-31D		7/30/2010	1.3 J	37600	1110	3.2	5 U	144.0	2 U
MW-31 MW-31D		1/21/2011 1/21/2011	1.4 J 1.4 J	36500 36300	1160 1160	3 J 3 J	10 U 10 U	157.0 161.0	2 U 2 U
MW-31		7/18/2011	1.5 J	36300 39600	1210	3.9 J	10 U	132.0	2 U
MW-31		1/24/2012	1.4 J	34500	1190	3.4 J	10 U	143.0	2 U
MW-31 MW-31		7/18/2012 1/22/2013	1.5 J 1.6 J	39700 42100	1150 1210	3.2 3.5 J	5 U 10 U	138.0 134.0	2 U 2.7
MW-31		7/19/2013	1.5 J	39900	1180	3.1	7 J	149.0	3
MW-31 MW-31		1/31/2014 7/28/2014	1.5 J 1.6 J	44300 48100	1220 1170	3.3 3.3	5 U 5 U	139.0 150.0	2 U 2 U
MW-31 MW-31		2/9/2014	2.5 J	48100 70400	1170	3.8 J	10 U	150.0	2 U
MW-31		7/29/2015	2 J	59600	1220	3.1 J	10 U	148.0	2 U
MW-31D MW-31		7/29/2015 1/19/2016	2 J 1.4 J	58800 40400	1220 1010	3.7 J 2.7 J	10 U 10 U	149.0 148.0	2 U 2 U
MW-31D		1/19/2016	1.5 J	40600	1010	2.6 J	10 U	148.0	2 U
MW-31 MW-31D		7/14/2016 7/14/2016	1.9 J 2 J	58300 58500	1250 1260	3.6 J 3.4 J	10 U 10 U	36.8 142.0	2 U 2 U
MW-31		1/26/2017	1.7 J	48300	1190	3.4 J	10 U	141.0	2 U
MW-31 MW-31D		7/20/2017	1.9 J 1.9 J	47500	1240 1250	3.5 J 3.5 J	10 U 10 U	140.0 130.0	2 U 2 U
MW-31D MW-31		7/20/2017 2/9/2018	1.9 J 2.3 J	48300 52700	1250	3.5 J 3.6 J	10 U 10 U	130.0	2.8
MW-31		8/1/2018	1.5 J	42400	1170	3.1 J	10.3 U	133.0	2 U
MW-31 MW-31		1/15/2019 7/10/2019	1.9 J 1.6 J	45900 42200	1140 1210	3.3 J 3.1 J	10 U 10 U	133.0 136.0	2 U 2 U
MW-31		2/3/2020	1.6 J	43600	1190	2.8 J	10 U	136.0	2 U
MW-31 MW-31D		7/22/2020 7/22/2020	1.7 J 1.6 J	46400 45200	1250 1240	3.1 J 3.1 J	10 U 10 U	144.0 143.0	2 U 2 U
MW-33	BG	7/5/2001	6 U	14 U	54	5 U	8 U	20.4	1 U
MW-33 MW-33		10/2/2001 1/17/2002	NS 6 U	NS 14 U	NS 27	NS 3.67	42.2 NS	NS 8.7	NS 4 U
MW-33		4/9/2002	6 U	14 U	20	4.36	32.12	8.3	4 U 4 U
MW-33		7/8/2002	4 U	14 U	16	4 U	462.6	5.3	4 U
MW-33 MW-33		10/8/2002 1/21/2003	4 U 4 U	14 U 14 U	3	4 U 4 U	23 26	7.9 7.8	4 U 1.1
MW-33		4/22/2003	4 U	14 U	1 U	4 U	48	7.2	1 U
MW-33 MW-33		10/7/2003 4/5/2004	4 U 2 U	14 U 14 U	1 U 1 U	4 U 3	19 15	8.5 8.3	1 U 1 U
MW-33		7/18/2005	2 U	14 U	1 U	3	19	12.0	10 U
MW-33 MW-33		1/31/2006 7/10/2006	4 U 4 U	14 U 14 U	1 U 1 U	2.7	18 11	8.0 6.6	10 U 2 U
MW-33		1/12/2007	4 U	14 U	b	6	33	7.2	2 U
MW-33 MW-33		7/20/2007 1/30/2008	4 U 2 U	14 U 14 U	1 1 U	4 U 4 U	70 68	6.2 5.3	2 U 10 U
MW-33		6/19/2008	0.6 U	30 U	2 U	3.2 U	29	5.5	2 U
MW-35 MW-35	BG	7/5/2001	6 U 6 U	14 U 14 U	109 19	5 U 2.3	8 U 48.85	46.3 47.1	1 U 1 U
MW-35 MW-35		10/2/2001 1/17/2002	6 U 6 U	14 U 14 U	6	2.3	48.85 8 U	47.1 43.1	1 U 4 U
MW-35		4/9/2002	6 U	47	2	4 U	8 U	42.5	4 U
MW-35 MW-35		7/8/2002 10/8/2002	4 U 4 U	14 U 14 U	1 U 1 U	4 U 4 U	8 U 8 U	42.5 43.8	4 U 4 U
MW-35		1/14/2003	4 U	14 U	1 U	4 U	8 U	48.6	1 U
MW-35 MW-35		4/22/2003 10/7/2003	4 U 4 U	14 U 25	1 U 1 U	4 U 4 U	8 U 8 U	44.2 45.0	1 U 1 U
MW-35		4/5/2004	2 U	14 U	1 U	2 U	8 U	45.0	1 U
MW-35 MW-35		7/18/2005 2/1/2006	2 U 4 U	14 U 14 U	1 U 1 U	2 U 2 U	8 U 8 U	44.0 42.0	10 U 10 U
MW-35 MW-36	POC	7/6/2001	4 U 14.7	12552	728	2 U 5 U	8 U 8 U	42.0 69.3	10 U 1 U
MW-36		10/8/2001	9	12067	543	2 U	8 U	59.1	1 U
MW-36 MW-36		1/22/2002 4/10/2002	8.46 6 U	15896 24681	648 663	2.85 4 U	8 U 8 U	41.6 96.5	4 U 4 U
MW-36		7/11/2002	10	15300	670	4 U	8 U	44.5	4 U
MW-36 MW-36		10/9/2002 1/15/2003	9 8	16500 17300	687 705	4 U 4 U	8 U 8 U	44.0 40.4	4 U 1 U
MW-36		4/23/2003	6	14700	693	4 U	8 U	41.0	1 U
MW-36 MW-36		10/9/2003 4/6/2004	7 9	16400 17100	728 778	4 U 2 U	8 U 8 U	36.8 52.5	2.9 B 1 U
MW-36 MW-36		4/6/2004 7/15/2005	8	17100 18000	852	2 U 2 U	8 U 8 U	52.5 38.9	1 U 10 U
		2/1/2006	4 U	255	26.1	2 U	43	2.2	10 U
MW-36		7/13/2006	14	18200	850	2 4 U	9 8 U	35.5 29.1	2 U 2 U
MW-36		1/12/2007	9	17600	850				
MW-36 MW-36 MW-36		1/12/2007 7/20/2007	9 9	17600 18300	850 870	4 U	8 U	34.4	2 U
MW-36 MW-36 MW-36 MW-36		7/20/2007 1/25/2008	9 6	18300 11600	870 890	4 U 4 U	8 U 26	34.4 28.3	2 U 10 U
MW-36 MW-36 MW-36		7/20/2007	9	18300	870	4 U	8 U	34.4	2 U
MW-36 MW-36 MW-36 MW-36 MW-36		7/20/2007 1/25/2008 6/19/2008	9 6 5	18300 11600 15000	870 890 690	4 U 4 U 1.1 U	8 U 26 9 U 29 28	34.4 28.3 28.6	2 U 10 U 2 U

				Dis	solved Metals			Conventional	SVOC
	Chem	ical Name	Arsenic	Iron	Manganese	Nickel	Zinc	Chloride	bis (2-Ethylhexyl) phthalate
		Unit	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(ug/L)
Sample Location	Sample Type	C.L. Date	25	23687	4040	10	76.6	230	10
MW-36		1/29/2010	3.8	6820	759	2.3	36	23.2	2 U
MW-36 MW-36		7/29/2010 1/20/2011	4.1 4.5	15800 16400	685 685	0.9 J 1 U	5 U 10 U	40.3 32.3	2 U 2 U
MW-36		7/19/2011	4.7	16100	698	1.1 J	10 U	32.6	2 U 2 U
MW-36		1/23/2012	5.6	16000	724	1 U	10 U	27.5	2 U
MW-36D MW-36		1/23/2012 7/18/2012	5.6 4.8	16000 14800	728 677	1 U 0.8 J	10 U 5 U	28.5 29.4	2 U 2 U
MW-36		1/22/2013	4.4	14200	850	2.5 J	22 J	25.7	2 U 2 U
MW-36		7/18/2013	6.3	15800	745	0.9 J	6 J	26.0	2 U
MW-36 MW-36		1/31/2014 7/25/2014	5.6 5.4	14800 12300	757 650	0.8 J 0.9 J	5 U 5 U	22.4 33.0	2 U 2 U
MW-36		2/10/2015	6.6	18700	765	1 U	10 U	27.0	2 U
MW-36 MW-36		7/29/2015 1/22/2016	1 U 4.6	40 U 24900	1 U 1350	1 U 2.7 J	10 U 10 U	210.0 253.0	2 U 2 U
MW-36		7/14/2016	5.1	580	1330	3.3 J	10 U	86.4	2 U 2 U
MW-36		2/1/2017	1 U	240	94.2	2.2 J	10 U	111	2 U, H
MW-36 MW-36		7/20/2017 2/9/2018	2.2 J 2.2 J	680 10500	351 640	2 J 1 U	10 U 10 U	69.8 131	2 U 2 U
MW-36		8/1/2018	1.4 J	3960	427	1.3 J	10.3 U	91.4	2 U
MW-36		1/29/2019	1.1 J	4740	277	1 U	10 U	81	2 U
MW-36 MW-36		7/11/2019 2/4/2020	3.6 J 2.1 J	7450 190	334 170	1 U 2.2 J	10 U 10 U	49.7 21.6	2 U 2 U
MW-36		7/23/2020	7.1	4350	378	2 J	10 U	35.7	2 U
MW-37 MW-37	POC	7/6/2001 10/8/2001	6 U 6 U	22907 20327	700 599	5 U 2 U	8 U 8 U	87.0	1 U 1 U
MW-37 MW-37		1/22/2001	6 U 6 U	20327 22525	599 678	2.87	8.1	92.3	1 U 4 U
MW-37		4/10/2002	9.4	16182	665	4 U	8 U	48.3	4 U
MW-37 MW-37	not	7/11/2002 10/9/2002	4 U 4 U	25400 25500	688 664	4 U 4 U	8 U 11	92.3 112.0	4 U 4 U
MW-37	sampled	1/15/2002	4 U	26800	694	4 U	8 U	114.0	1 U
MW-37	2006-2015	4/23/2003 10/8/2003	4 U 4 U	23100	598	4 U	8 U	117.0	1 U
MW-37 MW-37	due to saline river	4/6/2003	40	22700 25100	651 724	4 U 2 U	8 U 8 U	190.0 157.0	1 U 1 U
MW-37	water	7/15/2005	2 U	26500	807	2 U	8 U	248.0	10 U
MW-37 MW-37	biasing results	2/1/2006 7/13/2006	4 U 4 U	29900 26500	956 840	2 U 2 U	8 U 61	461.0 257.0	10 U 2 U
MW-37D	results	7/13/2006	4 U	26800	840	2 U	8 U	298.0	2 U 2 U
MW-37		7/29/2015	1.2 J	2710	491	1.3 J	10 U	31.0	2 U
MW-37 MW-37		1/22/2016 7/14/2016	1 U 1 U	33300 28200	894 720	1.4 J 1 U	23 J 10 U	155.0 251.0	2 U 2 U
MW-37		2/1/2017	1 U	35100	1230	1 U	10 U	1690	2 U, H
MW-37D MW-37	resample	2/1/2017 4/5/2017	1 U	34400	1200	1 U	10 U	1680 840	2 U, H
MW-37	resampte	7/20/2017	1 U	18900	830	1 U	10 U	1790	2 U
MW-37		2/9/2018	1 U	9180	494	1 U	10 U	1590	2.5
MW-37 MW-37		8/2/2018 1/29/2019	1 U 1 U	11100 12800	509 419	1 U 1 U	10.3 U 10 U	1360 465	2 U 2 U
MW-37		7/11/2019	1 U	20600	873	1 U	10 U	884	2 U 2 U
MW-37D		7/11/2019	1 U	20600	870	1 U	10 U	880	2 U
MW-37 MW-37		2/4/2020 7/23/2020	1 U 1 U	15100 17900	733 1350	1 U 1 U	10 U 10 U	480 995	2 U 2 U
MW-38	POC	7/6/2001	6 U	3022	384	5 U	8 U	17.1	1 U
MW-38 MW-38		10/8/2001 1/23/2002	6 U 6 U	4066 3653	287 272	2 U 2 U	8 U 8.3	20.6 15.4	1 U 4 U
MW-38		4/12/2002	6 U	3665	263	4 U	8 U	15.4	5.4
MW-38		7/11/2002	4 U	3480	262	4 U	8 U	19.4	4 U
MW-38 MW-38		10/15/2002 1/15/2003	4 U 4 U	2290 4200	234 284	4 U 4 U	8 U 8 U	19.2 20.9	4 U 1 U
MW-38		4/23/2003	4 U	1560	219	4 U	8 U	16.2	1 U
MW-38 MW-38		10/8/2003 4/6/2004	4 U 2 U	4070 3690	296 279	4 U 2 U	8 U 8 U	23.8 22.1	1 U 1 U
MW-38		7/15/2005	2 U	4850	331	2 U	8 U	27.0	10 U
MW-38 MW-38		2/2/2006 7/10/2006	4 U 4 U	4130 4230	289 290	2 U 2 U	8 U 8 U	24.0 24.4	10 U 2 U
MW-38		1/10/2008	4 U 4 U	4230	300	2 U 4 U	8 U	24.4	2 U 2 U
MW-38		7/20/2007	4 U	1680	260	4 U	8 U	22.5	2 U
MW-38 MW-38		1/25/2008 6/19/2008	2 U 0.5 U	2470 6240	230 325	4 U 0.5 U	31 5 U	16.5 39.2	10 U 2 U
MW-38		1/22/2009	0.5 U	420	39	1.2 U	600	8.9	2 U
MW-38 MW-38		2/26/2009 7/9/2009	1 U	3220	259	1 U	36 52	22.4	2 U
MW-38		1/29/2010	1 U	3300	259	1 U	52 10 U	16.2	2 U 2 U
MW-38		7/29/2010	0.5 U	3480	253	0.5 U	5 U	17.1	2 U
MW-38 MW-38		1/20/2011 7/18/2011	1 U 1 U	3610 4020	265 272	1 U 1 U	10 U 10 U	13.9 22.4	2 U 2 U
MW-38		1/24/2012	1 U	4000	301	1 U	10 U	17.1	2 U
MW-38 MW-38		7/18/2012 1/22/2013	0.5 U 1 U	71 J 3530	107 287	0.5 U 1 U	17 J 10 U	16.2 12.8	2 U 2 U
MW-38 MW-38		7/192013	0.5 U	3530 4190	287	0.5 U	10 U 7 J	30.4	2.0
MW-38		2/6/2014	0.5 U	3420	264	0.5 U	5 U	12.8	2 U
MW-38 MW-38		7/28/2014 2/9/2015	0.5 U 1 U	550 2720	136 236	0.5 U 2 J	7 J 11 J	15.0 10.5	2 U 2 U
MW-38		7/29/2015	1 U	40 U	213	1 U	14 J	11.1	2 U
MW-38		1/22/2016	1 U	3400	275	1 U	10 U	9.1 86.4	2 U 2 U
MW-38 MW-38		7/14/2016 2/1/2017	1 U 1 U	5460 3490	502 306	1 U 1 U	10 U 10 U	86.4 17.0	2 U 2 H
MW-38		7/20/2017	1 U	3580	300	1 U	10 U	17.7	2 U
MW-38 MW-38		2/9/2018 8/2/2018	1 U 1 U	2810 1230	295 210	1 U 1 U	10 U 10.3 U	11.0 12.8	2 U 2 U
MW-38D		8/2/2018	1 U	970	202	1 U	10.3 U	12.9	2 U
MW-38		1/29/2019	1 U	2430	271	1 U	10 U	12.4	2 U
MW-38D MW-38		1/29/2019 7/11/2019	1 U 1 U	2400 800	274 169	1 U 1 U	10 U 10 U	12.2 12.1	2 U 2 U
MW-38		2/5/2020	1 U	40 U	27.5	1 U	10 U	10.5	2 U
MW-38	L	7/23/2020	1 U	160	257	1 U	10 U	6.3	2 U

				Dis	solved Metals			Conventional	SVOC
									bis (2-Ethylhexyl)
	Che	mical Name	Arsenic	Iron	Manganese	Nickel	Zinc	Chloride	phthalate
		Unit	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(ug/L)
Sample	Sample	C.L.	25	23687	4040	10	76.6	230	10
Location	Туре	Date							
MW-39	POC	7/6/2001	6 U	420	206	5 U	30	49.8	1 U
MW-39		10/8/2001	6 U	916	236	2 U	8 U	45.7	1 U
MW-39		1/23/2002	6 U	1365	398	2 U	8 U	7.9	6.5
MW-39		4/12/2002	6 U	1638	384	4 U	8 U	6.8	7.2
MW-39		7/9/2002	8	2520	430	4 U	12	6.2	4.8
MW-39		10/15/2002	4	2740	398	4 U	8 U	5.6	4 U
MW-39		1/15/2003	4 U	2870	353	4 U	8 U	6.5	1 U
MW-39		4/24/2003	4 U	2080	363	4 U	8 U	5.1	74
MW-39		10/8/2003	4 U	3690	366	4 U	8 U	5.6	1 U
MW-39		4/6/2004	4	3730	323	2 U	8 U	5.3	1 U
MW-39		7/15/2005	2 U	18.2	300	2 U	16	6.0	10 U
MW-39		2/2/2006	6	3780	269	2 U	8 U	5.0	10 U
MW-39		7/10/2006	4 U	990	220	2 U	17 8 U	4.3	2 U
MW-39 MW-39		1/10/2007 7/19/2007	4 U 4 U	6980 5310	280 270	4 U 4 U	8 U 8 U	5.4 5.7	2 U 2 U
MW-39 MW-39D		7/19/2007	4 U 4 U	5310	270	4 U 4 U	8 U 8 U	5.7	2 U 2 U
MW-39D MW-39		1/24/2008	3	5490	280	4 U 4 U	8 U 8 U	5.9	2 U 10 U
MW-39 MW-39		6/18/2008	b	4320	280	0.5 U	5 U	5.8	10 U 2 U
MW-39 MW-39		1/22/2009	1.5 U	4320	252	0.5 U	9 U	6.1	2 U 2 U
MW-39 MW-39		7/9/2009	1.5 0	1950	154	0.5 U 1 U	10 U	5.9	2 U 2 U
MW-39 MW-39		1/29/2010	2.1	4930	239	1 U	10 U 10 U	6.3	2 U 2 U
MW-39D		1/29/2010	2.1	5030	239	1 U	10 U	6.2	2 U 2 U
MW-39D		7/29/2010	1.5 J	2990	240	0.5 U	5 U	6.1	2 U 2 U
MW-39		1/20/2011	2.5 J	5750	249	1 U	10 U	6.3	2 U
MW-39		7/18/2011	1.6 J	3210	212	1 U	10 U	5.6	2 U
MW-39		1/24/2012	2.6 J	6150	246	1 U	10 U	5.4	2 U
MW-39		7/18/2012	2.1	5430	234	0.5 U	5 U	5.9	2 U
MW-39		1/22/2013	NS	NS	NS	NS	NS	NS	NS
MW-39R		7/29/2015	2 J	130 J	229	2 J	10 U	5.0	8.1
MW-39R		1/19/2016	2.4 J	650	255	2.1 J	30 J	5.5	2 U
MW-39R		7/15/2016	1 U	4040	231	1 U	10 U	7.1	2 U
MW-39R		1/26/2017	1 U	4270	272	1 U	10 U	7.6	2 U
MW-39R		7/20/2017	1 U	40 U	10.1	1.4 J	10 U	1.4	2 U
MW-39R		2/9/2018	1 U	4460	249	1 U	10 U	7.9	2 U
MW-39R		7/31/2018	1 U	4600	239	1 U	10.3 U	7.6	2 U
MW-39R		1/29/2019	1 U	40 U	8.2	1.0 J	10 U	3.0	2 U
MW-39R		7/10/2019	1 U	2700	227	1 U	10 U	4.5	2 U
MW-39R		2/3/2020	1 U	190	170	2.2 J	10 U	21.6	2 U
MW-39R		7/22/2020	1 U	40 U	130	1 U	10 U	6.3	2 U
MW-40		7/10/2006	4 U	20100	450	2 U	8 U		
MW-40		1/9/2007	4 U	6060	940	4 U	8 U	225.0	2 U
MW-40	1	7/19/2007	4 U	4080	730	4 U	8 U	24.1	2 U
MW-40		1/30/2008	2 U	12200	1190	4 U	8 U	166.0	10 U
MW-41		7/10/2006	4 U	5360	970	2 U	8 U		
MW-41	1	1/9/2007	4 U	5780	1030	4 U	8 U	1610.0	2 U
MW-41	1	7/19/2007	4 U	4710	990	4 U	8 U	1880.0	2 U
MW-41	-	1/30/2008	2 U	1090	2710	4 U	40 U	6120.0	10 U
MW-42		7/10/2006	24	7290	430	2 U	8 U	8.4	2 U
MW-42D	1	7/15/2006	23	7280.0	420	0 U	8 U	4.0	2 U
MW-42	1	1/9/2007	22	7300.0	410	4 U	8 U	3.8	2 U
MW-42	1	7/19/2007	21	7040.0	390	4 U	8 U	4.5	2 U
MW-42	1	1/30/2008	22	7090.0	390	4 U	8 U	3.9	10 U

 MW-42
 1/30/2008
 22
 7090.0
 390

 NOTES:
 Bold
 Analyte detected

 Highlighted
 Analyte detected

 NET = network well for Performance and Confirmational Monitoring

 BG = upgradient background well

 POC = deep aquifer point of compliance monitoring well

 C.L. = cleanup level

 ug/L = micrograms per liter

 ug/L = miligrams per liter

 U = not detected at reporting limit shown

 J = estimated concentration

 NS = Not sampled

 BKG = background (established after 3 year evaluation monitoring period)

 B = likely laboratory contamination, analyte detected in field blank

 D = duplicate sample collected

 H = Sample analyzed outside of holding time

r	1	1		
Well	Туре	Date	Water Depth	Water Elevation
MW-05	S, INT	7/2/2001	13.57	11.71
MW-05		10/1/2001	12.44	12.84
MW-05		1/16/2002	10.75	14.53
MW-05		4/8/2002	10.97	14.31
MW-05		7/3/2002	14.15	11.13
MW-05		10/7/2002	14.63	10.65
MW-05		1/16/2003	13.32	11.96
MW-05		4/21/2003	10.97	14.31
MW-05		10/6/2003	15.12	10.16
MW-05		4/2/2004		11.11
1111 05		Decommissio		11.11
MW-08	INT	7/2/2001	19.42	7.59
MW-08		10/1/2001	22.43	4.58
MW-08				
		1/16/2002	19.57	7.44
MW-08		4/8/2002	19.74	7.27
MW-08		7/3/2002	21.82	5.19
MW-08		10/7/2002	22.99	4.02
MW-08		1/16/2003	17.24	9.77
MW-08		4/21/2003	20.50	6.51
MW-08		10/6/2003	23.88	3.13
MW-08		4/2/2004	21.45	5.56
		Decommissio	oned 1/05	
MW-11R	NET	1/16/2002	6.25	6.47
MW-11R		4/8/2002	6.60	6.12
MW-11R		4/8/2002	6.60	6.12
MW-11R		7/3/2002	8.68	4.04
MW-11R		10/7/2002	10.56	2.16
MW-11R		1/16/2003	3.12	9.60
MW-11R		4/21/2003	5.77	6.95
MW-11R		10/6/2003	3.61	9.11
MW-11R MW-11R		4/2/2003	8.62	4.10
MW-11R MW-11R				4.62
MW-11R MW-11R		7/13/2005 2/7/2006	8.10 4.34	4.62
MW-11R MW-11R				
		7/10/2006	7.84	4.88
MW-11R		1/8/2007	2.89	9.83
MW-11R		7/16/2007	11.76	0.96
MW-11R		1/23/2008	4.48	8.24
MW-11R		6/17/2008	9.45	3.27
MW-11R		1/13/2009	5.53	7.19
MW-11R		7/8/2009	NR	
MW-11R		1/26/2010	4.88	7.84
MW-11R		7/28/2010	7.05	5.67
MW-11R		1/21/2011	4.73	7.99
MW-11R		7/15/2011	9.27	3.45
MW-11R		1/23/2012	NR	
MW-11R		7/19/2012	14.65	0.42
MW-11R		1/23/2013	11.52	2.68
MW-11R		7/18/2013	11.00	3.20
MW-11R		1/31/2014	9.08	3.20
MW-11R		7/25/2014	16.82	-2.62
MW-11R		7/28/2015	11.59	2.61
MW-11R		1/19/2016	14.11	0.09
MW-11R		7/18/2016	17.19	-2.99
MW-11R		1/26/2017	12.05	2.15
MW-11R		7/20/2017	16.11	-1.91
MW-11R		2/9/2018	10.87	3.33
MW-11R		7/31/2018	16.12	-1.92
MW-11R		1/15/2019	9.17	5.03
MW-11R		7/10/2019	15.62	-1.42
MW-11R		2/3/2020	7.88	6.32
MW-11R		7/21/2020	17.94	-3.74

Weill Type Date Water Depth Water Elevation MW-14 S, INT 7/2/2001 17.85 8.40 MW-14 10/1/2001 20.38 5.87 MW-14 4/8/2002 18.45 7.80 MW-14 10/7/2002 20.36 5.89 MW-14 10/7/2002 20.35 5.90 MW-14 10/6/2003 20.39 5.86 Decommissionel 1/05 0 0 0 MW-17 S, INT 7/2/2001 11.32 13.89 MW-17 10/1/2001 2.91 22.30 MW-17 10/1/2001 NR MW-17 10/7/2002 NR MW-17 10/7/2002 NR MW-17 10/6/2003 13.91 12.44 MW-17 1/16/2003 17.40 7.76 MW-17 10/1/2001 17.19 25.33 MW-21 10/7/2002 16.72 25.47 MW-21	r				
MW-14 10/1/2001 20.38 5.87 MW-14 1/16/2002 18.20 8.05 MW-14 4/8/2002 18.20 8.05 MW-14 1/07/2002 20.36 5.89 MW-14 1/07/2002 20.35 5.90 MW-14 1/06/2003 19.52 6.73 MW-14 4/21/2003 18.16 8.09 MW-14 1/06/2003 20.39 5.86 Decommissionel 1/05 1.389 MW-17 1/16/2002 NR MW-17 1/16/2002 NR MW-17 1/07/2002 NR MW-17 1/16/2003 13.91 12.44 MW-17 1/16/2003 13.91 12.44 MW-17 1/16/2003 17.40 7.76 MW-17 1/16/2002 16.51 25.68 MW-21 1/16/2002 16.72 25.47 MW-21 1/16/2003 17.10 25.09 </td <td>Well</td> <td>Туре</td> <td>Date</td> <td>Water Depth</td> <td>Water Elevation</td>	Well	Туре	Date	Water Depth	Water Elevation
MW-14 1/16/2002 18.20 8.05 MW-14 4/8/2002 18.45 7.80 MW-14 10/7/2002 20.36 5.89 MW-14 10/7/2002 20.35 5.90 MW-14 1/16/2003 19.52 6.73 MW-14 4/21/2003 18.16 8.09 MW-14 10/6/2003 20.39 5.86 Decommissioned 1/05 13.89 MW-17 10/1/2001 2.91 22.30 MW-17 10/1/2002 NR MW-17 10/1/2002 NR MW-17 10/7/2002 NR MW-17 10/6/2003 13.91 12.44 MW-17 10/6/2003 17.40 7.76 MW-17 10/1/2001 17.23 24.96 MW-17 10/1/2001 17.23 24.96 MW-21 10/1/2001 17.19 25.33 MW-21 10/1/2001 17.13 24.96 </td <td>MW-14</td> <td>S, INT</td> <td>7/2/2001</td> <td>17.85</td> <td>8.40</td>	MW-14	S, INT	7/2/2001	17.85	8.40
MW-14 4/8/2002 18.45 7.80 MW-14 7/3/2002 20.36 5.89 MW-14 1/16/2003 19.52 6.73 MW-14 1/16/2003 19.52 6.73 MW-14 4/21/2003 18.16 8.09 MW-17 S, INT 7/2/2001 11.32 13.89 MW-17 S, INT 7/2/2001 11.32 13.89 MW-17 10/1/2001 2.91 22.30 MW-17 10/1/2002 NR MW-17 10/1/2002 NR MW-17 10/7/2002 NR MW-17 10/7/2003 NR MW-17 10/6/2003 NR MW-17 10/6/2003 17.40 7.76 MW-17 10/1/2001 17.23 24.96 MW-21 10/1/2002 16.51 25.68 MW-21 10/6/2003 17.19 25.00 MW-21 10/6/2003 1	MW-14		10/1/2001	20.38	5.87
MW-14 7/3/2002 20.36 5.89 MW-14 10/7/2002 20.35 5.90 MW-14 11/6/2003 19.52 6.73 MW-14 10/6/2003 20.39 5.86 Decommissioned 1/05	MW-14		1/16/2002	18.20	8.05
MW-14 10/7/2002 20.35 5.90 MW-14 1/16/2003 19.52 6.73 MW-14 4/21/2003 18.16 8.09 MW-14 4/21/2003 18.16 8.09 MW-17 S, INT 7/2/2001 11.32 13.89 MW-17 10/1/2001 2.91 22.30 MW-17 10/1/2002 NR MW-17 10/1/2002 NR MW-17 10/7/2002 NR MW-17 10/7/2002 NR MW-17 10/6/2003 NR MW-17 10/6/2003 17.40 7.76 MW-17 10/6/2003 17.40 7.76 MW-17 10/1/2001 17.23 24.96 MW-21 10/1/2002 16.51 25.68 MW-21 10/6/2003 17.10 25.00 MW-21 10/6/2003 17.10 25.00 MW-21 10/6/2003 17.79 <td< td=""><td>MW-14</td><td></td><td>4/8/2002</td><td>18.45</td><td>7.80</td></td<>	MW-14		4/8/2002	18.45	7.80
MW-14 1/16/2003 19.52 6.73 MW-14 4/21/2003 18.16 8.09 MW-14 10/6/2003 20.39 5.86 MW-17 S, INT 7/2/2001 11.32 13.89 MW-17 10/1/2001 2.91 22.30 MW-17 11/16/2002 NR MW-17 11/16/2002 NR MW-17 10/7/2002 NR MW-17 10/7/2002 NR MW-17 10/16/2003 NR MW-17 10/6/2003 NR MW-17 10/6/2003 NR MW-17 10/6/2003 17.40 7.76 MW-21 NET 7/2/2001 17.23 24.96 MW-21 10/1/2002 16.51 25.68 MW-21 10/6/2003 17.10 25.09 MW-21 10/6/2003 17.10 25.09 MW-21 10/6/2003 17.79	MW-14		7/3/2002	20.36	5.89
MW-14 4/21/2003 18.16 8.09 MW-14 10/6/2003 20.39 5.86 Decommissioned 1/05	MW-14		10/7/2002	20.35	5.90
MW-14 4/21/2003 18.16 8.09 MW-14 10/6/2003 20.39 5.86 Decommissioned 1/05	MW-14				
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MW-17 17/16/2002 NR MW-17 4/8/2002 NR MW-17 7/3/2002 NR MW-17 10/7/2002 NR MW-17 11/16/2003 NR MW-17 11/16/2003 NR MW-17 4/2/2004 16.95 9.40 MW-17 10/6/2003 17.40 7.76 MW-17 4/2/2004 16.95 9.40 Decommissioned 1/05 MW-21 10/1/2001 17.23 24.96 MW-21 10/1/2002 16.51 25.68 MW-21 10/7/2002 16.72 25.47 MW-21 10/7/2002 17.19 25.00 MW-21 10/6/2003 17.78 24.41 MW-21 10/6/2003 17.78 24.41 MW-21 7/13/2005 17.79 24.40 MW-21 7/13/2005 17.79 24.40	MW-17	S, INT	7/2/2001	11.32	13.89
MW-17 4/8/2002 NR MW-17 7/3/2002 NR MW-17 10/7/2002 NR MW-17 11/16/2003 NR MW-17 10/6/2003 17.40 7.76 MW-21 10/1/2001 17.23 24.96 MW-21 10/1/2002 16.51 25.68 MW-21 10/6/2003 17.19 25.00 MW-21 10/7/2002 17.19 25.00 MW-21 10/6/2003 17.78 24.41 MW-21 10/6/2003 17.78 24.41 MW-21 7/13/2005 17.79 24.40 MW-21 7/13/2005 17.79 24.40 MW-21 7/13/2006 17.00 25.19 </td <td>MW-17</td> <td>· ·</td> <td>10/1/2001</td> <td>2.91</td> <td>22.30</td>	MW-17	· ·	10/1/2001	2.91	22.30
MW-17 4/8/2002 NR MW-17 7/3/2002 NR MW-17 10/7/2002 NR MW-17 11/16/2003 NR MW-17 10/6/2003 17.40 7.76 MW-21 10/1/2001 17.23 24.96 MW-21 10/1/2002 16.51 25.68 MW-21 10/6/2003 17.19 25.00 MW-21 10/7/2002 17.19 25.00 MW-21 10/6/2003 17.78 24.41 MW-21 10/6/2003 17.78 24.41 MW-21 7/13/2005 17.79 24.40 MW-21 7/13/2005 17.79 24.40 MW-21 7/13/2006 17.00 25.19 </td <td>MW-17</td> <td></td> <td>1/16/2002</td> <td>NR</td> <td></td>	MW-17		1/16/2002	NR	
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MW-21 10/1/2001 17.23 24.96 MW-21 1/16/2002 16.51 25.86 MW-21 4/8/2002 16.39 25.80 MW-21 1/3/2002 16.72 25.47 MW-21 10/7/2002 17.19 25.00 MW-21 10/7/2002 17.19 25.00 MW-21 4/21/2003 16.93 25.26 MW-21 4/21/2003 16.93 25.26 MW-21 4/21/2004 17.52 24.67 MW-21 7/13/2005 17.79 24.40 MW-21 7/13/2006 17.00 25.19 MW-21 7/13/2005 17.79 24.40 MW-21 7/13/2006 17.00 25.19 MW-21R 1/26/2010 13.06 26.30 MW-21R 1/26/2010 13.06 26.30 MW-21R 7/15/2011 12.66 26.70 MW-21R 7/15/2011 12.66 26.70 MW-21R 7/15/2011 12.66			Decommissio	oned 1/05	
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MW-21R 2/3/2020 12.45 26.91					
	MW-21R		2/3/2020	12.45	26.91
	MW-21R		7/21/2020	12.55	26.81

Well	Туре	Date	Water Depth	Water Elevation
MW-22	S, NET	7/2/2001	10.98	16.79
MW-22	,	10/1/2001	10.93	16.84
MW-22		1/16/2002	11.04	16.73
MW-22		4/8/2002	10.94	16.83
MW-22		7/3/2002	11.01	16.76
MW-22		10/7/2002	11.05	16.72
MW-22		1/16/2003	10.99	16.78
MW-22		4/21/2003	10.94	16.83
MW-22		10/6/2003	11.01	16.76
MW-22		4/2/2004	10.95	16.82
MW-22		7/13/2005	10.99	16.78
MW-22		2/7/2006	10.87	16.90
MW-22		7/10/2006	10.84	16.93
MW-22		1/8/2007	10.79	16.98
MW-22		7/16/2007	8.43	19.34
MW-22		1/23/2008	10.68	17.09
MW-22		6/17/2008	10.78	16.99
MW-22		1/13/2009	10.63	17.14
MW-22		7/8/2009	NR	
MW-22		1/26/2010	NR	
MW-22		7/28/2010	NR	
MW-22		1/21/2011	NR	
MW-22		7/15/2011	10.50	17.27
MW-22		1/23/2012	13.13	14.64
MW-22		7/19/2012	NR	
MW-22		1/23/2013	15.56	12.21
MW-22		7/18/2013	15.78	11.99
MW-22		2/1/2014	15.81	11.96
MW-22		7/28/2014	21.65	6.12
MW-22		2/10/2015	15.43	12.34
MW-23	S, INT	7/2/2001	19.44	12.05
MW-23		10/1/2001	19.70	11.79
MW-23		1/16/2002	18.71	12.78
MW-23		4/8/2002	18.69	12.80
MW-23		7/3/2002	19.58	11.91
MW-23		10/7/2002	19.74	11.75
MW-23		1/16/2003	18.90	12.59
MW-23		4/21/2003	18.42	13.07
MW-23		10/6/2003	19.72	11.77
MW-23		4/2/2004		12.56
		Decommissio		
MW-24	S, NET	7/2/2001	8.14	9.76
MW-24		10/1/2001	9.52	8.38
MW-24		1/16/2002	6.66	11.24
MW-24		4/8/2002	7.33	10.57
MW-24		7/3/2002	8.68	9.22
MW-24		10/7/2002	16.73	1.17
MW-24		1/16/2003	7.29	10.61
MW-24		4/21/2003	6.95	10.95
MW-24		10/6/2003	11.14	6.76
MW-24		4/2/2004	7.61	10.29
MW-24		7/13/2005	8.68	9.22
MW-24		2/7/2006	6.97	10.93
MW-24 MW-24		7/10/2006	8.26	9.64
		1/8/2007	7.71	10.19
MW-24		7/16/2007	6.66	11.24
MW-24 MW-24		1/23/2008	7.36	10.54
MW-24 MW-24		6/17/2008 1/13/2009	7.57	10.33
MW-24 MW-24		7/8/2009	7.04	10.86
MW-24 MW-24		1/26/2010	8.65	9.25 11.00
MW-24 MW-24			6.90 8.26	9.64
MW-24 MW-24		7/28/2010 1/21/2011	8.26 5.90	12.00
MW-24 MW-24		7/15/2011	5.90 7.82	12.00
MW-24 MW-24		1/24/2012	7.82	10.08
MW-24 MW-24		7/19/2012	7.66	10.40
MW-24 MW-24		1/23/2012	7.35	10.24
MW-24 MW-24		7/18/2013	4.12	New TOC
MW-24 MW-24		1/31/2014	2.58	New TOC
MW-24 MW-24		7/28/2014	3.15	New TOC
MW-24		2/9/2014	2.55	New TOC
MW-24		7/22/2020	4.21	New TOC
	I	112212020	1.21	1101 100

Well	Туре	Date	Water Depth	Water Elevation
MW-25	S, NET	7/2/2001	8.46	7.92
MW-25	-,	10/1/2001	8.65	7.73
MW-25		1/16/2002	6.76	9.62
MW-25 MW-25		4/8/2002 7/3/2002	7.57 8.22	8.81 8.16
MW-25		10/7/2002	8.22 9.05	7.33
MW-25		1/16/2003	6.98	9.40
MW-25		4/21/2003	7.00	9.38
MW-25		10/6/2003	9.17	7.21
MW-25 MW-25		4/2/2004 7/13/2005	7.94 8.19	8.44 8.19
MW-25		2/7/2006	6.78	9.60
MW-25		7/10/2006	8.13	8.25
MW-25		1/8/2007	5.78	10.60
MW-25 MW-25		7/16/2007 1/23/2008	7.02 6.30	9.36 10.08
MW-25		6/17/2008	6.66	9.72
MW-25		1/13/2009	6.27	10.11
MW-25		7/8/2009	8.06	8.32
MW-25		1/26/2010	5.86	10.52
MW-25 MW-25		7/28/2010 1/21/2011	7.99 4.90	8.39 11.48
MW-25		7/15/2011	7.54	8.84
MW-25		1/24/2012	5.33	11.05
MW-25		7/19/2012	6.90	9.48
MW-25		1/23/2013	6.20	10.18
MW-25 MW-25		7/18/2013 1/31/2014	3.70 1.32	NEW TOC NEW TOC
MW-25		7/28/2014	3.54	NEW TOC
MW-25		2/9/2015	2.02	NEW TOC
MW-25	0. XVIII	7/22/2020	4.12	NEW TOC
MW-26 MW-26	S, NET	7/2/2001 10/1/2001	10.31 10.20	6.13 6.24
MW-26		1/16/2002	6.11	10.33
MW-26		4/8/2002	6.35	10.09
MW-26		7/3/2002	10.29	6.15
MW-26		10/7/2002	10.43	6.01
MW-26 MW-26		1/16/2003 4/21/2003	6.55 6.42	9.89 10.02
MW-26		10/6/2003	10.42	5.97
MW-26		4/2/2004	9.81	6.63
MW-26		7/13/2005	10.07	6.37
MW-26 MW-26		2/7/2006 7/10/2006	9.27	7.17
MW-26		1/8/2007	11.02 7.94	5.42 8.50
MW-26		7/16/2007	9.16	7.28
MW-26		1/23/2008	9.60	6.84
MW-26		6/17/2008	9.85	6.59
MW-26 MW-26		1/13/2009 7/8/2009	8.43 9.64	8.01 6.80
MW-26		1/26/2010	8.85	7.59
MW-26		7/28/2010	9.05	7.39
MW-26		1/21/2011	4.10	12.34
MW-26 MW-26		7/15/2011 1/23/2012	8.08 5.52	8.36 10.92
MW-26		1/23/2012	4.90	11.54
MW-26		7/18/2013	4.17	NEW TOC
1 011 25	G)			
MW-27 MW-27	S, NET	7/2/2001 10/1/2001	8.30	8.11
MW-27 MW-27		1/17/2001	7.77 9.20	8.64 7.21
MW-27		4/8/2002	6.62	9.79
MW-27		7/3/2002	6.81	9.60
MW-27		10/7/2002	6.00	10.41
MW-27 MW-27		1/16/2003 4/21/2003	6.46 6.75	9.95 9.66
MW-27 MW-27		4/21/2003	6.75 7.87	9.66 8.54
MW-27		4/2/2004	5.49	10.92
MW-27		7/13/2005	5.94	10.47
MW-27		2/7/2006	6.90	9.51
MW-27 MW-27		7/10/2006 1/8/2007	6.96 6.09	9.45 10.32
MW-27 MW-27		7/16/2007	6.02	10.32
MW-27		1/23/2008	6.84	9.57
MW-27		6/17/2008		9.38
MW-27		Decommissio	onea 11/08	
L	I			

Well	Туре	Date	Water Depth	Water Elevation
MW-28	NET	7/2/2001	9.98	6.65
MW-28		10/1/2001	10.35	6.28
MW-28 MW-28		1/17/2002	8.67 9.01	7.96
MW-28		4/8/2002 7/3/2002	10.52	7.62 6.11
MW-28		10/7/2002	11.72	4.91
MW-28		1/16/2003	6.46	10.17
MW-28		4/21/2003	9.45	7.18
MW-28		10/6/2003	9.62	7.01
MW-28		4/2/2004	10.15	6.48
MW-28		7/13/2005	10.25	6.38
MW-28		2/7/2006	7.61	9.02
MW-28 MW-28		7/10/2006	12.71 6.78	3.92
MW-28 MW-28		1/8/2007 7/16/2007	0.78 10.51	9.85 6.12
MW-28		1/23/2008	9.12	7.51
MW-28		6/17/2008		6.63
		Decommissio		
MW-29	NET	7/2/2001	8.44	7.52
MW-29		10/1/2001	8.75	7.21
MW-29		1/16/2002	7.36	8.6
MW-29		4/8/2002	7.75	8.21
MW-29		7/3/2002	9.06	6.90
MW-29		10/7/2002	10.21	5.75
MW-29 MW-29		1/16/2003	5.92	10.04
MW-29 MW-29		4/21/2003 10/6/2003	7.05 7.60	8.91 8.36
MW-29 MW-29		4/2/2003	8.60	8.36 7.36
MW-29		7/13/2005	8.56	7.40
MW-29		2/7/2006	5.94	10.02
MW-29		7/10/2006	11.27	4.69
MW-29		1/8/2007	5.08	10.88
MW-29		7/16/2007	8.54	7.42
MW-29		1/23/2008	7.41	8.55
MW-29		6/17/2008	8.50	7.46
MW-29 MW-29		1/13/2009 7/8/2009	6.03 9.64	9.93 6.32
MW-29 MW-29		1/26/2010	9.64 5.12	0.32 10.84
MW-29 MW-29		7/28/2010	10.05	5.91
MW-29		1/21/2011	3.84	12.12
MW-29		7/15/2011	5.63	10.33
MW-29		1/23/2012		
		Well damage	d	
MW-29R		7/28/2015	7.64	No TOC Survey
MW-29R		1/19/2016	11.50	No TOC Survey
MW-29R		7/14/2016	4.92	No TOC Survey No TOC Survey
MW-29R MW-29R		7/14/2016 1/26/2017	4.92 3.18	No TOC Survey No TOC Survey No TOC Survey
MW-29R MW-29R MW-29R		7/14/2016 1/26/2017 7/20/2017	4.92 3.18 5.65	No TOC Survey No TOC Survey No TOC Survey No TOC Survey
MW-29R MW-29R MW-29R MW-29R		7/14/2016 1/26/2017 7/20/2017 2/8/2018	4.92 3.18 5.65 1.92	No TOC Survey No TOC Survey No TOC Survey No TOC Survey No TOC Survey
MW-29R MW-29R MW-29R MW-29R MW-29R		7/14/2016 1/26/2017 7/20/2017 2/8/2018 8/1/2018	4.92 3.18 5.65 1.92 3.90	No TOC Survey No TOC Survey No TOC Survey No TOC Survey No TOC Survey No TOC Survey
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R		7/14/2016 1/26/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019	4.92 3.18 5.65 1.92 3.90 3.61	No TOC Survey No TOC Survey No TOC Survey No TOC Survey No TOC Survey No TOC Survey No TOC Survey
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R		7/14/2016 1/26/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019	4.92 3.18 5.65 1.92 3.90 3.61 5.87	No TOC Survey No TOC Survey
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R		7/14/2016 1/26/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019 2/3/2020	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06	No TOC Survey No TOC Survey
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R		7/14/2016 1/26/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019	4.92 3.18 5.65 1.92 3.90 3.61 5.87	No TOC Survey No TOC Survey
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R	NET	7/14/2016 1/26/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019 2/3/2020 7/22/2020 7/22/2020	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95	No TOC Survey No TOC Survey
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30 MW-30	NET	7/14/2016 1/26/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019 2/3/2020 7/22/2020 7/22/2020	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29	No TOC Survey No TOC Survey
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30 MW-30 MW-30	NET	7/14/2016 1/26/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019 2/3/2020 7/22/2020 7/22/2020 10/1/2001 1/16/2002	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06	No TOC Survey No TOC Survey 7.95 2.61 6.84
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30 MW-30 MW-30 MW-30	NET	7/14/2016 1/26/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019 2/3/2020 7/22/2020 7/22/2020 7/22/2020 1/16/2002 4/8/2002	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06 9.09	No TOC Survey No TOC Survey 7.95 2.61 6.84 6.81
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30 MW-30 MW-30	NET	7/14/2016 1/26/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019 2/3/2020 7/22/2020 7/22/2020 10/1/2001 1/16/2002	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06	No TOC Survey No TOC Survey 7.95 2.61 6.84
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30 MW-30 MW-30 MW-30 MW-30	NET	7/14/2016 1/26/2017 7/20/2017 7/28/2018 8/1/2018 1/29/2019 7/10/2019 2/3/2020 7/22/2020 7/22/2020 7/22/2020 10/1/2001 10/1/2001 1/16/2002 4/8/2002 7/3/2002	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06 9.09 11.70	No TOC Survey No TOC Survey
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30	NET	7/14/2016 1/26/2017 7/20/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/12/2019 7/22/2020 7/22/2020 7/22/2020 7/22/2020 1/16/2002 1/16/2003 4/21/2003	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06 9.09 11.70 12.87 5.92 11.07	No TOC Survey No
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30	NET	7/14/2016 1/26/2017 7/20/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019 2/3/2020 7/22/2020 7/22/2020 7/22/2020 7/2/2001 10/1/2001 1/16/2002 1/16/2003 10/6/2003	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06 9.09 11.70 12.87 5.92 11.07 6.08	No TOC Survey No
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30	NET	7/14/2016 1/26/2017 7/20/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019 2/3/2020 7/22/2020 7/22/2020 7/22/2020 1/16/2003 4/21/2003 4/21/2004	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06 9.09 11.70 12.87 5.92 11.07 6.08 11.38	No TOC Survey No
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30	NET	7/14/2016 1/26/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019 2/3/2020 7/22/2020 7/22/2020 7/22/2020 10/1/2001 1/16/2002 4/8/2002 7/3/2002 1/16/2003 4/21/2003 10/6/2003	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06 9.09 11.70 12.87 5.92 11.07 6.08 11.38 11.51	No TOC Survey No
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30	NET	7/14/2016 1/26/2017 7/20/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/12/2000 7/22/2020 7/22/2020 7/22/2020 1/16/2002 4/8/2002 1/16/2003 4/21/2003 10/6/2003 4/21/2003 2/7/2006	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06 9.09 11.70 12.87 5.92 11.07 6.08 11.38 11.51 7.25	No TOC Survey No
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30	NET	7/14/2016 1/26/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019 7/22/2020 7/22/2020 7/22/2020 7/22/2020 7/22/2020 10/1/2001 1/16/2003 4/2/2004 7/13/2005 2/7/2006 7/10/2006	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06 9.09 11.70 12.87 5.92 11.07 6.08 11.38 11.51 7.25 15.37	No TOC Survey No
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30 MW-30	NET	7/14/2016 1/26/2017 7/20/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019 2/3/2020 7/22/2020 7/22/2020 7/22/2020 1/16/2002 4/8/2002 1/16/2003 4/21/2004 7/13/2005 2/7/2006 7/10/2006 1/8/2007	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06 9.09 11.70 12.87 5.92 11.07 6.08 11.38 11.51 7.25 15.37 6.37	No TOC Survey No Sur
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30	NET	7/14/2016 1/26/2017 7/20/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/1/2000 7/22/2020 7/22/2020 7/22/2020 7/22/2020 10/1/2001 11/16/2002 4/8/2002 7/3/2002 10/6/2003 4/21/2004 7/13/2005 2/7/2006 7/10/2006 1/8/2007 7/16/2007	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06 9.09 11.70 12.87 5.92 11.07 6.08 11.38 11.51 7.25 15.37 6.37 13.18	No TOC Survey No
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30	NET	7/14/2016 1/26/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019 7/10/2019 7/22/2020 7/22/2020 7/22/2020 7/22/2020 7/22/2020 10/1/2001 1/16/2002 1/16/2003 4/2/2004 7/10/2006 1/8/2007 7/16/2007 7/16/2007	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06 9.09 11.70 12.87 5.92 11.07 6.08 11.38 11.51 7.25 15.37 6.37 13.18 7.21	No TOC Survey No
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30	NET	7/14/2016 1/26/2017 7/20/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019 2/3/2020 7/22/2020 7/22/2020 7/22/2020 7/22/2020 10/1/2001 10/1/2001 11/16/2003 4/2/2004 7/13/2005 2/7/0206 1/8/2007 7/1/2020 1/8/2007 7/1/20206 1/8/2007 7/16/2007 7/1/20206 1/8/2007	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06 9.09 11.70 12.87 5.92 11.07 6.08 11.38 11.51 7.25 15.37 6.37 13.18 7.21 13.11	No TOC Survey No
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30	NET	7/14/2016 1/26/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019 7/22/2020 7/22/2020 7/22/2020 7/22/2020 7/22/2020 10/1/2001 1/16/2002 1/16/2003 4/2/2004 7/10/2006 1/8/2007 7/16/2003	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06 9.09 11.70 12.87 5.92 11.07 6.08 11.38 11.51 7.25 15.37 6.37 13.18 7.21	No TOC Survey No
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30	NET	7/14/2016 1/26/2017 7/20/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/10/2019 2/3/2020 7/22/2020 7/22/2020 7/22/2020 1/16/2003 1/16/2003 1/16/2003 1/16/2003 1/16/2003 1/10/2006 7/10/2006 7/10/2006 1/8/2007 7/16/2007 1/23/2008 6/17/2008	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06 9.09 11.70 12.87 5.92 11.07 6.08 11.38 11.51 7.25 15.37 6.37 13.18 7.21 13.11 8.40	No TOC Survey No
MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-29R MW-30 MW-3	NET	7/14/2016 1/26/2017 7/20/2017 7/20/2017 2/8/2018 8/1/2018 1/29/2019 7/1/2000 7/22/2020 7/22/2020 7/22/2020 7/22/2020 1/16/2002 4/8/2002 7/3/2002 1/16/2003 4/21/2004 7/13/2005 2/7/2006 7/10/2006 1/8/2007 7/16/2007 1/23/2008 6/17/2008 6/17/2008	4.92 3.18 5.65 1.92 3.90 3.61 5.87 3.06 3.15 7.95 13.29 9.06 9.09 11.70 12.87 5.92 11.07 6.08 11.38 11.51 7.25 15.37 6.37 13.18 7.21 13.11 8.40 NR	No TOC Survey No
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MW-34 2/10/2015 16.17 58.13 MW-35 BG 7/2/2001 48.43 24.82 MW-35 10/1/2001 48.43 24.82 MW-35 10/1/2001 48.89 24.36 MW-35 1/16/2002 48.32 24.93 MW-35 1/16/2002 48.11 25.14 MW-35 7/3/2002 48.85 24.40 MW-35 10/7/2002 48.85 24.40 MW-35 10/6/2003 48.89 24.36 MW-35 10/6/2003 49.38 23.87 MW-35 10/6/2003 49.38 23.87 MW-35 7/13/2005 49.05 23.72 MW-35 2/7/2006 49.06 24.19 MW-35 7/10/2006 49.02 24.23					
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MW-35 1/16/2002 48.32 24.93 MW-35 4/8/2002 48.11 25.14 MW-35 7/3/2002 48.46 24.79 MW-35 10/7/2002 48.85 24.40 MW-35 1/16/2003 48.89 24.36 MW-35 1/16/2003 48.77 24.48 MW-35 10/6/2003 49.38 23.87 MW-35 10/6/2003 49.38 23.87 MW-35 7/13/2005 49.24 24.01 MW-35 7/13/2006 49.06 24.19 MW-35 7/10/2006 49.06 24.19 MW-35 7/10/2006 49.02 24.23		BG			
MW-35 4/8/2002 48.11 25.14 MW-35 7/3/2002 48.46 24.79 MW-35 10/7/2002 48.85 24.40 MW-35 1/16/2003 48.89 24.36 MW-35 4/21/2003 48.77 24.48 MW-35 10/6/2003 49.38 23.87 MW-35 4/2/2004 49.24 24.01 MW-35 7/13/2005 49.53 23.72 MW-35 2/7/2006 49.06 24.19 MW-35 7/10/2006 49.02 24.23					
MW-35 7/3/2002 48.46 24.79 MW-35 10/7/2002 48.85 24.40 MW-35 1/16/2003 48.89 24.36 MW-35 4/21/2003 48.77 24.48 MW-35 10/6/2003 49.38 23.87 MW-35 4/2/2004 49.24 24.01 MW-35 7/13/2005 49.53 23.72 MW-35 2/7/2006 49.06 24.19 MW-35 7/10/2006 49.02 24.23					
MW-35 10/7/2002 48.85 24.40 MW-35 1/16/2003 48.89 24.36 MW-35 4/21/2003 48.77 24.48 MW-35 10/6/2003 49.38 23.87 MW-35 10/6/2003 49.38 23.87 MW-35 1/12/2004 49.24 24.01 MW-35 7/13/2005 49.63 23.72 MW-35 2/7/2006 49.06 24.19 MW-35 7/10/2006 49.02 24.23					
MW-35 1/16/2003 48.89 24.36 MW-35 4/21/2003 48.77 24.48 MW-35 10/6/2003 49.38 23.87 MW-35 10/6/2004 49.24 24.01 MW-35 7/13/2005 49.53 23.72 MW-35 2/7/2006 49.06 24.19 MW-35 7/10/2006 49.02 24.23					
MW-35 10/6/2003 49.38 23.87 MW-35 4/2/2004 49.24 24.01 MW-35 7/13/2005 49.53 23.72 MW-35 2/7/2006 49.06 24.19 MW-35 7/10/2006 49.02 24.23					
MW-35 4/2/2004 49.24 24.01 MW-35 7/13/2005 49.53 23.72 MW-35 2/7/2006 49.06 24.19 MW-35 7/10/2006 49.02 24.23					
MW-35 7/13/2005 49.53 23.72 MW-35 2/7/2006 49.06 24.19 MW-35 7/10/2006 49.02 24.23					
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MW-35 7/10/2006 49.02 24.23					
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Well	Туре	Date	Water Depth	Water Elevation
MW-36	POC	7/2/2001	9.79	1.13
MW-36		10/1/2001	9.98	0.94
MW-36		1/16/2002	5.10	5.82
MW-36 MW-36		4/8/2002 7/3/2002	4.92 6.95	6.00 3.97
MW-36		10/7/2002	9.11	1.81
MW-36		1/16/2003	1.78	9.14
MW-36		4/21/2003	8.10	2.82
MW-36		10/6/2003	9.97	0.95
MW-36 MW-36		4/2/2004 7/13/2005	7.46 5.89	3.46 5.03
MW-36		2/7/2006	2.68	8.24
MW-36		7/10/2006	12.40	-1.48
MW-36		1/8/2007	1.07	9.85
MW-36		7/16/2007	6.82	4.10
MW-36 MW-36		1/23/2008 6/17/2008	3.53 7.98	7.39 2.94
MW-36		1/13/2009	3.34	7.58
MW-36		7/8/2009	11.44	-0.52
MW-36		1/26/2010	3.14	7.78
MW-36		7/28/2010	5.65	5.27
MW-36 MW-36		1/21/2011 7/15/2011	3.75 7.86	7.17 3.06
MW-36		1/23/2011	4.26	6.66
MW-36		7/19/2012	7.33	3.59
MW-36		1/23/2013	4.62	6.30
MW-36		7/18/2013	3.45	7.47
MW-36		1/31/2014 7/28/2014	4.03	6.89
MW-36 MW-36		2/10/2015	8.00 0.70	2.92 10.22
MW-36		7/29/2015	5.83	5.09
MW-36		1/22/2016	3.01	7.91
MW-36		7/14/2016	10.39	0.53
MW-36		2/1/2017	4.71	6.21
MW-36 MW-36		7/20/2017 2/9/2018	10.05 3.40	0.87 7.52
MW-36		8/1/2018	9.04	1.88
MW-36		1/29/2019	1.70	9.22
MW-36		7/10/2019	9.11	1.81
MW-36		2/4/2020	1.94	8.98
MW-36		7/23/2020	10.01	0.91
MW-37	POC	7/2/2001	12.41	1.87
MW-37		10/1/2001	13.77	0.51
MW-37 MW-37		1/16/2002 4/8/2002	8.30 7.99	5.98 6.29
MW-37		7/3/2002	10.12	4.16
MW-37		10/7/2002	12.55	1.73
MW-37		1/16/2003	5.27	9.01
MW-37		4/21/2003	12.10	2.18
MW-37 MW-37		10/6/2003 4/2/2004	12.89 10.82	1.39 3.46
MW-37		7/13/2005	9.02	5.26
MW-37		2/7/2006	5.79	8.49
MW-37		7/10/2006	16.15	-1.87
MW-37		1/8/2007	4.50	9.78
MW-37 MW-37		7/16/2007 1/23/2008	10.32 5.90	3.96 8.38
MW-37		6/17/2008	12.38	1.90
MW-37		1/13/2009	5.55	8.73
MW-37		7/8/2009	15.27	-0.99
MW-37		1/26/2010	6.77	7.51
MW-37 MW-37	•	7/28/2010	8.82 7.13	5.46 7.15
		/2 /2011		
MW-37		1/21/2011 7/15/2011	11.94	2.34
MW-37		7/15/2011 1/23/2012	11.94 NR	
MW-37 MW-37		7/15/2011 1/23/2012 7/29/2015	11.94 NR 2.56	11.72
MW-37 MW-37 MW-37		7/15/2011 1/23/2012 7/29/2015 1/22/2016	11.94 NR 2.56 6.08	11.72 8.20
MW-37 MW-37 MW-37 MW-37		7/15/2011 1/23/2012 7/29/2015 1/22/2016 7/14/2016	11.94 NR 2.56 6.08 14.05	11.72 8.20 0.23
MW-37 MW-37 MW-37		7/15/2011 1/23/2012 7/29/2015 1/22/2016	11.94 NR 2.56 6.08	11.72 8.20
MW-37 MW-37 MW-37 MW-37 MW-37 MW-37 MW-37		7/15/2011 1/23/2012 7/29/2015 1/22/2016 7/14/2016 2/1/2017	11.94 NR 2.56 6.08 14.05 10.38	11.72 8.20 0.23 3.90
MW-37 MW-37 MW-37 MW-37 MW-37 MW-37 MW-37 MW-37		7/15/2011 1/23/2012 7/29/2015 1/22/2016 7/14/2016 2/1/2017 7/20/2017 2/8/2018 8/2/2018	11.94 NR 2.56 6.08 14.05 10.38 13.13 7.25 11.55	11.72 8.20 0.23 3.90 1.15 7.03 2.73
MW-37 MW-37 MW-37 MW-37 MW-37 MW-37 MW-37 MW-37 MW-37		7/15/2011 1/23/2012 7/29/2015 1/22/2016 7/14/2016 2/1/2017 7/20/2017 2/8/2018 8/2/2018 1/29/2019	11.94 NR 2.56 6.08 14.05 10.38 13.13 7.25 11.55 4.50	11.72 8.20 0.23 3.90 1.15 7.03 2.73 9.78
MW-37 MW-37 MW-37 MW-37 MW-37 MW-37 MW-37 MW-37 MW-37 MW-37		7/15/2011 1/23/2012 7/29/2015 1/22/2016 7/14/2016 2/1/2017 7/20/2017 2/8/2018 8/2/2018 1/29/2019 7/10/2019	11.94 NR 2.56 6.08 14.05 10.38 13.13 7.25 11.55 4.50 11.52	11.72 8.20 0.23 3.90 1.15 7.03 2.73 9.78 2.76
MW-37 MW-37 MW-37 MW-37 MW-37 MW-37 MW-37 MW-37 MW-37		7/15/2011 1/23/2012 7/29/2015 1/22/2016 7/14/2016 2/1/2017 7/20/2017 2/8/2018 8/2/2018 1/29/2019	11.94 NR 2.56 6.08 14.05 10.38 13.13 7.25 11.55 4.50	11.72 8.20 0.23 3.90 1.15 7.03 2.73 9.78

Well	Туре	Date	Water Depth	Water Elevation
MW-38	POC	7/2/2001	10.16	3.46
MW-38		10/1/2001	12.49	1.13
MW-38		1/16/2002	7.91	5.71
MW-38 MW-38		4/8/2002 7/3/2002	7.18	6.44
MW-38 MW-38		10/7/2002	9.71 9.34	3.91 4.28
MW-38		1/16/2003	5.00	8.62
MW-38		4/21/2003	11.25	2.37
MW-38		10/6/2003	5.55	8.07
MW-38		4/2/2004	10.19	3.43
MW-38 MW-38		7/13/2005 2/7/2006	8.47 5.59	5.15 8.03
MW-38		7/10/2006	15.25	-1.63
MW-38		1/8/2007	4.17	9.45
MW-38		7/16/2007	9.12	4.50
MW-38		1/23/2008	6.75	6.87
MW-38 MW-38		6/17/2008 1/13/2009	12.82 8.06	0.80 5.56
MW-38		7/8/2009	14.34	-0.72
MW-38		1/26/2010	6.27	7.35
MW-38		7/28/2010	8.43	5.19
MW-38		1/21/2011	6.53	7.09
MW-38		7/15/2011	10.85	2.77
MW-38 MW-38		1/24/2012 7/19/2012	5.53 10.58	8.09 3.04
MW-38		1/23/2013	6.85	6.77
MW-38		7/18/2013	13.00	0.62
MW-38		1/31/2014	9.33	4.29
MW-38		7/28/2014	13.86	-0.24
MW-38		2/9/2015	2.82	10.80
MW-38 MW-38		7/28/2015 1/22/2016	13.26 5.78	0.36 7.84
MW-38		7/14/2016	12.23	1.39
MW-38		2/1/2017	11.13	2.49
MW-38		7/20/2017	13.02	0.60
MW-38		2/9/2018	5.99	7.63
MW-38 MW-38		7/20/2017 2/9/2018	13.02 5.99	0.60
				7.63
MW-38 MW-38		8/2/2018 1/29/2019	12.06 5.30	1.56 8.32
MW-38		7/10/2019	8.33	5.29
MW-38		2/5/2020	5.33	8.29
MW-38		7/23/2020	12.75	0.87
MW-39	POC	7/2/2001	6.91	6.99
MW-39		10/1/2001	9.02	4.88
MW-39		1/16/2002	6.69	7.21
MW-39		4/8/2002	7.48	6.42
MW-39 MW-39		7/3/2002 10/7/2002	8.72 9.90	5.18 4.00
MW-39		1/16/2002	6.31	7.59
MW-39		4/21/2003	7.85	6.05
MW-39		10/6/2003	10.44	3.46
MW-39		4/2/2004	8.34	5.56
MW-39		7/13/2005	8.46	5.44
MW-39 MW-39		2/7/2006 7/10/2006	5.91 9.67	7.99 4.23
MW-39		1/8/2007	5.02	8.88
MW-39		7/16/2007	7.49	6.41
MW-39		1/23/2008	7.47	6.43
MW-39		6/17/2008	8.63	5.27
MW-39				7.82
MW-39		1/13/2009	6.08	
		7/8/2009	10.35	3.55
MW-39				
MW-39 MW-39 MW-39		7/8/2009 1/26/2010 7/28/2010 1/21/2011	10.35 5.13	3.55 8.77
MW-39 MW-39 MW-39 MW-39		7/8/2009 1/26/2010 7/28/2010 1/21/2011 7/15/2011	10.35 5.13 8.05 5.00 7.43	3.55 8.77 5.85 8.90 6.47
MW-39 MW-39 MW-39 MW-39 MW-39		7/8/2009 1/26/2010 7/28/2010 1/21/2011 7/15/2011 1/24/2012	10.35 5.13 8.05 5.00 7.43 5.23	3.55 8.77 5.85 8.90 6.47 8.67
MW-39 MW-39 MW-39 MW-39 MW-39 MW-39		7/8/2009 1/26/2010 7/28/2010 1/21/2011 7/15/2011 1/24/2012 7/19/2012	10.35 5.13 8.05 5.00 7.43 5.23 10.28	3.55 8.77 5.85 8.90 6.47 8.67 3.62
MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39		7/8/2009 1/26/2010 7/28/2010 1/21/2011 7/15/2011 1/24/2012	10.35 5.13 8.05 5.00 7.43 5.23	3.55 8.77 5.85 8.90 6.47 8.67
MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39		7/8/2009 1/26/2010 7/28/2010 1/21/2011 7/15/2011 1/24/2012 7/19/2012 1/23/2013	10.35 5.13 8.05 5.00 7.43 5.23 10.28 6.85	3.55 8.77 5.85 8.90 6.47 8.67 3.62 7.05
MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39		7/8/2009 1/26/2010 7/28/2010 1/21/2011 7/15/2011 1/24/2012 7/19/2012 1/23/2013 7/18/2013	10.35 5.13 8.05 5.00 7.43 5.23 10.28 6.85 NR	3.55 8.77 5.85 8.90 6.47 8.67 3.62 7.05
MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39		7/8/2009 1/26/2010 7/28/2010 1/21/2011 7/15/2011 1/24/2012 7/19/2012 1/23/2013 7/18/2013 1/31/2014	10.35 5.13 8.05 5.00 7.43 5.23 10.28 6.85 NR NR	3.55 8.77 5.85 8.90 6.47 8.67 3.62 7.05
MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39R		7/8/2009 1/26/2010 7/28/2010 1/21/2011 7/15/2011 1/24/2012 7/19/2012 1/23/2013 7/18/2013 1/31/2014 7/25/2014 7/28/2015 1/19/2016	10.35 5.13 8.05 5.00 7.43 5.23 10.28 6.85 NR NR NR NR NR NR NR NR NR	3.55 8.77 5.85 8.90 6.47 8.67 3.62 7.05 No TOC Survey No TOC Survey
MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39R		7/8/2009 1/26/2010 7/28/2010 1/21/2011 7/15/2011 1/24/2012 1/23/2013 7/18/2013 1/31/2014 7/25/2014 7/28/2015 1/19/2016 7/15/2016	10.35 5.13 8.05 5.00 7.43 5.23 10.28 6.85 NR NR NR NR 12.68 9.23 11.79	3.55 8.77 5.85 8.90 6.47 8.67 3.62 7.05 No TOC Survey No TOC Survey No TOC Survey
MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39R MW-39R		7/8/2009 1/26/2010 7/28/2010 1/21/2011 7/15/2011 1/24/2012 7/19/2012 1/23/2013 7/18/2013 1/31/2014 7/28/2015 1/19/2016 2/1/2017	10.35 5.13 8.05 5.00 7.43 5.23 10.28 6.85 NR NR NR NR NR 12.68 9.23 11.79 8.44	3.55 8.77 5.85 8.90 6.47 8.67 3.62 7.05 No TOC Survey No TOC Survey No TOC Survey No TOC Survey
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MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39R MW-39R MW-39R MW-39R MW-39R		7/8/2009 1/26/2010 7/28/2010 1/21/2011 7/15/2011 1/24/2012 1/23/2013 7/18/2013 1/31/2014 7/25/2014 7/28/2015 1/19/2016 7/15/2016 2/1/2017 7/20/2017 2/8/2018	10.35 5.13 8.05 5.00 7.43 5.23 10.28 6.85 NR NR NR NR NR NR NR NR 12.68 9.23 11.79 8.44 12.41 7.68	3.55 8.77 5.85 8.90 6.47 8.67 3.62 7.05 No TOC Survey No TOC Survey No TOC Survey No TOC Survey No TOC Survey No TOC Survey
MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39R MW-39R MW-39R MW-39R MW-39R MW-39R		7/8/2009 1/26/2010 7/28/2010 1/21/2011 7/15/2011 1/24/2012 1/23/2013 7/18/2013 1/31/2014 7/25/2014 7/28/2015 1/19/2016 7/15/2016 2/1/2017 7/20/2017 7/28/2018	10.35 5.13 8.05 5.00 7.43 5.23 10.28 6.85 NR NR NR NR 12.68 9.23 11.79 8.44 12.41 7.68 10.60	3.55 8.77 5.85 8.90 6.47 8.67 3.62 7.05 No TOC Survey No TOC Survey
MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39R MW-39R MW-39R MW-39R MW-39R MW-39R MW-39R MW-39R		7/8/2009 1/26/2010 7/28/2010 1/21/2011 7/15/2011 1/24/2012 1/23/2013 7/18/2013 1/31/2014 7/25/2014 7/28/2015 1/19/2016 7/15/2016 2/1/2017 7/20/2017 2/8/2018	10.35 5.13 8.05 5.00 7.43 5.23 10.28 6.85 NR NR NR NR NR NR NR NR 12.68 9.23 11.79 8.44 12.41 7.68	3.55 8.77 5.85 8.90 6.47 8.67 3.62 7.05
MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-39 MW-398 MW-39R MW-39R MW-39R MW-39R MW-39R MW-39R		7/8/2009 1/26/2010 7/28/2010 1/21/2011 7/15/2011 1/24/2012 7/19/2012 1/23/2013 7/18/2013 1/31/2014 7/28/2015 1/19/2016 2/1/2017 7/20/2017 2/8/2018 1/29/2019	10.35 5.13 8.05 5.00 7.43 5.23 10.28 6.85 NR NR NR NR 12.68 9.23 11.79 8.44 12.41 7.68 10.60 5.90	3.55 8.77 5.85 8.90 6.47 8.67 3.62 7.05 No TOC Survey No TOC Survey

Well	Туре	Date	Water Depth	Water Elevation
MW-40	BGM	7/19/2005	14.86	-0.65
MW-40		2/7/2006	7.75	6.46
MW-40		7/10/2006	9.84	4.37
MW-40		1/8/2007	6.38	7.83
MW-40		7/16/2007	15.23	-1.02
MW-40		1/23/2008	8.01	6.20
		Decommissi	oned 2/08	
MW-41	BGM	7/19/2005	16.40	-2.01
MW-41		2/7/2006	7.98	6.42
MW-41		7/10/2006	9.68	4.72
MW-41		1/8/2007	6.83	7.57
MW-41		7/16/2007	14.71	-0.32
		Decommissioned 2/08		
MW-42	BGM	7/19/2005	1.25	16.04
MW-42		2/7/2006	1.84	15.45
MW-42		7/10/2006	3.80	13.49
MW-42		1/8/2007	1.52	15.77
MW-42		7/16/2007	3.24	14.49
MW-42		1/23/2008	1.40	15.89
		Decommissi		

NOTES:

NR = no reading, well decommissioned, damaged, or not located

S = shallow well (all others are in deep aquifer)

INT = Interior, well located in interior of site

BG =Upgradient background well BGM= background metals well POC = deep aquifer point of compliance monitoring well

Attachment 5 Excerpts from December 2006 HWA MW-37 Chloride Investigation Everett Landfill

