REPORT

QUARTERLY MONITORING REPORT
FOURTH QUARTER 2025
RESERVE SILICA RECLAMATION SITE

Ecology Facility Site No. 2041/Cleanup Site No 4728
28131 Ravensdale-Black Diamond Road
Ravensdale, Washington 98051

Submitted to:

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1.0 INTRODUCTION

This report, prepared by WSP USA Inc. (WSP) for Amrize Cement Inc. (Amrize), presents the results of surface water and groundwater monitoring conducted at the Reserve Silica Reclamation Site (Site) during the fourth quarter of 2025. The Site is located at 26000 Black Diamond Ravensdale Road in Ravensdale, Washington. The Site location is shown in Figure 1.

A Model Toxics Control Act (MTCA) Remedial Investigation/Feasibility Study (RI/FS) is being conducted at the Site under Agreed Order (AO) No. DE 16052. A Remedial Investigation/Feasibility Study Work Plan, Reserve Silica Reclamation Site, Ravensdale, Washington dated July 22, 2021 (RI/FS Work Plan), supporting Sampling and Analysis Plan (SAP), and Quality Assurance Project Plan (QAPP) (Golder 2021) describe the RI monitoring requirements and sampling procedures. The RI field sampling and testing were conducted from 2019 to 2024. The final RI report was issued on June 30, 2025 (WSP 2025). Groundwater and surface water monitoring at the Site during the fourth quarter of 2025 was conducted in accordance with the RI/FS Work Plan and supporting documents. Historical groundwater and surface water monitoring activities at the Site were conducted under the requirements of Post-Closure Care and Maintenance Permits issued by Public Health – Seattle and King County (Public Health). The fourth quarter monitoring event was conducted in December 2025.

2.0 BACKGROUND

2.1 Site Background

The following briefly describes the historical mining and reclamation activities that occurred at the Site and includes a discussion of the quarterly monitoring program.

2.1.1 Lower Disposal Area Background

The Lower Disposal Area (LDA) is a former open pit sand mine that was reclaimed by placing cement kiln dust (CKD) and other material into the mine excavation from June 1979 to October 1982. The LDA was filled with approximately 175,000 tons of CKD. Records indicate that a cap consisting of clay and up to 7 feet of overburden material from sand mining operations was placed over the CKD.

Historically, high pH seepage surfaced along the slope west of the LDA. The outbreaks are primarily located along the northern half of the western boundary of the LDA and records as early as 1987 indicate a leachate collection system was implemented for the LDA seepage. The leachate drained through low-lying, marshy areas and commingled with stormwater before flowing to the three Infiltration Ponds (the Infiltration Ponds as shown in Figure 2) near the Black Diamond Ravensdale Road (ARCADIS 2004). In 2013, a new seepage collection ditch was installed to intercept and collect the seepage (see Section 2.2.3 of this report), which then flowed inside a pipe to the Infiltration Ponds. In 2018, a seepage treatment system was constructed, and the high-pH water captured by the collection ditch is currently piped to the on-site treatment area for pH neutralization and dissolved metals removal. The treated water discharges from the treatment system to the Infiltration Ponds.

2.1.2 Dale Strip Pit Background

The Dale Strip Pit (DSP) was created to mine the Dale No. 4 coal seam from the surface starting in 1946. Prior to 1946, the coal seam was worked from an underground mine. The underground mining chutes were driven upward to the surface to provide ventilation and allow the transportation of timbers into the mine. Construction of the mine allowed groundwater to drain by gravity to the mine portal (Portal). The Portal has since collapsed, and now a pipe in the collapsed Portal allows water to continuously drain from the mine under a Washington State

Department of Ecology (Ecology) Sand and Gravel General Permit (Ecology 2005) with monitoring as described below. The Portal is located north of the LDA on the east side of the main haul road.

The DSP was approximately 1,800 feet long (north to south), an average of 140 feet wide (east to west), and an average of 40 feet deep. It was filled in the 1970s and 1980s with approximately 250,000 cubic yards of material, including CKD, borrow, and other materials, pursuant to a permit from Public Health. It is estimated that about one-third of the DSP was filled with CKD (ARCADIS 2004).

2.2 Interim Remedial Actions

2.2.1 LDA Cover Upgrade

During September and October 2007, the existing soil cover on the LDA was regraded to provide positive drainage at all locations, reduce overly steep slope areas, and place a minimum 2-foot-thick, clean soil cover over the entire area, including locations where CKD was exposed at the surface. The construction activities are described in the *Construction Summary Report, Lower Disposal Area Cover Upgrade, Reserve Silica Site, Reserve Silica Site, Ravensdale, Washington* dated July 25, 2008 (Golder 2008a).

2.2.2 LDA Seep Collection System Test Trenches

During September and October 2008, test trenches for collecting high pH seepage were constructed (Golder 2008b). The purpose of this test system was to evaluate the feasibility of using a more extensive trench system to collect high-pH seepage that would otherwise discharge at the ground surface adjacent to the LDA. Details of the test trench construction are presented in the *Construction Summary Report, Seep Collection System Test Trenches, Reserve Silica Site, Ravensdale, Washington* dated March 6, 2009 (Golder 2009a).

Between October 2008 and September 2009, Golder monitored seepage flow rates from each of the two test trenches and the pipeline discharge once per month, on average. A summary of activities and results of this monitoring program is presented in the *Flow Monitoring Seep Collection System Test Trenches, Reserve Silica Site, Lower Disposal Area, Ravensdale, Washington* dated December 2009 (Golder 2009b).

2.2.3 LDA Seep Collection Ditch and Seepage Treatment System

In February 2013, a surface water collection ditch and concrete catch basin were constructed on the bench below the main access road on the west side of the LDA. This system was installed to capture leachate seeps emerging from the bank along the east side of the bench (west of the main access road) and direct them into the existing pipeline that carries flow from the test trenches to the Infiltration Ponds. In April 2015, the 4-inch-diameter pipeline from the catch basin to the Infiltration Ponds, approximately 1,000 feet in length, was replaced with a 12-inch-diameter pipeline to alleviate plugging issues.

In December 2017, the seepage collection trench was further extended approximately 100 feet to the north to collect additional seepage that was not previously captured. Seepage water was then redirected into a seepage treatment system, which completed construction and started initial operations on September 28, 2018. The treatment system uses carbon dioxide (CO_2) sparging to neutralize pH levels and arsenic and lead adsorption using an iron-based adsorption media.

During the initial year of operation, the system operated intermittently, with system shutdowns occurring as various upgrades and modifications were completed to increase the long-term operational efficiency of the treatment system. The system began continuously operating in June 2019, with only minor shutdowns occurring to complete routine maintenance.

2.2.4 LDA Interceptor Trench

In September 2013, a gravel-filled interceptor trench that included a perforated drainpipe and vertical downgradient liner was installed south of the LDA to intercept clean groundwater moving in a northerly direction prior to encountering the CKD in the LDA.

2.2.5 DSP Cover Upgrade

Cover upgrade activities began at the DSP in November 2010 and were completed in July 2011. Cover upgrade activities included stripping surficial vegetation and topsoil, regrading the existing surface to establish positive drainage, placing low permeability soil to provide a minimum 2-foot-thick layer at all locations, filling the existing ditch along the northeast side of the DSP, replacing topsoil, and revegetating the cover surface.

3.0 MONITORING PROGRAM

The purpose of the quarterly monitoring activities performed in the fourth quarter of 2025 is to assess the groundwater and surface water conditions with respect to potential impact from the CKD placed in the LDA and the DSP. Groundwater and surface water monitoring for the fourth quarter of 2025 were performed in accordance with the Post Closure Care and Maintenance permit SW-PR-0021065 issued by Public Health, and the RI/FS Work Plan (Golder 2021).

3.1 LDA Sampling Locations

The LDA groundwater and surface water sampling locations are shown in Figure 2. Monitoring well construction details are provided in Table 1. Shallow monitoring wells were installed near the LDA in July 2005 and are monitored to assess the shallow groundwater conditions with respect to potential impact from the CKD. Four of the wells (MW-1A, MW-2A, MW-5A, and MW-6A) are located around the Infiltration Ponds. MW-3A is located west of the high-pH seepage area. MW-4A, a well used to monitor background conditions, is located south and upgradient with respect to groundwater flow and surface water drainage of the high-pH seepage area. The Still Well is a 2-inch-diameter flush-mount well located within the high-pH seepage zone west of the LDA.

The following groundwater monitoring wells were installed in September 2021 to evaluate groundwater quality in and downgradient of the LDA as part of the RI:

- MW-7A and MW-8A were installed west and southwest of the Infiltration Ponds to evaluate groundwater gradients and groundwater quality.
- MW-9A and MW-10A are located west of the high-pH seepage area and the South Pond, near the western property boundary to evaluate groundwater gradients and groundwater quality.

The LDA surface water sampling locations evaluate the high-pH seepage that occurs west of the LDA:

- The South Pond is a closed depression located west of the high-pH seepage area.
- The Weir is located north of the access road to monitoring well MW-3A, immediately below the discharge point from the wetlands. If no flow is observed at the Weir, the constructed wetlands upstream are the alternative sampling location.
- The Infiltration Ponds are located at the north end of the Site near Ravensdale-Black Diamond Road and receive treated water from the on-site seepage treatment system. The surface sample is collected from the southwest area of the Infiltration Ponds.

In 2006, bedrock monitoring wells were installed along the west side of the main access road, west of the LDA. The bedrock wells were installed to assess groundwater conditions in the bedrock immediately downgradient of the LDA. MWB-1LDA is located near the northern tip of the LDA, MWB-2LDA is located near the center of the LDA, and MWB-3 LDA is located near the southern end of the LDA. In accordance with the RI/FS Work Plan, field parameters are monitored in the LDA bedrock monitoring wells semi-annually during first and third quarter monitoring events, and the wells are sampled annually during the first quarter monitoring event. Therefore, the LDA bedrock monitoring wells were not included in the fourth quarter 2025 monitoring.

3.2 DSP Sampling Locations

The DSP groundwater monitoring locations are shown in Figure 2. The DSP bedrock groundwater monitoring program includes four wells in the DSP area (MWB-1SDSP, MWB-1DDSP, MWB-5DSP, and MWB-6DSP), which evaluate groundwater quality beneath, upgradient, and downgradient of the DSP. Field parameters of groundwater discharging from the Portal are monitored semi-annually, and the Portal is sampled annually. The Portal was originally constructed to drain water from the Dale Strip Coal mine. Field parameters are monitored in the DSP bedrock monitoring wells semi-annually during first and third quarter monitoring events, and the wells are sampled annually during the first quarter monitoring event in accordance with the RI/FS Work Plan. There are two additional monitoring wells (MWB-2DSP and MWB-4SDSP) near the DSP area that are monitored semi-annually during the first and third quarter monitoring events for groundwater levels and field parameters only. Therefore, the DSP bedrock monitoring wells were not included in the fourth quarter 2025 monitoring.

3.3 LDA Interceptor Trench

The purpose of the Interceptor Trench is to intercept clean shallow groundwater from the southern and southeast end of the LDA. The interceptor trench is approximately 220 feet and 20 feet; and it is filled with gravel with a perforated drainage pipe at the bottom that discharges from the hillside to the south of the LDA. Monitoring is performed at the Interceptor Trench outfall for flow, pH, turbidity, and total dissolved solids. The purpose of the monitoring is to ensure that the trench is not collecting impacted groundwater.

4.0 SAMPLING ACTIVITIES

The following section summarizes the activities associated with the current monitoring event.

4.1 Procedures

4.1.1 Groundwater Level and Field Parameter Measurements

Groundwater elevations were measured at all shallow monitoring wells at the Site during the period of December 17 to 19 and 31, 2025, and are summarized in Table 1. Groundwater elevation contour maps are provided in Figure 3.

Field parameters for groundwater and surface water were measured as part of the sampling activities described in the following sections. These measurements were performed with the following equipment:

- YSI ProDSS multimeter with pH, oxidation-reduction potential (ORP), conductivity, dissolved oxygen (DO), and temperature probes.
- Hach 2100Q Turbidimeter.

4.1.2 Laboratory Analysis

Laboratory analyses were performed on samples collected from the various locations described in the following sections. Although the analytic parameters varied between the types of samples, the following elements are common to all the sampling and analysis activities:

- The collected samples were transported to the laboratory within appropriate sample hold times following chain-of-custody protocols.
- The testing was performed by Analytical Resources, LLC of Tukwila, Washington.
- All samples were tested for the following parameters using the methods indicated:

Antimony	EPA Method 200.8
Arsenic	EPA Method 200.8
Lead	EPA Method 200.8
Potassium	EPA Method 6010D
Vanadium	EPA Method 200.8
Total Dissolved Solids (TDS)	SM 2540 C

- Interceptor Trench samples are tested for the following parameters using the method indicated:

pH	Field Measurement
TDS	SM 2540 C
Turbidity	Field Measurement

- Summaries of historical analytic data for the various sampling locations are presented in Appendix A. The data validation report and the laboratory analytical data packages are provided in Appendix C. Sampling Integrity Data Sheets (SIDS) are provided in Appendix D.

4.1.3 LDA Groundwater Sampling

WSP sampled groundwater from shallow groundwater monitoring wells outside of the LDA (MW-1A, MW-2A, MW-3A, MW-4A, MW-5A, MW-6A, MW-7A, MW-8A, MW-9A, MW-10A, and Still Well) during the period of December 17 to 19, and 31, 2025. The following methods and procedures were used to collect groundwater samples:

- Depth to groundwater was measured in the wells prior to purging and sampling.
- Groundwater from monitoring wells MW-1A, MW-2A, MW-3A, MW-4A, MW-5A, MW-6A, MW-7A, MW-8A, MW-9A, and MW-10A was purged at a rate between approximately 100 and 500 milliliters (mL) per minute using a dedicated bladder pump or dedicated tubing connected to a peristaltic pump (if groundwater elevation allowed).
- Field parameters, including pH, conductivity, temperature, DO, ORP, and turbidity, were measured and recorded during purging at approximately five-minute intervals until parameters stabilized.
- Groundwater samples were collected directly from the dedicated sample tubing once the field parameters stabilized.

- A duplicate sample was collected from monitoring well MW-2A (labeled as MW-45A) for quality control purposes.
- Laboratory-provided containers were used to collect the samples. One 500-mL bottle preserved with nitric acid and one unpreserved 1-Liter (L) bottle were collected for each groundwater sample. The samples were then labeled and placed in a cooler with ice.
- The pH of the groundwater in some of the wells is occasionally greater than 10. Sampling protocol requires that the preserved samples for dissolved metals analysis have a pH of less than 2. To meet this requirement, the pH of the LDA groundwater samples collected for metals analysis was checked at the time of sample receipt at the laboratory, and additional nitric acid was added until the pH was less than 2, if necessary.

All groundwater and quality control samples were analyzed for the parameters listed in Section 4.1.2. Field parameters and analytical data are presented in Table 2.

4.1.4 LDA Surface Water Sampling

WSP sampled the LDA surface water location on December 17, 2025 at the South Pond and Weir surface water monitoring locations. WSP collected a sample from the Infiltration Ponds surface water monitoring location on December 18, 2025. The following methods and procedures were used to collect surface water samples:

- Field parameters, including pH, conductivity, temperature, DO, ORP, and turbidity, were measured and recorded. These parameters were measured and recorded at each of the surface water locations at the time of sample collection.
- Grab surface water samples were collected using dedicated sample tubing connected to a peristaltic pump.
- A duplicate sample was collected from the Infiltration Ponds (labeled as MW-35A) for quality control purposes.
- Laboratory-provided containers were used to collect the surface water samples. One 500-mL bottle preserved with nitric acid and one unpreserved 1-L bottle were collected for each surface water sample. The samples were labeled and placed in a cooler with ice.
- Sampling protocol requires that the preserved samples for dissolved metals analysis have a pH of less than 2. To meet this requirement, the pH of the LDA surface water samples collected for metals analysis was checked at the time of sample receipt at the laboratory, and additional nitric acid was added until the pH was less than 2, if necessary.

All surface water and quality control samples were analyzed for the parameters listed in Section 4.1.2. Field parameters and analytical data are presented in Table 2.

4.1.5 LDA Interceptor Trench Sampling

WSP sampled groundwater from the Interceptor Trench outfall on December 18, 2025. The following methods and procedures were used to collect the sample:

- Field pH, turbidity, and flow rate at the Interceptor Trench outfall were measured and recorded.
- Grab groundwater samples were collected from the Interceptor Trench by placing the sample bottles below the surface of the flowing water.

- Laboratory-provided containers were used to collect the sample for TDS lab analysis. One 1-L unpreserved bottle was collected. The sample was then labeled and placed in a cooler with ice.

The Interceptor Trench sample was analyzed for the parameters listed in Section 4.1.2. Field parameters and analytical data are presented in Table 3.

5.0 RESULTS

Analytical results from the December 2025 monitoring event are presented in Table 2. Table 3 presents the current and historical summary of the Interceptor Trench monitoring data. Historical analytical results summary tables for each sampling location are provided in Appendix A. Concentration trend graphs for pH, antimony, and arsenic in monitoring wells MW-3A, MW-4A, MW-5A, MW-6A, and MW-10A are provided in Appendix B. These concentrations have declined or stabilized due to the effectiveness of the seepage treatment system.

All analytical data were subject to a data validation review. Data validation was conducted in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (EPA 2020), the SAP, and the QAPP (Golder 2021). Data reporting qualifiers are included with the analytical results in Appendix C. The data validation review found that all the data was considered valid and usable. The data validation and raw analytical data packages provided by the laboratory are provided in Appendix C. Data collected during this sampling round will be combined with historical RI data to complete the evaluations and requirements of the RI/FS.

6.0 OPERATIONS AND MAINTENANCE OF THE SEEPAGE TREATMENT SYSTEM

The seepage treatment system began start-up operations in September 2018. The system operated intermittently from December 2018 to May 2019 as the system upgrades were completed during that time, which included various upgrades and modifications to improve the system's long-term operating efficiency. The system began continuous operations in June 2019, with minor shutdowns occurring to complete routine maintenance and continued minor modifications to improve long-term operating efficiency.

Ecology's Water Quality Program has indicated that discharges from the treatment system to the Infiltration Ponds should be regulated under an individual State Waste Discharge Permit (SWDP). Reserve Silica submitted an application to obtain a SWDP in December 2024. State Waste Discharge Permit No. ST0501373 was issued as a temporary permit effective February 14, 2025. Ecology anticipates finalizing the SWDP in 2026.

The treatment system includes a 4,200-gallon mixing tank (steel rectangular box-shaped tank) that receives the influent water coming from the seepage collection ditch and piping. Water from the tank constantly flows through the CO_2 sparge unit, which continuously monitors the pH of the water and activates CO_2 sparging when the water pH exceeds 8.5. CO_2 sparging continues until the pH reduces to 8. The sparged water is pumped back into the mixing tank to maintain the neutralized water within the tank. The influent flow, pumping from the tank and through the CO_2 sparge unit, and discharge from the sparge unit back into the tank are all specifically located in different areas of the mixing tank to provide constant circulation effectively providing pH neutralization throughout the tank. The mixing tank contains a float switch-activated discharge pump that activates when the water reaches a set height within the tank and turns the pump off when the water is lowered to the desired height. Neutralized water pumped from the tank is discharged through filters and an iron-based adsorption media to remove arsenic. The adsorption media used is BayOxide, a fine granular iron media, which can reduce arsenic concentrations by more than 90% of the initial arsenic concentration. Arsenic has a high affinity to adsorb onto iron following

neutralization of the pH. The BayOxide fine-grained iron medium provides significant surface area for adsorption to occur. The treated water is then discharged to the Infiltration Ponds.

The continuous pH monitoring system is connected to telemetry that sends pH readings and alerts to WSP engineers' cell phones if readings outside of the set ranges occur, allowing for response and troubleshooting. Routine inspections of the treatment system are conducted approximately once every two weeks. The inspections include routine maintenance activities such as cleaning scale off pump parts, hoses, and probes to sustain continued operations of the treatment system. The treatment system has been effective in reducing the pH of the seepage water to below 8 standard units and reducing metals concentrations before discharge to the Infiltration Ponds. Typical maintenance downtime of less than 1 day occasionally occurs. Optimization of the metals adsorption system continues, as calcium carbonate clogging of the adsorption system frequently arises. Table 4 provides the fourth quarter 2025 laboratory analytical data for samples collected: before the pH treatment tank (influent), pre-iron-based adsorption media, and post-iron-based adsorption media. The laboratory analytical report is provided in Appendix C.

The treatment system has been effective in reducing the impacts to groundwater in the immediate vicinity of the Infiltration Ponds that were historically observed in groundwater monitoring wells MW-5A and MW-6A. Additional modifications and improvements are anticipated to occur to the treatment system during the MTCA cleanup process to improve system performance and efficiency and achieve Site-specific cleanup standards that are protective of human health and the environment.

7.0 LIMITATIONS

WSP prepared this report for the exclusive use of Amrize and their authorized agents. It may also be submitted to regulatory agencies.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood. This report was prepared, in part, based on previous investigations and data collected by others. WSP USA Inc. is not responsible for any data that were inaccurately reported by others and reproduced here.

8.0 REFERENCES

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Tables

Table 1: Fourth Quarter 2025 Water Level Measurements

Sample Area	Sample Location ID	Date Measured	Well Data				Water Levels		
			Total Well Depth (feet bgs)	Screened Interval (feet bgs)	Bentonite Seal (feet bgs)	Casing Diameter (inches)	TOC Elevation (feet NAVD88)	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)
LDA - Shallow Groundwater	MW-1A	18-Dec-25	44	28-43	2-26	2	613.44	19.13	594.31
	MW-2A	18-Dec-25	40	24-40	2-23	2	607.21	12.89	594.32
	MW-3A	17-Dec-25	20	4-20	2-4	2	689.11	4.60	684.51
	MW-4A	19-Dec-25	20	5-20	2-4	2	705.45	3.48	701.97
	MW-5A	18-Dec-25	40	25-40	2-23	2	611.23	16.92	594.31
	MW-6A	18-Dec-25	39	24-39	2-22	2	608.95	14.65	594.30
	MW-7A	31-Dec-25	20	10-20	2-7	2	592.69	1.96	590.73
	MW-8A	19-Dec-25	26	16-26	2-13	2	601.49	8.00	593.49
	MW-9A	19-Dec-25	13	8-13	2-5	2	697.29	2.60	694.69
	MW-10A	17-Dec-25	29	9-29	2-6	2	698.02	5.63	692.39

Notes:

-	Not measured or not available
feet bgs	Feet below ground surface
feet bmp	Feet below measuring point
feet NAVD88	Feet in NAVD88 datum
TOC	Top of casing

Table 2: Fourth Quarter 2025 Field Parameters and Analytical Data

Sample Area	Sample Location ID	Date Sampled	Field Parameters									Gen. Chem.	Metals (ug/L)				
			TOC Elevation (feet NAVD88)	Depth to Water (feet btoc)*	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony, Total	Arsenic, Total	Potassium, Total	Lead, Total	Vanadium, Total
Cleanup Level[a]			-	-	-	-	-	-	-	-	6.5-8.5	-	6	8	-	2.5	80
LDA - Shallow Groundwater	MW-1A	18-Dec-25	613.44	19.13	594.31	8.9	645.0	8.95	222.0	4.39	6.64	317	1.12	1.04	20,300	0.100 U	0.839
	MW-2A	18-Dec-25	607.21	12.89	594.32	9.3	605.0	8.30	207.0	4.89	6.79	356	3.17	1.59	56,900	0.100 J	0.870
	MW-2A Duplicate (MW-45A)	18-Dec-25	-	-	-	-	-	-	-	-	-	302	3.16	1.61	55,800	1.52 J	0.978
	MW-3A	17-Dec-25	689.11	4.60	684.51	9.6	372.9	1.08	-3.4	1.00	6.91	195	7.41	2.16	43,300	0.224	1.13
	MW-4A	19-Dec-25	705.45	3.48	701.97	9.6	508.0	5.24	223.9	3.61	6.46	235	0.150 U	0.201	881	0.100 U	1.35
	MW-5A	18-Dec-25	611.23	16.92	594.31	9.3	909.0	7.51	184.6	4.50	7.21	550	4.54	3.18	165,000	0.200 U	1.69
	MW-6A	18-Dec-25	608.95	14.65	594.30	9.5	795.0	7.48	182.6	4.82	7.03	485	3.55	1.05	133,000	0.229	0.632
	MW-7A	31-Dec-25	592.69	1.96	590.73	10.0	512.0	4.36	119.5	1.03	6.94	304	1.91	1.08	41,800	0.100 U	0.830
	MW-8A	19-Dec-25	601.49	8.00	593.49	9.9	812.0	6.40	215.9	11.80	6.96	468	4.06	4.85	134,000	0.200 U	3.43
	MW-9A	19-Dec-25	697.29	2.60	694.69	9.2	554.0	8.32	224.4	4.81	6.88	469	0.176 J	0.443	2,390	0.100 U	0.962
	MW-10A	17-Dec-25	698.02	5.63	692.39	9.9	183.4	9.56	129.5	2.64	6.55	134	0.150 U	0.458	848	0.100 U	0.889
	Still Well	17-Dec-25	-	-	-	10.7	4617.0	7.86	4.9	3.11	11.80	1810	16.9	30.9	426,000	20.8	3.02
LDA- Surface Water	South Pond	17-Dec-25	-	-	-	7.5	530.0	9.46	153.7	2.96	7.34	292	2.07	6.16	102,000	1.52	3.90
	Weir	17-Dec-25	-	-	-	8.6	519.0	9.02	143.4	2.41	7.11	322	6.52	3.80	60,600	0.147 J	1.20
	Infiltration Ponds	18-Dec-25	-	-	-	6.6	522.0	9.16	182.5	8.64	8.23	282	7.09	4.25	86,600	1.26	1.36
	Infiltration Ponds Duplicate (MW-35A)	18-Dec-25	-	-	-	-	-	-	-	-	-	305	6.64	4.11	94,000	1.16	1.29

Notes:

	Orange shaded values indicate parameter results above the Cleanup Level (CUL), except for pH, which could be above or below the CUL.
-	Not measured or not collected.
*	Depth to water (DTW) measurements for all shallow wells collected on the same day; date noted is sampling date.
a	CUL provided in Remedial Investigation Report (WSP 2025).
b	LDA and DSP bedrock wells are monitored semi-annually
J	Data validation code; estimated value.
U	Data validation code; not detected at the Reporting Limit (RL).
DRY	Location is dry. Unable to collect field parameters or samples.
°C	Degrees Celsius
ug/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
feet bmp	Feet below measuring point
feet NAVD88	Feet in NAVD88 datum
mg/L	Milligrams per liter
mV	Millivolts
NTU	Nephelometric Turbidity Unit
TOC	Top of casing inside PVC well

Table 3: Interceptor Trench Discharge Monitoring

Date Sampled	Time Sampled	Flow (gpm)	Field pH (standard units)	Turbidity (NTU)	Total Dissolved Solids (mg/L)
19-Oct-13	8:45	0.3	7.47	-	-
19-Nov-13	9:25	0.7	7.52	-	-
23-Dec-13	15:25	1.2	7.27	-	-
20-Jan-14	11:15	0.8	7.58	1	277
31-Mar-14	11:12	1	7.22	1.6	257
22-Apr-14	16:05	3.6	6.85	474	214
27-May-14	15:30	0.8	7.12	21.9	294
27-Jun-14	11:10	0.3	7.13	13.3	136
31-Jul-14	19:45	0.2	6.95	4.1	305
28-Aug-14	14:00	0.1	7.2	1.8	294
29-Sep-14	13:39	0.1	7.87	1.4	340
29-Oct-14	11:45	0.3	7.03	1.1	319
24-Nov-14	11:50	0.8	7.09	0.7	229
22-Dec-14	8:00	0.4	7.08	0.4	253
30-Jan-15[1]	10:10	1.1	7.09	0.7	270
4-May-15	9:30	0.31	7.54	2.05	290
4-Aug-15	12:20	0.06	7.61	1.51	268
3-Nov-15	13:15	0.8	7.38	36.9	320
8-Feb-16	10:40	1.9	7.23	9.29	279
2-May-16	16:00	0.5	7.77	22.5	431
22-Aug-16	11:00	0.08	7.78	3.34	302
1-Nov-16	11:40	2.4	8.16	96.3	345
2-Feb-17	9:25	4.5	7.61	0.85	514
30-May-17	15:45	4.5	7.33	4.04	324
18-Aug-17	8:50	0.1	7.57	34	300
28-Feb-18	10:16	2.22	7.02	37.9	381
2-May-18	11:45	1.18	7.46	2.89	339
22-Aug-18	10:00	0.13	7.32	19.3	287
7-Nov-18	14:40	0.33	7.24	3.05	342
13-Mar-19	11:31	1.43	7.61	19.4	313
9-May-19	10:30	0.88	7.77	8.9	394
26-Aug-19	18:15	0.42	7.25	26.4	361
14-Nov-19	13:30	0.42	7.05	34.5	447
13-Feb-20	12:35	1.58	6.95	1.76	306
13-Aug-20	12:00	0.21	7.32	20.8	339
10-Dec-20	12:22	3.8	7.7	228	691
4-Mar-21	12:20	3.5	7.23	116	584
10-Jun-21	13:10	0.2	7.02	6.31	360
15-Oct-21	13:55	0.2	7.08	31	382
7-Jan-22	11:58	9.2	7.43	6.23	288

Table 3: Interceptor Trench Discharge Monitoring

Date Sampled	Time Sampled	Flow (gpm)	Field pH (standard units)	Turbidity (NTU)	Total Dissolved Solids (mg/L)
17-Mar-22	15:25	3.5	11.75^	3.24	368
22-Jun-22	14:05	2.2	6.94	6.21	415
23-Sep-22	14:46	0.11	7.54	4.77	330
14-Dec-22	9:20	0.79	7.19	2.27	279
13-Mar-23	9:25	2.25	6.9	1.07	232
27-Jun-23	9:55	0.33	7.05	7.31	381
7-Sep-23	14:38	-	7.68	21.5	295
12-Dec-23	15:28	4.76	6.98	1.51	244
6-Mar-24	14:30	3.17	8.39	2.31	359
17-Jun-24	15:40	1.98	7.04	8.04	448
16-Sep-24	14:15	0.15	8.02	2.53	328
9-Dec-24	14:40	1.59	9.77	1.32	277
24-Mar-25	13:05	1.59	7.14	5.85	309
9-Jun-25	13:35	0.29	7.75	15.9	354
15-Sep-25	12:30	0.07	7.40	2.13	255
18-Dec-25	14:50	5.28	6.98	20.3	344

Notes:

-	Not measured or not available
^	pH values error, due to faulty pH probe.
gpm	Gallons per minute
mg/L	Milligrams per liter
NTU	Nephelometric Turbidity Unit

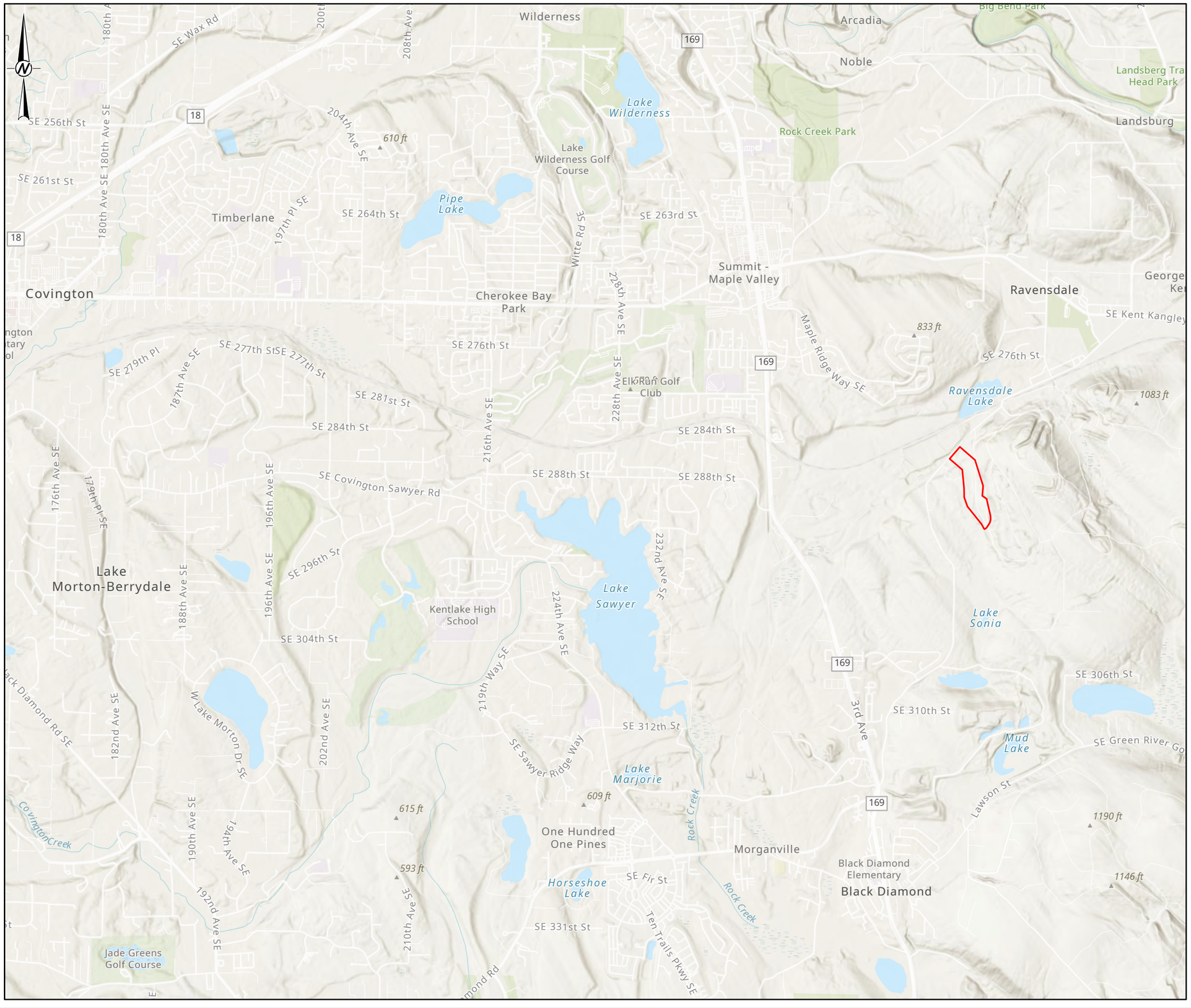
Table 4: Fourth Quarter 2025 Seepage Treatment System Metals Monitoring

Sample Location	Sample ID	Date Sampled	pH (standard units)	Total Antimony (ug/L)	Dissolved Antimony (ug/L)	Total Arsenic (ug/L)	Dissolved Arsenic (ug/L)	Total Lead (ug/L)	Dissolved Lead (ug/L)	Total Vanadium (ug/L)	Dissolved Vanadium (ug/L)
pH Tank Influent	Tank-Influent	19-Dec-25	12.40	18.2	18.5	18.3	7.43	42.5	20.8	3.18	3.41
pH Tank Effluent/Filter Media Influent	Sand-Effluent	19-Dec-25	8.85	19.3	18.7	19.7	19.0	17.3	0.954	3.13	3.51
Filter Media Effluent	As-Effluent	19-Dec-25	7.82	3.04	2.87	0.645	0.436	5.82	0.510	0.139 J	0.200 U

Notes:

J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD)
ug/L	Micrograms per liter

Figures



KEY MAP

LEGEND

REMEDIAL INVESTIGATION STUDY AREA

0 1,500 3,000 6,000

1" = 3,000 FEET FEET

REFERENCE(S)

1. ASPECT CONSULTING (PROPERTY BOUNDARY)
2. ESRI (WASHINGTON STATE COUNTY BOUNDARY)
3. COORDINATE SYSTEM: NAD 1983 STATEPLANE WASHINGTON NORTH FIPS 4601 FEET
4. MAP SERVICE LAYER CREDITS: WORLD TOPOGRAPHIC MAP: SOURCES: ESRI, TOMTOM, GARMIN, FAO, NOAA, USGS, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
WORLD STREET MAP: SOURCES: ESRI, TOMTOM, GARMIN, FAO, NOAA, USGS, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
WORLD HILLSHADE: ESRI, NASA, NGA, USGS, FEMA

CLIENT
AMRIZE

PROJECT
FOURTH QUARTER 2025 GROUNDWATER MONITORING
RAVENSDALE, WA

TITLE
SITE LOCATION MAP

CONSULTANT

wsp

YYYY-MM-DD	2026-04-23
DESIGNED	KAS
PREPARED	KAS
REVIEWED	DE
APPROVED	JM

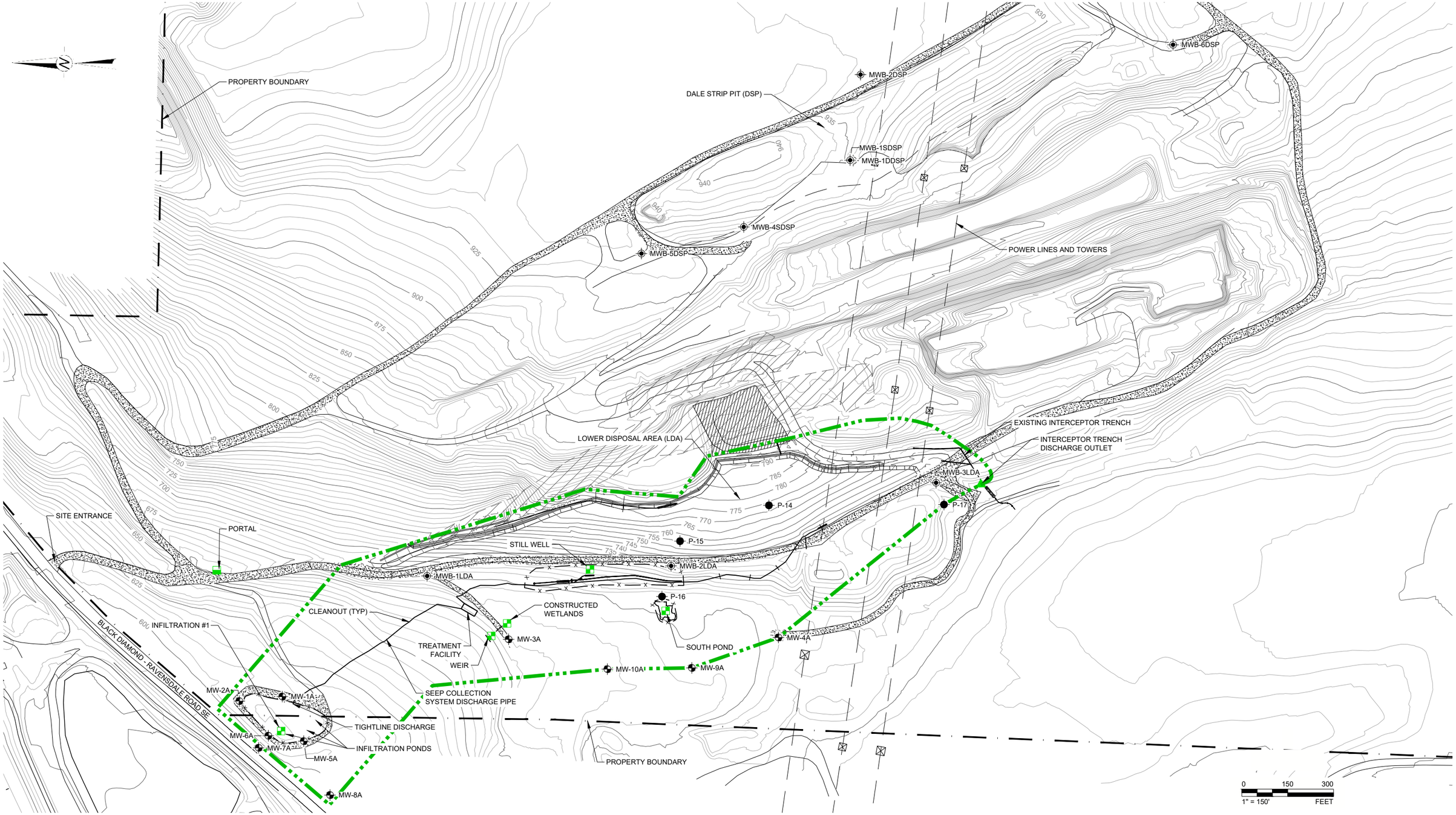
PROJECT NO.	TASK	REV.	FIGURE
31406578.0889	2000	A	1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: G:\HOL\MR\Ravensdale\dwg_PROJECTS\US-WSP-31406578.0889_FS\2000_Quarterly-GW\02_PRODUCTION\APRX\31406578.0889_2000_RevA_F1_Site_Location.aprx PRINTED ON: AT 8:51:42 AM



LEGEND

MW-1A	SHALLOW MONITORING WELL		LDA SURFACE WATER SAMPLING LOCATION
MWB-1DDSP	BEDROCK MONITORING WELL		DSP BEDROCK SAMPLING LOCATION (PORTAL)
P-14	LDA MONITORING WELL		INTERCEPTOR TRENCH SAMPLING LOCATION
		x — x	FENCE LINE
			REMEDIAL INVESTIGATION STUDY AREA

CLIENT
AMRIZE

CONSULTANT
wsp

YYYY-MM-DD	2026-04-23
DESIGNED	JR
PREPARED	TR
REVIEWED	DE
APPROVED	JM

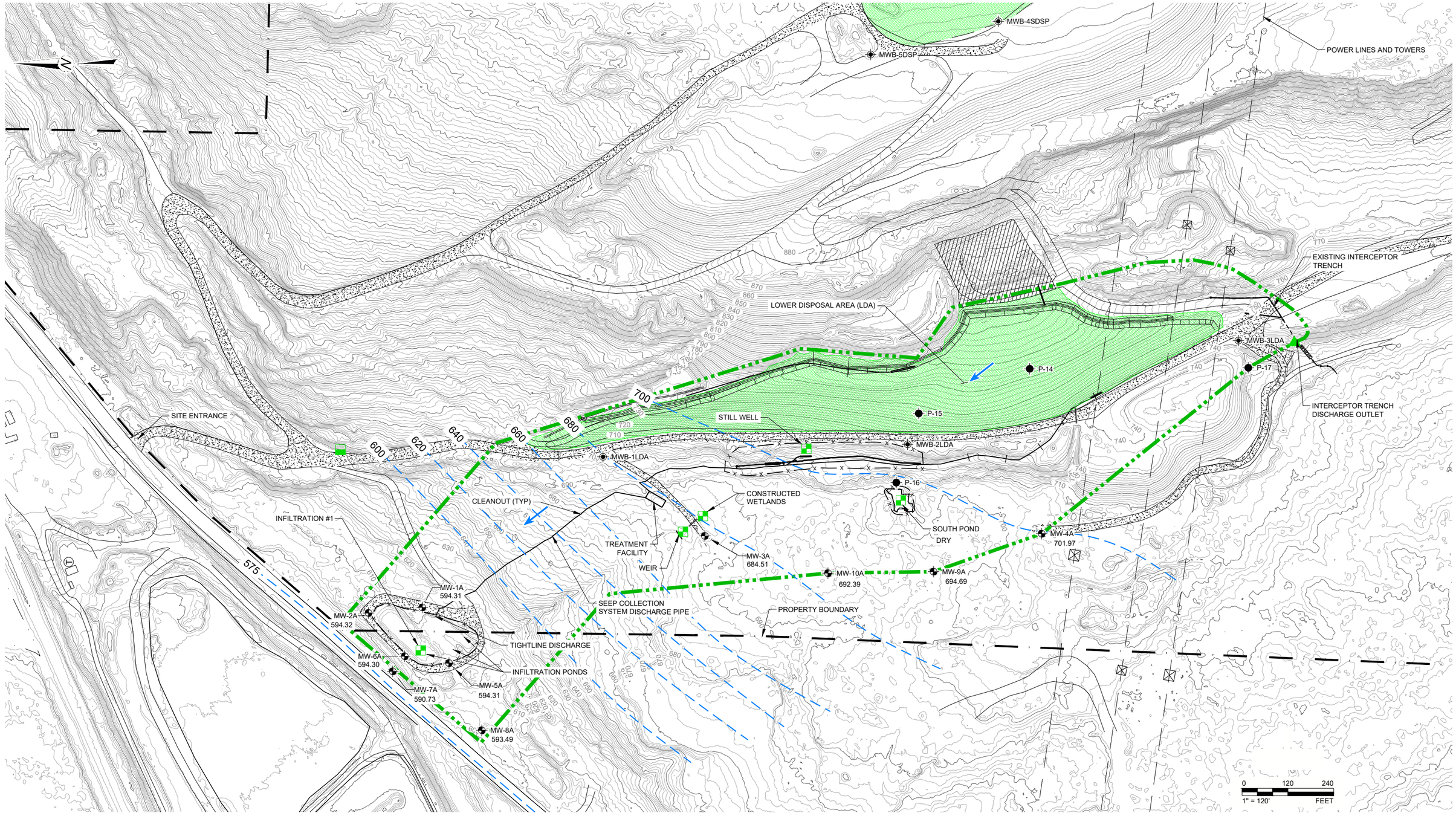
PROJECT
FOURTH QUARTER 2025 GROUNDWATER MONITORING
RAVENSDALE, WA

TITLE
MONITORING WELL AND SURFACE WATER SAMPLING LOCATIONS

PROJECT NO.	TASK	REV.	FIGURE
31406578.0889	2000	A	2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

0 1in



LEGEND

- COVER AREA
- MW-1A — SHALLOW MONITORING WELL
- MWB-1DDSP — BEDROCK MONITORING WELL
- P-14 — LDA MONITORING WELL
- LDA SURFACE WATER SAMPLING LOCATION
- DSP BEDROCK SAMPLING LOCATION (PORTAL)
- INTERCEPTOR TRENCH SAMPLING LOCATION
- CONCEPTUAL GROUNDWATER FLOW DIRECTION
- FENCE LINE
- REMEDIAL INVESTIGATION STUDY AREA

CLIENT
AMRIZE

CONSULTANT
wsp

YYYY-MM-DD	2026-04-23
DESIGNED	JR
PREPARED	TR
REVIEWED	DE
APPROVED	JM

PROJECT
FOURTH QUARTER 2025 GROUNDWATER MONITORING
RAVENSDALE, WA

TITLE
SHALLOW GROUNDWATER ELEVATIONS

PROJECT NO.	TASK	REV.	FIGURE
31406578.0889	2000	A	3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

0 1in

APPENDIX A

Summary Data Tables for Individual Wells and Monitoring Locations

Appendix A-1

SUMMARY OF LOWER DISPOSAL AREA – SURFACE WATER SAMPLING RESULTS

Table A-1a: Summary of Lower Disposal Area - Surface Water Sampling Results - Infiltration Ponds #1
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters						Gen-Chem	Metals (ug/L)				
	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[c]	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
1-Feb-05	8.17	1315	-	-	8.13	9.95	874	-	84.9	4.99	-	-
9-Mar-05	14.04	1183	-	-	23.00	9.59	960	-	96.2	3.92	-	-
5-Apr-05	11.00	1115	-	-	43.70	9.80	800	-	62.3	3.21	-	-
10-May-05	14.91	1275	-	-	564.00	9.83	844	-	76.5	5 U	-	-
7-Jun-05	15.11	1140	-	-	239.00	9.61	804	-	84.3	5 U	-	-
15-Jul-05[a]	23.56	1276	-	-	94.40	9.30	1100	-	92.5	4.14	-	-
15-Jul-05[b]	-	-	-	-	-	-	874	-	99.9	3.82	-	-
9-Aug-05[a]	19.05	1744	-	-	57.20	9.44	1000	-	123	5.1	-	-
9-Aug-05[b]	-	-	-	-	-	-	1030	-	140	6.12	-	-
14-Sept-05[a]	13.59	1154	-	-	99.80	8.97	790	-	110	3.54	-	-
14-Sept-05[b]	-	-	-	-	-	-	806	-	118	5.18	-	-
5-Oct-05	14.82	970	-	-	82.70	8.98	736	-	89.3	2.83	-	-
9-Nov-05	8.43	1285	-	-	135.00	8.83	970	-	46	10 U	-	-
9-Dec-05	2.12	1361	-	-	14.20	9.71	980	-	64.6	3.11	-	-
19-Jan-06	6.66	728	7.96	-	64.70	10.13	470 J	-	40.7	2.29	-	-
16-Feb-06	2.63	624	9.75	30.3	25.20	8.54	530 J	-	13.3	1 U	-	-
15-Mar-06	7.16	639	11.61	236.8	23.10	9.22	530 J	-	22.5	1 U	-	-
7-Apr-06	11.91	1013	10.81	27.8	18.80	9.98	780	-	63.8	3.24	-	-
16-May-06	15.58	1160	7.58	50.6	16.50	9.57	950	-	77.9	2.49	-	-
23-Jun-06	18.63	1261	7.41	-	126.00	9.85	920	-	70.7	3.65	-	-
20-Jul-06	20.65	932	5.36	-35.1	279.00	8.94	980	-	108	3.48	-	-
22-Aug-06	15.65	860	7.64	86.5	218.00	9.22	760	-	116	3.84	-	-
26-Sep-06	21.86	903	8.98	-72.8	263.00	8.89	820	-	75.8	3.06	-	-
15-Nov-06	7.73	715	9.21	149.2	33.60	9.07	500	-	20.8	2.29	-	-
20-Dec-06	4.98	1082	9.05	86.3	9.29	9.78	680	-	51.3	2.67	-	-
24-Jan-07	2.12	1058	10.71	130.4	20.50	9.97	640 J	-	66.1	7.58	-	-
12-Feb-07	10.10	1218	12.40	-61.8	103.00	9.98	860	-	90.1	4.49	-	-
27-Mar-07	7.94	772	9.67	13.3	25.50	8.27	540 J	-	49.8	2.74	-	-
18-Apr-07	7.52	2418	9.23	84.4	58.10	11.73	1400	-	79.2	10.5	-	-
31-May-07	15.45	1879	6.47	-92.2	3.15	9.79	1300	-	165	8.11	-	-
20-Jun-07	24.18	1925	10.88	-52.1	251.00	10.24	1300 J	-	144	5.34	-	-
31-Jul-07	19.05	1418	5.97	-36.1	128.00	9.81	1200	-	140	7.23	-	-
29-Aug-07	18.00	1193	5.60	-35.4	158.00	9.29	1300 J	-	164	7.01	-	-
27-Sep-07	14.97	987	5.44	45.9	186.00	8.99	970	-	196	5.49	-	-
26-Oct-07	2.66	504	6.02	63.1	282.00	8.64	770 J	-	42.9	2.25	-	-
30-Nov-07	1.86	955	9.77	190.1	163.00	10.02	570	-	48.9	1.62	-	-
12-Dec-07	4.22	790	11.11	126.8	56.00	9.40	520	-	34.3	1.67	-	-
24-Jan-08	2.12	875	19.35	142.0	-	8.68	640	-	42.8	1.66	-	-
28-Feb-08	-	-	-	-	25.60	-	510	-	41.3	2.66	-	-
25-Mar-08	5.27	937	14.46	91.0	86.80	9.60	630	-	50.2	2.15	-	-
29-Apr-08	9.02	1079	10.56	190.8	61.30	9.87	670 J	-	66	2.87	-	-
20-May-08	15.42	1191	7.58	160.0	91.40	9.75	820	-	85.9	4.85	-	-
18-Jun-08	12.94	1124	9.62	167.3	76.90	9.65	810 J	-	77.6	3.67	-	-
26-Aug-08	15.95	880	3.75	53.5	490.00	8.00	650 J	-	76.9	1.64	144000	-
20-Nov-08	6.91	897	7.02	183.5	376.00	10.22	960	-	87.2	4.21	313000	-
12-Feb-09	1.29	-	13.72	-	10.20	10.52	800	-	118	5.84	271000	-
19-May-09	11.90	862	6.52	71.9	133.00	9.59	840 J	-	91.3	3.99	238000	-
18-Nov-09	5.70	852	6.61	185.9	68.00	9.88	490	-	40	4.4	160000	-
15-Dec-09	2.30	1162	8.22	460.1	63.30	9.97	640	-	71	7.2	220000	-
24-Mar-10	13.00	1299	5.83	408.2	13.00	10.48	1000	-	140	8.5	340000	-
17-Jun-10	12.00	947	4.45	332.1	33.60	10.56	540	-	62	6.2	220000	-

Table A-1a: Summary of Lower Disposal Area - Surface Water Sampling Results - Infiltration Ponds #1
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters						Gen-Chem	Metals (ug/L)				
	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[c]	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
22-Sep-10	15.60	1736	3.14	342.5	33.00	9.84	1300	-	130	21	360000	-
8-Dec-10	5.40	1382	7.73	371.1	12.10	10.75	870	-	100	12	300000	-
29-Mar-11	9.60	627	5.16	577.6	19.80	11.05	760 J	-	78	3.1	270000	-
21-Jun-11	21.00	1778	5.46	239.1	11.60	10.44	1700 J	-	78	11	340000	-
27-Sep-11	14.80	1382	3.98	239.8	33.40	9.58	1600	-	120	13	670000	-
14-Dec-11	3.10	1046	5.60	281.7	15.70	9.93	1100	-	87	14	330000	-
20-Mar-12	6.10	986	11.04	271.1	11.70	10.32	500	-	71	3.3	180000	-
19-Jun-12	14.80	862	7.83	352.2	38.80	9.57	500	-	64	3.7	180000	-
20-Sep-12	12.40	1961	1.81	419.0	10.30	9.43	4600 J	-	130	2.1	440000	-
19-Dec-12	4.10	1320	10.11	303.1	5.86	9.69	700	-	75	4.3	250000	-
25-Feb-13	7.10	1963	9.30	234.7	26.60	11.30	1000	-	90	6	370000	-
22-May-13	10.50	4380	7.72	411.7	202.00	12.56	1400	-	25	11	530000	-
21-Aug-13	20.10	12850	1.24	-2.3	18.20	12.18	3430	-	106	47.5	1180000	-
20-Nov-13	5.70	1198	8.03	131.9	22.20	10.23	704	-	41.3	6.2	260000	-
1-Apr-14	9.80	1708	9.77	136.4	8.79	12.26	832	-	24.1	3	317000	-
23-May-14	12.63	6574	8.63	120.8	-	12.61	2120	-	4.8	35.4	811000	-
13-Aug-14	18.99	3273	6.29	77.7	89.00	12.34	1660	-	71.4	6.3 J	548000	-
11-Nov-14	8.80	578	3.55	179.2	62.50	12.73	2000	-	56.7	20.4	739000	-
11-Feb-15	9.70	487	9.97	66.2	42.00	9.40	337	-	9.1	0.9	87700	-
4-May-15	14.30	4210	5.60	281.2	7.67	12.53	1670	-	35.3	7.4	589000	-
5-Aug-15	19.90	4890	5.14	18.8	89.80	11.79	3080	-	85.4	18.1	1150000	-
3-Nov-15	9.20	760	6.39	129.9	34.60	9.78	707	-	23.5	5.3	235000	-
9-Feb-16	10.20	-	10.29	100.3	8.01	12.78	1330	-	5.3	24.8	530000	-
2-May-16 [d]	-	-	-	-	-	-	2490	-	24	37 J-	996000	-
23-Aug-16	19.30	4250	3.95	386.5	46.30	11.76	2970	-	105	14.3	989000	-
1-Nov-16	11.70	229	9.26	185.2	48.90	10.33	508	-	12.6	0.792	164000	-
1-Feb-17	2.40	8890	10.78	26.1	3.17	13.36	2220	-	10.1	46.8	854000	-
30-May-17	14.70	6800	56.90	17.7	1.38	12.73	1720	-	1.75	31.6 J+	759000	-
17-Aug-17	18.10	5410	3.88	-19.5	14.90	11.93	3080	-	62.6	32.8	1150000	-
10-Nov-17	7.90	2016	7.72	64.4	30.70	12.00	1520	-	63	32.2	578000	-
27-Feb-18	5.70	5062	8.76	42.0	3.74	12.28	1620	-	15	54.6	678000	-
1-May-18	12.30	6620	5.25	-	1.94	12.73	2070	-	2.42	30.1 J+	745000	-
21-Aug-18	23.85	5058	2.95	106.0	5.62	11.64	3090	-	77.3	28.8	1200000	-
6-Nov-18	11.70	1078	3.50	-5.4	46.90	8.48	1180	-	6.03	5.44	359000 J+	-
13-Mar-19	3.90	331	8.08	183.7	29.10	10.72	455	-	11.9	2.21	185000	-
8-May-19	17.20	6113	6.38	6.4	6.17	12.39	2040	-	7.7	26.8	830000	-
26-Aug-19	24.22	4177	2.47	Note 1	7.21	9.12	2840	-	17.2 J	5.27 J	1020000	-
13-Nov-19	8.70	2523	1.61	-201.7	33.00	8.67	1930	-	32.5	4.44	726000	-
12-Feb-20	7.80	971	7.99	150.3	16.00	7.92	836	-	14.3	3.96	243000	-
12-Aug-20	18.30	3655	4.33	123.5	5.74	8.98	2570	-	20.8	2.59	988000	-
9-Dec-20	8.30	740	7.80	202.0	18.40	8.21	632	-	14.9	5.11	207000	-
3-Mar-21	8.30	1446	7.87	217.0	15.50	8.56	1310	-	35.3	6.11	509000	-
9-Jun-21	15.10	2963	4.88	174.9	4.37	8.79	2400	-	23.7	1.51	923000	-
13-Oct-21	9.30	2563	4.73	34.2	39.30	8.84	2610 J-	16.1	19.7	6.12	831000	3.11
5-Jan-22	1.20	510	9.85	236.4	14.00	8.01	679	6.32	12.1	6.31	226000	3.36
16-Mar-22	11.10	786	10.41	172.1	12.8	7.45	733	7.59	10.6	4.77	236000	1.82
23-Jun-22	14.90	1982	2.58	156.8	5.3	8.34	1650	8.5	10.2	3.44	549000	0.97
28-Sep-22	16.20	3251.00	7.06	-49.10	3.18	8.75	2730 J	24	5.88	1.11	1040000	0.516
5-Jan-23	8.80	1047.00	8.40	191.00	8.47	8.16	1560	18.8	26.7	2.49	567000	4.45
13-Mar-23	7.20	1831.00	11.21	177.80	31.80	8.29	1050	8.27	16.3	5.8	401000	4
28-Jun-23	19.90	3514.00	4.58	91.00	4.73	8.64	2270	8.82	8.35	1.37	879000	0.935 J

Table A-1a: Summary of Lower Disposal Area - Surface Water Sampling Results - Infiltration Ponds #1 Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters						Gen-Chem	Metals (ug/L)				
	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[c]	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
8-Sep-23	19.50	3882.00	2.26	48.50	14.50	8.96	2550 J-	10.2	11.5	3.91	929000	0.929
15-Dec-23	6.90	2395.00	9.94	163.00	3.19	8.49	1240	22.7	15.3	2.16	447000	3.31
4-Mar-24	6.80	1477.00	7.24	237.40	9.50	8.17	1370 J	13.3	21.8	2.86	471000	3.16
18-Jun-24	15.80	3495.00	10.86	173.00	4.69	8.41	1370 J	9.87	9.58	0.162 J	775000	0.716
16-Sep-24	17.40	2932.00	8.39	228.90	24.30	8.30	2080	14.4	16.3	15.6	708000	2.63
11-Dec-24	3.70	2497.00	7.95	153.90	7.10	8.50	1610	14.9	22.0	2.82	556000	2.14
26-Mar-25	16.60	1839.00	10.48	181.60	150.00	8.31	1250	12.6	17.3	23.4	457000	1.94
11-Jun-25	19.90	3272.00	7.09	61.10	3.75	8.24	2080	8.5	13.9	1.00 U	790000	0.70 J
16-Sep-25	23.50	3623.00	2.58	-406.90	20.90	8.49	2430	7.84	16.4	0.905 J	881000	0.74 J
18-Dec-25	6.60	522.00	9.16	182.50	8.64	8.23	282	7.09	4.25	1.26	86600	1.36

Notes:

1. Dissolved metals were analyzed at the Site until December 2020 (Q4 2020). Total metals were analyzed for Q4 2020 and will continue to be analyzed moving forward. Iron and manganese are not included in the COPCs at the Site and are not analyzed beginning in Q2 2021. Antimony and Vanadium were included as COPCs for surface water locations and shallow groundwater monitoring wells at the Site beginning in Q3 2021.

-	Not analyzed or not available
	Orange shaded values indicate parameter results above the Cleanup Level (CUL), except for pH, which could be above or below the CUL
a	North Creek Analytical, Inc.
b	Severn Trent Laboratories
c	CUL provided in Remedial Investigation Report (WSP 2025)
d	Field parameters for Infiltration Ponds #1 were inadvertently not collected during May 2016 sampling
U	Data validation code; not detected at the Reporting Limit (RL)
J	Data validation code; estimated value
J+	Data validation code; estimated value with positive bias
J-	Data validation code; estimated value with low bias
°C	Degrees Celsius
Note 1	ORP measurements not available due to faulty sensor.
ug/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter
mV	Millivolts
NTU	Nephelometric Turbidity Unit

Table A-1b: Summary of Lower Disposal Area - Surface Water Sampling Results - Weir Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters							Gen-Chem	Metals (ug/L)				
	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	pH (standard units)	Weir Flow Rate (gpm)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[c]	-	-	-	-	-	6.5-8.5	-	-	6	8	2.5	-	80
1-Feb-05	8.47	2205	-	-	6.24	10.23	-	1440	-	149	10.7	-	-
9-Mar-05	11.38	2054	-	-	7.80	10.15	2.64	1630	-	200	11.9	-	-
5-Apr-05	7.7	2169	-	-	7.99	10.42	10.00	1420	-	129	8.61	-	-
10-May-05	14.1	1912	-	-	562.00	9.87	25.00	1210	-	105	7.63	-	-
7-Jun-05	15.74	2588	-	-	11.60	10.03	6.82	1570	-	138	10.1	-	-
15-Jul-05[a]	20.38	3184	-	-	8.91	10.36	0.94	3200	-	192	9.98	-	-
15-Jul-05[b]	-	-	-	-	-	-	-	1990	-	189	10.8	-	-
9-Aug-05[a]	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	-	-
9-Aug-05[b]	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	-	-
14-Sept-05[a]	15.60	3792	-	-	14.50	9.92	0.07	2800	-	208	57.8	-	-
14-Sept-05[b]	-	-	-	-	-	-	-	2730	-	223	73.3	-	-
5-Oct-05	12.96	3237	-	-	4.99	9.89	0.32	2150	-	170	12.5	-	-
9-Nov-05	8.40	2545	-	-	13.80	9.64	7.50	1900	-	78.2	10 U	-	-
9-Dec-05	3.34	1377	-	-	8.03	10.43	5.00	1700	-	130	6.12	-	-
19-Jan-06	7.37	1424	7.92	-	12.20	10.61	7.50	1000 J	-	89.5	4.81	-	-
16-Feb-06	3.74	1680	12.19	*	14.60	10.78	7.50	1400 J	-	105	5.46	-	-
15-Mar-06	7.21	1634	12.61	194.4	7.44	10.63	5.28	1300 J	-	128	6.38	-	-
7-Apr-06	14.33	2055	8.54	55.3	9.21	10.84	3.17	1500	-	143	6.63	-	-
16-May-06	21.65	2474	6.09	11.6	9.37	10.69	0.83	2000	-	157	8.19	-	-
23-Jun-06	24.58	2820	6.66	-	15.40	11.64	0.63	1400	-	154	13.1	-	-
20-Jul-06	21.17	3291	8.56	-85.5	68.30	10.75	DRY*	2300	-	131	9.41	-	-
22-Aug-06	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	-	-
26-Sep-06	16.38	2997	3.00	-57.1	31.60	9.92	DRY*	2900	-	103	16.8	-	-
15-Nov-06	8.51	1708	8.16	-35.7	34.70	10.15	17.14	1200	-	67.4	8.07	-	-
20-Dec-06	5.07	1927	8.84	14.8	7.94	10.67	10.91	1200	-	99.7	4.78	-	-
24-Jan-07	2.30	1846	10.72	5.9	11.70	10.37	9.00	1100 J	-	126	16.1	-	-
12-Feb-07	9.26	1777	11.75	-91.3	26.70	10.56	6.00	1100	-	139	7.12	-	-
27-Mar-07	8.71	1219	9.18	-12.6	13.80	8.70	24.00	840 J	-	88.5	4.86	-	-
18-Apr-07	7.39	4563	8.65	41.0	16.80	12.12	9.00	2000	-	97.5	32.5	-	-
31-May-07	-	3916	6.33	-149.5	10.70	10.96	1.36	2100	-	275	22.9	-	-
20-Jun-07	22.59	3336	8.50	-20.4	42.50	10.46	0.29	2400 J	-	255	27.4	-	-
31-Jul-07	18.94	3915	7.85	-69.2	41.30	10.92	0.06	3300	-	236	12.6	-	-
29-Aug-07	21.52	2406	5.75	-5.3	24.10	9.72	DRY*	2300 J	-	129	8.45	-	-
27-Sep-07	13.88	2009	5.75	15.5	28.30	9.56	0.06	1600	-	207	4.37	-	-
26-Oct-07	7.68	1662	9.06	80.5	13.00	9.92	2.04	1800 J	-	132	7.53	-	-
30-Nov-07	4.34	2446	9.63	26.7	11.70	9.86	2.63	1600	-	135	8.27	-	-
12-Dec-07	5.88	2056	10.34	39.3	10.30	10.18	2.63	1500	-	105	5.73	-	-
24-Jan-08	3.05	1601	15.03	42.3	-	9.40	2.63	1000	-	87.4	4.06	-	-
28-Feb-08	-	-	-	-	9.22	-	4.13	1200	-	118	8.92	-	-
25-Mar-08	6.80	1622	12.37	95.1	16.40	9.98	5.25	1100	-	110	3.86	-	-
29-Apr-08	7.53	1997	9.10	137.4	11.90	10.29	7.50	1100 J	-	124	7.05	-	-
20-May-08	16.35	2504	9.03	77.4	32.90	10.92	7.50	1700	-	146	14.7	-	-
18-Jun-08	11.82	2925	8.32	68.3	25.70	11.14	1.69	1800 J	-	208	8.48	-	-
26-Aug-08	17.69	3376	7.98	62.8	41.10	10.43	0.84	2200 J	-	287	13.2	647000	-
20-Nov-08	8.10	1447	9.65	112.0	43.70	11.00	11.25	1400	-	121	16.2	485000	-
12-Feb-09	2.99	1214	14.46	-	14.60	10.93	4.06	1200	-	219	11.8	434000	-
19-May-09	13.05	1962	7.92	32.6	36.70	10.23	7.50	1800 J	-	210	13.7	521000	-
24-Sep-09	16.30	2792	1.59	263.8	13.70	8.82	DRY*	2400	-	130	53	730000	-
15-Dec-09	2.80	1702	7.47	343.0	-	10.18	6.67	1200	-	170	22	330000	-
24-Mar-10	13.80	2629	2.09	270.7	263.00	11.46	6.03	1800	-	180	20	600000	-
17-Jun-10	12.00	1876	0.01	-	157.00	10.76	14.15	1200	-	27	3.9	410000	-
20-Sep-10	11.40	3100	6.34	198.6	12.20	10.63	2.38	2800	-	250	40	580000	-
7-Dec-10	6.60	2455	4.03	154.0	11.00	11.61	16.69	1600	-	240	26	510000	-
30-Mar-11	8.10	848	0.22	136.1	31.50	13.08	58.61	940 J	-	91	9.9	330000	-
22-Jun-11	14.40	2286	5.68	164.2	13.20	11.28	5.68	2600 J	-	120	25	490000	-
27-Sep-11	16.20	1911	4.62	253.4	39.10	10.07	13.40	2100	-	170	45	880000	-
15-Dec-11	4.10	1439	7.40	139.4	10.60	10.33	6.65	1400	-	180	21	500000	-

Table A-1b: Summary of Lower Disposal Area - Surface Water Sampling Results - Weir Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters							Gen-Chem	Metals (ug/L)				
	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	pH (standard units)	Weir Flow Rate (gpm)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[c]	-	-	-	-	-	6.5-8.5	-	-	6	8	2.5	-	80
20-Mar-12	5.20	1687	8.50	27.5	9.60	11.17	60.00	410	-	130	7.4	290000	-
18-Jun-12	14.70	2336	0.11	326.9	15.60	11.25	60.00	410	-	130	9.8	430000	-
20-Sep-12	15.30	2972	7.81	106.0	12.10	9.55	0.10	1400 J	-	130	2.2	450000	-
18-Dec-12	4.80	1908	9.34	-14.2	7.41	10.28	18.50	870	-	120	8.1	390000	-
26-Feb-13	5.80	6470	11.27	161.6	22.00	12.46	9.90	1800	-	99	62	710000	-
23-May-13	10.50	1625	9.14	291.8	14.40	9.93	4.84	980	-	94	21	310000	-
21-Aug-13	15.70	7260	7.69	51.6	9.00	10.71	0.32	2780	-	342	18.3	954000	-
19-Nov-13	8.10	2032	10.00	87.4	9.95	11.19	25.40	1270	-	70.8	16.9	487000	-
1-Apr-14	13.70	3420	9.11	129.4	59.00	12.57	20.77	1300	-	37.3	12	572000	-
23-May-14	12.83	986	11.63	105.7	-	9.36	-	822	-	47	13.9	274000	-
13-Aug-14	18.38	2000	5.52	63.6	8.93	8.02	2.00	1250	-	13.4	0.6	326000	-
11-Nov-14	6.70	259	9.77	164.8	4.27	8.09	1.50	955	-	19	0.2	315000	-
12-Feb-15	10.00	669	11.13	142.9	2.75	8.62	40.00	1490	-	14.9	1.8	155000	-
4-May-15	13.70	1293	8.69	181.7	155.00	9.38	0.09	1100	-	43.3	11.3	292000	-
5-Aug-15	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
3-Nov-15	9.70	1296	7.66	165.6	13.70	8.03	1.98	1200	-	11.4	0.8	355000	-
9-Feb-16	9.10	838	8.79	181.4	2.17	7.87	0.69	529	-	7.8	0.5 J+	145000	-
2-May-16	23.40	1126	6.16	128.1	7.59	7.63	DRY*	688	-	7.6	0.06 J-	162000	-
23-Aug-16	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
1-Nov-16	11.70	332	7.12	97.5	7.71	7.76	7.24	703	-	9.18	0.3	207000	-
1-Feb-17	2.30	925	11.55	39.1	2.04	7.71	0.30	567	-	4.9	0.09 J	135000	-
30-May-17	13.30	817	57.50	8.3	22.20	7.40	0.30	516	-	13.1	0.08 J+	94300	-
17-Aug-17	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
9-Nov-17	7.00	851	7.57	88.0	67.30	8.43	-	865	-	36.6	10.7	236000	-
27-Feb-18	5.50	498	10.68	106.0	5.39	8.60	-	503	-	9.7	1.23	127000	-
1-May-18	12.80	894	8.87	-	2.39	7.97	-	656	-	7.81	0.1 UJ	195000	-
21-Aug-18	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
7-Nov-18	8.50	1079	7.37	166.6	5.48	7.94	-	1030	-	15.7	0.089 J	322000 J+	-
11-Mar-19	5.00	525	9.79	146.3	1.28	7.76	-	541	-	4.21	0.1 U	133000	-
9-May-19	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
26-Aug-19	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
14-Nov-19	7.40	842	4.10	214.3	19.00	7.74	DRY*	783	-	11.3	0.076 J	242000	-
12-Feb-20	7.20	401	8.41	-38.3	2.47	7.53	3.96	348	-	4.81	0.1 U	86900	-
13-Aug-20	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
10-Dec-20	7.20	581	6.72	185.0	0.96	7.80	8	560	-	5.13	0.1 U	126000	-
4-Mar-21	4.90	427	7.11	146.0	2.50	7.86	3	424	-	3.7	0.114	80600	-
10-Jun-21	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
13-Oct-21	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6-Jan-22	4.90	269	10.81	211.8	15.90	7.63	300	228	5.52	4.33	0.698	50500	1
17-Mar-22	7.00	410	9.46	157.2	0.91	7.43	8	394	5.37	3.5	0.055 J	86000	1
21-Jun-22	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12-Sep-22	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
13-Dec-22	5.60	712	6.9	12.5	1.29	7.83	-	535	10.5	3.27	0.113 J+	111000	1.01
15-Mar-23	5.10	758.2	6.46	202.5	9.22	7.49	0.1	437	5.92	3.49	0.197	96000	0.825
26-Jun-23	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7-Sep-23	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
13-Dec-23	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

Table A-1b: Summary of Lower Disposal Area - Surface Water Sampling Results - Weir
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters							Gen-Chem	Metals (ug/L)				
	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	pH (standard units)	Weir Flow Rate (gpm)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[c]	-	-	-	-	-	6.5-8.5	-	-	6	8	2.5	-	80
5-Mar-24	4.10	673	7.31	117.1	9.45	7.09	1.59	445	5.28	4.74	2.23	76800	1.16
17-Jun-24	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
16-Sep-24	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9-Dec-24	6.6	823	40.22	58.4	1.07	7.36	-	542	5.42	3.70	0.136 U	99800	0.67
24-Mar-25	10.2	680.7	802	175.7	7.31	7.41	-	449	4.35	2.89	0.2 U	87400	0.668
9-Jun-25	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15-Sep-25	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
17-Dec-25	8.6	519	9.02	143.4	2.41	7.11	-	322	6.52	3.80	0.147 J	60600	1.20

Notes:

Dissolved metals were analyzed at the Site until December 2020 (Q4 2020). Total metals were analyzed for Q4 2020 and will continue to be analyzed moving forward. Iron and manganese are not included in the COPCs at the Site and are not analyzed beginning in Q2 2021. Antimony and Vanadium were included as COPCs for surface water locations and shallow groundwater monitoring wells at the Site beginning in Q3 2021.

*	Sample collected from constructed wetland (alternative sampling location) upstream of weir
-	Not analyzed or not available
DRY	Weir dry; unable to collect field parameters or samples
	Orange shaded values indicate parameter results above the Cleanup Level (CUL), except for pH, which could be above or below the CUL
a	North Creek Analytical, Inc.
b	Severn Trent Laboratories
c	CUL provided in Remedial Investigation Report (WSP 2025)
U	Data validation code; not detected at the Reporting Limit (RL)
J	Data validation code; estimated value
J+	Data validation code; estimated value with positive bias
J-	Data validation code; estimated value with low bias
°C	Degrees Celsius
ug/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
gpm	Gallons per minute
mg/L	Milligrams per liter
mV	Millivolts
NTU	Nephelometric Turbidity Unit

Table A-1c: Summary of Lower Disposal Area - Surface Water Sampling Results - South Pond Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters						Gen-Chem	Metals (ug/L)				
	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[c]	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
1-Feb-05	7.13	9580	-	-	4.19	13.02	4080	-	174	24.3	-	-
9-Mar-05	14.28	9979	-	-	6.79	12.52	4640	-	240	42.1	-	-
5-Apr-05	9.90	10820	-	-	43.50	11.99	3830	-	133	9.85	-	-
10-May-05	15.10	6091	-	-	45.60	12.14	3270	-	92.9	25.5	-	-
7-Jun-05	14.49	8257	-	-	24.20	12.19	3780	-	132	24.7	-	-
15-Jul-05[a]	18.34	6937	-	-	6.89	11.69	5000	-	281	31.8	-	-
15-Jul-05[b]	-	-	-	-	-	-	4260	-	237	34.2	-	-
9-Aug-05[a]	23.53	7654	-	-	17.l	10.26	6600	-	322	44.5	-	-
9-Aug-05[b]	-	-	-	-	-	-	5580	-	340	37.1	-	-
14-Sept-05[a]	18.55	6730	-	-	10.00	10.51	5100	-	235	19.3	-	-
14-Sept-05[b]	-	-	-	-	-	-	4750	-	268	34.2	-	-
5-Oct-05	12.14	4323	-	-	17.60	9.80	3090	-	130	26.5	-	-
9-Nov-05	6.78	3784	-	-	11.80	11.12	2600	-	121	21.7	-	-
9-Dec-05	3.22	8745	-	-	12.90	12.85	3900	-	175	14.1	-	-
19-Jan-06	7.73	5215	5.43	-	13.30	12.52	2000 J	-	20.3	3.24	-	-
16-Feb-06	3.96	9342	8.97	231.2	9.08	12.30	4100 J	-	43	25.6	-	-
15-Mar-06	8.72	12910	9.59	222.1	7.64	12.60	5100 J	-	38.6	41.8	-	-
7-Apr-06	14.26	15220	6.90	18.9	3.65	12.92	5700	-	48.5	65.6	-	-
16-May-06	19.75	10880	2.61	33.8	15.40	12.46	5100	-	130	92.1	-	-
23-Jun-06	22.76	7586	2.98	-	14.10	12.65	5100	-	130	57.9	-	-
20-Jul-06	24.33	7457	0.73	-148.4	16.70	11.33	6400	-	272	51.3	-	-
22-Aug-06	15.03	7481	3.75	61.0	14.10	10.40	6100	-	318	33.2	-	-
26-Sep-06	17.30	8409	1.31	-312.4	15.10	12.38	5500	-	230	45.7	-	-
26-Oct-06	10.95	6075	4.10	-265.6	13.30	12.18	4600	-	243	41.5	-	-
15-Nov-06	8.07	5022	7.71	-152.7	21.50	12.24	2600	-	76.2	3.68	-	-
20-Dec-06	6.32	9148	5.73	-139.6	12.20	12.85	2900 J	-	46.1	1.28	-	-
24-Jan-07	2.15	12690	9.24	-98.4	9.74	13.10	3000 J	-	19.2	26.8	-	-
12-Feb-07	9.35	14110	8.43	-86.7	32.50	13.13	4700	-	96.2	83.5	-	-
27-Mar-07	9.16	10560	8.41	-46.2	7.42	11.31	2900 J	-	5.98	14.5	-	-
18-Apr-07	8.27	14570	8.32	10.8	10.30	12.79	5200	-	19.8	22.1	-	-
31-May-07	23.66	13410	6.42	-95.0	31.20	11.77	5100	-	78.4	50.4	-	-
20-Jun-07	26.35	10050	5.53	-195.7	27.90	12.29	5300 J	-	112	38.2	-	-
31-Jul-07	21.39	6666	4.76	-106.4	72.00	10.86	6300	-	208	68.8	-	-
29-Aug-07	22.61	6950	1.57	-193.4	61.80	12.05	6300 J	-	149	30.6	-	-
27-Sep-07	11.45	5059	2.66	-180.4	78.40	11.43	4800	-	190	17.4	-	-
26-Oct-07	6.98	4147	1.44	-204.7	39.50	12.48	3900 J	-	168	25.5	-	-
30-Nov-07	2.86	5030	8.50	-74.9	12.40	12.20	2600	-	121	14.3	-	-
12-Dec-07	4.45	3564	2.03	-141.8	20.70	10.93	2700	-	79.3	9.87	-	-
24-Jan-08	1.13	4859	4.10	-186.8	-	11.19	2200	-	86.1	6.79	-	-
28-Feb-08	-	-	-	-	18.10	-	2800	-	183	73.4	-	-
25-Mar-08	7.37	5413	7.88	-58.2	122.00	12.29	2900	-	182	13	-	-
29-Apr-08	8.43	3685	9.04	59.3	19.20	11.63	2400 J	-	152	16	-	-
20-May-08	18.03	3554	6.69	58.0	156.00	11.01	2100	-	137	38.3	-	-
18-Jun-08	13.01	5680	6.46	57.5	71.80	11.14	4000 J	-	279	34.4	-	-
26-Aug-08	18.02	2800	5.72	16.9	49.80	10.08	2500 J	-	91.7	18.6	557000	-
20-Nov-08	7.46	2011	9.04	38.3	23.60	10.49	2300	-	72.9	9.2	566000	-
12-Feb-09	1.63	1870	11.74	-	46.10	10.83	2300	-	129	17.2	738000	-
19-May-09	12.73	1895	5.37	-16.4	168.00	9.82	1700 J	-	78.9	11.3	515000	-
23-Sep-09	21.50	4190	0.09	175.1	14.40	9.70	4100	-	120	99	1300000	-
14-Dec-09	+	+	+	+	+	+	+	-	+	+	+	-
22-Mar-10	13.10	2480	-	342.0	15.60	10.05	1700	-	76	34	520000	-

Table A-1c: Summary of Lower Disposal Area - Surface Water Sampling Results - South Pond
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters						Gen-Chem	Metals (ug/L)				
	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[c]	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
17-Jun-10	13.40	2429	5.14	-	26.10	10.77	2100	-	120	89	630000	-
21-Sep-10	16.30	2733	1.10	216.8	21.50	9.81	2200	-	25	27	510000	-
8-Dec-10	6.00	1994	2.70	-	18.70	10.05	1400	-	53	18	490000	-
30-Mar-11	9.10	509	0.37	179.2	13.80	12.04	730 J	-	36	14	260000	-
21-Jun-11	21.60	2092	1.90	192.2	13.60	10.07	2800 J	-	62	29	380000	-
27-Sep-11	14.60	1516	9.34	220.4	32.50	9.34	1800	-	78	36	780000	-
15-Dec-11	3.00	1449	1.90	94.6	13.80	10.75	2100	-	140	74	630000	-
21-Mar-12	2.60	1088	8.10	285.7	13.10	9.95	780	-	30	7.2	240000	-
19-Jun-12	17.10	1747	5.54	345.3	10.80	9.93	780	-	70	29	400000	-
20-Sep-12	-	-	-	-	-	-	-	-	-	-	-	-
19-Dec-12	4.00	1771	6.37	104.0	6.12	10.71	1300	-	47	18	440000	-
26-Feb-13	6.90	3720	5.40	196.7	10.60	11.86	1100	-	140	39	690000	-
23-May-13	11.50	2335	5.21	323.5	44.10	12.48	1800	-	130	50	530000	-
22-Aug-13	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
19-Nov-13	8.20	1256	4.12	79.3	18.20	9.89	1260	-	39.8	20.4	487000	-
1-Apr-14	15.30	2053	4.42	130.9	772.00	11.27	1800	-	113	42.2	649000	-
23-May-14	14.15	2187	5.50	77.3	-	10.19	1860	-	112	23.6	623000	-
13-Aug-14	20.29	1298	5.35	40.1	24.80	9.63	949	-	44.9	22.8	306000	-
12-Nov-14	1.30	315	4.55	-0.5	22.10	10.45	2440	-	122	34.2	804000	-
12-Feb-15	11.10	1267	4.01	-8.2	23.90	10.20	905	-	27.2	9.6	320000	-
4-May-15	15.60	3200	4.35	240.5	9.21	10.42	2280	-	154	30.8	774000	-
5-Aug-15	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
3-Nov-15	8.30	1143	2.01	88.1	35.40	9.22	1050	-	28	28.2	364000	-
9-Feb-16	7.30	1672	3.45	95.9	7.79	10.45	1170	-	51 J+	34	410000	-
3-May-16	14.20	3150	3.61	335.2	63.80	10.35	2260	-	148	97.9 J-	777000	-
24-Aug-16	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
1-Nov-16	12.10	401	5.56	-65.9	15.00	9.43	742	-	21.9	14.1	356000	-
1-Feb-17	2.10	2064	4.82	5.0	17.80	10.27	1330	-	57.6	139	455000	-
31-May-17	14.50	2594	5.36	-	22.70	9.93	1920	-	105	51.5 J+	664000	-
17-Aug-17	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
9-Nov-17	6.50	1049	6.38	92.3	14.40	10.13	1260	-	58.8	53.4 J+	441000	-
27-Feb-18	6.50	1379	4.05	-71.0	6.11	10.94	865	-	61.7	47.7 J-	429000	-
2-May-18	11.60	2547	-	-	25.30	10.36	1860	-	85.9	26.7 J+	611000	-
22-Aug-18	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
7-Nov-18	9.70	995	6.72	126.8	20.60	9.15	1040	-	76	65.5	333000 J+	-
11-Mar-19	10.60	1354	5.93	-18.7	7.19	10.31	1270	-	49.3	41.7	458000	-
9-May-19	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
26-Aug-19	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
14-Nov-19	8.70	1180	5.98	30.9	7.38	9.03	1120	-	67.2	76.4	418000	-
13-Feb-20	4.30	1032	2.51	-126.9	6.10	10.46	927	-	28.1	13	348000	-
13-Aug-20	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
10-Dec-20	5.60	1000	2.52	66.8	6.02	9.66	952	-	12	6.63	318000	-
4-Mar-21	8.10	1271	1.98	38.0	8.02	10.35	4820	-	50.6	35.7	435000	-
10-Jun-21	DRY	DRY	DRY	DRY	DRY	DRY	DRY	-	DRY	DRY	DRY	-
13-Oct-21	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6-Jan-22	4.50	305	10.57	-30.2	4.07	9.42	300	2.29	4.42	2.29	77100	4.27
17-Mar-22	8.80	997	8.53	-66.4	4.54	11.32	912	4.85	22.60	16.70	358000	37.80
21-Jun-22	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12-Sep-22	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
13-Dec-22	4.1	1319	8.1	-51.9	15.8	9.45	1170	17.5	40.5	33.1	384000	79.3
15-Mar-23	8.9	1467	10.36	-7.6	6.57	9.33	913	2.75	8.5	4.84	347000	12.3

Table A-1c: Summary of Lower Disposal Area - Surface Water Sampling Results - South Pond Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters						Gen-Chem	Metals (ug/L)				
	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[c]	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
26-Jun-23	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6-Sep-23	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
13-Dec-23	5.2	2217	7.86	-41.2	8.63	9	1180	3.98	21.1	15.8	394000	53.4
5-Mar-24	10.5	2327	7.99	-12.1	6.72	9.9	1220	3.99	21.6	15.2	435000	75.1
17-Jun-24	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
16-Sep-24	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9-Dec-24	3.4	1407	43.39	122.1	7.18	8.68	929	2.99	10.9	6.18	300000	19.3
24-Mar-25	12.6	914	8.5	185.5	5.23	8.97	638	2.05	7.63	4.12	207000	12.6
9-Jun-25	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15-Sep-25	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
17-Dec-25	7.5	530	9.46	153.7	2.96	7.34	292	2.07	6.16	1.52	102000	3.90

Notes:

Dissolved metals were analyzed at the Site until December 2020 (Q4 2020). Total metals were analyzed for Q4 2020 and will continue to be analyzed moving forward. Iron and manganese are not included in the COPCs at the Site and are not analyzed beginning in Q2 2021. Antimony and Vanadium were included as COPCs for surface water locations and shallow groundwater monitoring wells at the Site beginning in Q3 2021.

-	Not analyzed or not available
	Orange shaded values indicate parameter results above the Cleanup Level (CUL), except for pH, which could be above or below the CUL.
+	South Pond frozen; unable to collect field parameters or samples
DRY	South Pond dry; unable to collect field parameters or samples
a	North Creek Analytical, Inc.
b	Severn Trent Laboratories
c	CUL provided in Remedial Investigation Report (WSP 2025)
U	Data validation code; not detected at the Reporting Limit (RL)
J	Data validation code; estimated value
J+	Data validation code; estimated value with positive bias
J-	Data validation code; estimated value with low bias
°C	Degrees Celsius
ug/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter
mV	Millivolts
NTU	Nephelometric Turbidity Unit

Appendix A-2

SUMMARY OF LOWER DISPOSAL AREA - SHALLOW GROUNDWATER SAMPLING RESULTS

Table A-2a: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Well MW-1A
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters								Gen. Chem.	Metals (ug/L)				
	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[a]	-	-	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
15-Jul-05	35.43	578.01	15.17	883	-	-	358	7.03	664	-	8.47	2 U	-	-
9-Nov-05	31.83	581.61	10.77	1037	-	-	22.2	6.89	680	-	3.45	1 U	-	-
15-Feb-06	23.91	589.53	9.14	623	1.53	497.4	6.76	7.26	470 J	-	3.25	1 U	-	-
17-May-06	31.91	581.53	11.32	1029	1.33	121.6	10.3	7.18	600	-	5.18	1 U	-	-
23-Aug-06	35.35	578.09	19.21	481	5.97	60.4	6.3	6.67	340	-	1.7	1 U	-	-
14-Nov-06	20.00	593.44	10.35	635	4.55	95.1	22.2	7.23	550	-	3.07	1 U	-	-
14-Feb-07	29.29	584.15	11.13	435	3.88	85.6	32.1	6.76	260	-	2	1 U	-	-
30-May-07	32.90	580.54	10.30	545	6.63	145.7	6.93	6.81	320	-	2.48	1 U	-	-
27-Aug-07	35.68	577.76	10.49	428	7.13	76.7	8.65	6.95	260 J	-	1.87	1 U	-	-
29-Nov-07	32.75	580.69	10.10	625	7.14	144.3	12.2	6.96	340 J	-	2.32	1 U	-	-
27-Feb-08	27.83	585.61	-	-	-	-	19.6	-	320	-	2.58	1 U	-	-
20-May-08	31.86	581.58	10.22	471	6.38	177.0	109	6.48	290 J	-	2.24	1 U	-	-
27-Aug-08	36.04	577.40	9.84	427	7.40	118.4	63.6	7.08	260	-	2.05	1 U	23000	-
26-Sep-08	*Test Trench Drain Line Installed*													
16-Oct-08	35.65	577.79	9.51	443	9.78	113.9	38	7.38	260 J	-	1.79	1 U	22900	-
20-Nov-08	25.62	587.82	9.49	563	6.11	231.0	5.48	7.18	430	-	3.68	1 U	106000	-
30-Dec-08	23.14	590.30	9.84	402	8.40	106.9	8.92	7.25	280 J	-	2.47	1 U	43900	-
15-Jan-09	20.66	592.78	8.40	336	9.65	229.6	1.07	6.88	290	-	2.25	1 U	35700	-
12-Feb-09	30.00	583.44	9.05	372	8.46	-	16.7	7.34	320	-	1.93	1 U	27000	-
12-Mar-09	31.30	582.14	9.13	409	8.60	174.9	15.8	7.03	340	-	1.66	1 U	20600	-
16-Apr-09	23.88	589.56	8.17	343	10.24	131.8	13.5	6.78	310	-	1.77	1 U	24600	-
19-May-09	30.50	582.94	8.99	392	8.69	82.6	23.7	7.75	340 J	-	1.56	1 U	19600	-
23-Jun-09	34.00	579.44	9.21	480	9.56	79.0	22.9	7.89	430	-	2 U	2 U	20000	-
23-Sep-09	37.12	576.32	11.30	336	6.90	368.3	21.3	6.73	240	-	2 U	0.18 J	14000	-
15-Dec-09	28.30	585.14	9.20	643	5.30	567.0	18	6.72	330	-	2 U	2 U	26000	-
24-Mar-10	30.03	583.41	9.80	562	5.72	545.9	5.04	6.74	370	-	1.9 J	2 U	19000	-
16-Jun-10	23.55	589.89	9.20	506	5.93	405.4	16.1	6.53	40 U	-	3.6	2 U	20000	-
21-Sep-10	35.89	577.55	10.40	593	4.82	288.5	117	6.96	370	-	2.6	0.23 J	19000	-
7-Dec-10	27.39	586.05	10.00	504	1.45	198.4	139	7.15	330	-	2.3	2 U	14000	-
29-Mar-11	29.76	583.68	8.10	247	2.47	169.0	6.81	7.14	300	-	2.4	2 U	15000	-
21-Jun-11	30.45	582.99	9.30	606	4.58	332.9	3.56	7.17	400 J	-	5 U	2 U	16000	-
27-Sep-11	36.65	576.79	9.90	366	7.27	356.2	2.18	6.85	310	-	5 U	2 U	17000	-
14-Dec-11	31.53	581.91	9.20	407	1.97	234.7	20.4	7.09	370	-	5 U	2 U	16000	-
20-Mar-12	21.60	591.84	7.70	561	7.06	385.4	4.8	7.18	280	-	2.3	0.4 U	16000	-
19-Jun-12	21.60	591.84	10.00	575	7.04	378.2	5.6	7.31	330	-	2.5	0.4 U	16000	-
19-Sep-12	36.42	577.02	11.30	561	8.76	286.0	2.49	7.02	310	-	2.4	0.4 U	17000	-
19-Dec-12	23.43	590.01	9.30	671	6.67	348.2	0.74	7.26	20 U	-	1.7	0.4 U	17000	-
25-Feb-13	29.32	584.12	8.00	572	9.51	337.0	26	7.28	300	-	2.5	0.4 U	16000	-
22-May-13	31.23	582.21	9.00	518	8.59	397.7	4.68	7.40	310	-	1.8	0.4 U	15000	-
21-Aug-13	37.02	576.42	10.20	534	9.27	152.7	1.46	7.11	227	-	1.2	0.1 U	14100	-
20-Nov-13	29.69	583.75	9.50	852	7.62	243.5	39.5	6.75	419	-	1.6	0.1 U	19900	-
1-Apr-14	23.29	590.15	8.90	347	7.60	248.1	2.54	7.30	247	-	2	0.1 U	16500	-
21-May-14	28.31	585.13	9.50	349	4.02	178.6	-	7.12	280	-	1.8	0.1 U	15100	-
13-Aug-14	36.52	576.92	12.10	441	9.22	51.9	6.2	7.10	283	-	1.4	0.1 U	15200	-
13-Nov-14	31.63	581.81	11.50	438	8.80	173.0	14.7	7.10	352	-	1.6	0.1 U	17100	-
11-Feb-15	23.02	590.42	9.40	498	3.89	98.1	10.5	7.72	319	-	9.1	0.3	42900	-
4-May-15	31.93	581.51	9.80	578	7.35	416.9	1.05	7.26	413	-	1.7	0.1 U	16000	-
6-Aug-15	37.65	575.79	10.70	447	0.17	71.6	49	7.21	343	-	3.9	0.1 U	10300	-
4-Nov-15	32.89	580.55	9.50	657	8.56	240.5	5.7	6.92	554	-	2.3	0.1 U	49300	-
10-Feb-16	25.39	588.05	9.80	322	7.36	204.8	3.21	7.31	202	-	2	0.1 U	22200	-
2-May-16	32.32	581.12	10.80	579	5.95	250.2	4.7	7.02	350	-	1.8	0.04 J-	17800	-
23-Aug-16	37.66	575.78	11.00	488	1.34	459.9	259	7.08	413	-	3.88	0.07 J	14600	-
2-Nov-16	31.30	582.14	9.70	280	3.94	225.0	6.13	7.18	531	-	2.13	0.12	37700	-
1-Feb-17	29.01	584.43	8.60	510	5.26	187.7	0.97	7.04	270	-	1.47	0.1 U	19000	-
30-May-17	28.47	584.97	9.50	483	6.89	4.7	4.85	6.96	290	-	2.09	0.1 U	15700	-
17-Aug-17	36.30	577.14	10.50	536	3.79	82.5	6.44	6.96	283	-	1.55	0.1 U	15500	-
9-Nov-17	32.20	581.24	9.20	460	5.89	75.1	2.7	7.01	380	-	1.63	0.1 U	16300	-
27-Feb-18	25.18	588.26	8.90	215	7.35	121.6	6.04	6.31	186	-	1.72	0.1 U	15500	-
1-May-18	26.98	586.46	9.50	391	7.82	-	3.06	6.94	214	-	1.65	0.1 UJ	14100	-
21-Aug-18	37.29	576.15	10.02	266	7.37	75.6	129	6.84	215	-	1.51	0.1 U	13300	-

Table A-2a: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Well MW-1A
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters								Gen. Chem.	Metals (ug/L)				
	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[a]	-	-	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
6-Nov-18	34.18	579.26	9.60	340	9.13	215.4	1	6.93	327	-	1.67	0.1 U	16600	-
11-Mar-19	27.75	585.69	8.90	323	5.65	185.3	4.29	6.94	269	-	1.36	0.1 U	14400	-
8-May-19	30.05	583.39	9.80	448	7.77	97.6	1.11	6.87	320	-	1.25	0.1 U	15100	-
26-Aug-19	37.02	576.42	9.83	329	1.16	Note 1	7.97	7.11	258	-	0.904	0.1 U	10700	-
13-Nov-19	35.13	578.31	9.20	376	5.50	144.0	8.26	6.87	320	-	1.23	0.1 U	15800	-
12-Feb-20	20.38	593.06	9.00	381	2.58	191.6	1.33	7.15	268	-	1.25	0.1 U	26600	-
12-Aug-20	36.61	576.83	9.50	285	5.01	198.7	0.8	6.96	214	-	1.14	0.1 U	14100	-
9-Dec-20	32.05	581.39	9.10	425	7.17	211.0	1.57	6.86	347	-	1.11	0.1 U	17100	-
3-Mar-21	27.01	586.43	8.60	383	5.71	248.0	0.6	6.83	299	-	1.16	0.1 U	17400	-
9-Jun-21	35.32	578.12	9.20	422	8.47	151.0	2.22	6.68	310	-	1.39	0.1 U	16300	-
12-Oct-21	33.84	579.60	9.30	329	9.07	160.8	1.55	6.34	236 J-	0.846	1.13	0.1 U	12500	0.801
5-Jan-22	25.20	588.24	9.20	344	7.96	170.2	0.67	6.54	255	1.06	1.02	0.1 U	18100	0.782
16-Mar-22	23.67	589.77	9.30	386	7.79	155.0	0.96	5.60	350	1.58	1.33	0.1 U	36800	0.887
23-Jun-22	27.91	585.53	9.80	356	7.21	152.8	2.55	6.93	281	1.08	1.04	0.1 U	16500	0.86
23-Sep-22	37.05	576.39	13.2	312.5	6.93	128.4	2.84	6.91	222	0.83	1.2	0.137	14100	0.786
13-Dec-22	32.35	581.09	9.4	394.6	8.79	99.3	0.31	6.77	234	0.955	1.13	0.1 U	14500	0.791
13-Mar-23	29.36	584.08	8	584.2	9.22	90.2	0.29	6.85	298	0.86	1.27	0.053 J	14000	0.935
28-Jun-23	34.78	578.66	9.4	527	9.69	277.4	0.85	6.68	363	0.87	1.18	0.1 U	16600	0.862
5-Sep-23	37.62	575.82	9.5	586.1	5.14	77.6	3.75	6.97	360 J-	0.41	3.82	0.586	13300	2.23
12-Dec-23	22.16	591.28	9.2	806	7.53	120.7	1.27	6.7	424	1.71	1.39	0.103 U	43400	0.986
4-Mar-24	26.79	586.65	8.4	437.2	8.26	194.8	0.42	6.56	274 J	0.83	1.02	0.103 U	13400	0.614
18-Jun-24	32.56	580.88	8.8	700	12.5	119.2	0.39	6.64	335	0.87	1.14	0.103 U	13900	0.684
16-Sep-24	36.11	577.33	9.5	366.8	9.72	174.4	0.64	6.51	205	0.668	0.996	0.103 U	10700	0.585 J
11-Dec-24	31.08	582.36	9	491.7	8.26	122.5	0.78	6.65	285	0.726	1.09	0.0680 U	12300	0.583
26-Mar-25	25	588.44	70.2	675.8	9.71	130.9	2.35	6.7	387	1.1	1.04	0.2 U	23500	0.634
11-Jun-25	34.45	578.99	9.7	695	8.28	114.3	0.75	6.71	374	0.775 J	1.16	0.5 U	14800	0.805 J
17-Sep-25	38.62	574.82	-	-	-	-	-	-	-	-	-	-	-	-
18-Dec-25	19.13	594.31	8.9	645.0	8.95	222.0	4.39	6.64	317	1.12	1.04	0.100 U	20300	0.839

Notes:
Top of casing elevation (feet NAVD88): 613.44

Dissolved metals were analyzed at the Site until December 2020 (Q4 2020). Total metals were analyzed for Q4 2020 and will continue to be analyzed moving forward. Iron and manganese are not included in the COPCs at the Site and are not analyzed beginning in Q2 2021. Antimony and Vanadium were included as COPCs for surface water locations and shallow groundwater monitoring wells at the Site beginning in Q3 2021.

-	Not measured or not available
	Orange shaded values indicate parameter results above the Cleanup Level (CUL), except for pH, which could be above or below the CUL
a	CUL provided in Remedial Investigation Report (WSP 2025)
U	Data validation code; not detected at the Reporting Limit (RL)
J	Data validation code; estimated value
J+	Data validation code; estimated value with positive bias
J-	Data validation code; estimated value with low bias
°C	Degrees Celsius
Note 1	ORP measurements not available due to faulty sensor.
ug/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
feet NAVD88	Feet NAVD88 Datum
mg/L	Milligrams per liter
mV	Millivolts
NTU	Nephelometric Turbidity Unit
TOC	Top of casing inside PVC well

Table A-2b: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Well MW-2A
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters								Gen. Chem.	Metals (ug/L)				
	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[a]	-	-	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
15-Jul-05	29.18	578.03	13.78	853	-	-	28.3	7.7	606	-	2 U	2 U	-	-
9-Nov-05	25.64	581.57	10.95	860	-	-	3.82	7.43	550	-	1.31	1 U	-	-
15-Feb-06	17.64	589.57	7.81	709	0.82	467.7	3.96	7.86	520 J	-	1.06	1 U	-	-
17-May-06	25.76	581.45	9.67	810	2.17	246.1	3.01	7.06	490	-	1.13	1 U	-	-
23-Aug-06	29.13	578.08	12.86	759	2.6	12	9.82	7.4	570	-	1.54	1 U	-	-
14-Nov-06	13.74	593.47	10.44	649	3.72	63.6	9.78	7.72	460	-	1.36	1 U	-	-
14-Feb-07	22.09	585.12	10.77	648	1.69	11.5	52.4	7.51	380	-	1.07	1 U	-	-
30-May-07	26.72	580.49	11.46	732	2.05	72.2	12.8	7.44	480	-	1.17	1 U	-	-
27-Aug-07	29.45	577.76	10.8	829	7.41	62.8	117	7.58	590 J	-	1.09	1 U	-	-
29-Nov-07	26.57	580.64	10.74	899	2	81.1	392	6.05	490	-	1.03	1 U	-	-
27-Feb-08	21.45	585.76	-	-	-	-	446	-	400	-	1.09	1 U	-	-
20-May-08	25.73	581.48	9.48	706	3.07	110.2	419	7.26	420 J	-	1.21	1 U	-	-
27-Aug-08	29.84	577.37	9.87	824	4.74	91.5	571	7.43	550 J	-	1.3	1 U	65100	-
26-Sep-08	*Test Trench Drain Line Installed*													
16-Oct-08	29.13	578.08	9.76	820	4.56	53.6	227	7.33	520 J	-	1.3	1 U	76300	-
20-Nov-08	19.48	587.73	9.31	462	5.24	240.1	6.16	7.35	360	-	1.76	1 U	67000	-
30-Dec-08	16.93	590.28	9.85	480	6.18	66.8	56.1	7.35	390 J	-	1.55	1 U	61500	-
15-Jan-09	14.46	592.75	7.71	402	7.47	177.8	1.61	7.61	360	-	1.57	1 U	58500	-
12-Feb-09	23.84	583.37	9.63	-	8.72	-	74.9	7.54	390	-	1.3	1 U	48100	-
12-Mar-09	25.15	582.06	9.11	454	7.22	163.7	573	7.19	400	-	1.17	1 U	43100	-
16-Apr-09	17.72	589.49	8.4	417	8.27	126.4	128	7.26	400	-	1.4	1 U	48800	-
19-May-09	24.38	582.83	8.8	448	6.88	72	178	7.95	410 J	-	1.1	1 U	44000	-
23-Jun-09	27.85	579.36	8.95	507	7.76	61.9	256	8.07	490	-	2 U	2 U	39000	-
23-Sep-09	30.84	576.37	11.2	661	5.41	374.7	15	7.28	500	-	2 U	2 U	51000	-
15-Dec-09	22.10	585.11	9.5	720	5.1	579	39	6.92	380	-	2 U	2 U	42000	-
24-Mar-10	23.82	583.39	10	602	4.1	535.3	43.3	6.93	370	-	1.7 J	2 U	39000	-
17-Jun-10	17.45	589.76	9.3	547	4.06	-	157	6.57	350	-	3.9	2 U	39000	-
22-Sep-10	29.66	577.55	10.2	722	5.77	360.2	7.2	7.22	450	-	3.3	2 U	55000	-
8-Dec-10	22.10	585.11	9.9	566	6.69	-	64.6	7.09	350	-	2 U	2 U	35000	-
29-Mar-11	19.94	587.27	8.4	251.3	6.95	620	28	7.13	250 J	-	1.4 J	2 U	30000	-
21-Jun-11	24.25	582.96	9.9	628	5.23	344.3	37	7.29	410 J	-	5 U	2 U	28000	-
28-Sep-11	30.41	576.8	9.5	57.5	6.54	481.7	13.8	7.24	500	-	5 U	2 U	54000	-
14-Dec-11	25.35	581.86	9.3	441	3.86	346.5	386	7.26	440	-	5 U	2 U	29000	-
20-Mar-12	15.45	591.76	7.7	580	1.53	382	32.3	7.4	280	-	2.2	0.4 U	26000	-
19-Jun-12	23.88	583.33	9	590	1.85	388.1	55.7	7.74	320	-	2.5	0.4 U	23000	-
19-Sep-12	30.18	577.03	11.1	695	7.03	297	9.31	7.41	420	-	2.7	0.4 U	42000	-
19-Dec-12	17.24	589.97	9.4	704	6.33	317	55.2	7.4	310	-	1.7	0.4 U	25000	-
25-Feb-13	23.12	584.09	9.1	585	6.04	339	110	7.46	370	-	2.5	0.4 U	24000	-
22-May-13	25.05	582.16	8.6	537	8.41	391.5	12.3	7.51	310	-	1.9	0.4 U	22000	-
21-Aug-13	30.75	576.46	10.6	684	8.42	150.2	5.85	7.74	419	-	1.5	0.2	27700	-
20-Nov-13	23.51	583.7	9.6	513	6.19	230.4	32.1	6.81	364	-	1.3	0.1 U	27500	-
1-Apr-14	17.11	590.1	8.5	386	7.32	243.1	14.6	7.46	294	-	1.4	0.1 U	31700	-
21-May-14	22.07	585.14	9.1	365	6.02	212.7	-	6.93	273	-	1.3	0.1 U	24700	-
12-Aug-14	31.32	575.89	13.16	552	6.56	76.7	6.8	7.36	394	-	1.5	0.1 U	25300	-
13-Nov-14	25.48	581.73	12.3	459.5	7.22	189.8	7.2	7.19	367	-	1.4	0.1 U	25500	-
11-Feb-15	16.83	590.38	9.3	447	6.76	134.4	36.6	7.52	286	-	1.7	0.1 U	30400	-
4-May-15	25.78	581.43	10.2	619	6.27	407.1	7.7	7.36	382	-	1.4	0.1 U	25200	-
6-Aug-15	31.87	575.34	11.3	500	9.18	207.1	28.1	7.23	394	-	1.5	0.1 U	22000	-
4-Nov-15	26.74	580.47	9.9	481	8.76	222.6	16.8	6.88	381	-	1.1	0.1 U	21800	-
10-Feb-16	19.19	588.02	9	376	7.35	206	40.2	7.68	261	-	3.6	0.1 U	37100	-
2-May-16	26.14	581.07	11.3	552	3.19	194.5	87.8	7.35	344	-	2.1	0.01 J-	31200	-
23-Aug-16	31.64	575.57	10.5	545	7.62	486.5	10.8	7.18	412	-	1.54	0.1 U	32600	-
2-Nov-16	25.12	582.09	10.2	220	4.01	238.9	245	7.19	431	-	1.4	0.1 U	30600	-
1-Feb-17	22.84	584.37	9.1	580	5.06	186.3	13.6	7.35	317	-	3.17	0.1 U	51100	-
30-May-17	22.31	584.9	9.4	520	7.01	4.99	40.2	7.18	322	-	1.78	0.1 U	34100	-
17-Aug-17	30.08	577.13	10.6	626	5.63	134.2	32.3	7.21	370	-	1.28	0.1 U	28900	-
9-Nov-17	26.04	581.17	9.8	479.5	5.79	74.4	68.8	7	391	-	1.39	0.1 U	25400	-
27-Feb-18	19.03	588.18	8.8	293.1	7.43	185.2	15.1	6.9	254	-	3.98	0.1 U	41900	-
1-May-18	20.84	586.37	9.1	531	7.46	-	25	7.35	316	-	3	0.1 UJ	40600	-

Table A-2b: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Well MW-2A
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters								Gen. Chem.	Metals (ug/L)				
	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[a]	-	-	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
21-Aug-18	31.09	576.12	10.39	437	7.33	115.2	19.1	7.04	358	-	1.48	0.1 U	26900	-
6-Nov-18	28.00	579.21	9.7	420.1	8.17	210.3	6.74	6.97	418	-	1.3	0.1 U	23400	-
11-Mar-19	21.61	585.6	9	351.2	9.2	187.1	20.6	7.11	312	-	1.57	0.1 U	32700	-
8-May-19	23.88	583.33	9.8	443.1	8.05	109.6	7.79	7.06	316	-	1.66	0.1 U	32900	-
26-Aug-19	30.90	576.31	10.91	495	8.65	Note 1	12.7	6.91	394	-	1.28	0.1 U	21100	-
13-Nov-19	28.91	578.3	9.8	506	7.81	180.4	14.4	6.87	429	-	1.34	0.1 U	22900	-
12-Feb-20	14.21	593	8.1	319.3	9.95	189.3	14.6	7.27	277	-	1.95	0.1 U	56300	-
12-Aug-20	30.41	576.8	9.5	463.3	6.6	185.5	72.9	7.03	359	-	1.2	0.1 U	22400	-
9-Dec-20	25.91	581.3	9.4	533	6.44	213	9.96	6.97	400	-	1.38	0.49 J	26800	-
3-Mar-21	20.83	586.38	8.9	330	5.24	216.5	12.4	7.18	268	-	1.8	0.219	61100	-
9-Jun-21	29.14	578.07	9.1	459.8	8.65	193.6	1.34	6.88	360 J	-	1.25	0.058 J	21800	-
12-Oct-21	27.75	579.46	10.4	595	9.33	188.2	0.56	6.53	439 J-	1.19	1.1	0.1 U	21900	1.07
6-Jan-22	19.05	588.16	10.2	466.3	4.66	197.7	2.69	7.14	368	3.24	1.89	0.1 U	80700	1.19
16-Mar-22	17.54	589.67	8.4	304.1	9.88	154.6	6.43	6	291	3.26	1.85	0.218	60900	1.15
23-Jun-22	21.76	585.45	9.5	442.6	6.06	158.8	1.49	7.10	369	1.94	1.5	0.1 U	37500	1.15
23-Sep-22	30.87	576.34	11.2	471.5	8.5	190.3	2.04	6.82	351	0.923	1.17	0.13	23300	1.18
13-Dec-22	26.24	580.97	9.9	557	8.35	117.4	4.38	6.81	319	1.17	1.28 J	0.218 J+	21800	1.59
14-Mar-23	23.24	583.97	8.6	664.2	7.67	174.1	0.97	7.08	368	1.65	1.49	0.1 U	28800	1.03
28-Jun-23	28.64	578.57	10.5	521	9.26	275.7	2.1	6.79	361	1.05	1.12	0.371 J	19600	1.02
5-Sep-23	31.49	575.72	9.6	699	11.67	128.3	3.01	7.06	400 J-	0.74	1.1	0.383 J	19800	1.06
12-Dec-23	16.04	591.17	9.9	894	8.57	137	4.29	7.01	529	3.53	1.94	0.103 U	133000	1.5
4-Mar-24	20.65	586.56	8.9	505	8.82	218.3	1.74	6.87	360 J	2.27	1.39	0.103 U	71900	0.97
18-Jun-24	26.42	580.79	8.9	763	11.61	137.9	0.56	6.8	389	1.13	0.978	0.103 U	20500	0.954
16-Sep-24	30.4	576.81	10	667	9.64	200.7	2.02	6.67	396	0.934	1.28	0.103 U	19700	1.04
11-Dec-24	24.96	582.25	9.8	688	5.59	196.3	2.81	6.75	408	1.51	1.28	0.0680 U	38000	1.09
26-Mar-25	18.86	588.35	9.6	713	13.91	151.9	4.8	7.00	434	2.31	1.45	0.2 U	88700	0.996
11-Jun-25	28.34	578.87	9.6	632	7.72	122.5	1.55	6.79	353	0.84 J	1.08	0.5 U	20900	0.895 J
16-Sep-25	31.76	575.45	12.8	691	8.44	-184.4	1.28	6.59	380	0.75 U	1.07	0.5 U	22200	1.1
18-Dec-25	12.89	594.32	9.3	605.0	8.30	207.0	4.89	6.79	356	3.17	1.59	0.100 J	56900	0.870

Notes:
Top of casing elevation (feet NAVD88): 607.21

Dissolved metals were analyzed at the Site until December 2020 (Q4 2020). Total metals were analyzed for Q4 2020 and will continue to be analyzed moving forward. Iron and manganese are not included in the COPCs at the Site and are not analyzed beginning in Q2 2021. Antimony and Vanadium were included as COPCs for surface water locations and shallow groundwater monitoring wells at the Site beginning in Q3 2021.

-	Not measured or not available
	Orange shaded values indicate parameter results above the Cleanup Level (CUL), except for pH, which could be above or below the CUL
*	Dissolved Oxygen meter working incorrectly at the time of sample collection
a	CUL provided in Remedial Investigation Report (WSP 2025)
U	Data validation code; not detected at the Reporting Limit (RL)
J	Data validation code; estimated value
J+	Data validation code; estimated value with positive bias
J-	Data validation code; estimated value with low bias
°C	Degrees Celsius
Note 1	ORP measurements not available due to faulty sensor.
ug/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
feet NAVD88	Feet NAVD88 Datum
mg/L	Milligrams per liter
mV	Millivolts
NTU	Nephelometric Turbidity Unit
TOC	Top of casing inside PVC well

Table A-2c: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Well MW-3A
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters								Gen. Chem.	Metals (ug/L)				
	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[a]	-	-	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
15-Jul-05	6.09	683.02	13.8	1124	-	-	30.3	6.96	922	-	2.41	2 U	-	-
10-Nov-05	5.50	683.61	10.8	1518	-	-	2.32	6.88	960	-	10.5	1 U	-	-
15-Feb-06	5.31	683.80	9.52	1357	0.46	217.4	58.2	6.33	930 J	-	6.66	1 U	-	-
16-May-06	6.25	682.86	10.4	1296	0.96	91	11.4	6.91	910	-	10.1	1 U	-	-
22-Aug-06	8.85	680.26	12.84	1362	1.28	-64.8	56	6.97	900	-	12.1	1 U	-	-
13-Nov-06	5.03	684.08	11.24	1392	2.12	-74.4	234	6.89	910	-	5.73	1 U	-	-
16-Feb-07	5.55	683.56	8.99	1155	0.75	-71.3	12.3	6.96	770	-	3.74	1 U	-	-
30-May-07	6.72	682.39	11.86	1297	0.75	-25.2	12.5	7.04	790	-	5.2	1 U	-	-
27-Aug-07	8.38	680.73	12.65	1483	0.71	-96.3	15.3	6.73	1100 J	-	8.74	1 U	-	-
28-Nov-07	5.66	683.45	10.47	1363	1.05	-72.9	26.9	7.31	730	-	4.24	1 U	-	-
27-Feb-08	5.57	683.54	-	-	-	-	121	-	860	-	9.76	1 U	-	-
19-May-08	5.94	683.17	9.39	1346	0.66	-52.6	20	6.93	820 J	-	6.64	1 U	-	-
26-Aug-08	6.44	682.67	12.15	1495	0.85	-53.6	5.85	6.88	820	-	3.42	1 U	30300	-
18-Nov-08	5.50	683.61	10.5	975	1.87	-67.4	225	6.93	880 J	-	7.48	1 U	62500	-
11-Feb-09	5.62	683.49	7.67	877	0.98	-	68	7.28	810	-	5.2	1 U	50600	-
19-May-09	5.60	683.51	8.52	847	0.91	-63.4	52	8.21	750 J	-	2.51	1 U	49500	-
22-Sep-09	8.36	680.75	15.7	1149	0.1	132.1	75.1	7.05	910	-	6.6	2 U	53000	-
17-Dec-09	4.59	684.52	8.9	1300	0.4	194	401	7.08	710	-	2 U	2 U	62000	-
24-Mar-10	5.40	683.71	11.2	1010	0.12	-	226	6.76	800	-	3.8	2 U	46000	-
16-Jun-10	5.27	683.84	10.1	1123	0.2	188	6.19	8.43	570	-	13	2 U	49000	-
21-Sep-10	6.01	683.10	12.7	1314	0.19	177.7	2.97	6.91	1,000	-	6.2	0.19 J	160000	-
7-Dec-10	5.23	683.88	9.7	1183	0.23	182.7	25.3	6.86	840	-	3.2	2 U	82000	-
30-Mar-11	5.04	684.07	8.3	498	0.28	174	4.93	7.89	700	-	3.6	2 U	36000	-
28-Sep-11	7.83	681.28	12.6	99	0.18	141.8	6.07	6.83	840	-	8.8	2 U	83000	-
15-Dec-11	5.40	683.71	9	785	0.6	179.8	24.4	6.98	760	-	4.5 J	2 U	73000	-
20-Mar-12	4.96	684.15	7.1	1092	0.16	22.6	12.1	7.11	470	-	5.2	2 U	73000	-
19-Jun-12	6.76	682.35	10.3	1077	0.11	198.6	11.3	7.07	660	-	12	0.4 U	78000	-
20-Sep-12	8.67	680.44	12.3	1235	0.15	111	1.96	6.99	710	-	11	0.05 J	100000	-
18-Dec-12	4.98	684.13	8.7	1450	0.3	-40.6	18.7	7.25	740	-	4.8	0.4 U	150000	-
26-Feb-13	5.25	683.86	7.8	1211	0.15	186.6	27.8	7.21	740	-	4.7	0.4 U	98000	-
23-May-13	6.56	682.55	9.9	1000	0.18	242.3	16.9	7.21	460	-	14	2.8	150000	-
21-Aug-13	9.01	680.10	12.1	917	0.12	-14.2	1.24	7.27	772	-	7.6	0.05 J	94000	-
19-Nov-13	6.09	683.02	9.9	697	0.07	61.8	2.93	6.77	852	-	12.3	0.2	169000	-
1-Apr-14	5.75	683.36	9	722	0.1	131.3	4.47	7.07	624	-	10.5	0.06 J	104000	-
22-May-14	5.80	683.31	9.8	580	1.08	185.3	-	6.85	494	-	5.2	0.1	66500	-
13-Aug-14	8.54	680.57	11.48	915	2.85	-67.6	8.16	7.09	740	-	6.9	0.1 U	116000	-
12-Nov-14	5.97	683.14	11.1	313.7	2.79	-85.1	15.3	6.87	744	-	6.9	0.1 U	89100	-
12-Feb-15	5.50	683.61	9.8	980	0.52	-54.5	1.28	7.04	696	-	4.2	0.1 U	73200	-
4-May-15	5.80	683.31	10.8	994	0.17	143.4	15.4	7.12	701	-	9.3	0.1 U	100000	-
5-Aug-15	10.12	678.99	12.6	881	0.13	-90.4	0.89	7.07	724	-	7.3	0.1 U	70300	-
3-Nov-15	5.30	683.81	12	865	1.23	105.5	5.06	6.97	1020	-	1.7	0.2	195000	-
9-Feb-16	5.14	683.97	9.1	954	0.55	154.6	4.82	7.03	625	-	3.4	0.1 U	92700	-
2-May-16	4.74	684.37	11.3	844	0.19	96.8	2.21	7.16	621	-	10.5	0.04 J-	105000	-
23-Aug-16	9.04	680.07	13.2	946	0.03	156.2	3.48	6.97	924	-	8.19	0.09 J	148000	-
1-Nov-16	6.18	682.93	11.9	349	0.15	18.5	2.43	7.11	744	-	2.63	0.1 U	180000	-
1-Feb-17	5.91	683.20	7.5	1114	0.17	-67.4	6.05	7.08	694	-	6.4	0.1 U	100000	-
30-May-17	7.40	681.71	10.4	753	2.2	8.59	3.28	7.12	465	-	9.52	0.1 U	89300	-
17-Aug-17	9.71	679.40	12.4	1101	0.25	-60.2	3.39	7.01	737	-	8.47	0.1 U	72000	-
9-Nov-17	6.06	683.05	9.6	833	0.64	75.3	2.01	7.08	748	-	1.84	0.1 U	191000	-
27-Feb-18	5.16	683.95	7.6	791	0.21	-75.4	9.52	6.64	506	-	2.97	0.1 U	92000	-
1-May-18	5.41	683.70	10	847	0.93	-	5.82	7.36	547	-	3.81	0.1 UJ	120000	-
21-Aug-18	10.81	678.30	14.54	909	2.96	-17.2	1.67	6.92	722	-	6.48	0.1 U	101000	-
7-Nov-18	5.85	683.26	11.2	931	0.66	179	0.87	6.97	828	-	2.03	0.073 J	202000 J+	-
11-Mar-19	5.26	683.85	6.1	477.5	1.25	53.7	2.39	7.34	486	-	1.44	0.1 U	125000	-
9-May-19	5.44	683.67	10.2	678	3.72	-9.4	1.85	7.04	574	-	3.02	0.083 J	143000	-
26-Aug-19	9.30	679.81	13.96	1041	0.6	Note 1	0.02	6.83	843	-	6.15	0.1 U	142000	-
13-Nov-19	5.58	683.53	9.4	803	0.31	12.8	0.02	6.97	724	-	2.2	0.077 J	174000	-
12-Feb-20	5.10	684.01	7.8	349.3	0.37	-62.4	1.4	7.25	287	-	1.86	0.1 U	74200	-
13-Aug-20	9.33	679.78	11.8	884	0.64	-81.6	4.28	6.76	683	-	10.9	0.1 U	119000	-
10-Dec-20	5.08	684.03	8.5	688	3.06	210	0.9	7.29	566	-	2.36	0.159	128000	-

Table A-2c: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Well MW-3A
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters								Gen. Chem.	Metals (ug/L)				
	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[a]	-	-	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
4-Mar-21	5.26	683.85	7	364	0.59	47	1.54	7.42	319	-	1.52	0.134	74200	-
9-Jun-21	6.24	682.87	11.4	706	0.96	-50.2	4.12	7.03	540	-	6.48	0.204	124000	-
12-Oct-21	5.34	683.77	12.3	1611	2.92	133.4	5.25	6.63	1070 J-	15.6	3.31	0.4	93200	2.14
6-Jan-22	5.10	684.01	7.5	269.6	2.33	189.1	1.84	7.38	242	8.89	2.04	0.265	53400	2.61
17-Mar-22	4.97	684.14	7.5	269.6	2.33	189.1	1.84	7.38	252	3.39	1.98	0.169	53200	0.88
21-Jun-22	5.21	683.9	11.2	439.4	0.19	181.3	0.66	7.03	368	0.966	3.66	0.075 J	75400	0.39
13-Sep-22	11.25	677.86	15.3	910	4.92	85.7	9.15	6.49	689	0.973	5.42	0.137	91100	0.507
12-Dec-22	5.32	683.79	7.7	817	4.09	205.2	1.29	7.15	475	9.5	1.72	0.115 J+	99800	1.26
15-Mar-23	5.02	684.09	6.1	669.2	1.38	203.9	0.95	7.34	393	5.15	2.42	0.147	91100	1.19
26-Jun-23	7.35	681.76	11.7	802	0.65	-21.3	4.65	6.78	699	5.91	11.7	0.558	144000	1.07
6-Sep-23	13.95	675.16	13.8	1227	2.17	18	3.14	6.89	747 J-	0.717	4.08	0.126	95900	0.483
13-Dec-23	5.14	683.97	9.4	712	4.35	43.8	2.87	6.73	343	4.61	3.7	0.208	82900	0.816
5-Mar-24	5.05	684.06	7.5	620	5.62	93.3	4.58	6.74	356	1.55	4.65	0.336	66200	0.604
17-Jun-24	5.61	683.5	10.6	983	5.34	-34.5	0.58	7.06	544	1.16	9.66	0.134 J	118000	0.454
17-Sep-24	11.40	677.71	11.9	1206	6.77	199.9	9.95	6.6	779	1.09	11	0.286	90500	0.785 J
9-Dec-24	5.06	684.05	8.6	939	59.6	50.6	2.65	7.1	592	6.83	3.39	0.146	125000	0.676
24-Mar-25	4.87	684.24	9.1	1104	0.83	181	9.52	6.66	712	1.42	3.37	0.2 U	104000	0.418
9-Jun-25	7.55	681.56	12.7	1015	0.37	-61.2	2.8	7.18	631	2.75	12.8	1.00 U	101000	0.745 J
15-Sep-25	15.25	673.86	13	1390	0.77	-604.2	4.81	6.51	796	0.75 U	6.61	0.5 U	100000	0.7 J
17-Dec-25	4.60	684.51	9.6	372.9	1.08	-3.4	1.00	6.91	195	7.41	2.16	0.224	43300	1.13

Notes:
Top of casing elevation (feet NAVD88): 689.11

Dissolved metals were analyzed at the Site until December 2020 (Q4 2020). Total metals were analyzed for Q4 2020 and will continue to be analyzed moving forward. Iron and manganese are not included in the COPCs at the Site and are not analyzed beginning in Q2 2021. Antimony and Vanadium were included as COPCs for surface water locations and shallow groundwater monitoring wells at the Site beginning in Q3 2021.

-	Not measured or not available
	Orange shaded values indicate parameter results above the Cleanup Level (CUL), except for pH, which could be above or below the CUL
a	CUL provided in Remedial Investigation Report (WSP 2025)
U	Data validation code; not detected at the Reporting Limit (RL)
J	Data validation code; estimated value
J+	Data validation code; estimated value with positive bias
J-	Data validation code; estimated value with low bias
°C	Degrees Celsius
Note 1	ORP measurements not available due to faulty sensor.
ug/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
feet NAVD88	Feet NAVD88 Datum
mg/L	Milligrams per liter
mV	Millivolts
NTU	Nephelometric Turbidity Unit
TOC	Top of casing inside PVC well

Table A-2d: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Well MW-4A
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters								Gen. Chem.	Metals (ug/L)				
	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[a]	-	-	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
15-Jul-05	4.60	700.85	12.43	629	-	-	6.07	6.45	490	-	2 U	2 U	-	-
10-Nov-05	3.70	701.75	11.98	441	-	-	7.4	6.22	290	-	1 U	1 U	-	-
19-Jan-06	3.56	701.89	8.29	319	0.42	-	1.46	6.53	290 J	-	1 U	1 U	-	-
15-Feb-06	3.82	701.63	8.32	326	0.62	99.7	3.5	7.39	220 J	-	1 U	1 U	-	-
15-Mar-06	3.79	701.66	7.58	254	0.87	201.9	0.82	6.65	210 J	-	1 U	1 U	-	-
7-Apr-06	3.87	701.58	9.36	295	0.55	157.4	0.24	6.34	220	-	1 U	1 U	-	-
16-May-06	4.92	700.53	10.8	321	0.45	142.1	0.99	6.36	220	-	1 U	1 U	-	-
23-Jun-06	4.41	701.04	12.62	316	0.57	-	2.05	6.25	200	-	1 U	2.64	-	-
20-Jul-06	6.90	698.55	13.43	347	0.23	-20.9	0.32	6.11	120	-	1 U	1 U	-	-
22-Aug-06	8.46	696.99	13.68	406	0.9	153.5	2.2	6.13	280	-	1 U	1 U	-	-
26-Sep-06	6.50	698.95	14.59	417	2.47	-35.2	2.42	6.33	290	-	1 U	1 U	-	-
26-Oct-06	5.98	699.47	12.82	434	3.3	124.1	0.82	6.12	320	-	1 U	1 U	-	-
13-Nov-06	3.02	702.43	11.7	386	5.06	187.8	2.47	6.13	280	-	1 U	1 U	-	-
20-Dec-06	3.60	701.85	9.64	379	4.3	150.5	1.03	6.07	250	-	1 U	1 U	-	-
23-Jan-07	3.68	701.77	8.37	239	3.96	58.9	0.66	6.28	220	-	1 U	1 U	-	-
14-Feb-07	3.74	701.71	8.18	325	2.85	110.8	0.53	6.25	210	-	1 U	1 U	-	-
27-Mar-07	3.32	702.13	8.27	289	2.07	61.5	0.88	6.83	210 J	-	1 U	1 U	-	-
17-Apr-07	3.89	701.56	9.59	306	1.8	102.3	2.31	6.34	190	-	1 U	1 U	-	-
30-May-07	4.70	700.75	11.27	285	1.78	101.7	1.37	6.37	180	-	1 U	1 U	-	-
20-Jun-07	4.69	700.76	12.37	350	1.67	9.3	1.25	6.9	240 J	-	1 U	1 U	-	-
31-Jul-07	6.38	699.07	14.57	402	1.15	5.5	0.6	6.37	250	-	1.29	1 U	-	-
29-Aug-07	7.44	698.01	13.78	353	1.11	128.3	1.87	6.18	280 J	-	1 U	1 U	-	-
27-Sep-07	8.25	697.20	13.6	375	0.96	142.6	0.7	6.7	300	-	1 U	1 U	-	-
29-Nov-07	3.93	701.52	10.13	428	3.17	197.3	1.63	6.32	270	-	1 U	1 U	-	-
12-Dec-07	5.82	699.63	9.51	384	3.37	185	0.8	6.06	260	-	1 U	1 U	-	-
24-Jan-08	3.86	701.59	7.74	354	3.09	109	-	6.35	250	-	1 U	1 U	-	-
28-Feb-08	4.04	701.41	-	-	-	-	1.06	-	220	-	1 U	1 U	-	-
19-May-08	4.35	701.10	9.79	329	1.38	209.2	1.2	6.08	200 J	-	1 U	1 U	-	-
26-Aug-08	7.83	697.62	12.66	431	1.38	210.5	0.28	6.19	270	-	1 U	1 U	3000 U	-
18-Nov-08	3.64	701.81	10.43	235	3.95	217.5	0.66	6.03	210	-	1 U	1 U	3000 U	-
11-Feb-09	4.09	701.36	7.24	188	2.13	-	0.12	6.54	180	-	1 U	1 U	3000 U	-
19-May-09	3.79	701.66	8.19	173	1.28	111.9	1.78	7.18	170 J	-	1 U	1 U	3000 U	-
22-Sep-09	9.70	695.75	16.5	440	0.82	383.3	12.5	6.31	370 J	-	2 U	2 U	1200 J	-
17-Dec-09	3.47	701.98	9.2	311	4.37	470	16	6.25	110	-	2 U	2 U	700 J	-
24-Mar-10	3.87	701.58	9.4	410	0.34	204.8	30.7	6.65	240	-	0.81 J	2 U	1300 J	-
16-Jun-10	3.77	701.68	10.3	298	0.99	397.8	1.11	7.4	180	-	3.6	2 U	900 J	-
21-Sep-10	5.82	699.63	13.7	350	1.01	302.5	1.04	6.25	200	-	1.4 J	0.2 J	1200 J	-
7-Dec-10	3.83	701.62	9.6	283	0.72	405.6	0.42	6.16	190	-	2 U	2 U	800 J	-
30-Mar-11	3.91	701.54	8.2	133.3	0.51	248.2	0.29	9.87	140 J	-	0.35 J	2 U	5000	-
22-Jun-11	3.99	701.46	11	219.3	0.16	222.5	0.22	6.13	160	-	5 U	2 U	700 J	-
28-Sep-11	8.54	696.91	14.3	34.5	0.26	333.9	2.45	6.3	270	-	5 U	2 U	2100 J	-
15-Dec-11	4.12	701.33	9.4	217	1.15	414.3	2.74	6.28	200	-	5 U	2 U	1200 J	-
21-Mar-12	3.35	702.10	8.4	346	0.42	438.4	0.48	6.14	220	-	4.8	0.4 U	1300 J	-
19-Jun-12	3.78	701.67	11.3	290.1	0.09	314	0.46	6.28	170 J+	-	1.3	0.4 U	3300 U	-
20-Sep-12	8.53	696.92	14.4	419	0.26	309	1.07	6.39	240	-	1.6	0.4 U	2900 J	-
18-Dec-12	3.49	701.96	9.1	491	2.56	264.4	1.38	6.63	170	-	1 U	0.4 U	1200 J	-
26-Feb-13	3.91	701.54	8.4	324	2.59	404.2	1.01	7.03	140	-	1.1	0.4 U	3400	-
23-May-13	3.76	701.69	10.6	338	1.15	465.9	0.57	6.31	190	-	1 U	0.4 U	3300 U	-
22-Aug-13	8.28	697.17	13.1	284.2	0.33	32.2	0.89	6.34	220	-	0.4	0.1 U	1260	-
19-Nov-13	3.33	702.12	10.3	323	1.7	109.2	0.64	6.27	200	-	0.2	0.1 U	750	-
1-Apr-14	3.69	701.76	8.2	243.6	0.45	180.7	0.28	6.33	173	-	0.18 J	0.1 U	710	-
22-May-14	4.52	700.93	10.8	195	0.65	75	-	7.2	152	-	0.3	0.1	600	-
13-Aug-14	7.56	697.89	12.62	269	0.44	37.7	1.12	5.89	181	-	0.8	0.1 U	890	-
12-Nov-14	3.73	701.72	11.7	230.9	1.29	108.2	1.32	6.17	191	-	0.3	0.1 U	950	-
11-Feb-15	3.50	701.95	9.2	270.4	0.53	-34.2	0.73	6.3	170	-	0.2	0.1 U	680	-
4-May-15	4.69	700.76	10.9	249.5	0.28	378.1	0.57	6.29	341	-	0.2	0.1 U	610	-
5-Aug-15	9.44	696.01	13.9	316	0.72	-38.1	1.16	6.45	262	-	0.3	0.1 U	1230	-
3-Nov-15	4.21	701.24	11.8	192.2	8.59	205.6	5.39	6.34	166	-	0.2 J	0.1 U	790	-
9-Feb-16	3.82	701.63	9.2	291.8	4.61	230.7	0.49	6.45	164	-	0.17 J	0.1 U	790	-
3-May-16	4.61	700.84	10.9	310	2.39	253	1.01	6.34	178	-	0.3	0.01 J-	940	-
24-Aug-16	8.76	696.69	13.2	286.7	1.24	490.4	1.01	6.35	177	-	0.2 J	0.1 U	840	-

Table A-2d: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Well MW-4A
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters								Gen. Chem.	Metals (ug/L)				
	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[a]	-	-	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
1-Nov-16	3.34	702.11	12.2	100	3.69	177.2	0.4	6.38	205	-	0.19 J	0.1 U	971	-
2-Feb-17	3.94	701.51	7.8	363	3.11	190	0.1	6.39	223	-	0.17 J	0.1 U	819	-
31-May-17	4.68	700.77	10.3	300	4.5	-	2.48	6.3	182	-	0.203	0.1 U	795	-
18-Aug-17	8.61	696.84	12.7	393	0.51	120.2	0.87	6.44	228	-	0.308	0.1 U	1300	-
10-Nov-17	3.58	701.87	11	264.4	3.88	56.5	0.76	6.01	217	-	0.186 J	0.1 U	669	-
27-Feb-18	3.76	701.69	8.3	302.1	3.19	221.1	0.55	6.29	238	-	0.176 J	0.1 U	875	-
2-May-18	4.02	701.43	10	343	3.02	-	0.59	6.36	215	-	0.15 J	0.1 UJ	980	-
22-Aug-18	9.35	696.10	12.17	330	1.99	142	2.31	6.27	265	-	0.315	0.1 U	1230	-
7-Nov-18	5.25	700.20	11.7	316.7	5.45	124.4	0.76	6.23	250	-	0.199 J	0.1 U	843	-
11-Mar-19	3.96	701.49	7.6	226.3	3.96	220.8	0.7	6.38	233	-	0.146 J	0.1 U	918	-
9-May-19	4.70	700.75	12.5	282.5	3.6	82.3	1.56	6.14	230	-	0.154 J	0.1 U	816	-
26-Aug-19	8.20	697.25	13.13	374	0.86	Note 1	0.02	6.3	264	-	0.3	0.1 U	928	-
14-Nov-19	4.35	701.10	10.8	309.4	3.19	109.5	0.02	6.15	240	-	0.251	0.1 U	894	-
13-Feb-20	3.70	701.75	7.9	283.7	2.98	102.2	0.91	6.18	283	-	0.176 J	0.1 U	859	-
13-Aug-20	7.73	697.72	13.5	334.3	0.62	58.3	0.51	6.19	238	-	0.711	0.1 U	921	-
10-Dec-20	3.45	702.00	9.8	364	6.11	169	1.56	6.51	297	-	0.296	0.1 U	1260	-
4-Mar-21	3.72	701.73	8.3	304	2.83	137	0.49	6.47	255	-	0.192 J	0.1 U	876	-
10-Jun-21	5.32	700.13	11.9	338.7	1.23	108.5	0.73	6.09	220	-	0.228	0.1 U	787	-
15-Oct-21	7.69	697.76	12.6	341.3	6.91	133.9	20.5	6.37	363 J-	0.18 J	0.99	0.151	1480	4.09
7-Jan-22	3.40	702.05	8.7	248.4	4.37	211.1	3.08	6.29	270	0.2 U	0.383	0.1 U	774 J	1.73
18-Mar-22	3.52	701.93	9.1	340.6	3.26	123.8	1.85	6.63	320	0.2 U	0.279	0.1 U	1140	1.53
22-Jun-22	3.83	701.62	10.1	327.8	1.36	114.5	0.46	6.36	263	0.2 U	0.201	0.1 U	666	1.16
14-Sep-22	8.9	696.55	13.4	389.4	2.46	87.6	2.53	6.02	330	0.2 U	0.385	0.1 U	1080	1.19
14-Dec-22	3.88	701.57	9.1	278	7.03	135.4	0.44	6.35	224	0.2 U	0.188 J	0.1 U	583	1.42
16-Mar-23	3.39	702.06	7.9	468.9	4.44	111.7	2.92	6.3	264	0.2 U	0.159 J	0.1 U	616	1.13
27-Jun-23	6.27	699.18	11.4	308.1	3.02	74.9	1.06	6.2	246	0.2 U	0.19 J	0.5 U	745	1.24
8-Sep-23	9.88	695.57	12.8	560.7	1.14	57.3	9.67	6.45	329 J-	0.101 U	0.317	0.0513 U	1170	1.14
14-Dec-23	3.78	701.67	9.7	497	6.6	227.1	1.2	6.37	255	0.202 U	0.218 J	0.257 U	527	1.25
7-Mar-24	3.72	701.73	8.7	576	4.82	171.9	0.66	6.37	320	0.202 U	0.4 U	0.103 U	708	1.18
17-Jun-24	4.00	701.45	10.8	451.3	6.22	77.4	0.62	6.26	226	0.202 U	0.18 J	0.103 U	452 J	0.85
17-Sep-24	8.33	697.12	12.2	576	6.2	132	1.9	6.38	304	0.202 U	0.482	0.103 U	931	2.42 J
12-Dec-24	3.67	701.78	9.5	583	0.59	153.2	0.95	6.35	341	0.150 U	0.338	0.0680 U	1180	0.864
24-Mar-25	3.42	702.03	9.3	558.7	2.28	91	6	6.39	324	0.3 U	0.3 J	0.2 U	1050	0.592
9-Jun-25	6.24	699.21	13.4	505	0.63	79.4	2.62	6.52	270	0.75 U	0.5 U	0.5 U	831	0.58 J
15-Sep-25	10.20	695.25	14.1	648	0.94	-496.2	4.5	6.18	347	0.75 U	0.5 U	0.5 U	1470	1.19
19-Dec-25	3.48	701.97	9.6	508.0	5.24	223.9	3.61	6.46	235	0.150 U	0.201	0.100 U	881	1.35

Notes:
Top of casing elevation (feet NAVD88): 705.45

Dissolved metals were analyzed at the Site until December 2020 (Q4 2020). Total metals were analyzed for Q4 2020 and will continue to be analyzed moving forward. Iron and manganese are not included in the COPCs at the Site and are not analyzed beginning in Q2 2021. Antimony and Vanadium were included as COPCs for surface water locations and shallow groundwater monitoring wells at the Site beginning in Q3 2021.

-	Not measured or not available
	Orange shaded values indicate parameter results above the Cleanup Level (CUL), except for pH, which could be above or below the CUL
a	CUL provided in Remedial Investigation Report (WSP 2025)
U	Data validation code; not detected at the Reporting Limit (RL)
J	Data validation code; estimated value
J+	Data validation code; estimated value with positive bias
J-	Data validation code; estimated value with low bias
°C	Degrees Celsius
Note 1	ORP measurements not available due to faulty sensor.
ug/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
feet NAVD88	Feet NAVD88 Datum
mg/L	Milligrams per liter
mV	Millivolts
NTU	Nephelometric Turbidity Unit
TOC	Top of casing inside PVC well

Table A-2e: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Well MW-5A
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters								Gen. Chem.	Metals (ug/L)				
	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[a]	-	-	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
15-Jul-05	33.33	577.90	12.02	956	-	-	496	7.34	600	-	2.01	2 U	-	-
10-Nov-05	29.62	581.61	11.24	1212	-	-	27.6	7.32	800	-	8.4	1 U	-	-
15-Feb-06	21.70	589.53	6.45	665	2.59	280.3	11.1	7.86	520 J	-	22.3	1 U	-	-
17-May-06	29.80	581.43	7.74	831	0.88	101.9	8.67	7.79	580	-	11	1 U	-	-
23-Aug-06	33.25	577.98	15.19	737	1.76	33.5	19.6	7.32	660	-	2.53	1 U	-	-
14-Nov-06	17.79	593.44	10.86	699	4.5	76.3	38.7	7.55	490	-	3.15	1 U	-	-
16-Feb-07	27.08	584.15	8.08	630	6.07	2.3	57.6	8.26	500	-	14.4	1 U	-	-
30-May-07	30.75	580.48	9.6	894	2.59	13.3	13.4	7.76	540	-	8.43	1 U	-	-
29-Aug-07	33.60	577.63	9.56	684	7.64	67	-	7.1	670 J	-	1.97	1 U	-	-
29-Nov-07	30.60	580.63	11	1075	3.53	151.5	23.5	8.37	560	-	5.17	1 U	-	-
27-Feb-08	25.68	585.55	-	-	-	-	29.9	-	400	-	10.7	1 U	-	-
20-May-08	29.73	581.50	7.93	768	4.27	180.7	77.8	7.39	480 J	-	5.67	1 U	-	-
27-Aug-08	33.97	577.26	10.17	862	4.07	81.2	-	7.43	540 J	-	1.17	1 U	87500	-
26-Sep-08	*Test Trench Drain Line Installed*													
16-Oct-08	33.55	577.68	8.89	845	5.39	86.3	852	7.53	440 J	-	1.03	1 U	90700	-
20-Nov-08	23.48	587.75	9.34	577	5.27	234.3	9.48	7.5	470	-	6.24	2 U	138000	-
30-Dec-08	20.88	590.35	8.39	510	8.89	99	44.8	8.02	430 J	-	14.2	1.11	138000	-
15-Jan-09	18.50	592.73	4.97	347	8.9	154.8	17.2	8.47	380	-	24.4	1 U	104000	-
12-Feb-09	27.90	583.33	8.47	-	10.21	-	22	7.6	420 J	-	6.11	1 U	99000	-
12-Mar-09	29.19	582.04	7.47	521	6.15	171.7	26.8	7.39	480	-	8.97	1 U	124000	-
16-Apr-09	21.70	589.53	6.99	456	7.6	151.6	72.7	8.66	470	-	28.2	1.01	126000	-
19-May-09	28.37	582.86	8.08	509	6.38	64.4	31.3	8.07	450 J	-	9.19	1 U	105000	-
23-Jun-09	31.95	579.28	8.84	551	5.97	69.1	74.3	8.28	500	-	4.3	2 U	71000	-
24-Sep-09	35.29	575.94	11.7	714	2.28	371.9	258	7.26	550 J	-	0.76 J	0.17 J	88000	-
15-Dec-09	26.11	585.12	8.6	928	2.89	544	89	7.14	450	-	1.1 J	2 U	110000	-
24-Mar-10	27.86	583.37	8.3	697	3.52	505.1	18.1	7.47	450	-	23	0.46 J	110000	-
16-Jun-10	21.35	589.88	10.7	783	2.07	379	41.4	7.73	340	-	53	0.0021	150000	-
22-Sep-10	33.88	577.35	10.4	938	4.3	467.1	7.93	7.1	620	-	5	2 U	100000	-
7-Dec-10	25.22	586.01	10.2	781	3.86	353.7	11.1	7.39	500	-	12	0.53 J	130000	-
29-Mar-11	23.59	587.64	7	354	3.47	708	22.22	9.52	440 J	-	63	1.4 J	140000	-
21-Jun-11	28.33	582.90	11.6	1000	2.22	285.3	10.6	9.06	1100 J	-	43	1.2 J	180000	-
27-Sep-11	34.70	576.53	12.7	641	1.46	307.2	12.8	7.3	680	-	5 U	0.23 J	100000	-
14-Dec-11	29.46	581.77	9.5	691	1.95	757.1	9.69	7.35	690	-	6.9	0.18 J	180000	-
20-Mar-12	19.50	591.73	6.2	841	3.98	320.2	8.52	8.25	350	-	26	1 J	140000	-
19-Jun-12	27.91	583.32	10.2	800	3.22	365.9	2.76	7.66	510	-	8.7	0.4 U	120000	-
20-Sep-12	34.53	576.70	11	859	0.73	387	46.8	7.64	530	-	2.6	0.4 U	100000	-
19-Dec-12	21.26	589.97	8.9	983	1.73	279	778	7.71	530	-	11	0.62	180000	-
25-Feb-13	27.19	584.04	7.5	682	7.61	330.5	4.36	7.85	380	-	13	0.15 J	74000	-
22-May-13	29.09	582.14	8.8	828	3.88	411.4	8.11	8.29	350	-	25	0.53	100000	-
21-Aug-13	35.15	576.08	17.1	1248	3.41	114.2	144	7.78	1060	-	1.5	0.05 J	95000	-
20-Nov-13	27.45	583.78	10	1032	4.13	196.5	31.7	7.18	699	-	14.5	1.4	202000	-
1-Apr-14	21.08	590.15	8.4	567	3.04	168.2	15.7	10.24	413	-	62.7	1.5	150000	-
21-May-14	26.11	585.12	10.3	670	0.49	198.4	-	7.45	565	-	95	1.6	166000	-
12-Aug-14	34.56	576.67	14.07	812	3.64	87.7	1519	7.51	560	-	3	0.1 U	107000	-
13-Nov-14	29.48	581.75	12.9	1135	3.5	241.7	10.46	7.69	956	-	20.8	0.1	295000	-
11-Feb-15	20.81	590.42	7.7	619	6.17	81.4	18	9.63	430	-	39.2	1.3	126000	-
4-May-15	29.80	581.43	10.5	924	2.54	361.3	8.7	9.74	623	-	42.3	0.5	192000	-
6-Aug-15	36.08	575.15	12.8	781	2.4	129.6	261	7.24	DRY	-	DRY	DRY	DRY	-
4-Nov-15	30.80	580.43	10.7	1234	4.98	205.6	11.8	7.13	1130	-	6.6	0.3	318000	-
10-Feb-16	23.56	587.67	6.4	602	1.62	197.7	11.9	10.19	451	-	132	1.4	148000	-
2-May-16	30.19	581.04	11.5	1008	0.8	110.6	9.76	10.14	751	-	171	2.7 J-	232000	-
23-Aug-16	35.79	575.44	13.1	729	2	436.2	51.4	7.2	1010	-	4.01	0.1 U	137000	-
2-Nov-16	29.06	582.17	10.9	570	4.98	103.1	32.1	7.55	1180	-	11.2	0.56	372000	-
1-Feb-17	26.86	584.37	8.1	992	2.21	99.7	7.19	9.73	632	-	109	0.971	194000	-
30-May-17	26.86	584.37	10.5	814	6.12	5.83	5.74	9.73	487	-	42.5	0.36 J+	168000	-
17-Aug-17	34.23	577.00	11.7	1054	5.43	125.1	5.68	7.65	731	-	6.52	0.1 U	156000	-
10-Nov-17	29.96	581.27	10	1077	4.65	85.2	10.5	7.18	953	-	5.82	0.338	308000	-
27-Feb-18	23.02	588.21	7.7	584	1.91	120.4	12.6	9.96	530	-	86.3	0.642	174000	-
1-May-18	24.85	586.38	9.1	1082	2.16	-	11.8	10.34	682	-	113	0.775 J+	196000	-

Table A-2e: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Well MW-5A
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters								Gen. Chem.	Metals (ug/L)				
	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[a]	-	-	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
21-Aug-18	35.17	576.06	14.83	1095	4.02	131	123	7.4	936	-	3.65	0.1 U	214000	-
6-Nov-18	32.00	579.23	10.3	1192	5.93	198.1	2.35	7.49	1200	-	4.87	0.077 J	363000 J+	-
13-Mar-19	25.12	586.11	7.4	695	2.19	189.7	15.8	9.48	632	-	44.1	0.633	200000	-
8-May-19	27.89	583.34	10.7	844	4.95	60.5	5.19	9.3	697	-	41.9	0.677	182000	-
26-Aug-19	35.02	576.21	11.89	1111	1.52	Note 1	22.9	7.26	995	-	2.46	0.1 U	177000	-
13-Nov-19	33.00	578.23	9.8	932	5.27	66.1	0.02	7.18	776	-	3.89	0.1 U	211000	-
12-Feb-20	18.23	593.00	7	533	7.58	140.4	10.6	8.32	463	-	6.31	0.145	183000	-
12-Aug-20	34.50	576.73	11.2	1381	4	125	2.75	7.52	1250	-	5.37	0.1 U	333000	-
9-Dec-20	29.90	581.33	9.8	1105	4.51	222	8.32	7.29	897	-	3.12	0.295	263000	-
3-Mar-21	24.81	586.42	9.2	899	3.04	225	3.09	7.6	792	-	3.74	0.132	247000	-
9-Jun-21	33.20	578.03	9.3	875	5.23	184	1.26	7.27	700	-	2.62	0.063 J	205000	-
13-Oct-21	31.70	579.53	9.5	1934	5.97	194	9.56	7.22	DRY	DRY	DRY	DRY	DRY	DRY
5-Jan-22	23.00	588.23	9.2	972	4.7	271.1	1.4	7.18	829	6.42	3.38	0.085 J	252000	1.8
16-Mar-22	21.48	589.75	7.8	724	7.0	187	2.65	6.6	711	6.01	4.02	0.11	223000	1.52
23-Jun-22	25.74	585.49	9.6	969	3.5	173.1	1.13	7.38	881	5.49	3.29	0.093 J	251000	1.82
23-Sep-22	35	576.23	11.5	1640	3.45	223.6	1.35	7.42	1720	4.57	3.21	0.156 J	455000	1.58
13-Dec-22	30.22	581.01	10.4	928	7.08	109.2	2.27	7.04	634	3.54	1.89	0.105 J+	173000	1.25
13-Mar-23	27.15	584.08	8.1	1685	5.49	172.5	1.43	7.47	1090	5.83	3.39	0.068 J	318000	1.64
26-Jun-23	32.57	578.66	11.1	1559	4.28	74.7	1.29	7.49	1510	6.99	4.55	0.2 U	475000	2.17
5-Sep-23	35.67	575.56	Insufficient depth of water to sample											
12-Dec-23	19.96	591.27	9.7	1260	6.44	152.6	2.92	7.07	847	4.62	2.69	0.103 U	225000	1.71
4-Mar-24	24.62	586.61	8.4	1191	6.08	237	0.63	7.35	984 J	6.37	4.28	0.103 U	294000	1.62
18-Jun-24	30.41	580.82	9.9	2586	8.65	176.1	0.88	7.51	1430	7.1	3.91	0.103 U	456000	1.81
16-Sep-24	34.45	576.78	10.8	1940	7.65	228.6	4.82	7.54	1340	6.16	4.56	0.244	986000	1.82
11-Dec-24	28.94	582.29	9.7	1717	3.17	194.8	3.04	7.15	1090	5.52	2.66	0.165	317000	1.6
26-Mar-25	22.77	588.46	8.1	1449	8.6	178.5	2.84	7.24	912	4.63	3.31	0.2 U	272000	1.43
11-Jun-25	32.35	578.88	10.1	1229	5.8	91.2	0.27	7.31	727	3.22	2.01	0.5 U	203000	0.985 J
17-Sep-25	35.70	575.53	16.9	1972	8.27	-260.5	1.34	7.13	1410	1.68	1.49	0.5 U	288000	0.995 J
18-Dec-25	16.92	594.31	9.3	909.0	7.51	184.6	4.50	7.21	550	4.54	3.18	0.200 U	165000	1.69

Notes:
Top of casing elevation (feet NAVD88): 611.23

Dissolved metals were analyzed at the Site until December 2020 (Q4 2020). Total metals were analyzed for Q4 2020 and will continue to be analyzed moving forward. Iron and manganese are not included in the COPCs at the Site and are not analyzed beginning in Q2 2021. Antimony and Vanadium were included as COPCs for surface water locations and shallow groundwater monitoring wells at the Site beginning in Q3 2021.

-	Not measured or not available
	Orange shaded values indicate parameter results above the Cleanup Level (CUL), except for pH, which could be above or below the CUL
DRY	Well went dry during sampling. Unable to collect sample.
a	CUL provided in Remedial Investigation Report (WSP 2025)
U	Data validation code; not detected at the Reporting Limit (RL)
J	Data validation code; estimated value
J+	Data validation code; estimated value with positive bias
J-	Data validation code; estimated value with low bias
°C	Degrees Celsius
Note 1	ORP measurements not available due to faulty sensor.
ug/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
feet NAVD88	Feet NAVD88 Datum
mg/L	Milligrams per liter
mV	Millivolts
NTU	Nephelometric Turbidity Unit
TOC	Top of casing inside PVC well

Table A-2f: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Well MW-6A
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters								Gen. Chem.	Metals (ug/L)				
	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[a]	-	-	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
15-Jul-05	30.89	578.06	15.26	735	-	-	303	7.6	612	-	2 U	2 U	-	-
10-Nov-05	27.25	581.70	11.79	700	-	-	13.7	7.51	460	-	2.16	1 U	-	-
15-Feb-06	19.42	589.53	6.17	759	2	162.9	9.42	8.27	550 J	-	7.54	1 U	-	-
17-May-06	27.55	581.40	11.99	835	1.31	248.3	4.16	7.46	550	-	11	1 U	-	-
23-Aug-06	30.99	577.96	15.92	862	1.6	-26.4	15.5	7.4	810	-	1.34	1 U	-	-
14-Nov-06	15.30	593.65	10.56	712	4.59	84.1	14.5	7.32	500	-	1.71	1 U	-	-
16-Feb-07	24.22	584.73	8.49	581	3.64	38.6	139	7.21	420	-	1.6	1 U	-	-
30-May-07	28.50	580.45	13.93	1092	2.72	180.7	210	7.4	740	-	16.2	1 U	-	-
29-Aug-07	31.34	577.61	10.15	701	4.48	84.8	662	7.8	620 J	-	1.41	1 U	-	-
29-Nov-07	28.32	580.63	11.3	731	6.23	154	-	6.26	420	-	1.78	1 U	-	-
27-Feb-08	23.42	585.53	-	-	-	-	-	-	410	-	1.47	1 U	-	-
20-May-08	27.49	581.46	8.14	791	3.93	176.5	-	7.64	540 J	-	8.18	1 U	-	-
27-Aug-08	31.72	577.23	9.33	776	4.83	142	-	7.32	660 J	-	1.86	1 U	109000	-
26-Sep-08	*Test Trench Drain Line Installed*													-
16-Oct-08	31.29	577.66	9.17	923	4.6	115.4	-	7.13	590 J	-	1.85	1 U	106000	-
20-Nov-08	21.18	587.77	9.7	578	5.22	249.4	11.7	7.4	460	-	4.42	2 U	110000	-
30-Dec-08	18.64	590.31	8.45	448	9.27	137.9	75.8	7.89	370 J	-	11.9	1.14	106000	-
15-Jan-09	16.23	592.72	6.84	344	9.25	181.9	2.77	7.47	320	-	4.88	1 U	72900	-
12-Feb-09	25.64	583.31	7.89	-	10.82	-	71.7	7.7	420	-	11	1 U	103000	-
12-Mar-09	26.92	582.03	7.27	524	8.31	166.7	116	7.76	500	-	23.5	1 U	125000	-
16-Apr-09	19.46	589.49	7.33	406	7.57	182.8	91.8	8.33	430	-	24.1	1.09	101000	-
19-May-09	26.10	582.85	9.07	554	6.39	65.6	161	8.32	550 J	-	13.4	1 U	115000	-
23-Jun-09	29.67	579.28	9.51	522	6.05	71.4	-	8.17	540	-	3.1	2 U	74000	-
24-Sep-09	32.93	576.02	10.6	745	4.02	361.3	29.8	7.27	560 J	-	0.28 J	2 U	100000	-
15-Dec-09	23.87	585.08	9.5	815	4.2	556	20	7.15	450	-	2 U	2 U	120000	-
24-Mar-10	25.61	583.34	8.5	704	4.93	205.6	20.5	8.53	490	-	47	0.9 J	140000	-
16-Jun-10	19.11	589.84	10.4	553	4.79	399.8	13.4	7.22	310	-	16	2 U	90000	-
22-Sep-10	31.61	577.34	11.3	1019	3.89	413.8	20.3	7.1	770	-	6.2	0.24 J	130000	-
8-Dec-10	23.10	585.85	87.9	751	6.24	437.1	9.55	8.77	520	-	43	1.3 J	130000	-
29-Mar-11	21.32	587.63	7.1	303	4.76	809.4	13.4	9.35	350 J	-	43	0.55 J	110000	-
21-Jun-11	26.04	582.91	11.2	840	3.24	300.2	8.5	8.4	790	-	18	0.58 J	110000	-
28-Sep-11	32.43	576.52	10.9	66.6	3.92	415.6	8.32	7.3	590	-	5 U	0.19 J	110000	-
14-Dec-11	27.19	581.76	9	605	1.56	329.9	21.9	7.89	570	-	11	0.79 J	150000	-
20-Mar-12	17.23	591.72	6.7	639	5.03	362.5	59.9	7.79	200	-	17	2 U	79000	-
19-Jun-12	25.63	583.32	9.6	681	5.24	373.2	5.94	7.43	430	-	7.4	0.4 U	76000	-
19-Sep-12	32.12	576.83	11.7	786	3.49	290	7.36	7.38	460	-	5.7	0.4 U	81000	-
19-Dec-12	19.00	589.95	8.9	977	4.55	308	26.9	7.98	440	-	20	1.3	150000	-
25-Feb-13	24.93	584.02	7.1	766	7.59	306.9	6.18	8.2	450	-	34	0.73	120000	-
22-May-13	26.84	582.11	9.1	705	3.94	412.9	5.97	9.33	430	-	43	0.52	140000	-
21-Aug-13	32.84	576.11	11.2	879	4.54	110.2	8.28	8.28	548	-	9.5	0.1 U	106000	-
20-Nov-13	25.21	583.74	11.1	1264	4.69	201.4	30.8	7.55	640	-	24.9	1.9	163000	-
1-Apr-14	18.81	590.14	8.4	448	3.5	194.9	14.7	8.87	342	-	14.8	0.3	78400	-
21-May-14	23.84	585.11	10.6	122	1.32	199.3	-	8.46	352	-	18	0.2	80400	-
13-Aug-14	32.25	576.70	12.46	796	5.77	54	8.01	8.68	628	-	16.1	0.1 U	165000	-
13-Nov-14	27.21	581.74	13.3	837	4.02	234.3	11.4	8.63	711	-	44.1	0.4	203000	-
11-Feb-15	18.54	590.41	8.4	609	1.75	16	87.4	9.71	435	-	36.2	1	117000	-
4-May-15	27.52	581.43	9.9	974	3.27	356.5	12.3	10.14	654	-	41.6	0.5	199000	-
6-Aug-15	33.98	574.97	11.7	822	1.77	113.7	4.02	8.83	670	-	19.1	0.1 U	210000	-
4-Nov-15	28.51	580.44	11.7	1207	4.85	206.3	21.2	7.48	1090	-	7.7	1	370000	-
10-Feb-16	20.96	587.99	6.9	712	2.3	145.8	20.1	10.82	575	-	121	1.1	173000	-
2-May-16	28.91	580.04	10.6	1856	0.19	111.2	15.6	11.53	1010	-	199	2.5 J-	347000	-
23-Aug-16	33.58	575.37	11.4	1241	0.43	462	8.89	9.51	1150	-	38.9	0.341	349000	-
2-Nov-16	26.92	582.03	11.6	409	5.05	14.4	40.6	9.15	911	-	25.6	1.49	297000	-
1-Feb-17	24.61	584.34	6.2	1757	2.34	72.1	11.7	11.97	880	-	141	0.336	283000	-
30-May-17	24.56	584.39	10.8	1026	2.45	5.69	16.9	10.5	629	-	72.8	0.52 J+	210000	-
17-Aug-17	32.04	576.91	13.1	1019	3.94	87.3	42.7	9.36	726	-	20.3	0.15	219000	-
10-Nov-17	27.72	581.23	11.6	1090	4.17	109.6	38.2	9.12	931	-	24.3	2.77	356000	-
27-Feb-18	20.78	588.17	7	823	3.99	59.3	12	11.29	635	-	99.3	0.561	203000	-
1-May-18	22.58	586.37	8.9	1442	3.52	-	17.7	11.49	817	-	119	0.831 J+	250000	-
21-Aug-18	33.09	575.86	13.18	1153	1.01	139.8	9.68	10.06	989	-	53.6	0.345	334000	-
6-Nov-18	29.74	579.21	11.1	1719	3.85	218.4	6.49	8.13	1860	-	3.04	0.367	701000 J+	-
13-Mar-19	22.90	586.05	5.8	748	5.04	145.7	32	10.55	737	-	39.1	0.455	246000	-
8-May-19	25.63	583.32	9.1	936	5.95	75.9	7.6	10.38	747	-	54.7	1.27	246000	-
26-Aug-19	32.90	576.05	11.18	1622	0.88	Note 1	6.57	8.97	1510	-	18.8	0.507	478000	-

Table A-2f: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Well MW-6A
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters								Gen. Chem.	Metals (ug/L)				
	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[a]	-	-	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
13-Nov-19	30.92	578.03	10.2	1320	1.45	172.7	5.1	8.33	1140	-	6.31	0.1 U	422000	-
12-Feb-20	15.95	593.00	7.7	437.7	1.4	150.6	19.7	8.13	379	-	2.12	0.1 U	122000	-
12-Aug-20	32.30	576.65	11	2360	2.25	162.9	13.4	8.16	2060	-	6.28	0.088 J	709000	-
9-Dec-20	27.60	581.35	10.8	1750	1.95	209	22	8.22	1500	-	3.14	0.984	539000	-
3-Mar-21	22.58	586.37	7.1	760	1.74	208	5.6	8.04	722	-	3.09	0.307	243000	-
9-Jun-21	31.07	577.88	9.8	2077	4.83	197.3	1.81	8.08	1900	-	5.03	0.094 J	707000	-
13-Oct-21	29.39	579.56	11.2	2509	4.77	188.6	13.1	7.64	DRY	DRY	DRY	DRY	DRY	DRY
6-Jan-22	20.72	588.23	7.3	1136	8.21	229.4	2.04	7.98	1040	7.89	2.41	0.115	333000	0.912
16-Mar-22	19.23	589.72	7.3	828	7.3	176.4	3.63	7.57	808	7.90	2.85	0.155	255000	0.935
23-Jun-22	23.49	585.46	11.2	916	3.74	163.1	0.76	7.66	836	7.00	2.09	0.073 J	265000	0.977
23-Sep-22	32.92	576.03	14.8	2281	3.73	199.3	2.05	8.05	2150	7.64	4.97	0.2 U	646000	2.52
13-Dec-22	27.98	580.97	12.4	1915	6.1	80.4	3.77	7.98	1350	12.4	5.64	0.865 J+	495000	1.26
14-Mar-23	24.91	584.04	6.8	2029	8.44	212.6	0.76	7.71	1190	6.7	1.87	0.1 U	387000	0.801
28-Jun-23	30.50	578.45	11	1640	2.57	222.4	1.22	7.78	1310	7.07	3.92	0.052 J	446000	1.73
5-Sep-23	Below Pump	-	11.6	2869	4.79	184.9	4.83	7.9	1930 J-	7.37	4.56	0.1	566000	2.33
12-Dec-23	17.75	591.2	9.4	1170	7.75	137.3	4.99	7.33	766	6.48	2.09	0.254	266000	1
4-Mar-24	22.36	586.59	7.3	1215	7.46	232.5	0.84	7.59	1070 J	7.92	2.83	0.103 U	359000	0.928
18-Jun-24	28.14	580.81	7.72	1515	11.01	176	0.49	7.72	784	5.06	1.49	0.103 U	270000	0.458
16-Sep-24	32.34	576.61	11.4	2433	8.03	235.6	2.04	7.74	1830	6.33	3.87	0.103 U	495000	1.76
11-Dec-24	26.68	582.27	10.4	2032	4.94	164.9	1.75	7.5	1360	8.89	2.23	0.176	444000	0.898
26-Mar-25	20.57	588.38	7.1	1623	9.61	181.5	9.06	7.5	977	6.55	2.1	0.2 U	328000	0.972
11-Jun-25	30.06	578.89	9.5	1203	6.8	92	0.84	7.5	731	3.59	1.42	0.5 U	245000	0.62 J
16-Sep-25	Below Pump	-	-	-	-	-	-	-	-	-	-	-	-	-
18-Dec-25	14.65	594.30	9.5	795.0	7.48	182.6	4.82	7.03	485	3.55	1.05	0.229	133000	0.632

Notes:
Top of casing elevation (feet NAVD88): 608.95

Dissolved metals were analyzed at the Site until December 2020 (Q4 2020). Total metals were analyzed for Q4 2020 and will continue to be analyzed moving forward. Iron and manganese are not included in the COPCs at the Site and are not analyzed beginning in Q2 2021. Antimony and Vanadium were included as COPCs for surface water locations and shallow groundwater monitoring wells at the Site beginning in Q3 2021.

-	Not measured or not available
	Orange shaded values indicate parameter results above the Cleanup Level (CUL), except for pH, which could be above or below the CUL
a	CUL provided in Remedial Investigation Report (WSP 2025)
DRY	Well went dry during sampling. Unable to collect sample.
U	Data validation code; not detected at the Reporting Limit (RL)
J	Data validation code; estimated value
J+	Data validation code; estimated value with positive bias
J-	Data validation code; estimated value with low bias
°C	Degrees Celsius
Note 1	ORP measurements not available due to faulty sensor.
ug/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
feet NAVD88	Feet NAVD88 Datum
mg/L	Milligrams per liter
mV	Millivolts
NTU	Nephelometric Turbidity Unit
TOC	Top of casing inside PVC well

Table A-2g: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Well MW-7A
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters								Gen. Chem.	Metals (ug/L)				
	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[a]	-	-	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
13-Oct-21	13.61	579.08	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10-Jan-22	4.73	587.96	7.00	467	5.45	197.0	2.99	7.34	419	3.89	2.07	0.1 U	98000	1.04
21-Mar-22	3.21	589.48	7.3	691	6.38	66.2	1.52	7.46	632	6.23	2.88	0.071 J	179000	1.34
22-Jun-22	7.45	585.24	12	541	1.88	107.5	0.47	7.21	387	2.91	1.78	0.1 U	65500	1.19
14-Sep-22	16.9	575.79	13.6	548	4.46	141	0.5	6.31	444	1.63	1.49	0.1 U	54000	1.16
14-Dec-22	12	580.69	8	514	5.35	170.1	0.41	7.07	335	1.64	1.18	0.1 U	42700	0.798
17-Mar-23	8.90	583.79	5.3	755	2.7	205.3	0.85	7.16	412	1.51	1.45	0.1 U	55300	0.774
28-Jun-23	14.57	578.12	13	561	0.46	119.6	0.42	6.83	364	0.785	1.24	0.407	26200	1.02
7-Sep-23	17.51	575.18	12	868	4.05	44	0.47	6.87	493 J-	1.3	1.43	0.0513 U	35100	1.07
15-Dec-23	2.53	590.16	9.2	1163	6.27	354.3	4.79	7.22	577	4.03	1.95	0.103 U	113000	1.25
6-Mar-24	6.52	586.17	6.4	850	7.35	254.1	0.66	7.24	588	3.01	2.14	0.103 U	111000	0.97
17-Jun-24	12.25	580.44	11.8	810	6.53	154.4	0.35	6.83	405	0.924	1.44	0.103 U	29800	0.996
17-Sep-24	16.38	576.31	15.2	762	7.57	175.9	2.53	6.97	445	1.29	1.7	0.103 U	28100	1.31
12-Dec-24	10.61	582.08	10	512	4.36	119.5	1.03	6.94	304	1.91	1.08	0.100 U	41800	0.83
27-Mar-25	4.19	588.50	7	667.8	1.47	117.6	3.87	7.06	397	0.628	1.43	0.2 U	23400	0.552
10-Jun-25	14.10	578.59	12	755	1.38	79.8	1.98	6.95	401	0.95 J	1.64	0.5 U	39600	1.09
18-Sep-25	17.66	575.03	14.1	887	2.28	-399.8	1.89	6.57	473	1	1.39	0.5 U	33300	1.3
31-Dec-25	1.96	590.73	10.0	512.0	4.36	119.5	1.03	6.94	304	1.91	1.08	0.100 U	41800	0.830

Notes:

Top of casing elevation (feet NAVD88): 592.69

Dissolved metals were analyzed at the Site until December 2020 (Q4 2020). Total metals were analyzed for Q4 2020 and will continue to be analyzed moving forward. Iron and manganese are not included in the COPCs at the Site and are not analyzed beginning in Q2 2021. Antimony and Vanadium were included as COPCs for surface water locations and shallow groundwater monitoring wells at the Site beginning in Q3 2021.

-	Not measured or not available
	Orange shaded values indicate parameter results above the Cleanup Level (CUL), except for pH, which could be above or below the CUL
a	CUL provided in Remedial Investigation Report (WSP 2025)
DRY	Well went dry during sampling. Unable to collect sample.
U	Data validation code; not detected at the Reporting Limit (RL)
J	Data validation code; estimated value
J-	Data validation code; estimated value with low bias
°C	Degrees Celsius
ug/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
feet NAVD88	Feet NAVD88 Datum
mg/L	Milligrams per liter
mV	Millivolts
NTU	Nephelometric Turbidity Unit
TOC	Top of casing inside PVC well

Table A-2h: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Well MW-8A
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters								Gen. Chem.	Metals (ug/L)				
	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[a]	-	-	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
13-Oct-21	23.91	577.58	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6-Jan-22	13.55	587.94	9.5	670	3.99	239.1	4.50	7.05	595	5.21	6.64	0.1 U	169000	3.87
21-Mar-22	12.11	589.38	8.0	587	7.13	45	3.32	7.71	536	4.76	7.48	0.1 U	163000	3.84
22-Jun-22	16.4	585.09	9.4	773	2.99	96	0.94	7.22	699	5.17	8.13	0.1 U	197000	4.73
12-Sep-22	26	575.49	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
13-Dec-22	21.16	580.33	10.4	1011	6.13	122.1	1.22	7.07	721	4.53	5.37	0.1 U	205000	3.61
17-Mar-23	17.86	583.63	9.2	1216	4.6	214.5	0.8	7.19	714	4.71	7.2	0.1 U	218000	4.22
28-Jun-23	24.08	577.41	10.2	845	1.85	176.3	0.58	7.19	656	4.03	5.91	0.1 U	189000	3.62
7-Sep-23	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15-Dec-23	11.34	590.15	9.8	1434	5.3	348.7	6.22	6.89	760	4.1	5.52	0.148 J	220000	3.64
6-Mar-24	15.41	586.08	8.3	926	8.1	304.5	0.74	7.06	622	4.93	6.67	0.103 U	159000	3.44
17-Jun-24	21.53	579.96	10.1	1378	8.54	167.8	0.83	7.14	719	4.28	5.97	0.103 U	195000	3.38
17-Sep-24	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12-Dec-24	8.00	DRY	9.9	812	6.40	215.90	11.80	6.96	468	4.06	4.85	0.200 U	134000	3.43
27-Mar-25	13.05	588.44	8.4	136.9	8.80	147.60	3.30	7.01	477	3.02	4.54	0.2 U	131000	2.25
10-Jun-25	23.52	577.97	-	-	-	-	-	-	487	3.11	4.55	0.5 U	116000	2.57
15-Sep-25	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19-Dec-25	8.00	593.49	9.9	812.0	6.40	215.9	11.80	6.96	468	4.06	4.85	0.200 U	134000	3.43

Notes:
Top of casing elevation (feet NAVD88): 601.49

Dissolved metals were analyzed at the Site until December 2020 (Q4 2020). Total metals were analyzed for Q4 2020 and will continue to be analyzed moving forward. Iron and manganese are not included in the COPCs at the Site and are not analyzed beginning in Q2 2021. Antimony and Vanadium were included as COPCs for surface water locations and shallow groundwater monitoring wells at the Site beginning in Q3 2021.

-	Not measured or not available
	Orange shaded values indicate parameter results above the Cleanup Level (CUL), except for pH, which could be above or below the CUL
a	CUL provided in Remedial Investigation Report (WSP 2025)
DRY	Well dry; unable to collect field parameters or samples
U	Data validation code; not detected at the Reporting Limit (RL)
J	Data validation code; estimated value
°C	Degrees Celsius
ug/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
feet NAVD88	Feet NAVD88 Datum
mg/L	Milligrams per liter
mV	Millivolts
NTU	Nephelometric Turbidity Unit
TOC	Top of casing inside PVC well

Table A-2i: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Well MW-9A
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters								Gen. Chem.	Metals (ug/L)				
	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[a]	-	-	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
15-Oct-21	4.38	692.91	12.20	956	1.45	-93.2	2.70	7.11	981 J-	0.659	4.79	0.139	16000	1.2
7-Jan-22	2.45	694.84	8.50	381	4.86	189.9	1.43	6.95	404	0.181 J	1.02	0.056 J	2910	1.03
18-Mar-22	2.38	694.91	8.50	423	5.19	138.3	1.17	7.16	403	0.154 J	0.788	0.1 U	2470	0.776
22-Jun-22	2.38	694.91	10.5	485.8	4.42	72.8	0.85	6.89	399	0.244	0.656	0.052 J	2130	0.916
14-Sep-22	8.7	688.59	13.5	509	3.84	130.2	1.09	6.44	441	0.154 J	1.05	0.1 U	2780	1.13
14-Dec-22	2.5	694.79	8	413.5	7.42	135.6	0.53	6.91	328	0.132 J	0.599	0.1 U	1630	0.867
16-Mar-23	2.39	694.9	6.6	556.2	5.25	120.9	1.6	6.85	337	0.119 J	0.508	0.1 U	1660	0.812
27-Jun-23	5.19	692.1	11.1	468.4	2.6	44.3	7.31	6.72	379	0.123 J	0.832	0.5 U	2120	1.3
8-Sep-23	11.47	685.82	Insufficient depth of water to sample											
13-Dec-23	2.48	694.81	9.1	623	6.85	127.8	3.2	6.4	297	0.202 U	0.47	0.103 U	1420	0.846
7-Mar-24	2.58	694.71	7.6	610	6.61	186.2	1.46	6.89	360	0.202 U	0.436	0.103 U	1790	0.64 J
17-Sep-24	7.55	689.74	13.2	593	7.28	161.8	1.02	6.96	321	0.234 J	0.54	0.103 U	2350	1
12-Dec-24	2.60	694.69	9.2	554	8.32	224.4	4.81	6.88	469	0.176 J	0.443	0.100 U	2390	0.962
24-Mar-25	2.54	694.75	8.7	551.8	3.64	115.5	2.68	6.73	358	0.3 U	0.358 J	0.2 U	1650	0.636
9-Jun-25	4.37	692.92	13	558	1.73	90.8	0.82	6.96	318	0.75 U	0.5 U	1.76	2280	0.74 J
16-Sep-25	12.56	684.73	14.6	786	4.26	-347.5	-	6.87	-	-	-	-	-	-
19-Dec-25	2.60	694.69	9.2	554.0	8.32	224.4	4.81	6.88	469	0.176 J	0.443	0.100 U	2390	0.962

Notes:
Top of casing elevation (feet NAVD88): 697.29

Dissolved metals were analyzed at the Site until December 2020 (Q4 2020). Total metals were analyzed for Q4 2020 and will continue to be analyzed moving forward. Iron and manganese are not included in the COPCs at the Site and are not analyzed beginning in Q2 2021. Antimony and Vanadium were included as COPCs for surface water locations and shallow groundwater monitoring wells at the Site beginning in Q3 2021.

-	Not measured or not available
	Orange shaded values indicate parameter results above the Cleanup Level (CUL), except for pH, which could be above or below the CUL
a	CUL provided in Remedial Investigation Report (WSP 2025)
U	Data validation code; not detected at the Reporting Limit (RL)
J	Data validation code; estimated value
J-	Data validation code; estimated value with low bias
°C	Degrees Celsius
ug/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
feet NAVD88	Feet NAVD88 Datum
mg/L	Milligrams per liter
mV	Millivolts
NTU	Nephelometric Turbidity Unit
TOC	Top of casing inside PVC well

Table A-2j: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Well MW-10A
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters								Gen. Chem.	Metals (ug/L)				
	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[a]	-	-	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
15-Oct-21	19.04	678.98	10.7	390	4.24	-115.0	27.80	7.93	383 J-	0.705	4.04	0.383	9700	2.87
6-Jan-22	5.55	692.47	9.3	168	7.06	94.6	6.90	7.50	141	0.151 J	1.13	0.109	2660	1.03
17-Mar-22	5.39	692.63	9.4	151	7.12	95.1	6.21	6.50	139	0.2 U	0.91	0.061 J	1880	0.807
21-Jun-22	5.89	692.13	11.5	114.9	7.92	191.1	4.48	6.80	116	0.2 U	0.764	0.081 J	1150	1.02
13-Sep-22	14.24	683.78	12	221.3	6.64	189.1	3.74	6.78	195	0.201	1.54	0.082 J	2350	1.56
13-Dec-22	14.93	683.09	9.8	395.9	4.71	179.4	5.19	7.34	200	0.173 J	1.3	0.1 U	2060	1.1
15-Mar-23	5.64	692.38	8.4	179.4	8.78	145.7	2.07	6.85	108	0.2 U	0.541	0.1 U	892	0.727
26-Jun-23	9.63	688.39	11.1	102.6	9.22	143.6	4.69	6.19	108	0.2 U	0.579	0.168 J	823	1
6-Sep-23	17.39	680.63	10.6	335	2.5	-26.6	4.58	7.51	205 J-	0.224	1.45	0.12	2310	1.4
13-Dec-23	6.01	692.01	10.3	247.7	9.01	154.4	4.23	6.3	111	0.202 U	0.596	0.103 U	977	0.746
5-Mar-24	5.33	692.69	8.9	180.6	9.04	162.6	5.3	6.31	106	0.202 U	0.44	0.103 U	777	0.556 U
17-Jun-24	7.15	690.87	9.8	197.4	12.65	198.6	3.18	6.4	115	0.202 U	0.548	0.104 J	883	0.806
17-Sep-24	15.56	682.46	10.7	287.2	8.25	153	0.87	6.7	182	0.202 U	1.2	0.103 U	1770	1.34
9-Dec-24	5.86	692.16	9.7	199.4	19.79	44.1	2.45	7	136	0.150 U	0.435	0.0680 U	841	0.89
24-Mar-25	5.14	692.88	9.8	183.3	8.76	104	6.03	6.48	113	0.3 U	0.39 J	0.2 U	862	0.666
9-Jun-25	9.25	688.77	13.2	176	8.27	106.7	1.91	6.88	107	0.75 U	0.5 U	0.5 U	758	0.71 J
15-Sep-25	18.51	679.51	11	381.2	1.4	445.9	0.87	6.97	194	0.75 U	0.945 J	0.5 U	1920	1.2
17-Dec-25	5.63	692.39	9.9	183.4	9.56	129.5	2.64	6.55	134	0.150 U	0.458	0.100 U	848	0.889

Notes:

Top of casing elevation (feet NAVD88): 698.02

Dissolved metals were analyzed at the Site until December 2020 (Q4 2020). Total metals were analyzed for Q4 2020 and will continue to be analyzed moving forward. Iron and manganese are not included in the COPCs at the Site and are not analyzed beginning in Q2 2021. Antimony and Vanadium were included as COPCs for surface water locations and shallow groundwater monitoring wells at the Site beginning in Q3 2021.

-	Not measured or not available
	Orange shaded values indicate parameter results above the Cleanup Level (CUL), except for pH, which could be above or below the CUL
a	CUL provided in Remedial Investigation Report (WSP 2025)
U	Data validation code; not detected at the Reporting Limit (RL)
J	Data validation code; estimated value
J-	Data validation code; estimated value with low bias
°C	Degrees Celsius
ug/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
feet NAVD88	Feet NAVD88 Datum
mg/L	Milligrams per liter
mV	Millivolts
NTU	Nephelometric Turbidity Unit
TOC	Top of casing inside PVC well

Table A-2k: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Still Well
Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters						Gen-Chem	Metals (ug/L)				
	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[c]	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
1-Feb-05	8.1	10658	-	-	6.59	12.87	2860	-	49.9	5.52	-	-
9-Mar-05	13.23	7393	-	-	7.42	12.51	2860	-	115	14.7	-	-
5-Apr-05	9.5	11310	-	-	10.9	12.44	2900	-	55.6	11.6	-	-
10-May-05	13.99	11871	-	-	3.6	12.53	2810	-	55.4	12.5	-	-
7-Jun-05	13.83	10888	-	-	22.6	12.54	2490	-	5 U	5 U	-	-
15-Jul-05[a]	18.21	11331	-	-	14.8	12.5	3800	-	2.72	6.07	-	-
15-Jul-05[b]	-	-	-	-	-	-	2540	-	39.8	7.57	-	-
9-Aug-05[a]	21.45	12087	-	-	17.9	11.78	3500	-	120	10.9	-	-
9-Aug-05[b]	-	-	-	-	-	-	2820	-	91.5	9.53	-	-
14-Sept-05[a]	17.38	9507	-	-	14	12.36	3600	-	118	11.2	-	-
14-Sept-05[b]	-	-	-	-	-	-	2830	-	115	14.4	-	-
5-Oct-05	13.31	11481	-	-	62.7	12.47	3020	-	85.2	11.9	-	-
9-Nov-05	9.58	14417	-	-	11	12.34	3400	-	74	10 U	-	-
9-Dec-05	6.18	7138	-	-	12.5	12.82	2800	-	14.5	1.07	-	-
19-Jan-06	8.66	8265	1.74	-	11.8	13.06	1900 J	-	15.2 J	1 U	-	-
16-Feb-06	8.13	9019	2.81	195.6	6.16	12.27	3200 J	-	13.4 J	1.89	-	-
15-Mar-06	7.98	9033	0.79	114.8	8.93	12.6	3300 J	-	2.36	2.5 J	-	-
7-Apr-06	9.98	10450	0.57	34.8	6.08	12.51	3400	-	15.2	2.83	-	-
16-May-06	12.79	11060	0.14	45.4	9.28	12.4	3500	-	4.04	1.59	-	-
23-Jun-06	13.29	11680	0.44	-	14.6	12.9	3600	-	52.6	16.5	-	-
20-Jul-06	16.2	12240	0.14	-217.8	10.4	12.47	4300	-	19.3	3.57	-	-
22-Aug-06	17.14	10920	1.22	-146	13.3	12.66	3800	-	144	9.14 J	-	-
26-Sep-06	15.72	9599	0.42	-263.3	61.4	12.59	3800	-	123	4.63	-	-
15-Nov-06	10.58	12040	1.82	149.2	188	12.87	3400	-	30.6 J	4.5	-	-
20-Dec-06	8.85	10990	0.71	-152	32.8	13.02	2600 J	-	52.6	13	-	-
24-Jan-07	8.29	10440	0.97	-139.8	13.7	13.05	2500 J	-	58.6	13.1	-	-
12-Feb-07	8.88	10590	0.86	-125.8	56.4	13.06	3400	-	61.3	14	-	-
27-Mar-07	9.45	9163	1.25	-42.4	18.4	11.53	2900 J	-	44.1	1.81	-	-
18-Apr-07	8.9	8155	2.63	2.3	37.2	12.77	3300 J	-	29.3	1.98	-	-
31-May-07	20.12	11050	5.3	-153.9	9.31	11.59	2800 J	-	48.5	15.1 J	-	-
20-Jun-07	18.28	12000	5.41	-122.5	16.1	12.04	4300 J	-	26.8	2.33	-	-
31-Jul-07	16.53	12200	1.7	-151.6	24.8	12.48	6000	-	87.6	1.03	-	-
29-Aug-07	17	9570	1.12	-183.1	268	12.78	4600 J	-	106	9.46	-	-
27-Sep-07	14.49	8263	52.4	-183	211	12.42	2800	-	125	15.4	-	-
26-Oct-07	9.49	6144	4.88	-147.2	92.4	12.85	3300 J	-	124	24.9	-	-
30-Nov-07	5.53	7703	2.13	-122.6	127	12.67	2200	-	174	14.1	-	-
12-Dec-07	5.24	11609	3.43	-144.8	116	12.6	4100	-	110	11.3	-	-
24-Jan-08	3.73	9649	13.81	-138	-	10.74	2500	-	101	9.74	-	-
28-Feb-08	-	-	-	-	51.2	-	2900	-	58.5	12.6	-	-
25-Mar-08	7.06	8623	5.52	-11.2	17.4	11.26	3400	-	74.3	10.4	-	-
29-Apr-08	9.74	11332	4.29	-1.3	27.7	12.82	3000 J	-	76.6	13.3	-	-
20-May-08	14.53	11955	1.74	-35.8	72.7	12.82	3400	-	87.3	15.1	-	-
18-Jun-08	12.77	10267	3.34	-27	34	12.86	3200 J	-	63.2	16.9	-	-
26-Aug-08	15.86	7703	1.06	-72.8	38.3	12.67	2600 J	-	430	35	759000	-
20-Nov-08	9.59	8762	0.91	-65.6	74.1	13.32	3500	-	70	16.8	848000	-
12-Feb-09	3.25	554	14.29	-	108	13.03	550	-	47.2	13.7	551000	-
19-May-09	11.53	276	8.8	26	43.4	9.83	2500 J	-	37.8	15	689000	-
22-Sep-09	12.47	9760	1.5	159.1	625	12.47	3000	-	160	37	990000	-
15-Dec-09	5.2	11650	1.9	237	26.3	12.85	3000	-	86	21	900000 J	-
22-Mar-10	9.7	1035	-	182	19.4	12.58	3000	-	73	17	870000	-
17-Jun-10	11.7	9610	0.08	-	6.59	12.48	2700	-	66	15	780000	-

Table A-2k: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Still Well Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters						Gen-Chem	Metals (ug/L)				
	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[c]	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
21-Sep-10	15	6710	1.26	152.6	140	12.29	2400	-	300	39	570000	-
8-Dec-10	8.3	10110	1	-	5.44	12.63	2600	-	64	10	860000	-
30-Mar-11	8.6	4810	0.46	136.3	13.7	14.31	2500 J	-	65	9.6	720000	-
21-Jun-11	16.6	10420	1.63	111.9	3.4	12.36	5200	-	60	9.1	770000	-
28-Sep-11	14.8	5270	2.34	70	66.7	12.17	2200	-	220	11	1000000	-
15-Dec-11	6	7330	2.47	104.2	18.3	13.09	2800	-	83	2.9	880000	-
21-Mar-12	5.5	11040	3.15	294.2	12	12.39	2600	-	67	4.7	760000	-
19-Jun-12	5.5	11040	3.15	294.2	12	12.39	2600	-	58	6.7	690000	-
20-Sep-12	16.1	9560	3.27	76	10.7	12.35	2900	-	84	3	830000	-
19-Dec-12	4.1	1320	10.11	303.1	5.86	9.69	700	-	75	4.3	250000	-
26-Feb-13	7.3	9950	1.77	161.8	25.5	12.66	2000	-	70	0.29 J	720000	-
23-May-13	11.5	8040	2.23	266.8	22.7	12.47	2500	-	57	3.4	690000	-
22-Aug-13	17.4	8810	2.42	10.8	38.5	12.79	2590	-	57.8	1.5	863000	-
19-Nov-13	9	7090	2.47	79	62.8	12.54	2720	-	52.5	4.2	909000	-
1-Apr-14	10.3	6080	0.55	128.2	37.1	6.08	1890	-	54.6	1.1	687000	-
22-May-14	13.6	7360	1.22	34.4	-	11.75	2330	-	60.9	2	689000	-
13-Aug-14	18.26	7844	0.33	1.2	7.3	12.53	2770	-	70	2.1	849000	-
12-Nov-14	9	585	3.17	-47.8	17.5	12.93	2450	-	83.2	3.9	837000	-
12-Feb-15	10.7	7540	2.68	-18.6	9.64	12.71	2150	-	51.6	0.3	690000	-
4-May-15	12.9	9140	2.73	110.4	26.8	13.02	2520	-	54.6	0.22 J	734000	-
5-Aug-15	19.5	8060	2.58	-29.8	61.1	12.62	2980	-	63.9	1.7	898000	-
3-Nov-15	11.1	5150	0.37	38.6	171	8.93	1840	-	109	21.7	747000	-
9-Feb-16	9.7	7390	0.78	80.8	7.79	13.07	2170	-	53.6	1.2	601000	-
3-May-16	14.7	7530	1.4	358.1	2.65	12.98	2480	-	54.2	1.7 J-	711000	-
22-Aug-16	20.5	7.91	2.1	-	59	12.95	2780	-	91.3	5.87	831000	-
1-Nov-16	12.3	2884	2.66	-72.1	19.1	13.17	2620	-	46.2	9.64	841000	-
31-Jan-17	7.4	8510	2.37	-167	7.35	13.17	2050	-	52.5	1.19	582000	-
31-May-17	14.6	7500	2.44	-	4.17	12.89	1900	-	45.4	0.68 J+	615000	-
17-Aug-17	18.3	8460	3.35	-84	15.9	12.79	2680	-	56.8	2.14	750000	-
9-Nov-17	8.2	7215	3.48	90.9	18.2	12.65	2360	-	62.1	3.52	822000	-
27-Feb-18	6.6	5312	3.75	2.3	2.49	12.11	1970	-	50.2	7.53	521000	-
2-May-18	11.1	8260	1.7	-	13	12.92	2360	-	43.4	21.7 J+	552000	-
21-Aug-18	20.22	6260	4.71	-42.1	5.84	12.58	2100	-	52.2	0.138	629000	-
7-Nov-18	9.7	995	6.72	126.8	20.6	9.15	1880	-	644	80.2	502000 J+	-
11-Mar-19	10.6	1354	5.93	-18.7	7.19	10.31	1710	-	52.8	21.2	501000	-
9-May-19	13.8	6973	6.4	18.1	16.7	12.36	1980	-	41.6	13.4	521000	-
26-Aug-19	17.8	6405	3.91	Note 1	5.15	12.56	2570	-	42.5	15.4	722000	-
14-Nov-19	9.7	6065	0.41	-53.3	12	12.67	1750	-	167	23.9	563000	-
13-Feb-20	7.6	4936	0.37	-139	2.56	12.66	1630	-	48.6	6.08	490000	-
13-Aug-20	15	6817	2.55	-42.8	2.02	12.39	2620	-	41.9	0.86	659000	-
10-Dec-20	8.8	4534	0.55	-26.2	5.87	12.79	1670	-	82.7	11.1	510000	-
4-Mar-21	7.7	4728	0.05	-42	0.85	11.94	1470	-	61.8	1.49	512000	-
9-Jun-21	13.4	5213	0.89	-148.4	4.06	12.56	1600	-	91.7	5.72	471000	-
13-Oct-21	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7-Jan-22	8.8	4103	2.53	55.4	3.04	12.88	1900	8.39	50.3	4.26	486000	3.34
17-Mar-22	9	4955	7.42	153.1	1.88	13.71	2070	8.23	51.7	5.88	517000	3.02
21-Jun-22	15.4	5090	2.53	156.3	3.4	11.96	2180	9.34	51.6	3.08	465000	3.7
14-Sep-22	16.6	6728	6	68	44.5	12.33	2480	7.82	52.3	6.96	669000	3.47
13-Dec-22	7.7	1419	7.42	-92.9	9.97	11.6	967	71	125	9.95	309000	11.1
15-Mar-23	7.5	7393	3.03	77	42	12.72	2070	10.1	39.1	6.26	478000	3.06
28-Jun-23	15.6	6301	2.79	-109.2	3.74	12.33	2240	27.6	42.1	0.977	450000	4.49

Table A-2k: Summary of Lower Disposal Area - Shallow Groundwater Sampling Results - Still Well Ravensdale Site, Ravensdale, Washington

Date Sampled	Field Parameters						Gen-Chem	Metals (ug/L)				
	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (Rel mV)	Turbidity (NTU)	pH (standard units)	Total Dissolved Solids (mg/L)	Antimony	Arsenic	Lead	Potassium	Vanadium
Cleanup Level[c]	-	-	-	-	-	6.5-8.5	-	6	8	2.5	-	80
6-Sep-23	17.2	5942	2.55	-53.7	10.5	12.46	1740 J-	271	78.5	4.35	541000	18.1
15-Dec-23	10.3	4630	9.48	81.6	6.81	12.38	1120	25.5	35.8	4.91	367000	2.87
5-Mar-24	8.3	7467	8.51	-23	9.33	12.39	1700	7.25	50.1	4.7	434000	2.9
18-Jun-24	13.4	5636	10.88	95	3.5	12.21	1700	16.8	48.5	5.82	408000	2.88
17-Sep-24	14.6	3389	8	165.4	18.6	12.49	1640	65.7	35.9	5.94	453000	4.82
9-Dec-24	8.5	6405	58.07	14.8	7.24	12.33	1310	24.2	45.7	3.47	404000	2.68
24-Mar-25	9.5	6490	0.76	212.8	9.89	12.47	1700	5.14	45.1	0.77	375000	2.11
11-Jun-25	16.1	7004	0.91	-124	4.67	12.54	1450	23.2	42.7	1.00 U	408000	2.49
15-Sep-25	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
17-Dec-25	10.7	4617	7.86	4.9	3.11	11.8	1810	16.9	30.9	20.8	426000	3.02

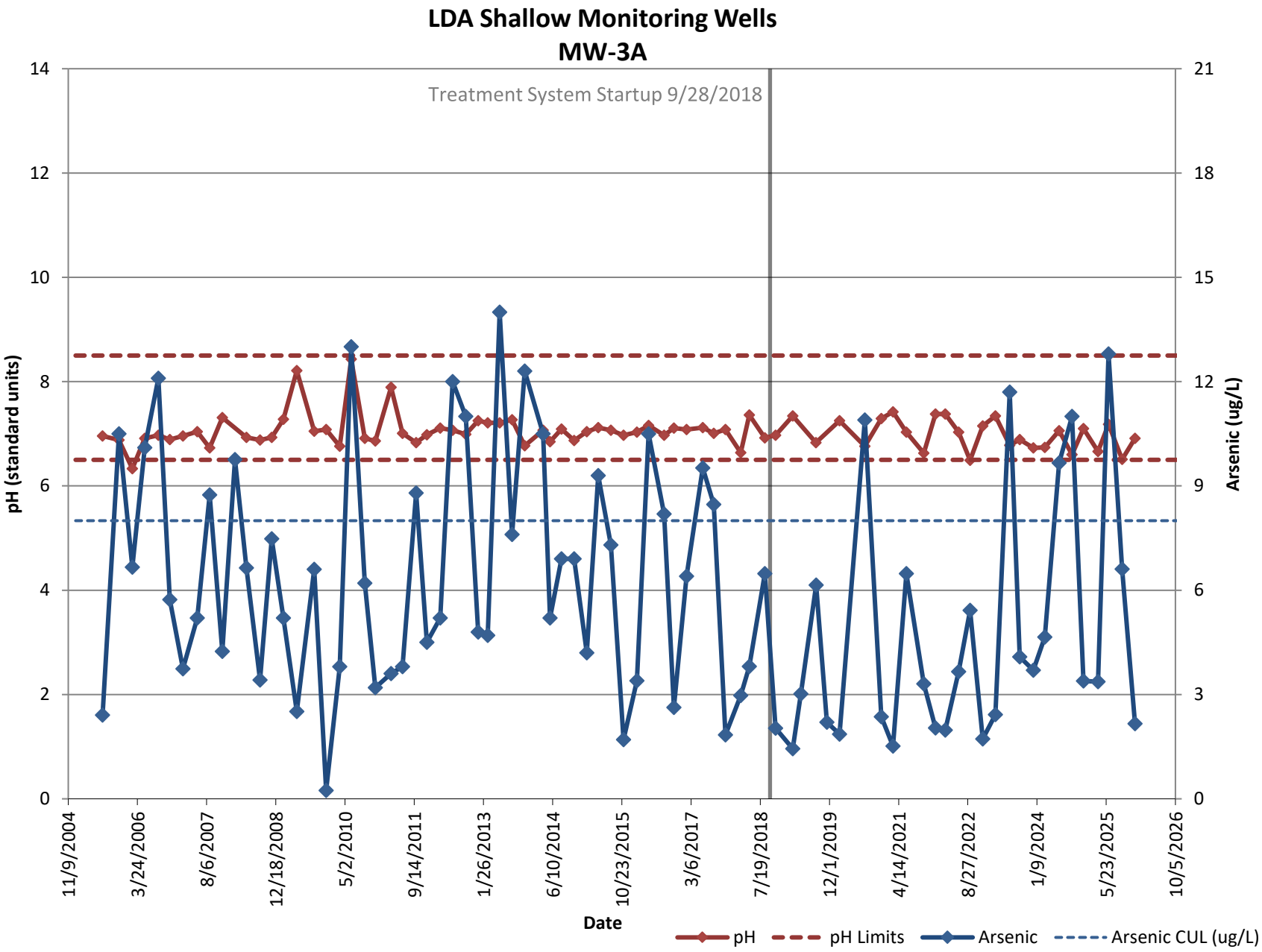
Notes:

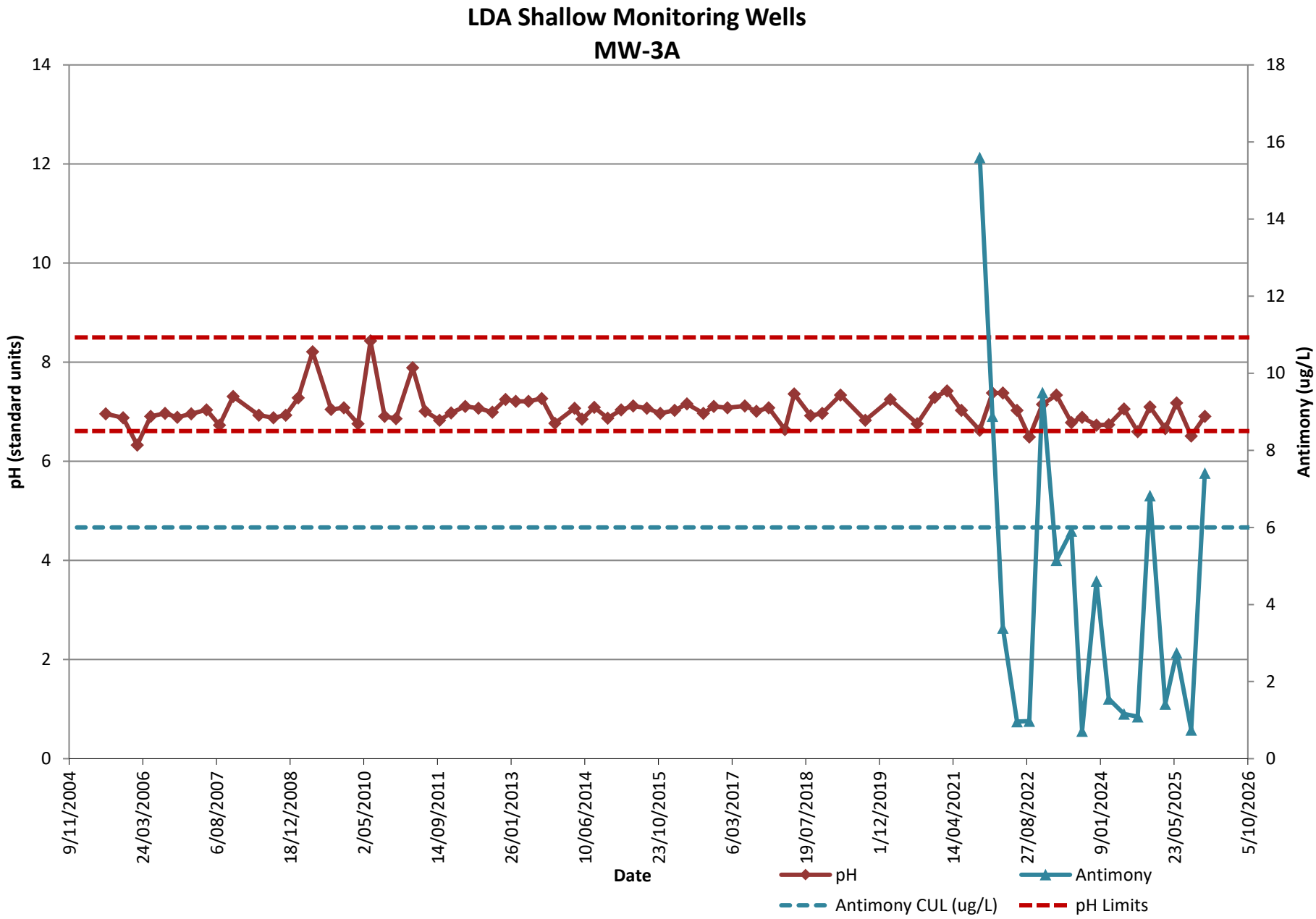
Dissolved metals were analyzed at the Site until December 2020 (Q4 2020). Total metals were analyzed for Q4 2020 and will continue to be analyzed moving forward. Iron and manganese are not included in the COPCs at the Site and are not analyzed beginning in Q2 2021. Antimony and Vanadium were included as COPCs for surface water locations and shallow groundwater monitoring wells at the Site beginning in Q3 2021.

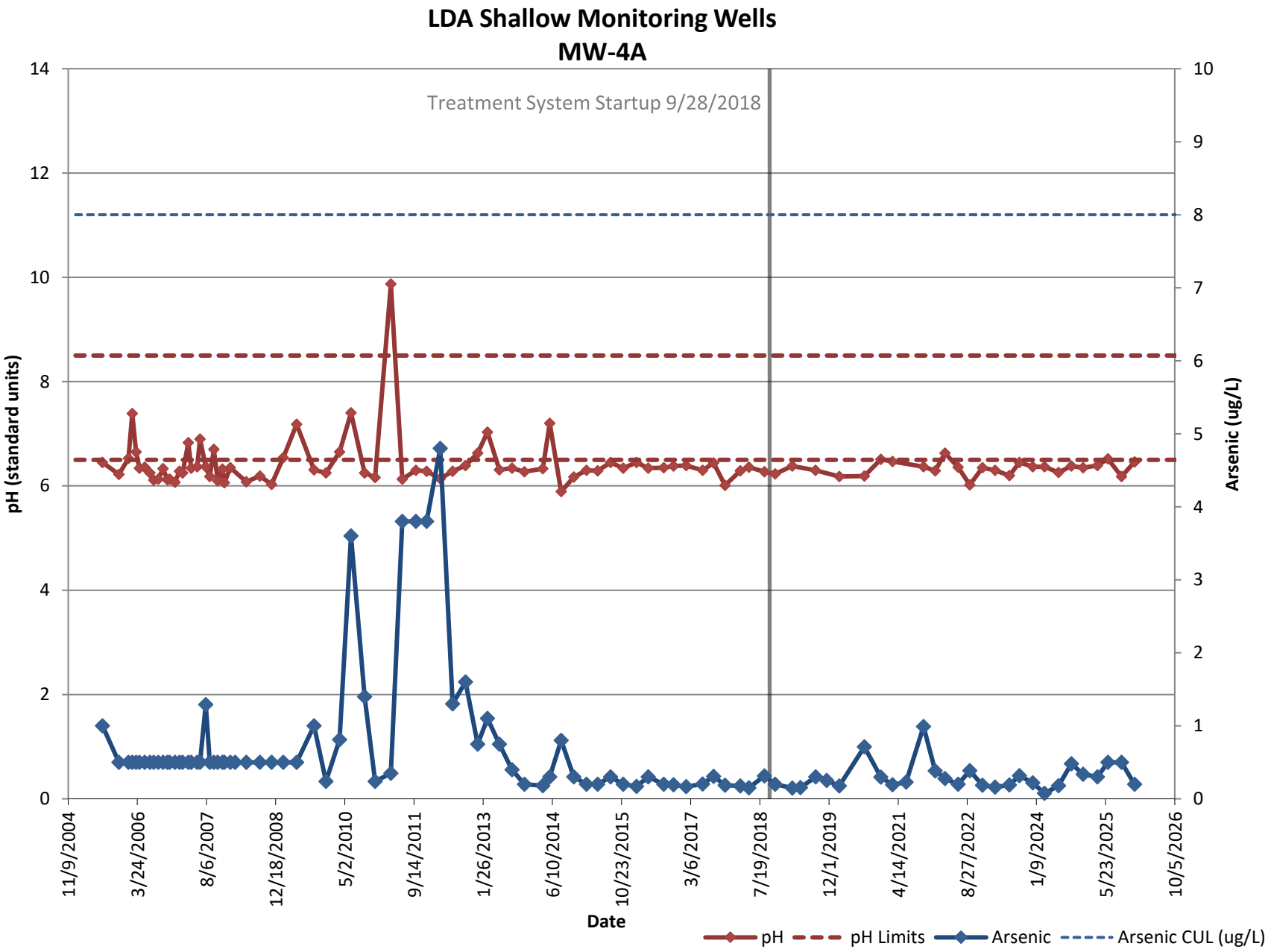
-	Not analyzed or not available
	Orange shaded values indicate parameter results above the Cleanup Level (CUL), except for pH, which could be above or below the
a	North Creek Analytical, Inc.
b	Severn Trent Laboratories
c	CUL provided in Remedial Investigation Report (WSP 2025)
U	Data validation code; not detected at the Reporting Limit (RL)
J	Data validation code; estimated value
J+	Data validation code; estimated value with positive bias
J-	Data validation code; estimated value with low bias
°C	Degrees Celsius
Note 1	ORP measurements not available due to faulty sensor.
feet NAVD88	Feet NAVD88 Datum
mg/L	Milligrams per liter
mV	Millivolts
NTU	Nephelometric Turbidity Unit

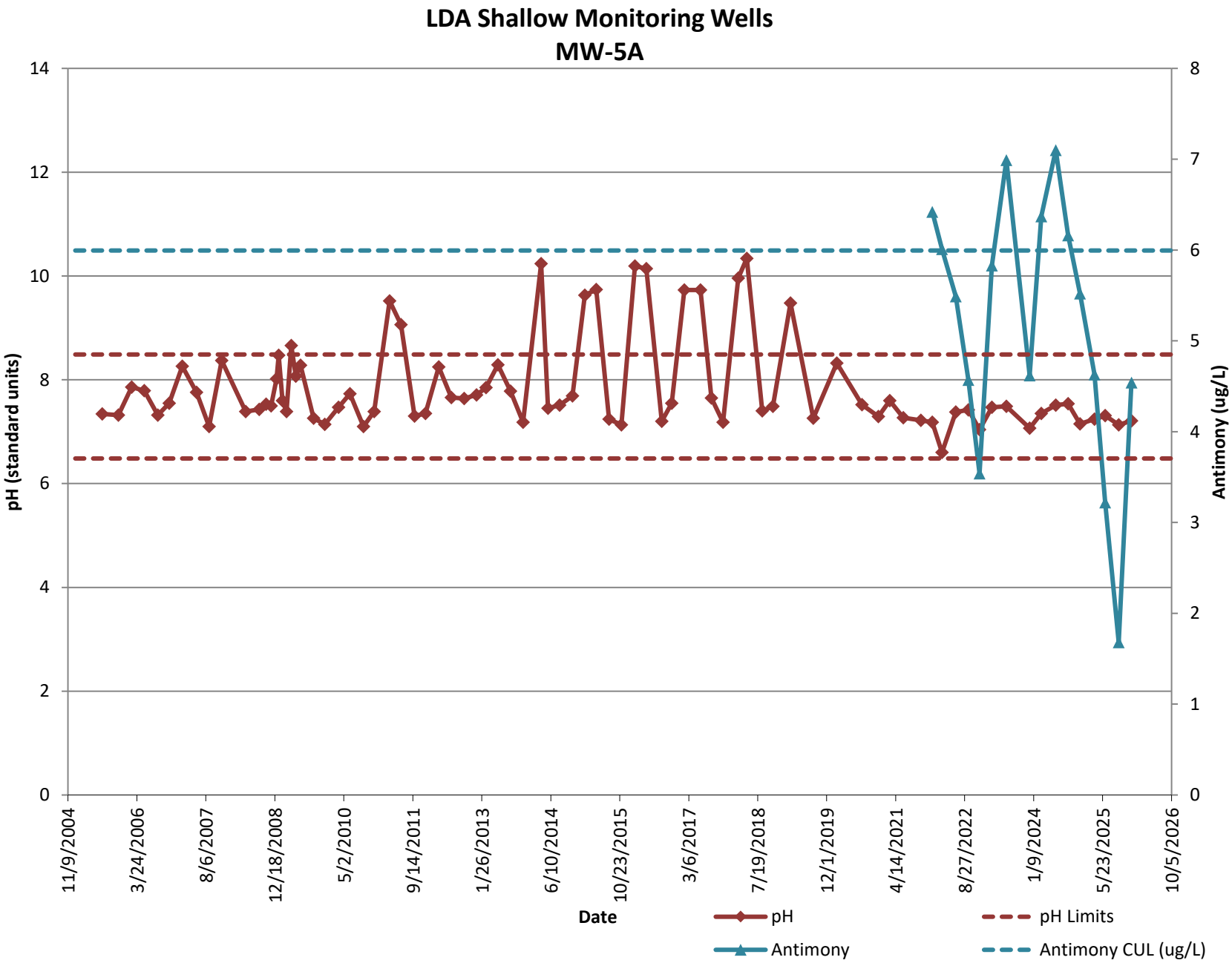
APPENDIX B

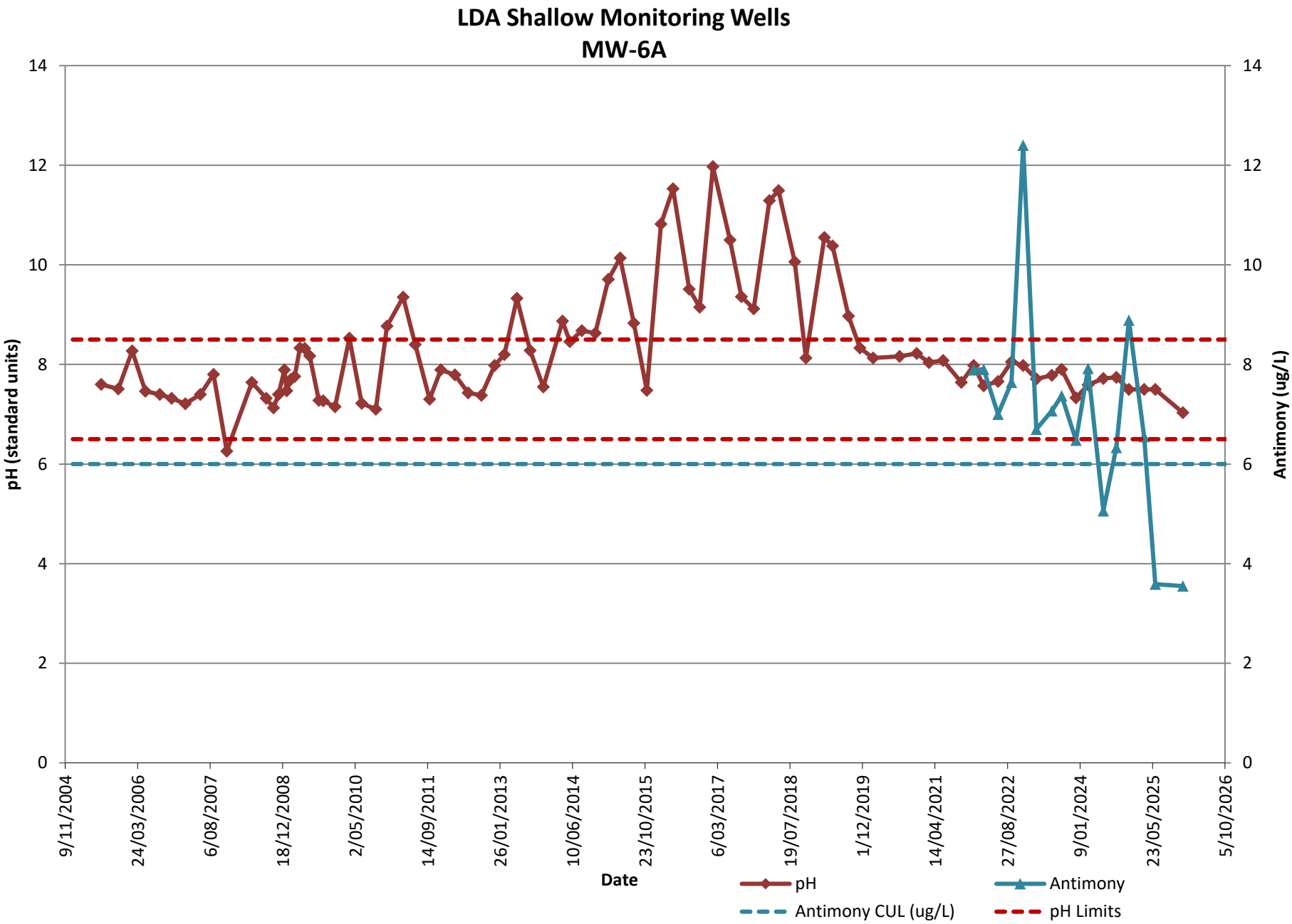
LDA Shallow Monitoring Wells Data Graphs

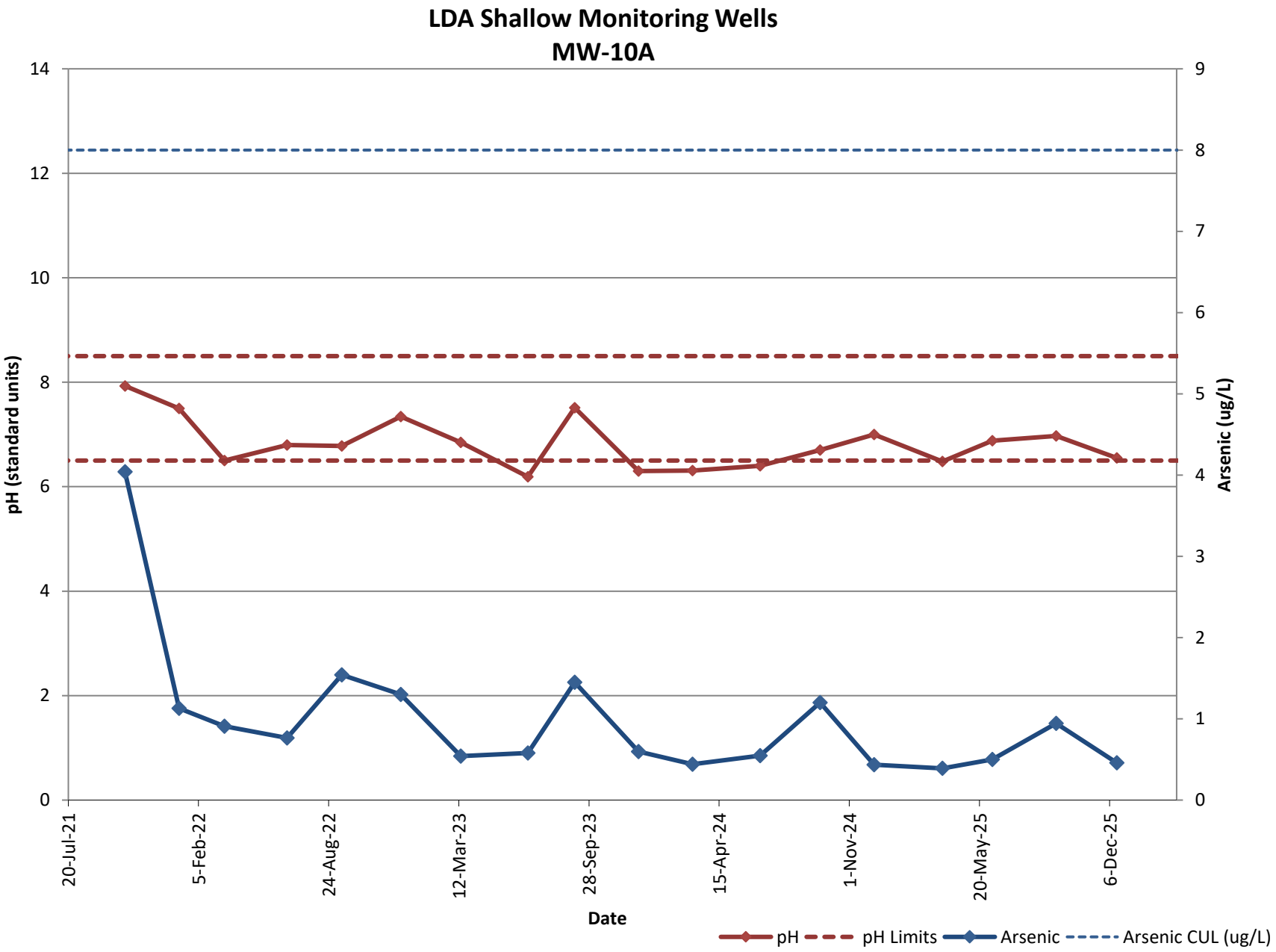

LDA Shallow Monitoring Wells
MW-3A
Treatment System Startup 9/28/2018
pH (standard units)
Arsenic (ug/L)
Date
0
2
4
6
8
10
12
14
0
3
6
9
12
15
18
21
11/9/2004
3/24/2006
8/6/2007
12/18/2008
5/2/2010
9/14/2011
1/26/2013
6/10/2014
10/23/2015
3/6/2017
7/19/2018
12/1/2019
4/14/2021
8/27/2022
1/9/2024
5/23/2025
10/5/2026
pH
pH Limits
Arsenic
Arsenic CUL (ug/L)


LDA Shallow Monitoring Wells
MW-3A
pH (standard units)
Antimony (ug/L)
14
12
10
8
6
4
2
0
18
16
14
12
10
8
6
4
2
0
9/11/2004
24/03/2006
6/08/2007
18/12/2008
2/05/2010
14/09/2011
26/01/2013
10/06/2014
23/10/2015
6/03/2017
19/07/2018
1/12/2019
14/04/2021
27/08/2022
9/01/2024
23/05/2025
5/10/2026
Date
pH
Antimony
Antimony CUL (ug/L)
pH Limits


LDA Shallow Monitoring Wells
MW-4A
Treatment System Startup 9/28/2018
pH (standard units)
Arsenic (ug/L)
Date
11/9/2004
3/24/2006
8/6/2007
12/18/2008
5/2/2010
9/14/2011
1/26/2013
6/10/2014
10/23/2015
3/6/2017
7/19/2018
12/1/2019
4/14/2021
8/27/2022
1/9/2024
5/23/2025
10/5/2026
pH
pH Limits
Arsenic
Arsenic CUL (ug/L)


LDA Shallow Monitoring Wells
MW-5A
pH (standard units)
Antimony (ug/L)
14
12
10
8
6
4
2
0
8
7
6
5
4
3
2
1
0
11/9/2004
3/24/2006
8/6/2007
12/18/2008
5/2/2010
9/14/2011
1/26/2013
6/10/2014
10/23/2015
3/6/2017
7/19/2018
12/1/2019
4/14/2021
8/27/2022
1/9/2024
5/23/2025
10/5/2026
Date
pH
pH Limits
Antimony
Antimony CUL (ug/L)


LDA Shallow Monitoring Wells
MW-6A
pH (standard units)
Antimony (ug/L)
14
12
10
8
6
4
2
0
9/11/2004
24/03/2006
6/08/2007
18/12/2008
2/05/2010
14/09/2011
26/01/2013
10/06/2014
23/10/2015
6/03/2017
19/07/2018
1/12/2019
14/04/2021
27/08/2022
9/01/2024
23/05/2025
5/10/2026
Date
pH
Antimony
Antimony CUL (ug/L)
pH Limits


LDA Shallow Monitoring Wells
MW-10A
pH (standard units)
Arsenic (ug/L)
Date
20-Jul-21
5-Feb-22
24-Aug-22
12-Mar-23
28-Sep-23
15-Apr-24
1-Nov-24
20-May-25
6-Dec-25
pH
pH Limits
Arsenic
Arsenic CUL (ug/L)

APPENDIX C

Data Validation Report and Laboratory Analytical Results

DATA VALIDATION CHECKLIST

Project Name:	Ravensdale Project
Project Number:	US-WSP-31406578.0889 Task 2000
Sample Identification(s):	MW-1A-1225, MW-2A-1225, MW-3A-1225, MW-4A-1225, MW-5A-1225, MW-6A-1225, MW-8A-1225, MW-9A-1225, MW-10A-1225, Infiltration Ponds-1225, Weir-1225, South Pond-1225, Still Well-1225, Interceptor Trench-1225, MW-35A-1225, MW-45A-1225, MW-99-1-1225, Baja Well-1225, MW-7A-1225, Tank – Influent, Sand – Effluent, As - Effluent
Sample Date(s):	12/17/2025, 12/18/2025, 12/19/2025, 12/31/2025
Sample Team:	Andrew Waser, WSP
Sample Matrix:	Aqueous
Analyzing Laboratory:	Analytical Resources, Inc. – Tukwila, WA
Analyses:	TDS (SM2540C); Total Metals: K, Pb, Sb, V (SW6010D, E200.8); As (E200.8 UCT-KED), Dissolved Metals: K, Pb, Sb, V (SW6010D, E200.8); As (E200.8 UCT-KED)
Laboratory Report No.:	25L0498, 26A0009, 25L0488

FIELD DATA PACKAGE DOCUMENTATION

Field Sampling Logs:	**Reported**		**Performance Acceptable**		**Not Required**
	NO	YES	NO	YES	
1. Sampling dates noted		X		X	
2. Sampling team indicated		X		X	
3. Sampling identification traceable to location collected		X		X	
4. Sample location		X		X	
5. Collection technique (bailer, pump, etc.)		X		X	
6. Sample container type		X		X	
7. Preservation methods		X		X	
8. Chain-of-custody form completed		X		X	
9. Required analytical methods requested		X		X	
10. Field sample logs completed properly and signed		X		X	
11. Number and type of field QC samples collected		X		X	
12. Field equipment calibration		X		X	
13. Field equipment decontamination		X		X	

QC – quality control

COMMENTS:

ANALYTICAL DATA PACKAGE DOCUMENTATION

GENERAL INFORMATION

	Reported		Performance Acceptable		Not Required
	NO	YES	NO	YES	
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Reporting limits of analysis		X		X	
5. Sample collection date		X		X	
6. Laboratory sample received date		X		X	
7. Sample preparation/extraction date		X		X	
8. Sample analysis date		X		X	
9. Copy of chain-of-custody form signed by lab sample custodian		X		X	
10. Narrative summary of QA or sample problems provided		X	X		

QA – quality assurance

COMMENTS:

- Samples Tank-Influent, Sand-Effluent, and As-Effluent were received with improper preservation requirements for dissolved metals upon receipt; however, it was confirmed by the lab that the samples were filtered and adjusted to a pH <2 with 2.0mL of nitric acid. Further action was not required other than to note.

INORGANIC ANALYSES

Metals (EPA 6010/200.8) (E200.8 UCT-KED)	Reported		Performance Acceptable		Not Required
	NO	YES	NO	YES	
1. Holding times		X		X	
2. Reporting limits		X		X	
3. Blanks		X		X	
a. Method blanks		X	X		
b. Equipment /Rinsate blanks		X	X		
4. Laboratory control sample (LCS) %R		X		X	
5. Matrix spike (MS) %R		X		X	
6. LCS duplicate (LCSD) %R		X		X	
7. MS duplicate (MSD) %R		X		X	
8. MS / MSD RPD		X		X	
9. LCS / LCSD RPD		X		X	
10. Laboratory Duplicate RPD		X		X	
11.Field duplicate comparison		X	X		

%R – percent recovery RPD – relative percent difference

COMMENTS:

Performance was acceptable, with the following exceptions and/or notes:

- There were detections in the method and field blanks as shown below. The field blank was only associated with samples taken on the same date. When the blank concentration was less than the RL and associated sample results were greater than the RL no qualifications were required. Following inorganic guidance, when the blank concentration was between the MDL and RL, associated sample results detected between the MDL and RL were qualified as non-detect (U) at the RL and the MDL was raised to the sample result.

Sample ID	Method	Type	Analyte	Blank Result	Reporting Limit	Units
MW-99-1-1225	200.8	Field Blank	Lead	0.131J	0.200	ug/L
BNL0582-BLK1	200.8	Method	Lead, Dissolved	0.145J	0.200	ug/L
BNL0582-BLK2	200.8	Method	Lead, Dissolved	0.152J	0.200	ug/L

- Field duplicates were as follows: MW-35A-1225 was a duplicate of Infiltration Ponds-1225, MW-45A-1225 was a duplicate of MW-2A-1225. The RPD was above the QC limit of 30% for lead at 175% for samples MW-45A-1225 and MW-2A-1225. Using professional judgement, results were qualified as estimated (J).

- Certain samples were analyzed at dilutions to bring sample concentrations within the instrument calibration range. Reporting limits were elevated proportional to the dilution when undiluted results were not provided by the laboratory. The National Functional Guidelines did not require qualification based on dilution, but the end user was alerted that the sensitivity of non-detect results were considered as part of the determination of the usability of the data.

GENERAL WET CHEMISTRY

TDS (SM 2540C)	Reported		Performance Acceptable		Not Required
	NO	YES	NO	YES	
1. Holding times		X		X	
2. Reporting limits		X		X	
3. Blanks		X		X	
a. Method blanks		X		X	
b. Equipment rinsate blanks		X	X		
4. Laboratory control sample (LCS) %R		X		X	
5. Matrix spike (MS) %R		X		X	
6. LCS duplicate (LCSD) %R		X		X	
7. MS duplicate (MSD) %R		X		X	
8. MS/MSD RPD		X		X	
9. LCS/LCSD RPD		X		X	
10. Laboratory Duplicate RPD		X		X	
11. Field duplicate comparison		X		X	

%R – percent recovery RPD – relative percent difference

COMMENTS:

- There was a detection in the field blank as shown below. The field blank was only associated with samples taken on the same date. When the blank concentration was less than the RL and

associated sample results were greater than the RL no qualifications were required. Following inorganic guidance, when both the blank and the associated sample were above the RL but the sample was 10x less than the blank concentration, it was qualified as estimated, bias high

Sample ID	Method	Type	Analyte	Blank Result	Reporting Limit	Units
MW-99-1-1225	200.8	Field Blank	Total Dissolved Solids	32	5.0	mg/L

- Field duplicates were as follows: MW-35A-1225 was a duplicate of Infiltration Ponds-1225, MW-45A-1225 was a duplicate of MW-2A-1225. All RPDs or absolute differences were within QC limits; qualifications were not required.

DATA VALIDATION CHECKLIST

SUMMARY AND DATA QUALIFIER CODES

Project Name:	Ravensdale Project
Project Number:	US-WSP-31406578.0889 Task 2000
Sample Identification(s):	MW-1A-1225, MW-2A-1225, MW-3A-1225, MW-4A-1225, MW-5A-1225, MW-6A-1225, MW-8A-1225, MW-9A-1225, MW-10A-1225, Infiltration Ponds-1225, Weir-1225, South Pond-1225, Still Well-1225, Interceptor Trench-1225, MW-35A-1225, MW-45A-1225, MW-99-1-1225, Baja Well-1225, MW-7A-1225, Tank – Influent, Sand – Effluent, As - Effluent
Sample Date(s):	12/17/2025, 12/18/2025, 12/19/2025, 12/31/2025
Sample Team:	Andrew Waser, WSP
Sample Matrix:	Aqueous
Analyzing Laboratory:	Analytical Resources, Inc. – Tukwila, WA
Analyses:	TDS (SM2540C); Total Metals: K, Pb, Sb, V (SW6010D, E200.8); As (E200.8 UCT-KED), Dissolved Metals: K, Pb, Sb, V (SW6010D, E200.8); As (E200.8 UCT-KED)
Laboratory Report No.:	25L0498, 26A0009, 25L0488

Sample ID	Analyte(s)	Old Result	Old Qualifier	New Result	New Qualifier	Reason(s)
MW-5A-1225	Lead	--	--	0.200	U	Field blank contamination
MW-8A-1225	Lead	--	--	0.200	U	Field blank contamination
Baja Well-1225	Total Dissolved Solids	--	--	--	J+	Field blank contamination

Sample ID	Analyte(s)	Old Result	Old Qualifier	New Result	New Qualifier	Reason(s)
MW-45A-1225	Lead	--	--	--	J	Field duplicate RPD exceeds QC criteria
MW-2A-1225	Lead	--	--	--	J	Field duplicate RPD exceeds QC criteria

VALIDATION PERFORMED BY:	Julia Campbell, WSP
DATE:	2/16/2025
PEER REVIEW PERFORMED BY:	Michael Shadle, WSP
DATE:	2/27/2026

Analyte	Infiltration Ponds Result	MW-35A Duplicate Result	RPD	Abs Diff	Unit	Qualifier	RL	MDL
Antimony	7.09	6.64	7%	0.45	ug/L		0.2	0.15
Arsenic	4.25	4.11	3%	0.14	ug/L		0.2	0.1
Potassium	86.6	94	8%	7.40	mg/L		0.5	0.25
Lead	1.26	1.16	8%	0.10	ug/L		0.2	0.1
Vanadium	1.36	1.29	5%	0.07	ug/L		0.2	0.1
Total Dissolved Solids	282	305	8%	23.00	mg/L		10	10
Antimony, Dissolved	6.4	6.71	5%	0.31	ug/L		0.2	0.15
Arsenic, Dissolved	3.8	3.88	2%	0.08	ug/L		0.2	0.1
Vanadium, Dissolved	0.843	0.853	1%	0.01	ug/L		0.2	0.1
Potassium, Dissolved	93.7	92.7	1%	1.00	mg/L		0.5	0.25
Lead, Dissolved	0.618	0.646	4%	0.03	ug/L		0.2	0.1

Analyte	MW-2A Result	MW-45A Duplicate Result	RPD	Abs Diff	Unit	Qualifier	RL	MDL
Antimony	3.17	3.16	0%	0.01	ug/L		0.2	0.15
Arsenic	1.59	1.61	1%	0.02	ug/L		0.2	0.1
Potassium	56.9	55.8	2%	1.10	mg/L		0.5	0.25
Lead	0.1	1.52	175%	1.42	ug/L	J	0.2	0.1
Vanadium	0.87	0.978	12%	0.11	ug/L		0.2	0.1
Total Dissolved Solids	356	302	16%	54.00	mg/L		10	10

Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

08 January 2026

Accounts Payable
WSP USA, Inc.
840 HOWE STREET, #1000
VANCOUVER, BRITISH COLUMBIA V6Z 2M1

RE: Ravensdale (Ravensdale)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)	Associated SDG ID(s)
25L0488	N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Kelly Bottem, Client Services Manager

ACCREDITED IN ACCORDANCE WITH nelac
Cert# 100006-018

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 25L0488	Turn-around Requested:	Page: 1 of 1	
ARI Client Company: WSP	Phone: (425) 221-4924	Date: 12/19/25	Ice Present?
Client Contact: Gary Zimmerman, Danilyn Espiritu		No. of Coolers:	Cooler Temps: 1.1
Client Project Name: Ravensdale O&M			
Client Project #: US-WSP-314065738.4513	Samplers: Andrew Wuser		

Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Total Metals (As, Pb, Sb, V)	Analysis Requested: Dissolved Metals (As, Pb, Sb, V)	Notes/Comments
Tank - Influent	12/19/25	0950	W	2	X	X	
Sand - Effluent	12/19/25	0955	W	2	X	X	
As - Effluent	12/19/25	1000	W	2	X	X	

Comments/Special Instructions
Please include PO, PN, and task ID on all invoices
PO: P119363USC01
PN: US-WSP-314065.4513
Task: 01

	Relinquished by:	Received by:	Relinquished by:	Received by:
(Signature)				
Printed Name:	Andrew Wuser	Sydni Acevedo		
Company:	WSP	ARLLC		
Date & Time:	12/19/25 1545	12/19/25 1545		

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	08-Jan-2026 11:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Tank - Influent	25L0488-01	Water	19-Dec-2025 09:50	19-Dec-2025 15:45
Tank - Influent	25L0488-02	Water	19-Dec-2025 09:50	19-Dec-2025 15:45
Sand - Effluent	25L0488-03	Water	19-Dec-2025 09:55	19-Dec-2025 15:45
Sand - Effluent	25L0488-04	Water	19-Dec-2025 09:55	19-Dec-2025 15:45
As - Effluent	25L0488-05	Water	19-Dec-2025 10:00	19-Dec-2025 15:45
As - Effluent	25L0488-06	Water	19-Dec-2025 10:00	19-Dec-2025 15:45

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	08-Jan-2026 11:23

Work Order Case Narrative

Client: WSP USA, Inc.
Project: Ravensdale
Project Number: Ravensdale
Work Order: 25L0488

Sample receipt

Samples as listed on the preceding page were received 19-Dec-2025 15:45 under ARI work order 25L0488. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Total and Dissolved Metals - EPA Method 200.8

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations including interference checks were within method requirements for reported elements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

WORK ORDER

25L0488

Client: WSP USA, Inc. **Project Manager:** Kelly Bottem

Project: Ravensdale **Project Number:** Ravensdale

Preservation Confirmation

Container ID	Container Type	pH	pH Paper Lot#: N000119
25L0488-01 A	HDPE NM, 250mL HNO3	<2	
25L0488-02 A	HDPE NM, 500 mL	>2	
25L0488-03 A	HDPE NM, 250mL HNO3	<2	
25L0488-04 A	HDPE NM, 500 mL	>2	
25L0488-05 A	HDPE NM, 250mL HNO3	<2	
25L0488-06 A	HDPE NM, 500 mL	>2	

SA
Preservation Confirmed By

12/19/25
Date

Reviewed By

Date

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: WSP Project Name: Ravensdale

COC No(s): NA Delivered by: Fed-Ex UPS Courier Hand Delivered Other:

Assigned ARI Job No: 25L0488 Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) Time 1545 1.1 1.4 2.9 Temp Gun ID#: 8117

Was a temperature blank included in the cooler? YES NO

Were coolers received between 0°- 6° (°C) YES NO

Was an attempt made to cool the samples? NA YES NO

Cooler Accepted by: SA Date: 12/19/25 Time: 1545

Complete custody forms and attach all shipping documents

Log-In Phase:

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block N/A Other:

Are any samples that were out of temperature compliance documented in LIMS? YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: SA Date: 12/19/25 Time: 1605 Labels checked by: SA

***** Notify Project Manager of discrepancies or concerns *****

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Analytical Resources, Incorporated
Analytical Chemists and Consultants

WORK ORDER

25L0488

Client: WSP USA, Inc.	**Project Manager:** Kelly Bottem
Project: Ravensdale	**Project Number:** Ravensdale

Preservation Confirmation

Container ID	Container Type	pH	pH Paper Lot#: N0000119
25L0488-01 A	HDPE NM, 250mL HNO3	<2 P	
25L0488-02 A	HDPE NM, 500 mL	<2 F	(1)
25L0488-03 A	HDPE NM, 250mL HNO3	<2 P	
25L0488-04 A	HDPE NM, 500 mL	<2 F	(1)
25L0488-05 A	HDPE NM, 250mL HNO3	<2 P	
25L0488-06 A	HDPE NM, 500 mL	<2 F	(1)

SA
Preservation Confirmed By

12/19/25
Date

(1) Filtered and Preserved with 2.0mL of HNO3 (N0000850)
17:24 12/19/25 MN

Pres checked pH<2 12:06 12/22/25 MN

Reviewed By

Date

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	08-Jan-2026 11:23

Tank - Influent

25L0488-01 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/19/2025 09:50

Instrument: ICPMS1 Analyst: HAL — Analyzed: 12/29/2025 23:16

Sample Preparation: Preparation Method: REN - EPA 3010A M — Extract ID: 25L0488-01 A 01

Preparation Batch: BNL0532 — Sample Size: 25 mL

Prepared: 12/23/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	18.2	ug/L	
Arsenic UCT	7440-38-2	1	0.100	0.200	18.3	ug/L	
Vanadium	7440-62-2	1	0.100	0.200	3.18	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	08-Jan-2026 11:23

Tank - Influent

25L0488-01RE1 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/19/2025 09:50

Instrument: ICPMS1 Analyst: HAL — Analyzed: 12/30/2025 20:06

Sample Preparation: Preparation Method: REN - EPA 3010A M — Extract ID: 25L0488-01RE1 A 01

Preparation Batch: BNL0532 — Sample Size: 25 mL

Prepared: 12/23/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Lead	7439-92-1	1	0.100	0.200	42.5	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	08-Jan-2026 11:23

Tank - Influent

25L0488-02 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 — Sampled: 12/19/2025 09:50

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 00:44

Sample Preparation: Preparation Method: REN - EPA 3010A M — Extract ID: 25L0488-02 A 02

Preparation Batch: BNL0567 — Sample Size: 25 mL

Prepared: 12/24/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony, Dissolved	7440-36-0	2	0.300	0.400	18.5	ug/L	D
Arsenic UCT, Dissolved	7440-38-2	2	0.200	0.400	7.43	ug/L	D
Lead, Dissolved	7439-92-1	2	0.200	0.400	20.8	ug/L	D
Vanadium, Dissolved	7440-62-2	2	0.200	0.400	3.41	ug/L	D

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	08-Jan-2026 11:23

Sand - Effluent

25L0488-03 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/19/2025 09:55

Instrument: ICPMS1 Analyst: HAL — Analyzed: 12/29/2025 22:21

Sample Preparation: Preparation Method: REN - EPA 3010A M — Extract ID: 25L0488-03 A 01

Preparation Batch: BNL0532 — Sample Size: 25 mL

Prepared: 12/23/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	19.3	ug/L	
Arsenic UCT	7440-38-2	1	0.100	0.200	19.7	ug/L	
Vanadium	7440-62-2	1	0.100	0.200	3.13	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	08-Jan-2026 11:23

Sand - Effluent

25L0488-03RE1 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/19/2025 09:55

Instrument: ICPMS1 Analyst: HAL — Analyzed: 12/30/2025 19:52

Sample Preparation: Preparation Method: REN - EPA 3010A M — Extract ID: 25L0488-03RE1 A 01

Preparation Batch: BNL0532 — Sample Size: 25 mL

Prepared: 12/23/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Lead	7439-92-1	1	0.100	0.200	17.3	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	08-Jan-2026 11:23

Sand - Effluent

25L0488-04 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 — Sampled: 12/19/2025 09:55

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 00:49

Sample Preparation: Preparation Method: REN - EPA 3010A M — Extract ID: 25L0488-04 A 02

Preparation Batch: BNL0567 — Sample Size: 25 mL

Prepared: 12/24/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony, Dissolved	7440-36-0	2	0.300	0.400	18.7	ug/L	D
Arsenic UCT, Dissolved	7440-38-2	2	0.200	0.400	19.0	ug/L	D
Lead, Dissolved	7439-92-1	2	0.200	0.400	0.954	ug/L	D
Vanadium, Dissolved	7440-62-2	2	0.200	0.400	3.51	ug/L	D

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	08-Jan-2026 11:23

As - Effluent

25L0488-05 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/19/2025 10:00

Instrument: ICPMS1 Analyst: HAL — Analyzed: 12/29/2025 22:10

Sample Preparation: Preparation Method: REN - EPA 3010A M — Extract ID: 25L0488-05 A 01

Preparation Batch: BNL0532 — Sample Size: 25 mL

Prepared: 12/23/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	3.04	ug/L	
Arsenic UCT	7440-38-2	1	0.100	0.200	0.645	ug/L	
Vanadium	7440-62-2	1	0.100	0.200	0.139	ug/L	J

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	08-Jan-2026 11:23

As - Effluent

25L0488-05RE1 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/19/2025 10:00

Instrument: ICPMS1 Analyst: HAL — Analyzed: 12/30/2025 19:57

Sample Preparation: Preparation Method: REN - EPA 3010A M — Extract ID: 25L0488-05RE1 A 01

Preparation Batch: BNL0532 — Sample Size: 25 mL

Prepared: 12/23/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Lead	7439-92-1	1	0.100	0.200	5.82	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	08-Jan-2026 11:23

As - Effluent

25L0488-06 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 — Sampled: 12/19/2025 10:00

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 00:54

Sample Preparation: Preparation Method: REN - EPA 3010A M — Extract ID: 25L0488-06 A 02

Preparation Batch: BNL0567 — Sample Size: 25 mL

Prepared: 12/24/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony, Dissolved	7440-36-0	2	0.300	0.400	2.87	ug/L	D
Arsenic UCT, Dissolved	7440-38-2	2	0.200	0.400	0.436	ug/L	D
Lead, Dissolved	7439-92-1	2	0.200	0.400	0.510	ug/L	D
Vanadium, Dissolved	7440-62-2	2	0.200	0.400	ND	ug/L	U

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	08-Jan-2026 11:23

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BNL0532 - EPA 200.8 in Water

Instrument: ICPMS1 Analyst: HAL

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNL0532-BLK1)					Prepared: 23-Dec-2025 Analyzed: 23-Dec-2025 18:01							
Arsenic UCT	75a UCT	ND	0.100	0.200	ug/L							U
Lead	208	ND	0.100	0.200	ug/L							U
Blank (BNL0532-BLK2)					Prepared: 23-Dec-2025 Analyzed: 29-Dec-2025 18:26							
Antimony	121	ND	0.150	0.200	ug/L							U
Arsenic UCT	75a UCT	ND	0.100	0.200	ug/L							U
Lead	208	ND	0.100	0.200	ug/L							U
Vanadium	51a	ND	0.100	0.200	ug/L							U
LCS (BNL0532-BS1)					Prepared: 23-Dec-2025 Analyzed: 23-Dec-2025 18:10							
Arsenic UCT	75a UCT	25.2	0.100	0.200	ug/L	25.0		101	85-115			
Lead	208	25.4	0.100	0.200	ug/L	25.0		102	85-115			
LCS (BNL0532-BS2)					Prepared: 23-Dec-2025 Analyzed: 29-Dec-2025 18:36							
Antimony	121	26.9	0.150	0.200	ug/L	25.0		107	85-115			
Arsenic UCT	75a UCT	25.0	0.100	0.200	ug/L	25.0		100	85-115			
Lead	208	24.5	0.100	0.200	ug/L	25.0		98.2	85-115			
Vanadium	51a	22.5	0.100	0.200	ug/L	25.0		90.0	85-115			
Duplicate (BNL0532-DUP1)			**Source: 25L0488-01**		Prepared: 23-Dec-2025 Analyzed: 29-Dec-2025 23:21							
Arsenic UCT	75a UCT	17.8	0.100	0.200	ug/L		18.3			2.37	20	
Duplicate (BNL0532-DUP2)			**Source: 25L0488-01RE1**		Prepared: 23-Dec-2025 Analyzed: 30-Dec-2025 20:11							
Lead	208	40.3	0.100	0.200	ug/L		42.5			5.41	20	
Matrix Spike (BNL0532-MS1)			**Source: 25L0488-01**		Prepared: 23-Dec-2025 Analyzed: 29-Dec-2025 23:26							
Arsenic UCT	75a UCT	41.2	0.100	0.200	ug/L	25.0	18.3	91.9	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Matrix Spike (BNL0532-MS2)			**Source: 25L0488-01RE1**		Prepared: 23-Dec-2025 Analyzed: 30-Dec-2025 20:15							
Lead	208	61.7	0.100	0.200	ug/L	25.0	42.5	76.7	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	08-Jan-2026 11:23

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNL0567 - EPA 200.8 in Water

Instrument: ICPMS1 Analyst: HAL

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNL0567-BLK1)						Prepared: 24-Dec-2025 Analyzed: 05-Jan-2026 23:26						
Antimony, Dissolved	121	ND	0.150	0.200	ug/L							U
Arsenic UCT, Dissolved	75a UCT	ND	0.100	0.200	ug/L							U
Lead, Dissolved	208	ND	0.100	0.200	ug/L							U
Vanadium, Dissolved	51a	ND	0.100	0.200	ug/L							U
LCS (BNL0567-BS1)						Prepared: 24-Dec-2025 Analyzed: 05-Jan-2026 23:32						
Antimony, Dissolved	121	25.0	0.150	0.200	ug/L	25.0		100	85-115			
Arsenic UCT, Dissolved	75a UCT	24.9	0.100	0.200	ug/L	25.0		99.4	85-115			
Lead, Dissolved	208	26.4	0.100	0.200	ug/L	25.0		106	85-115			
Vanadium, Dissolved	51a	23.0	0.100	0.200	ug/L	25.0		91.9	85-115			

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	08-Jan-2026 11:23

Uncertified Analytes included in this Report

Analysis Matrix & Analyte
None

Certified Analyses included in this Report

Analysis Matrix & Analyte	Certification Codes
EPA 200.8 in Water	
Antimony-121	DoD-ELAP,NELAP,WADOE,WA-DW
Arsenic-75a UCT	DoD-ELAP,NELAP,WADOE,WA-DW
Lead-208	DoD-ELAP,NELAP,WADOE,WA-DW
Vanadium-51a	DoD-ELAP,NELAP,WADOE,WA-DW
Antimony-121	DoD-ELAP,NELAP,WADOE
Arsenic-75a UCT	DoD-ELAP,NELAP,WADOE
Lead-208	DoD-ELAP,NELAP,WADOE
Vanadium-51a	DoD-ELAP,NELAP,WADOE

Certifications

Code	Description	Number	Expires
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	01/31/2026
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-018	05/12/2026
WADOE	WA Dept of Ecology	C558	06/30/2026
WA-DW	Ecology - Drinking Water	C558	06/30/2026

WSP USA, Inc.	Project:	Ravensdale	
840 HOWE STREET, #1000	Project Number:	Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager:	Accounts Payable	08-Jan-2026 11:23

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
HC	The natural concentration of the spiked analyte is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.
!	Indicates that ARL is NOT ACCREDITED for this parameter in samples logged as 'Drinking Water'
#	Indicates that ARL is NOT ACCREDITED for this parameter in this analysis and matrix.

Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

20 January 2026

Accounts Payable
WSP USA, Inc.
840 HOWE STREET, #1000
VANCOUVER, BRITISH COLUMBIA V6Z 2M1

RE: Ravensdale (Ravensdale)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)	Associated SDG ID(s)
26A0009	N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Kelly Bottem, Client Services Manager

Cert# 100006-018

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 26A0009	Turn-around Requested: standard	Page: 1 of 1	
ARI Client Company: WSP	Phone:	Date: 1/2/26	Ice Present?
Client Contact: Gary Zimmerman, Darilyn Espiritu		No. of Coolers:	Cooler Temps: 4.9
Client Project Name: Ravenstule			
Client Project #: us-wsp-31406578.1731	Samplers: Andrew Wuser		

Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Total Metals (As, Pb, Sb, V, U)	Analysis Requested: TDS	Notes/Comments
MW-7A-1225	12/31/25	1235	W	2	x	x	

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Andrew Wuser	Printed Name: Sydni Acevedo	Printed Name:	Printed Name:
	Company: WSP	Company: ARLLC	Company:	Company:
	Date & Time: 1/2/25 1145	Date & Time: 1/2/26 1145	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-7A-1225	26A0009-01	Water	31-Dec-2025 12:25	02-Jan-2026 11:45

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:30

Work Order Case Narrative

Client: WSP USA, Inc.
Project: Ravensdale
Project Number: Ravensdale
Work Order: 26A0009

Sample receipt

Samples as listed on the preceding page were received 02-Jan-2026 11:45 under ARI work order 26A0009. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Total Metals - EPA Method 200.8, 6010D

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations including interference checks were within method requirements for reported elements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

WORK ORDER

26A0009

Client: WSP USA, Inc.	**Project Manager: Kelly Bottem**
Project: Ravensdale	**Project Number: Ravensdale**

Preservation Confirmation

Container ID	Container Type	pH	pH Paper Lot#: N000119
26A0009-01 A	HDPE NM, 1000 mL		
26A0009-01 B	HDPE NM, 250mL HNO3	22 p	

SS
Preservation Confirmed By

1-2-26
Date

Reviewed By

Date

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: WSP Project Name: Ravensdale

COC No(s): ____ (NA) Delivered by: Fed-Ex UPS Courier Hand Delivered Other: ____

Assigned ARI Job No: 26A0009 Tracking No: ____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Temperature of Cooler(s) (°C) Time 1145 ____ ____ 4.9 ____ ____ ____ Temp Gun ID#: 8117		
Was a temperature blank included in the cooler?	YES	(NO)
Were coolers received between 0°- 6° (°C)	(YES)	NO
Was an attempt made to cool the samples?	NA (YES)	NO

Cooler Accepted by: SA Date: 1/2/26 Time: 1145

Complete custody forms and attach all shipping documents

Log-In Phase:

What kind of packing material was used? Bubble Wrap (Wet Ice Gel Packs) Baggies Foam Block N/A Other: ____

Are any samples that were out of temperature compliance documented in LIMS? YES (NO)

How were bottles sealed in plastic bags?	Individually	(Grouped)	Not
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	(YES)	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)	____	

Were the sample(s) split by ARI? (NA) YES Date/Time: ____ Equipment: ____ Split by: ____

Samples Logged by: SS Date: 1-2-26 Time: 11:50 Labels checked by: NDT

*** Notify Project Manager of discrepancies or concerns ***

Additional Notes, Discrepancies, & Resolutions:

By: Date:

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:30

MW-7A-1225

26A0009-01 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/31/2025 12:25

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/05/2026 18:08

Sample Preparation: Preparation Method: REN - EPA 3010A M — Extract ID: 26A0009-01 B 01

Preparation Batch: BOA0021 — Sample Size: 25 mL

Prepared: 01/05/2026 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	1.91	ug/L	
Arsenic UCT	7440-38-2	1	0.100	0.200	1.08	ug/L	
Lead	7439-92-1	1	0.100	0.200	ND	ug/L	U
Vanadium	7440-62-2	1	0.100	0.200	0.830	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:30

MW-7A-1225

26A0009-01 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/31/2025 12:25

Instrument: ICP3 Analyst: SH — Analyzed: 01/15/2026 21:40

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 26A0009-01 B 02

Preparation Batch: BOA0020 — Sample Size: 25 mL

Prepared: 01/05/2026 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	41.8	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:30

MW-7A-1225

26A0009-01 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/31/2025 12:25

Instrument: BAL2 Analyst: RAL — Analyzed: 01/02/2026 12:12

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 26A0009-01

Preparation Batch: BOA0011 — Sample Size: 100 mL

Prepared: 01/02/2026 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	304	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:30

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BOA0020 - EPA 6010D in Water

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BOA0020-BLK1)					Prepared: 05-Jan-2026 Analyzed: 15-Jan-2026 21:29						
Potassium	ND	0.250	0.500	mg/L							U
LCS (BOA0020-BS1)					Prepared: 05-Jan-2026 Analyzed: 15-Jan-2026 21:32						
Potassium	10.4	0.250	0.500	mg/L	10.0		104	80-120			

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:30

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BOA0021 - EPA 200.8 in Water

Instrument: ICPMS1 Analyst: HAL

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BOA0021-BLK1)						Prepared: 05-Jan-2026 Analyzed: 05-Jan-2026 17:35						
Antimony	121	ND	0.150	0.200	ug/L							U
Arsenic UCT	75a UCT	ND	0.100	0.200	ug/L							U
Lead	208	ND	0.100	0.200	ug/L							U
Vanadium	51a	ND	0.100	0.200	ug/L							U
LCS (BOA0021-BS1)						Prepared: 05-Jan-2026 Analyzed: 05-Jan-2026 17:40						
Antimony	121	24.8	0.150	0.200	ug/L	25.0		99.1	85-115			
Arsenic UCT	75a UCT	25.2	0.100	0.200	ug/L	25.0		101	85-115			
Lead	208	27.7	0.100	0.200	ug/L	25.0		111	85-115			
Vanadium	51a	24.1	0.100	0.200	ug/L	25.0		96.2	85-115			
Duplicate (BOA0021-DUP1)			**Source: 26A0009-01**			Prepared: 05-Jan-2026 Analyzed: 05-Jan-2026 18:13						
Arsenic UCT	75a UCT	1.11	0.100	0.200	ug/L		1.08			2.01	20	
Lead	208	ND	0.100	0.200	ug/L		ND				20	U
Matrix Spike (BOA0021-MS1)			**Source: 26A0009-01**			Prepared: 05-Jan-2026 Analyzed: 05-Jan-2026 18:18						
Arsenic UCT	75a UCT	25.7	0.100	0.200	ug/L	25.0	1.08	98.5	75-125			
Lead	208	24.8	0.100	0.200	ug/L	25.0	ND	99.3	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:30

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BOA0011 - SM 2540 C-11 in Water

Instrument: BAL2 Analyst: RAL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BOA0011-BLK1)				Prepared: 02-Jan-2026 Analyzed: 02-Jan-2026 12:12							
Dissolved Solids	ND	5	5	mg/L							U
LCS (BOA0011-BS1)				Prepared: 02-Jan-2026 Analyzed: 02-Jan-2026 12:12							
Dissolved Solids	498	10	10	mg/L	500		99.5	90-110			

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:30

Uncertified Analytes included in this Report

Analysis Matrix & Analyte
None

Certified Analyses included in this Report

Analysis Matrix & Analyte	Certification Codes
EPA 200.8 in Water	
Antimony-121	DoD-ELAP,NELAP,WADOE
Arsenic-75a UCT	DoD-ELAP,NELAP,WADOE
Lead-208	DoD-ELAP,NELAP,WADOE
Vanadium-51a	DoD-ELAP,NELAP,WADOE
EPA 6010D in Water	
Potassium	DoD-ELAP,NELAP,WADOE
SM 2540 C-11 in Water	
Dissolved Solids	DoD-ELAP,WADOE,NELAP,WA-DW

Certifications

Code	Description	Number	Expires
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	01/31/2026
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-018	05/12/2026
WADOE	WA Dept of Ecology	C558	06/30/2026
WA-DW	Ecology - Drinking Water	C558	06/30/2026

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:30

Notes and Definitions

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HC	The natural concentration of the spiked analyte is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
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ND	Analyte NOT DETECTED at or above the reporting limit
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RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.
!	Indicates that ARL is NOT ACCREDITED for this parameter in samples logged as 'Drinking Water'
#	Indicates that ARL is NOT ACCREDITED for this parameter in this analysis and matrix.

Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

20 January 2026

Accounts Payable
WSP USA, Inc.
840 HOWE STREET, #1000
VANCOUVER, BRITISH COLUMBIA V6Z 2M1

RE: Ravensdale (Ravensdale)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)	Associated SDG ID(s)
25L0498	N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Kelly Bottem, Client Services Manager

ACCREDITED IN ACCORDANCE WITH nelac
Cert# 100006-018

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 25L0498	Turn-around Requested: Standard	Page: 1 of 2	
ARI Client Company: WSP	Phone: (425) 221-4729	Date: 12/19/25	Ice Present?
Client Contact: Gary Zimmerman, Danilyn Espiritu		No. of Coolers:	Cooler Temps: 2.9, 1.4
Client Project Name: Ruckersdale			
Client Project #: US-USP-314065.78.1731	Samplers: Andrew Wiser		

Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Total Metals (As, Pb, Sb, V, W)	Analysis Requested: TDS	Analysis Requested: Dissolved Metals (As, Pb, Sb, V, W)	Notes/Comments
MW-1A-1225	12/18/25	1025	W	2	X	X		
MW-2A-1225	12/18/25	1135	W	2	X	X		
MW-3A-1225	12/17/25	1240	W	2	X	X		
MW-4A-1225	12/18/25	1110	W	2	X	X		
MW-5A-1225	12/18/25	1400	W	2	X	X		
MW-6A-1225	12/18/25	1225	W	2	X	X		
~~MW-7A-1225~~								
MW-8A-1225	12/19/25	1410	W	2	X	X		
MW-9A-1225	12/19/25	1145	W	2	X	X		
MW-10A-1225	12/17/25	1330	W	2	X	X		

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
Please include PO, PN, and Task ID on all invoices	(Signature)	(Signature)	(Signature)	(Signature)
PO: PI19363US001	Printed Name: Andrew Wiser	Printed Name: Sydni Acevedo	Printed Name:	Printed Name:
PN: US-WSP-314065.78.1731	Company: WSP	Company: ARLLC	Company:	Company:
Task: 300	Date & Time: 12/19/25 1545	Date & Time: 12/19/25 1545	Date & Time:	Date & Time:

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Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 25L0498	Turn-around Requested: Standard	Page: 2 of 2	
ARI Client Company: WSP	Phone:	Date:	Ice Present?
Client Contact: Gary Zimmerman, Danilyn Espiritu		No. of Coolers:	Cooler Temps: 2.9, 1.4
Client Project Name: Ravenstale			
Client Project #: US-WSP-314065 78.1731	Samplers: Andrew Wuser		

Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Total Metals (As, Pb, Sb, V, K)	Analysis Requested: TDS	Analysis Requested: Dissolved Metals (As, Pb, Sb, V, K)	Analysis Requested					Notes/Comments
Infiltration Ponds-1225	12/18/25	1410	W	3	X	X	X						
Weir-1225	12/17/25	1410	W	6	X	X							MS/MSD
South Pond-1225	12/17/25	1345	W	2	X	X							
Still Well-1225	12/17/25	1430	W	2	X	X							
Interceptor Trench-1225	12/18/25	1450	W	1		X							
MW-35A-1225	12/18/25	1415	W	3	X	X		X					
MW-45A-1225	12/18/25	1140	W	2	X	X							
MW-44-1-1225	12/19/25	1335	W	2	X	X							
Baja Well-1225	12/18/25	1210	W	2	X	X							

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
Please include PO, PN and Task ID on all invoices PO: PI19363US001 PN: US-WSP-314065 78.1731 Task: 300	(Signature)	(Signature)	(Signature)	(Signature)
	Printed Name: Andrew Wuser	Printed Name: Sydni Acevedo	Printed Name:	Printed Name:
	Company: WSP	Company: ARLLC	Company:	Company:
	Date & Time: 12/19/25 1545	Date & Time: 12/19/25 1545	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1A-1225	25L0498-01	Water	18-Dec-2025 10:25	19-Dec-2025 15:45
MW-2A-1225	25L0498-02	Water	18-Dec-2025 11:35	19-Dec-2025 15:45
MW-3A-1225	25L0498-03	Water	17-Dec-2025 12:40	19-Dec-2025 15:45
MW-4A-1225	25L0498-04	Water	18-Dec-2025 11:10	19-Dec-2025 15:45
MW-5A-1225	25L0498-05	Water	18-Dec-2025 14:00	19-Dec-2025 15:45
MW-6A-1225	25L0498-06	Water	18-Dec-2025 12:25	19-Dec-2025 15:45
MW-8A-1225	25L0498-07	Water	19-Dec-2025 14:10	19-Dec-2025 15:45
MW-9A-1225	25L0498-08	Water	19-Dec-2025 11:45	19-Dec-2025 15:45
MW-10A-1225	25L0498-09	Water	17-Dec-2025 13:30	19-Dec-2025 15:45
Infiltration Ponds-1225	25L0498-10	Water	18-Dec-2025 14:10	19-Dec-2025 15:45
Infiltration Ponds-1225	25L0498-11	Water	18-Dec-2025 14:10	19-Dec-2025 15:45
Weir-1225	25L0498-12	Water	17-Dec-2025 14:10	19-Dec-2025 15:45
South Pond -1225	25L0498-13	Water	17-Dec-2025 13:45	19-Dec-2025 15:45
Still Well-1225	25L0498-14	Water	17-Dec-2025 14:30	19-Dec-2025 15:45
Interceptor Trench-1225	25L0498-15	Water	18-Dec-2025 14:50	19-Dec-2025 15:45
MW-35A-1225	25L0498-16	Water	18-Dec-2025 14:15	19-Dec-2025 15:45
MW-35A-1225	25L0498-17	Water	18-Dec-2025 14:15	19-Dec-2025 15:45
MW-45A-1225	25L0498-18	Water	18-Dec-2025 11:40	19-Dec-2025 15:45
MW-99-1-1225	25L0498-19	Water	19-Dec-2025 13:35	19-Dec-2025 15:45
Baja Well-1225	25L0498-20	Water	19-Dec-2025 12:10	19-Dec-2025 15:45

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Work Order Case Narrative

Client: WSP USA, Inc.
Project: Ravensdale
Work Order: 25L0498

Sample receipt

Samples as listed on the preceding page were received 19-Dec-2025 15:45 under ARI work order 25L0498. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Total and Dissolved Metals - EPA Method 200.8, 6010D

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations including interference checks were within method requirements for reported elements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The sample duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

WORK ORDER

25L0498

Client: WSP USA, Inc.	**Project Manager:** Kelly Bottem
Project: Ravensdale	**Project Number:** Ravensdale

Preservation Confirmation

Container ID	Container Type	pH	pH Paper Lot#: N000119
25L0498-01 A	HDPE NM, 500 mL		
25L0498-01 B	HDPE NM, 250mL HNO3	<2 p	
25L0498-02 A	HDPE NM, 500 mL		
25L0498-02 B	HDPE NM, 250mL HNO3	<2 p	
25L0498-03 A	HDPE NM, 500 mL		
25L0498-03 B	HDPE NM, 250mL HNO3	<2 p	
25L0498-04 A	HDPE NM, 500 mL		
25L0498-04 B	HDPE NM, 250mL HNO3	<2 p	
25L0498-05 A	HDPE NM, 500 mL		
25L0498-05 B	HDPE NM, 250mL HNO3	<2 p	
25L0498-06 A	HDPE NM, 500 mL		
25L0498-06 B	HDPE NM, 250mL HNO3	<2 p	
25L0498-07 A	HDPE NM, 500 mL		
25L0498-07 B	HDPE NM, 250mL HNO3	<2 p	
25L0498-08 A	HDPE NM, 500 mL		
25L0498-08 B	HDPE NM, 250mL HNO3	<2 p	
25L0498-09 A	HDPE NM, 500 mL		
25L0498-09 B	HDPE NM, 250mL HNO3	<2 p	
25L0498-10 A	HDPE NM, 500 mL		
25L0498-10 B	HDPE NM, 250mL HNO3	<2 p	
25L0498-11 A	HDPE NM, 250mL HNO3 (FF)	L	
25L0498-12 A	HDPE NM, 500 mL		
25L0498-12 B	HDPE NM, 500 mL		
25L0498-12 C	HDPE NM, 500 mL		
25L0498-12 D	HDPE NM, 250mL HNO3	<2 p	
25L0498-12 E	HDPE NM, 250mL HNO3	L	
25L0498-12 F	HDPE NM, 250mL HNO3		
25L0498-13 A	HDPE NM, 500 mL		
25L0498-13 B	HDPE NM, 250mL HNO3	<2 p	
25L0498-14 A	HDPE NM, 500 mL		
25L0498-14 B	HDPE NM, 250mL HNO3	<2 p	
25L0498-15 A	HDPE NM, 500 mL		

Reviewed By

Date

WORK ORDER

25L0498

Client: WSP USA, Inc.	**Project Manager: Kelly Bottem**
Project: Ravensdale	**Project Number: Ravensdale**

25L0498-16 A	HDPE NM, 500 mL	
25L0498-16 B	HDPE NM, 250mL HNO3	<2 p
25L0498-17 A	HDPE NM, 250mL HNO3 (FF)	1
25L0498-18 A	HDPE NM, 500 mL	
25L0498-18 B	HDPE NM, 250mL HNO3	<2 p
25L0498-19 A	HDPE NM, 500 mL	
25L0498-19 B	HDPE NM, 250mL HNO3	<2 p
25L0498-20 A	HDPE NM, 500 mL	
25L0498-20 B	HDPE NM, 250mL HNO3	<2 p

SA — Preservation Confirmed By

12/22/25 — Date

Reviewed By

Date

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: WSP Project Name: Ravensdale

COC No(s): NA Delivered by: Fed-Ex UPS Courier Hand Delivered Other:

Assigned ARI Job No: 25L0498 Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO
Temperature of Cooler(s) (°C) Time 1545 ____ 1.1 1.4 2.9 ____ ____ Temp Gun ID#: 8117		
Was a temperature blank included in the cooler?	YES	NO
Were coolers received between 0°- 6° (°C)	YES	NO
Was an attempt made to cool the samples?	NA YES	NO

Cooler Accepted by: SA Date: 12/19/25 Time: 1545

Complete custody forms and attach all shipping documents

Log-In Phase:

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block N/A Other:

Are any samples that were out of temperature compliance documented in LIMS? YES NO

How were bottles sealed in plastic bags?	Individually	Grouped	Not
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA		

Were the sample(s) split by ARI? NA YES Date/Time: ____ Equipment: ____ Split by: ____

Samples Logged by: SA Date: 12/22/25 Time: 0840 Labels checked by: SA

*** Notify Project Manager of discrepancies or concerns ***

Additional Notes, Discrepancies, & Resolutions:

By: Date:

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-1A-1225

25L0498-01 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/18/2025 10:25

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 19:46

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-01 B 01

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	1.12	ug/L	
Arsenic UCT	7440-38-2	1	0.100	0.200	1.04	ug/L	
Lead	7439-92-1	1	0.100	0.200	ND	ug/L	U
Vanadium	7440-62-2	1	0.100	0.200	0.839	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-1A-1225

25L0498-01 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/18/2025 10:25

Instrument: ICP3 Analyst: SH — Analyzed: 01/12/2026 08:30

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-01 B 02

Preparation Batch: BNL0579 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	20.3	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-1A-1225

25L0498-01 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/18/2025 10:25

Instrument: BAL2 Analyst: RAL — Analyzed: 12/23/2025 11:48

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-01

Preparation Batch: BNL0544 — Sample Size: 100 mL

Prepared: 12/23/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	317	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-2A-1225

25L0498-02 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/18/2025 11:35

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 19:51

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-02 B 01

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	3.17	ug/L	
Arsenic UCT	7440-38-2	1	0.100	0.200	1.59	ug/L	
Lead	7439-92-1	1	0.100	0.200	ND	ug/L	U
Vanadium	7440-62-2	1	0.100	0.200	0.870	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-2A-1225

25L0498-02 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/18/2025 11:35

Instrument: ICP3 Analyst: SH — Analyzed: 01/12/2026 08:33

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-02 B 02

Preparation Batch: BNL0579 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	56.9	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-2A-1225

25L0498-02 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/18/2025 11:35

Instrument: BAL2 Analyst: RAL — Analyzed: 12/23/2025 11:48

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-02

Preparation Batch: BNL0544 — Sample Size: 100 mL

Prepared: 12/23/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	356	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-3A-1225

25L0498-03 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/17/2025 12:40

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 20:46

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-03 B 02

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	7.41	ug/L	
Arsenic UCT	7440-38-2	1	0.100	0.200	2.16	ug/L	
Lead	7439-92-1	1	0.100	0.200	0.224	ug/L	
Vanadium	7440-62-2	1	0.100	0.200	1.13	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-3A-1225

25L0498-03 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/17/2025 12:40

Instrument: ICP3 Analyst: SH — Analyzed: 01/12/2026 08:52

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-03 B 02

Preparation Batch: BNL0579 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	43.3	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-3A-1225

25L0498-03 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/17/2025 12:40

Instrument: BAL2 Analyst: RAL — Analyzed: 12/23/2025 11:48

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-03

Preparation Batch: BNL0544 — Sample Size: 200 mL

Prepared: 12/23/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	5	5	195	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-4A-1225

25L0498-04 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/18/2025 11:10

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 20:50

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-04 B 02

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	ND	ug/L	U
Arsenic UCT	7440-38-2	1	0.100	0.200	0.201	ug/L	
Lead	7439-92-1	1	0.100	0.200	ND	ug/L	U
Vanadium	7440-62-2	1	0.100	0.200	1.35	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-4A-1225

25L0498-04 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/18/2025 11:10

Instrument: ICP3 Analyst: SH — Analyzed: 01/12/2026 08:55

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-04 B 02

Preparation Batch: BNL0579 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	0.881	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-4A-1225

25L0498-04 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/18/2025 11:10

Instrument: BAL2 Analyst: RAL — Analyzed: 12/23/2025 11:48

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-04

Preparation Batch: BNL0544 — Sample Size: 100 mL

Prepared: 12/23/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	235	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-5A-1225

25L0498-05 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/18/2025 14:00

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 20:55

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-05 B 01

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	4.54	ug/L	
Arsenic UCT	7440-38-2	1	0.100	0.200	3.18	ug/L	
Lead	7439-92-1	1	0.100	0.200	0.154	ug/L	J
Vanadium	7440-62-2	1	0.100	0.200	1.69	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-5A-1225

25L0498-05 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/18/2025 14:00

Instrument: ICP3 Analyst: SH — Analyzed: 01/12/2026 08:58

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-05 B 02

Preparation Batch: BNL0579 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	165	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-5A-1225

25L0498-05 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/18/2025 14:00

Instrument: BAL2 Analyst: RAL — Analyzed: 12/23/2025 11:48

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-05

Preparation Batch: BNL0544 — Sample Size: 100 mL

Prepared: 12/23/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	550	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-6A-1225

25L0498-06 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/18/2025 12:25

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 21:00

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-06 B 01

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	3.55	ug/L	
Arsenic UCT	7440-38-2	1	0.100	0.200	1.05	ug/L	
Lead	7439-92-1	1	0.100	0.200	0.229	ug/L	
Vanadium	7440-62-2	1	0.100	0.200	0.632	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-6A-1225

25L0498-06 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/18/2025 12:25

Instrument: ICP3 Analyst: SH — Analyzed: 01/12/2026 09:01

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-06 B 02

Preparation Batch: BNL0579 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	133	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-6A-1225

25L0498-06 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/18/2025 12:25

Instrument: BAL2 Analyst: RAL — Analyzed: 12/23/2025 11:48

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-06

Preparation Batch: BNL0544 — Sample Size: 100 mL

Prepared: 12/23/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	485	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-8A-1225

25L0498-07 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/19/2025 14:10

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 21:05

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-07 B 01

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	4.06	ug/L	
Arsenic UCT	7440-38-2	1	0.100	0.200	4.85	ug/L	
Lead	7439-92-1	1	0.100	0.200	0.129	ug/L	J
Vanadium	7440-62-2	1	0.100	0.200	3.43	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-8A-1225

25L0498-07 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/19/2025 14:10

Instrument: ICP3 Analyst: SH — Analyzed: 01/12/2026 09:04

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-07 B 02

Preparation Batch: BNL0579 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	134	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-8A-1225

25L0498-07 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/19/2025 14:10

Instrument: BAL2 Analyst: RAL — Analyzed: 12/23/2025 11:48

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-07

Preparation Batch: BNL0544 — Sample Size: 100 mL

Prepared: 12/23/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	468	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-9A-1225

25L0498-08 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/19/2025 11:45

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 21:47

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-08 B 01

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	0.176	ug/L	J
Arsenic UCT	7440-38-2	1	0.100	0.200	0.443	ug/L	
Lead	7439-92-1	1	0.100	0.200	ND	ug/L	U
Vanadium	7440-62-2	1	0.100	0.200	0.962	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-9A-1225

25L0498-08 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/19/2025 11:45

Instrument: ICP3 Analyst: SH — Analyzed: 01/12/2026 09:07

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-08 B 02

Preparation Batch: BNL0579 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	2.39	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-9A-1225

25L0498-08 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/19/2025 11:45

Instrument: BAL2 Analyst: RAL — Analyzed: 12/23/2025 11:48

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-08

Preparation Batch: BNL0544 — Sample Size: 100 mL

Prepared: 12/23/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	469	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-10A-1225

25L0498-09 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/17/2025 13:30

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 21:52

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-09 B 01

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	ND	ug/L	U
Arsenic UCT	7440-38-2	1	0.100	0.200	0.458	ug/L	
Lead	7439-92-1	1	0.100	0.200	ND	ug/L	U
Vanadium	7440-62-2	1	0.100	0.200	0.889	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-10A-1225

25L0498-09 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/17/2025 13:30

Instrument: ICP3 Analyst: SH — Analyzed: 01/12/2026 09:09

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-09 B 02

Preparation Batch: BNL0579 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	0.848	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-10A-1225

25L0498-09 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/17/2025 13:30

Instrument: BAL2 Analyst: RAL — Analyzed: 12/23/2025 11:48

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-09

Preparation Batch: BNL0544 — Sample Size: 100 mL

Prepared: 12/23/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	134	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Infiltration Ponds-1225

25L0498-10 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/18/2025 14:10

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 21:56

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-10 B 01

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	7.09	ug/L	
Arsenic UCT	7440-38-2	1	0.100	0.200	4.25	ug/L	
Lead	7439-92-1	1	0.100	0.200	1.26	ug/L	
Vanadium	7440-62-2	1	0.100	0.200	1.36	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Infiltration Ponds-1225

25L0498-10 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/18/2025 14:10

Instrument: ICP3 Analyst: SH — Analyzed: 01/12/2026 09:12

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-10 B 02

Preparation Batch: BNL0579 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	86.6	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Infiltration Ponds-1225

25L0498-10 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/18/2025 14:10

Instrument: BAL2 Analyst: RAL — Analyzed: 12/23/2025 11:48

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-10

Preparation Batch: BNL0544 — Sample Size: 100 mL

Prepared: 12/23/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	282	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Infiltration Ponds-1225

25L0498-11 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 — Sampled: 12/18/2025 14:10

Instrument: ICPMS1 Analyst: HAL — Analyzed: 12/30/2025 00:36

Sample Preparation: Preparation Method: REN - EPA 3010A M — Extract ID: 25L0498-11 A 02

Preparation Batch: BNL0582 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony, Dissolved	7440-36-0	1	0.150	0.200	6.40	ug/L	
Arsenic UCT, Dissolved	7440-38-2	1	0.100	0.200	3.80	ug/L	
Vanadium, Dissolved	7440-62-2	1	0.100	0.200	0.843	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Infiltration Ponds-1225

25L0498-11RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 — Sampled: 12/18/2025 14:10

Instrument: ICPMS1 Analyst: HAL — Analyzed: 12/30/2025 21:18

Sample Preparation: Preparation Method: REN - EPA 3010A M — Extract ID: 25L0498-11RE1 A 01

Preparation Batch: BNL0582 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Lead, Dissolved	7439-92-1	1	0.100	0.200	0.618	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Infiltration Ponds-1225

25L0498-11RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D — Sampled: 12/18/2025 14:10

Instrument: ICP3 Analyst: SH — Analyzed: 01/15/2026 21:11

Sample Preparation: Preparation Method: WMN (No Prep) — Extract ID: 25L0498-11RE1 A 02

Preparation Batch: BNL0640 — Sample Size: 25 mL

Prepared: 12/30/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium, Dissolved	7440-09-7	1	0.250	0.500	93.7	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Weir-1225

25L0498-12 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/17/2025 14:10

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 21:10

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-12 F 02

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	6.52	ug/L	
Arsenic UCT	7440-38-2	1	0.100	0.200	3.80	ug/L	
Lead	7439-92-1	1	0.100	0.200	0.147	ug/L	J
Vanadium	7440-62-2	1	0.100	0.200	1.20	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Weir-1225

25L0498-12 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/17/2025 14:10
Instrument: ICP3 Analyst: SH — Analyzed: 01/12/2026 08:37

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-12 F 02
Preparation Batch: BNL0579 — Sample Size: 25 mL
Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	60.6	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Weir-1225

25L0498-12 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/17/2025 14:10

Instrument: BAL2 Analyst: RAL — Analyzed: 12/24/2025 09:26

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-12

Preparation Batch: BNL0569 — Sample Size: 100 mL

Prepared: 12/24/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	322	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

South Pond -1225

25L0498-13 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/17/2025 13:45

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 22:01

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-13 B 01

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	2.07	ug/L	
Arsenic UCT	7440-38-2	1	0.100	0.200	6.16	ug/L	
Lead	7439-92-1	1	0.100	0.200	1.52	ug/L	
Vanadium	7440-62-2	1	0.100	0.200	3.90	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

South Pond -1225

25L0498-13 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/17/2025 13:45

Instrument: ICP3 Analyst: SH — Analyzed: 01/12/2026 09:15

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-13 B 02

Preparation Batch: BNL0579 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	102	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

South Pond -1225

25L0498-13 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/17/2025 13:45

Instrument: BAL2 Analyst: RAL — Analyzed: 12/24/2025 09:26

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-13

Preparation Batch: BNL0569 — Sample Size: 100 mL

Prepared: 12/24/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	292	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Still Well-1225

25L0498-14 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/17/2025 14:30

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 22:06

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-14 B 01

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	16.9	ug/L	
Arsenic UCT	7440-38-2	1	0.100	0.200	30.9	ug/L	
Lead	7439-92-1	1	0.100	0.200	20.8	ug/L	
Vanadium	7440-62-2	1	0.100	0.200	3.02	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Still Well-1225

25L0498-14 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/17/2025 14:30

Instrument: BAL2 Analyst: RAL — Analyzed: 12/24/2025 09:26

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-14

Preparation Batch: BNL0569 — Sample Size: 50 mL

Prepared: 12/24/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	20	20	1810	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Still Well-1225

25L0498-14RE1 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/17/2025 14:30

Instrument: ICP3 Analyst: SH — Analyzed: 01/15/2026 21:50

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-14RE1 B 02

Preparation Batch: BNL0579 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	2	0.500	1.00	426	mg/L	D

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Interceptor Trench-1225

25L0498-15 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/18/2025 14:50

Instrument: BAL2 Analyst: RAL — Analyzed: 12/24/2025 09:26

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-15

Preparation Batch: BNL0569 — Sample Size: 100 mL

Prepared: 12/24/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	344	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-35A-1225

25L0498-16 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/18/2025 14:15

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 22:11

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-16 B 01

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	6.64	ug/L	
Arsenic UCT	7440-38-2	1	0.100	0.200	4.11	ug/L	
Lead	7439-92-1	1	0.100	0.200	1.16	ug/L	
Vanadium	7440-62-2	1	0.100	0.200	1.29	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-35A-1225

25L0498-16 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/18/2025 14:15

Instrument: ICP3 Analyst: SH — Analyzed: 01/12/2026 09:38

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-16 B 02

Preparation Batch: BNL0579 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	94.0	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-35A-1225

25L0498-16 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/18/2025 14:15

Instrument: BAL2 Analyst: RAL — Analyzed: 12/24/2025 09:26

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-16

Preparation Batch: BNL0569 — Sample Size: 100 mL

Prepared: 12/24/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	305	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-35A-1225

25L0498-17 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 — Sampled: 12/18/2025 14:15

Instrument: ICPMS1 Analyst: HAL — Analyzed: 12/30/2025 00:10

Sample Preparation: Preparation Method: REN - EPA 3010A M — Extract ID: 25L0498-17 A 02

Preparation Batch: BNL0582 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony, Dissolved	7440-36-0	1	0.150	0.200	6.71	ug/L	
Arsenic UCT, Dissolved	7440-38-2	1	0.100	0.200	3.88	ug/L	
Vanadium, Dissolved	7440-62-2	1	0.100	0.200	0.853	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-35A-1225

25L0498-17RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 200.8 — Sampled: 12/18/2025 14:15

Instrument: ICPMS1 Analyst: HAL — Analyzed: 12/30/2025 19:47

Sample Preparation: Preparation Method: REN - EPA 3010A M — Extract ID: 25L0498-17RE1 A 02

Preparation Batch: BNL0582 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Lead, Dissolved	7439-92-1	1	0.100	0.200	0.646	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-35A-1225

25L0498-17RE1 (Water)

Metals and Metallic Compounds (dissolved)

Method: EPA 6010D — Sampled: 12/18/2025 14:15

Instrument: ICP3 Analyst: SH — Analyzed: 01/15/2026 20:57

Sample Preparation: Preparation Method: WMN (No Prep) — Extract ID: 25L0498-17RE1 A 02

Preparation Batch: BNL0640 — Sample Size: 25 mL

Prepared: 12/30/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium, Dissolved	7440-09-7	1	0.250	0.500	92.7	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-45A-1225

25L0498-18 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/18/2025 11:40

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 22:16

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-18 B 01

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	3.16	ug/L	
Arsenic UCT	7440-38-2	1	0.100	0.200	1.61	ug/L	
Lead	7439-92-1	1	0.100	0.200	1.52	ug/L	
Vanadium	7440-62-2	1	0.100	0.200	0.978	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-45A-1225

25L0498-18 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/18/2025 11:40

Instrument: ICP3 Analyst: SH — Analyzed: 01/12/2026 09:41

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-18 B 02

Preparation Batch: BNL0579 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	55.8	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-45A-1225

25L0498-18 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/18/2025 11:40

Instrument: BAL2 Analyst: RAL — Analyzed: 12/24/2025 09:26

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-18

Preparation Batch: BNL0569 — Sample Size: 100 mL

Prepared: 12/24/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	302	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-99-1-1225

25L0498-19 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/19/2025 13:35

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 22:20

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-19 B 01

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	ND	ug/L	U
Arsenic UCT	7440-38-2	1	0.100	0.200	ND	ug/L	U
Lead	7439-92-1	1	0.100	0.200	0.131	ug/L	J
Vanadium	7440-62-2	1	0.100	0.200	ND	ug/L	U

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-99-1-1225

25L0498-19 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/19/2025 13:35

Instrument: ICP3 Analyst: SH — Analyzed: 01/12/2026 09:44

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-19 B 02

Preparation Batch: BNL0579 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	ND	mg/L	U

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

MW-99-1-1225

25L0498-19 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/19/2025 13:35

Instrument: BAL2 Analyst: RAL — Analyzed: 12/24/2025 09:26

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-19

Preparation Batch: BNL0569 — Sample Size: 200 mL

Prepared: 12/24/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	5	5	32	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Baja Well-1225

25L0498-20 (Water)

Metals and Metallic Compounds

Method: EPA 200.8 — Sampled: 12/19/2025 12:10

Instrument: ICPMS1 Analyst: HAL — Analyzed: 01/06/2026 22:25

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix — Extract ID: 25L0498-20 B 01

Preparation Batch: BNL0580 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Antimony	7440-36-0	1	0.150	0.200	ND	ug/L	U
Arsenic UCT	7440-38-2	1	0.100	0.200	0.253	ug/L	
Lead	7439-92-1	1	0.100	0.200	1.24	ug/L	
Vanadium	7440-62-2	1	0.100	0.200	0.437	ug/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Baja Well-1225

25L0498-20 (Water)

Metals and Metallic Compounds

Method: EPA 6010D — Sampled: 12/19/2025 12:10

Instrument: ICP3 Analyst: SH — Analyzed: 01/12/2026 10:01

Sample Preparation: Preparation Method: TWC EPA 3010A — Extract ID: 25L0498-20 B 02

Preparation Batch: BNL0579 — Sample Size: 25 mL

Prepared: 12/26/2025 — Final Volume: 25 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Potassium	7440-09-7	1	0.250	0.500	3.80	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Baja Well-1225

25L0498-20 (Water)

Wet Chemistry

Method: SM 2540 C-11 — Sampled: 12/19/2025 12:10

Instrument: BAL2 Analyst: RAL — Analyzed: 12/24/2025 09:26

Sample Preparation: Preparation Method: No Prep Wet Chem — Extract ID: 25L0498-20

Preparation Batch: BNL0569 — Sample Size: 100 mL

Prepared: 12/24/2025 — Final Volume: 200 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Dissolved Solids		1	10	10	264	mg/L	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BNL0579 - EPA 6010D in Water

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNL0579-BLK1)					Prepared: 26-Dec-2025 Analyzed: 12-Jan-2026 08:19						
Potassium	ND	0.250	0.500	mg/L							U
LCS (BNL0579-BS1)					Prepared: 26-Dec-2025 Analyzed: 12-Jan-2026 08:21						
Potassium	10.3	0.250	0.500	mg/L	10.0		103	80-120			
Duplicate (BNL0579-DUP1)		**Source: 25L0498-12**			Prepared: 26-Dec-2025 Analyzed: 12-Jan-2026 08:40						
Potassium	59.8	0.250	0.500	mg/L		60.6			1.28	20	
Matrix Spike (BNL0579-MS1)		**Source: 25L0498-12**			Prepared: 26-Dec-2025 Analyzed: 12-Jan-2026 08:43						
Potassium	70.3	0.250	0.500	mg/L	10.0	60.6	96.7	75-125			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.											
Matrix Spike Dup (BNL0579-MSD1)		**Source: 25L0498-12**			Prepared: 26-Dec-2025 Analyzed: 12-Jan-2026 07:10						
Potassium	68.3	0.250	0.500	mg/L	10.0	60.6	77.1	75-125	2.82	20	
Recovery limits for target analytes in MS/MSD QC samples are advisory only.											
Matrix Spike Dup (BNL0579-MSD2)		**Source: 25L0498-12**			Prepared: 26-Dec-2025 Analyzed: 12-Jan-2026 10:19						
Potassium	70.0	0.250	0.500	mg/L	10.0	60.6	93.5	75-125	0.45	20	
Recovery limits for target analytes in MS/MSD QC samples are advisory only.											

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BNL0580 - EPA 200.8 in Water

Instrument: ICPMS1 Analyst: HAL

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNL0580-BLK1)					Prepared: 26-Dec-2025 Analyzed: 02-Jan-2026 19:19							
Arsenic UCT	75a UCT	ND	0.100	0.200	ug/L							U
Lead	208	ND	0.100	0.200	ug/L							U
Blank (BNL0580-BLK2)					Prepared: 26-Dec-2025 Analyzed: 05-Jan-2026 21:07							
Antimony	121	ND	0.150	0.200	ug/L							U
Arsenic UCT	75a UCT	ND	0.100	0.200	ug/L							U
Lead	208	ND	0.100	0.200	ug/L							U
Vanadium	51a	ND	0.100	0.200	ug/L							U
LCS (BNL0580-BS1)					Prepared: 26-Dec-2025 Analyzed: 02-Jan-2026 19:24							
Arsenic UCT	75a UCT	25.5	0.100	0.200	ug/L	25.0		102	85-115			
Lead	208	26.5	0.100	0.200	ug/L	25.0		106	85-115			
LCS (BNL0580-BS2)					Prepared: 26-Dec-2025 Analyzed: 05-Jan-2026 21:12							
Antimony	121	25.0	0.150	0.200	ug/L	25.0		99.9	85-115			
Arsenic UCT	75a UCT	25.2	0.100	0.200	ug/L	25.0		101	85-115			
Lead	208	26.8	0.100	0.200	ug/L	25.0		107	85-115			
Vanadium	51a	22.9	0.100	0.200	ug/L	25.0		91.5	85-115			
Duplicate (BNL0580-DUP1)			**Source: 25L0498-12**		Prepared: 26-Dec-2025 Analyzed: 06-Jan-2026 21:14							
Arsenic UCT	75a UCT	3.85	0.100	0.200	ug/L		3.80			1.23	20	
Lead	208	0.125	0.100	0.200	ug/L		0.147			16.20	20	J
Matrix Spike (BNL0580-MS1)			**Source: 25L0498-12**		Prepared: 26-Dec-2025 Analyzed: 06-Jan-2026 21:19							
Arsenic UCT	75a UCT	28.2	0.100	0.200	ug/L	25.0	3.80	97.5	75-125			
Lead	208	23.6	0.100	0.200	ug/L	25.0	0.147	93.8	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Matrix Spike Dup (BNL0580-MSD1)			**Source: 25L0498-12**		Prepared: 26-Dec-2025 Analyzed: 06-Jan-2026 21:24							
Arsenic UCT	75a UCT	28.9	0.100	0.200	ug/L	25.0	3.80	100	75-125	2.40	20	
Lead	208	24.0	0.100	0.200	ug/L	25.0	0.147	95.6	75-125	1.80	20	

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNL0582 - EPA 200.8 in Water

Instrument: ICPMS1 Analyst: HAL

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNL0582-BLK1)					Prepared: 26-Dec-2025 Analyzed: 26-Dec-2025 18:47							
Arsenic UCT, Dissolved	75a UCT	ND	0.100	0.200	ug/L							U
Lead, Dissolved	208	0.145	0.100	0.200	ug/L							J
Blank (BNL0582-BLK2)					Prepared: 26-Dec-2025 Analyzed: 29-Dec-2025 16:54							
Antimony, Dissolved	121	ND	0.150	0.200	ug/L							U
Arsenic UCT, Dissolved	75a UCT	ND	0.100	0.200	ug/L							U
Lead, Dissolved	208	0.152	0.100	0.200	ug/L							J
Vanadium, Dissolved	51a	ND	0.100	0.200	ug/L							U
LCS (BNL0582-BS1)					Prepared: 26-Dec-2025 Analyzed: 26-Dec-2025 18:52							
Arsenic UCT, Dissolved	75a UCT	25.5	0.100	0.200	ug/L	25.0		102	85-115			
Lead, Dissolved	208	23.9	0.100	0.200	ug/L	25.0		95.5	85-115			
LCS (BNL0582-BS2)					Prepared: 26-Dec-2025 Analyzed: 29-Dec-2025 16:59							
Antimony, Dissolved	121	25.3	0.150	0.200	ug/L	25.0		101	85-115			
Arsenic UCT, Dissolved	75a UCT	24.7	0.100	0.200	ug/L	25.0		98.9	85-115			
Lead, Dissolved	208	24.2	0.100	0.200	ug/L	25.0		96.8	85-115			
Vanadium, Dissolved	51a	22.0	0.100	0.200	ug/L	25.0		88.0	85-115			
Duplicate (BNL0582-DUP1)			**Source: 25L0498-11**		Prepared: 26-Dec-2025 Analyzed: 30-Dec-2025 00:41							
Arsenic UCT, Dissolved	75a UCT	3.97	0.100	0.200	ug/L		3.80			4.42	20	
Duplicate (BNL0582-DUP2)			**Source: 25L0498-11RE1**		Prepared: 26-Dec-2025 Analyzed: 30-Dec-2025 21:23							
Lead, Dissolved	208	0.620	0.100	0.200	ug/L		0.618			0.32	20	
Matrix Spike (BNL0582-MS1)			**Source: 25L0498-11**		Prepared: 26-Dec-2025 Analyzed: 30-Dec-2025 00:46							
Arsenic UCT, Dissolved	75a UCT	29.8	0.100	0.200	ug/L	25.0	3.80	104	75-125			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.												
Matrix Spike (BNL0582-MS2)			**Source: 25L0498-11RE1**		Prepared: 26-Dec-2025 Analyzed: 30-Dec-2025 21:28							
Lead, Dissolved	208	24.4	0.100	0.200	ug/L	25.0	0.618	95.3	75-125			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.												
Matrix Spike Dup (BNL0582-MSD1)			**Source: 25L0498-11**		Prepared: 26-Dec-2025 Analyzed: 30-Dec-2025 00:51							
Arsenic UCT, Dissolved	75a UCT	29.6	0.100	0.200	ug/L	25.0	3.80	103	75-125	0.83	20	
Recovery limits for target analytes in MS/MSD QC samples are advisory only.												
Matrix Spike Dup (BNL0582-MSD2)			**Source: 25L0498-11RE1**		Prepared: 26-Dec-2025 Analyzed: 30-Dec-2025 21:32							
Lead, Dissolved	208	23.9	0.100	0.200	ug/L	25.0	0.618	92.9	75-125	2.46	20	
Recovery limits for target analytes in MS/MSD QC samples are advisory only.												

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNL0640 - EPA 6010D in Water

Instrument: ICP3 Analyst: SH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNL0640-BLK1)					Prepared: 30-Dec-2025 Analyzed: 08-Jan-2026 22:40						
Potassium, Dissolved	ND	0.250	0.500	mg/L							U
Blank (BNL0640-BLK2)					Prepared: 30-Dec-2025 Analyzed: 12-Jan-2026 06:59						
Potassium, Dissolved	ND	0.250	0.500	mg/L							U
Blank (BNL0640-BLK3)					Prepared: 30-Dec-2025 Analyzed: 15-Jan-2026 20:54						
Potassium, Dissolved	ND	0.250	0.500	mg/L							U
Blank (BNL0640-BLK4)					Prepared: 30-Dec-2025 Analyzed: 15-Jan-2026 22:35						
Potassium, Dissolved	ND	0.250	0.500	mg/L							U
LCS (BNL0640-BS2)					Prepared: 30-Dec-2025 Analyzed: 08-Jan-2026 23:40						
Potassium, Dissolved	10.1	0.253	0.505	mg/L	10.0		101	80-120			

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNL0544 - SM 2540 C-11 in Water

Instrument: BAL2 Analyst: RAL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNL0544-BLK1)				Prepared: 23-Dec-2025 Analyzed: 23-Dec-2025 11:48							
Dissolved Solids	ND	5	5	mg/L							U
LCS (BNL0544-BS1)				Prepared: 23-Dec-2025 Analyzed: 23-Dec-2025 11:48							
Dissolved Solids	526	10	10	mg/L	500		105	90-110			

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNL0569 - SM 2540 C-11 in Water

Instrument: BAL2 Analyst: RAL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNL0569-BLK1)				Prepared: 24-Dec-2025 Analyzed: 24-Dec-2025 09:26							
Dissolved Solids	ND	5	5	mg/L							U
LCS (BNL0569-BS1)				Prepared: 24-Dec-2025 Analyzed: 24-Dec-2025 09:26							
Dissolved Solids	474	10	10	mg/L	500		94.7	90-110			
Duplicate (BNL0569-DUP1)		**Source: 25L0498-12**		Prepared: 24-Dec-2025 Analyzed: 24-Dec-2025 09:26							
Dissolved Solids	362	10	10	mg/L		322			11.80	20	

WSP USA, Inc.	Project: Ravensdale	
840 HOWE STREET, #1000	Project Number: Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager: Accounts Payable	20-Jan-2026 09:47

Uncertified Analytes included in this Report

Analysis Matrix & Analyte
None

Certified Analyses included in this Report

Analysis Matrix & Analyte	Certification Codes
EPA 200.8 in Water	
Antimony-121	DoD-ELAP,NELAP,WADOE,WA-DW
Arsenic-75a UCT	DoD-ELAP,NELAP,WADOE,WA-DW
Lead-208	DoD-ELAP,NELAP,WADOE,WA-DW
Vanadium-51a	DoD-ELAP,NELAP,WADOE,WA-DW
Antimony-121	DoD-ELAP,NELAP,WADOE
Arsenic-75a UCT	DoD-ELAP,NELAP,WADOE
Lead-208	DoD-ELAP,NELAP,WADOE
Vanadium-51a	DoD-ELAP,NELAP,WADOE
EPA 6010D in Water	
Potassium	DoD-ELAP,NELAP,WADOE
Potassium	DoD-ELAP,NELAP,WADOE
SM 2540 C-11 in Water	
Dissolved Solids	DoD-ELAP,WADOE,NELAP,WA-DW

Certifications

Code	Description	Number	Expires
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	01/31/2026
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-018	05/12/2026
WADOE	WA Dept of Ecology	C558	06/30/2026
WA-DW	Ecology - Drinking Water	C558	06/30/2026

WSP USA, Inc.	Project:	Ravensdale	
840 HOWE STREET, #1000	Project Number:	Ravensdale	**Reported:**
VANCOUVER BRITISH COLUMBIA, V6Z 2M1	Project Manager:	Accounts Payable	20-Jan-2026 09:47

Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
D	The reported value is from a dilution
HC	The natural concentration of the spiked analyte is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
J	Estimated concentration value detected below the reporting limit.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.
!	Indicates that ARL is NOT ACCREDITED for this parameter in samples logged as 'Drinking Water'
#	Indicates that ARL is NOT ACCREDITED for this parameter in this analysis and matrix.

APPENDIX D

Sample Integrity Data Sheets

SAMPLE INTEGRITY DATA SHEET

Plant/Site Ravensdale **Project No.** 152030402

Site Location Ravensdale, WA

Sample ID MW-1A - 1225

Sampling Location Monitoring Well

Technical Procedure Reference(s) Golder, Sampling and Analysis Plan; Quality Assurance Project Plan 2020

Type of Sampler Bladder Pump (dedicated)

Date December 18, 2025 **Time** 10:25

Media Groundwater **Station** MW-1A

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL: Depth to water at 19.13 ft BTOC (December 18, 2025 9:27 AM); Well total depth at 44' BGS

Screen Interval: 28' - 43' BGS

Pump Intake: ~ 39' BGS

Sample Description

Field Measurements on Sample (pH, conductivity, etc.) SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation
1-500 mL	Total Dissolved Solids	HDPE	N/A
1-250 mL	Total Metals	HDPE	HNO3

SAMPLE INTEGRITY DATA SHEET

Well ID MW-1A
Date 12/18/2025
Time Begin Purge 09:28
Time Collect Sample 10:25

Water Level (ft bmp)	Time	pH	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP (rel mV)	Turbidity (NTU)
19.02	09:35	6.69	758	8.8	7.69	210.7	51.2
19.05	09:40	6.58	663	8.9	8.24	216.5	28.1
19.03	09:45	6.53	656	9.1	8.66	220.9	20.7
19.05	09:50	6.54	650	9	8.93	221.7	11.0
19.03	09:55	6.56	649	9	8.99	221.8	11.8
19.03	10:00	6.58	648	9.1	9.02	221.6	9.33
19.05	10:05	6.6	649	9	9.04	221.5	6.71
19.05	10:10	6.62	648	8.9	9.09	221.6	8.68
19.03	10:15	6.63	648	8.9	8.97	221.9	7.09
19.03	10:20	6.64	645	8.9	8.95	222.0	4.39

Comments:

Flow Rate: 300 mL/min

Sampler _____ **Date** December 18, 2025

Supervisor _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Ravensdale **Project No.** 152030402

Site Location Ravensdale, WA

Sample ID MW-2A / MW-45A - 1225

Sampling Location Monitoring Well

Technical Procedure Reference(s) Golder, Sampling and Analysis Plan; Quality Assurance Project Plan 2020

Type of Sampler Bladder Pump (dedicated)

Date December 18, 2025 **Time** 11:35

Media Groundwater **Station** MW-2A

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL: Depth to water at 12.89 ft BTOC (December 18, 2025 10:37 AM); Well total depth at 40' BGS

Screen Interval: 24'- 40' BGS

Pump Intake: ~ 30' BGS

Sample Description

Field Measurements on Sample (pH, conductivity, etc.) SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation
1-250 mL	Total Metals	HDPE	HNO3
1-500 mL	Total Dissolved Solids	HDPE	N/A

SAMPLE INTEGRITY DATA SHEET

Well ID MW-2A / MW-45A
Date 12/18/2025
Time Begin Purge 10:40
Time Collect Sample 11:35

Water Level (ft bmp)	Time	pH	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP (rel mV)	Turbidity (NTU)
12.89	10:45	6.85	611	9.1	9.24	171.5	9.37
12.89	10:50	6.82	607	9.1	8.89	181.8	10.6
12.89	10:55	6.81	606	9.1	8.7	190.2	9.76
12.89	11:00	6.8	607	9.1	8.61	195.4	9.77
12.89	11:05	6.8	606	9.2	8.56	198.9	7.82
12.89	11:10	6.79	606	9.2	8.49	202.1	6.90
12.89	11:15	6.79	606	9.2	8.45	204.2	6.34
12.89	11:20	6.79	607	9.1	8.39	206.0	5.43
12.89	11:25	6.79	606	9.2	8.35	207.1	5.30
12.89	11:30	6.79	605	9.3	8.3	207	4.89

Comments:

Flow Rate: 300 mL/min

Duplicate MW-45A-1225 sampled at 11:40

Sampler _____ **Date** December 18, 2025

Supervisor _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Ravensdale **Project No.** 152030402

Site Location Ravensdale, WA

Sample ID MW-3A - 1225

Sampling Location Monitoring Well

Technical Procedure Reference(s) Golder, Sampling and Analysis Plan; Quality Assurance Project Plan 2020

Type of Sampler Peristaltic Pump

Date December 17, 2025 **Time** 00:40

Media Groundwater **Station** MW-3A

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL: Depth to water at 4.6 ft BTOC (December 17, 2025 11:38 AM); Well total depth at 20' BGS

Screen Interval: 4' - 20' BGS

Pump Intake: ~ 12' BGS

Sample Description

Field Measurements on Sample (pH, conductivity, etc.) SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation
1-500 mL	Total Dissolved Solids	HDPE	N/A
1-500 mL	Total Dissolved Solids	HDPE	N/A

SAMPLE INTEGRITY DATA SHEET

Well ID MW-3A
Date 12/17/2025
Time Begin Purge 11:41
Time Collect Sample 00:40

Water Level (ft bmp)	Time	pH	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP (rel mV)	Turbidity (NTU)
4.72	11:45	6.55	866	9.8	4.37	-1.8	4.69
4.73	11:50	6.58	857	9.8	2.49	13.1	2.49
4.7	11:55	6.6	848	9.8	1.79	22.5	1.72
4.7	12:00	6.48	752	10	1.41	9.4	2.23
4.72	12:05	6.55	621	9.8	1.22	-8 4	1.69
4.72	12:10	6.78	421.3	9.8	1.28	-6.8	1.12
4.72	12:15	6.87	396.5	9.9	1.22	-5.2	0.88
4.72	12:20	6.89	391	9.9	1.18	-5.1	0.87
4.72	12:25	6.9	382.9	9.7	1.13	-5.0	0.96
4.72	12:30	6.91	375.5	9.7	1.11	-4.0	0.98
4.72	12:35	6.91	372.9	9.6	1.08	-3.4	1

Comments:

Flow Rate: 200 mL/min

Sampler _____ **Date** December 17, 2025

Supervisor _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Ravensdale **Project No.** 152030402

Site Location Ravensdale, WA

Sample ID MW-4A - 1225

Sampling Location Monitoring Well

Technical Procedure Reference(s) Golder, Sampling and Analysis Plan; Quality Assurance Project Plan 2020

Type of Sampler Peristaltic Pump

Date December 19, 2025 **Time** 11:10

Media Groundwater **Station** MW-4A

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL: Depth to water at 3.48 ft BTOC (December 19, 2025 10:25 AM); Well total depth at 20' BGS

Screen Interval: 5' - 20' BGS

Pump Intake: ~ 12' BGS

Sample Description

Field Measurements on Sample (pH, conductivity, etc.) SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation
1-250 mL	Total Metals	HDPE	HNO3
1-500 mL	Total Dissolved Solids	HDPE	N/A

SAMPLE INTEGRITY DATA SHEET

Well ID MW-4A
Date 12/19/2025
Time Begin Purge 10:25
Time Collect Sample 11:10

Water Level (ft bmp)	Time	pH	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP (rel mV)	Turbidity (NTU)
3.82	10:30	6.63	653	9.4	5.69	201.8	34.6
4.01	10:35	6.53	623	9.5	3.81	204.7	16.9
13.3	10:40	6.46	608	9.6	3.69	211.8	4.05
4.14	10:45	6.46	601	9.6	3.58	216.1	11.9
4.18	10:50	6.46	560	9.6	3.87	218.1	10.7
4.2	10:55	6.46	530	9.5	4.49	220.9	7.29
4.24	11:00	6.46	515	9.6	5.01	222.3	4.36
4.26	11:03	6.46	509	9.7	5.14	223.0	4.08
4.29	11:06	6.46	508	9.6	5.24	223.9	3.61

Comments:

Flow Rate: 200 mL/min

Sampler _____ **Date** December 19, 2025

Supervisor _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Ravensdale **Project No.** 152030402

Site Location Ravensdale, WA

Sample ID MW-5A - 1225

Sampling Location Monitoring Well

Technical Procedure Reference(s) Golder, Sampling and Analysis Plan; Quality Assurance Project Plan 2020

Type of Sampler Bladder Pump (dedicated)

Date December 18, 2025 **Time** 14:00

Media Groundwater **Station** MW-5A

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL: Depth to water at 16.92 ft BTOC (December 18, 2025 12:34 PM); Well total depth at 40' BGS

Screen Interval: 25'- 40' BGS

Pump Intake: ~ 38' BGS

Sample Description

Field Measurements on Sample (pH, conductivity, etc.) SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation
1-250 mL	Total Metals	HDPE	HNO3
1-500 mL	Total Dissolved Solids	HDPE	N/A

SAMPLE INTEGRITY DATA SHEET

Well ID MW-5A
Date 12/18/2025
Time Begin Purge 12:35
Time Collect Sample 14:00

Water Level (ft bmp)	Time	pH	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP (rel mV)	Turbidity (NTU)
16.92	12:40	7.05	1,978	8.9	5.37	147.5	14.4
16.91	12:45	7.05	1,993	9	3.22	150.6	9.23
16.92	12:50	7.04	1,943	9.1	2.33	152.6	10.6
16.92	12:55	7.03	1,677	9.1	2.7	152.9	12.8
16.92	13:00	7.16	1,060	9.2	4.58	155.8	15.8
16.92	13:05	7.2	963	9.2	5.3	160.3	14.4
16.92	13:10	7.2	943	9.2	5.73	164.7	13.0
16.92	13:15	7.2	931	9.2	6.08	169.3	11.0
16.92	13:20	7.2	925	9.3	6.34	172..5	9.94
16.92	13:25	7.2	920	9.3	6.68	175.4	7.94
16.92	13:30	7.19	919	9.3	6.94	177.9	7.05
16.92	13:35	7.19	918	9.3	7.08	179.9	6.50
16.92	13:40	7.19	914	9.3	7.24	181.7	5.60
16.92	13:45	7.19	912	9.3	7.31	183.2	5.43
16.92	13:50	7.19	913	9.3	7.37	184.6	5.38
16.92	13:55	7.21	909	9.3	7.51	184.6	4.50

Comments:
Flow Rate: 300 mL/min

Sampler _____ **Date** December 18, 2025

Supervisor _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Ravensdale **Project No.** 152030402

Site Location Ravensdale, WA

Sample ID MW-6A - 1225

Sampling Location Monitoring Well

Technical Procedure Reference(s) Golder, Sampling and Analysis Plan; Quality Assurance Project Plan 2020

Type of Sampler Bladder Pump (dedicated)

Date December 18, 2025 **Time** 12:25

Media Groundwater **Station** MW-6A

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL: Depth to water at 14.65 ft BTOC (December 18, 2025 11:48 AM); Well total depth at 39' BGS

Screen Interval: 24'- 39' BGS

Pump Intake: ~ 36' BGS

Sample Description

Field Measurements on Sample (pH, conductivity, etc.) SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation
1-250 mL	Total Metals	HDPE	HNO3
1-500 mL	Total Dissolved Solids	HDPE	N/A

SAMPLE INTEGRITY DATA SHEET

Well ID MW-6A
Date 12/18/2025
Time Begin Purge 11:49
Time Collect Sample 12:25

Water Level (ft bmp)	Time	pH	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP (rel mV)	Turbidity (NTU)
14.68	11:55	7.13	902	9.2	8.42	154.2	9.62
14.68	12:00	7.12	869	9.4	8.02	162.6	6.77
14.68	12:05	7.09	843	9.4	7.83	168.9	6.12
14.68	12:10	7.07	823	9.4	7.67	174.3	6.77
14.68	12:15	7.04	806	9.5	7.53	179.4	5.09
14.68	12:20	7.03	795	9.5	7.48	182.6	4.82

Comments:

Flow Rate: 300 mL/min

Sampler _____ **Date** December 18, 2025

Supervisor _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Ravensdale **Project No.** 152030402

Site Location Ravensdale, WA

Sample ID MW-7A - 1225

Sampling Location Monitoring Well

Technical Procedure Reference(s) Golder, Sampling and Analysis Plan; Quality Assurance Project Plan 2020

Type of Sampler Peristaltic Pump

Date December 31, 2025 **Time** 12:35

Media Groundwater **Station** MW-7A

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL: Depth to water at 1.96 ft BTOC (December 31, 2025 12:08 PM); Well total depth at 20' BGS

Screen Interval: 10' - 20' BGS

Pump Intake: ~ 17' BGS

Sample Description

Field Measurements on Sample (pH, conductivity, etc.) SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation
1-250 mL	Total Metals	HDPE	HNO3
1-1000 mL	Total Dissolved Solids	HDPE	N/A

SAMPLE INTEGRITY DATA SHEET

Well ID MW-7A
Date 12/31/2025
Time Begin Purge 12:08
Time Collect Sample 12:35

Water Level (ft bmp)	Time	pH	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP (rel mV)	Turbidity (NTU)
1.97	12:10	6.92	515	9.9	6.91	117.3	18.3
1.97	12:15	6.92	513	10	4.52	116.1	2.64
1.97	12:20	6.93	512	10	4.38	115.8	2.05
1.97	12:25	6.94	512	10	4.33	117.1	1.38
1.97	12:30	6.94	512	10	4.36	119.5	1.03

Comments:

Flow Rate: 240 mL/min

Sampler _____ **Date** December 31, 2025

Supervisor _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Ravensdale **Project No.** 152030402

Site Location Ravensdale, WA

Sample ID MW-8A - 1225

Sampling Location Monitoring Well

Technical Procedure Reference(s) Golder, Sampling and Analysis Plan; Quality Assurance Project Plan 2020

Type of Sampler Peristaltic Pump

Date December 19, 2025 **Time** 14:10

Media Groundwater **Station** MW-8A

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL: Depth to water at 8 ft BTOC (December 19, 2025 12:24 PM); Well total depth at 26' BGS

Screen Interval: 16' - 26' BGS

Pump Intake: ~ 22' BGS

Sample Description

Field Measurements on Sample (pH, conductivity, etc.) SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation
1-500 mL	Total Dissolved Solids	HDPE	N/A
1-250 mL	Total Metals	HDPE	HNO3

SAMPLE INTEGRITY DATA SHEET

Well ID MW-8A
Date 12/19/2025
Time Begin Purge 12:34
Time Collect Sample 14:10

Water Level (ft bmp)	Time	pH	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP (rel mV)	Turbidity (NTU)
8.02	12:40	6.96	901	9.6	6.96	197.5	181
8.02	12:45	6.97	879	9.7	6.7	202.2	148
8.02	12:50	6.97	870	9.8	6.61	206.4	113
8.02	12:55	6.97	863	9.8	6.59	208.3	92.3
8.02	13:00	6.98	856	9.8	6.54	210.2	70.3
8.02	13:05	6.99	850	9.8	6.54	211.4	52.8
8.02	13:10	7	846	9.8	6.51	211.6	37.7
8.02	13:15	7	842	9.7	6.5	212.5	29.6
8.02	13:20	7	837	9.7	6.5	213.4	25.1
8.03	13:25	7	833	9.7	6.5	214.2	23.9
8.03	13:30	6.95	832	9.8	6.53	216.2	22.0
8.03	13:35	6.96	828	9.7	6.5	215.1	16.0
8.03	13:40	6.96	825	9.8	6.48	214.2	15.6
8.03	13:45	6.98	820	9.8	6.47	211.1	13.3
8.03	13:50	6.99	817	9.8	6.46	210.9	13.0
8.03	13:55	6.95	817	9.9	6.5	214.8	11.1
8.03	14:00	6.97	814	9.8	6.45	214.4	10.8
8.03	14:05	6.96	812	9.9	6.4	215.9	11.8

Comments:

Flow Rate: 200 mL/min

Sampler _____ **Date** December 19, 2025

Supervisor _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Ravensdale **Project No.** 152030402

Site Location Ravensdale, WA

Sample ID MW-9A - 1225

Sampling Location Monitoring Well

Technical Procedure Reference(s) Golder, Sampling and Analysis Plan; Quality Assurance Project Plan 2020

Type of Sampler Peristaltic Pump

Date December 19, 2025 **Time** 11:45

Media Groundwater **Station** MW-9A

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL: Depth to water at 2.6 ft BTOC (December 19, 2025 11:15 AM); Well total depth at 13' BGS

Screen Interval: 8' - 13' BGS

Pump Intake: ~ 10' BGS

Sample Description

Field Measurements on Sample (pH, conductivity, etc.) SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation
1-250 mL	Total Metals	HDPE	HNO3
1-500 mL	Total Dissolved Solids	HDPE	N/A

SAMPLE INTEGRITY DATA SHEET

Well ID MW-9A
Date 12/19/2025
Time Begin Purge 11:16
Time Collect Sample 11:45

Water Level (ft bmp)	Time	pH	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP (rel mV)	Turbidity (NTU)
4.4	11:20	6.94	590	9.2	8.9	221.1	6.78
4.93	11:25	6.92	583	9.1	8.73	222.1	6.03
5.9	11:30	6.9	562	9.2	8.57	223.5	6.04
6.54	11:35	6.89	554	9.1	8.47	224.1	5.27
7.2	11:40	6.88	554	9.2	8.32	224.4	4.81

Comments:

Flow Rate: 100 mL/min

Sampler _____ **Date** December 19, 2025

Supervisor _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Ravensdale **Project No.** 152030402

Site Location Ravensdale, WA

Sample ID MW-10A - 1225

Sampling Location Monitoring Well

Technical Procedure Reference(s) Golder, Sampling and Analysis Plan; Quality Assurance Project Plan 2020

Type of Sampler Peristaltic Pump

Date December 17, 2025 **Time** 13:30

Media Groundwater **Station** MW-10A

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL: Depth to water at 5.63 ft BTOC (December 17, 2025 12:53 PM); Well total depth at 29' BGS

Screen Interval: 9' - 29' BGS

Pump Intake: ~ 25' BGS

Sample Description

Field Measurements on Sample (pH, conductivity, etc.) SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation
1-250 mL	Total Metals	HDPE	HNO3
1-500 mL	Total Dissolved Solids	HDPE	N/A

SAMPLE INTEGRITY DATA SHEET

Well ID MW-10A
Date 12/17/2025
Time Begin Purge 12:54
Time Collect Sample 13:30

Water Level (ft bmp)	Time	pH	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP (rel mV)	Turbidity (NTU)
7.5	13:00	6.73	187.7	9.9	9.35	87.1	1.76
8.27	13:05	6.62	185.4	9.8	9.38	101.4	3.22
9.07	13:10	6.58	184.9	9.8	9.42	111.4	1.63
9.84	13:15	6.56	184.4	9.9	9.44	120	2.97
10.41	13:20	6.55	183.8	9.9	9.54	125.4	3.11
11.23	13:25	6.55	183.4	9.9	9.56	129.5	2.64

Comments:

Flow Rate: 100 mL/min

Sampler _____ **Date** December 17, 2025

Supervisor _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Ravensdale **Project No.** 152030402

Site Location Ravensdale, WA

Sample ID Still Well - 1225

Sampling Location Monitoring Well

Technical Procedure Reference(s) Golder, Sampling and Analysis Plan; Quality Assurance Project Plan 2020

Type of Sampler Peristaltic Pump

Date December 17, 2025 **Time** 14:30

Media Surface Water **Station** Still Well

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL: Depth to water at 0 ft BTOC (December 17, 2025 2:30 PM); Well total depth at N/A

Screen Interval: N/A

Pump Intake: N/A

Sample Description

Field Measurements on Sample (pH, conductivity, etc.) SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation
1-500 mL	Total Dissolved Solids	HDPE	N/A
1-250 mL	Total Metals	HDPE	HNO3

SAMPLE INTEGRITY DATA SHEET

Well ID Still Well
Date 12/17/2025
Time Begin Purge 14:30
Time Collect Sample 14:30

Water Level (ft bmp)	Time	pH	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP (rel mV)	Turbidity (NTU)
0	14:30	11.8	4,617	10.7	7.86	4.9	3.11

Comments:

Flow Rate: _____ mL/min

Sampler _____ **Date** December 17, 2025

Supervisor _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Ravensdale **Project No.** 152030402

Site Location Ravensdale, WA

Sample ID South Pond - 1225

Sampling Location Monitoring Well

Technical Procedure Reference(s) Golder, Sampling and Analysis Plan; Quality Assurance Project Plan 2020

Type of Sampler Peristaltic Pump

Date December 17, 2025 **Time** 13:45

Media Groundwater **Station** South Pond

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL: Depth to water at 0 ft BTOC (December 17, 2025 1:45 PM); Well total depth at N/A

Screen Interval: N/A

Pump Intake: N/A

Sample Description

Field Measurements on Sample (pH, conductivity, etc.) SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation
1-500 mL	Total Dissolved Solids	HDPE	N/A
1-250 mL	Total Metals	HDPE	HNO3

SAMPLE INTEGRITY DATA SHEET

Well ID South Pond
Date 12/17/2025
Time Begin Purge 13:45
Time Collect Sample 13:45

Water Level (ft bmp)	Time	pH	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP (rel mV)	Turbidity (NTU)
	13:45	7.34	530	7.5	9.46	153.7	2.96

Comments:

Flow Rate: _____ mL/min

Sampler _____ **Date** December 17, 2025

Supervisor _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Ravensdale **Project No.** 152030402

Site Location Ravensdale, WA

Sample ID Weir or Constructed Wetlands - 1225

Sampling Location Surface Water Monitoring Point

Technical Procedure Reference(s) Golder, Sampling and Analysis Plan; Quality Assurance Project Plan 2020

Type of Sampler Peristaltic Pump

Date December 17, 2025 **Time** 14:10

Media Surface Water **Station** Weir or Constructed Wetlands

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL: Depth to water at 0 ft BTOC (December 17, 2025 2:10 PM); Well total depth at N/A

Screen Interval: N/A

Pump Intake: N/A

Sample Description

Field Measurements on Sample (pH, conductivity, etc.) SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation
3-250 mL	Total Metals	HDPE	HNO3
3-500 mL	Total Dissolved Solids	HDPE	N/A

SAMPLE INTEGRITY DATA SHEET

Well ID Weir or Constructed Wetlands

Date 12/17/2025

Time Begin Purge 14:10

Time Collect Sample 14:10

Water Level (ft bmp)	Time	pH	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP (rel mV)	Turbidity (NTU)
0	14:10	7.11	519	8.6	9.02	143.4	2.41

Comments:

Flow Rate: _____ mL/min

Sampler _____ **Date** December 17, 2025

Supervisor _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Ravensdale **Project No.** 152030402

Site Location Ravensdale, WA

Sample ID Infiltration Ponds / MW-35A - 1225

Sampling Location Surface Water Monitoring Point

Technical Procedure Reference(s) Golder, Sampling and Analysis Plan; Quality Assurance Project Plan 2020

Type of Sampler Peristaltic Pump

Date December 18, 2025 **Time** 14:10

Media Surface Water **Station** Infiltration Ponds / MW-35A

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL: Depth to water at 0 ft BTOC (December 18, 2025 2:10 PM); Well total depth at N/A

Screen Interval: N/A

Pump Intake: N/A

Sample Description

Field Measurements on Sample (pH, conductivity, etc.) SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation
1-250 mL	Total Metals	HDPE	HNO3
1-250 mL	Dissolved Metals	HDPE	HNO3
1-500 mL	Total Dissolved Solids	HDPE	N/A

SAMPLE INTEGRITY DATA SHEET

Well ID Infiltration Ponds / MW-35A
Date 12/18/2025
Time Begin Purge 14:00
Time Collect Sample 14:10

Water Level (ft bmp)	Time	pH	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP (rel mV)	Turbidity (NTU)
0	14:10	8.23	522	6.6	9.16	182.5	8.64

Comments:

Flow Rate: 500 mL/min

Duplicate MW-35A-1225 taken at 14:15

Sampler _____ **Date** December 18, 2025

Supervisor _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Ravensdale **Project No.** 152030402

Site Location Ravensdale, WA

Sample ID Interceptor Trench - 1225

Sampling Location Monitoring Well

Technical Procedure Reference(s) Golder, Sampling and Analysis Plan; Quality Assurance Project Plan 2020

Type of Sampler Grab

Date December 18, 2025 **Time** 14:50

Media Groundwater **Station** Interceptor Trench

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL: Depth to water at 0 ft BTOC (December 18, 2025 2:47 PM); Well total depth at N/A

Screen Interval: N/A

Pump Intake: N/A

Sample Description

Field Measurements on Sample (pH, conductivity, etc.) SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation
1-500 mL	Total Dissolved Solids	HDPE	N/A

SAMPLE INTEGRITY DATA SHEET

Well ID Interceptor Trench
Date 12/18/2025
Time Begin Purge 14:50
Time Collect Sample 14:50

Water Level (ft bmp)	Time	pH	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP (rel mV)	Turbidity (NTU)
	14:50	6.98	506	10.4	9.28	68.4	20.3

Comments:

Flow Rate: 20000 mL/min

Sampler _____ **Date** December 18, 2025

Supervisor _____ **Date** _____

SAMPLE INTEGRITY DATA SHEET

Plant/Site Ravensdale **Project No.** 152030402

Site Location Ravensdale, WA

Sample ID Baja Well - 1225

Sampling Location Monitoring Well

Technical Procedure Reference(s) Golder, Sampling and Analysis Plan; Quality Assurance Project Plan 2020

Type of Sampler Grab

Date December 19, 2025 **Time** 12:10

Media Groundwater **Station** Baja Well

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

SWL: Depth to water at ft BTOC (December 19, 2025 12:10 PM); Well total depth at

Screen Interval:

Pump Intake:

Sample Description

Field Measurements on Sample (pH, conductivity, etc.) SEE FIELD PARAMETERS SHEET

Aliquot Amount	Analysis	Container	Preservation
1-250 mL	Total Metals	HDPE	HNO3
1-500 mL	Total Dissolved Solids	HDPE	N/A

SAMPLE INTEGRITY DATA SHEET

Well ID Baja Well
Date 12/19/2025
Time Begin Purge 12:10
Time Collect Sample 12:10

Water Level (ft bmp)	Time	pH	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP (rel mV)	Turbidity (NTU)
	12:10	6.66	581	8.8	9.36	182.6	4.60

Comments:

Flow Rate: _____ mL/min

Sampler _____ **Date** December 19, 2025

Supervisor _____ **Date** _____

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