



## REPORT

# QUARTERLY MONITORING REPORT SECOND QUARTER 2025 RESERVE SILICA RECLAMATION SITE

*Ecology Facility Site No. 2041/Cleanup Site No 4728  
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Ravensdale, Washington 98051*

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31406578.8318-001-RPT-0

August 29, 2025

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## 1.0 INTRODUCTION

This report, prepared by WSP USA Inc. (WSP) for Holcim (US) Inc. (Holcim), presents the results of surface water and groundwater monitoring conducted at the Reserve Silica Reclamation Site (Site) during the second quarter of 2025. On June 20, 2025, Holcim changed its name to Amrize Cement Inc. (Amrize). The Site is located at 26000 Black Diamond Ravensdale Road in Ravensdale, Washington. Figure 1 shows the Site location.

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. An RI Work Plan (Work Plan), supporting Sampling and Analysis Plan (SAP), and Quality Assurance Project Plan (QAPP) (Golder 2021) describe the RI monitoring requirements and sampling procedures. Groundwater and surface water monitoring at the Site is currently being conducted in accordance with the 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 second quarter monitoring event was conducted in June 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 water 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 an 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 (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 (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 report (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<sub>2</sub>) 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 shut-downs 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 CDK 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 is to assess the groundwater and surface water conditions with respect to potential impact from the CKD placed in the LDA and the DSP. Prior to the start of the RI, quarterly monitoring and reporting activities were conducted under requirements of Post-Closure Care and Maintenance Permits issued by Public Health. The current RI groundwater and surface water requirements are detailed within the 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 background well, is located south of, 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.

As part of the RI, during September 2021, the following groundwater monitoring wells were also installed to evaluate groundwater quality in and downgradient of the LDA:

- 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 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 Work Plan, field

parameters are monitored in the LDA bedrock monitoring wells semi-annually, and the wells are sampled annually. Therefore, the LDA bedrock monitoring wells were not included in the second quarter 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. In accordance with the Work Plan, field parameters are monitored in the DSP bedrock monitoring wells semi-annually, and the wells are sampled annually. There are two additional monitoring wells (MWB-2DSP and MWB-4SDSP) near the DSP area that are monitored semi-annually for water levels and field parameters only. Therefore, the DSP monitoring wells were not included in the second quarter 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; it is filled with gravel with a perforated drainage pipe in 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 Water Level and Field Parameter Measurements

Depth to water measurements were collected from all monitoring wells at the Site during the period of June 9 to 11, 2025. Table 1 presents depth to water measurements and elevations. Groundwater elevation contour map is 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, Inc. (ARI) 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

During the period of June 9 to 11, 2025, 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).

The following methods and procedures were used to collect groundwater samples:

- Depth to groundwater was measured in the wells prior to purging and sampling.
- Using a dedicated bladder pump or dedicated tubing connected to a peristaltic pump (if groundwater elevation allowed), water from 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.
- Field parameters of pH, conductivity, temperature, DO, ORP, and turbidity were measured and recorded during purging at approximately five-minute intervals until parameters were stable.
- Once the field parameters stabilized, the purging phase of the process was concluded. Groundwater samples were then collected directly from the dedicated sample tubing.
- Grab water sample was collected from the Still Well using dedicated sample tubing connected to a peristaltic pump. Field parameters of pH, conductivity, temperature, DO, ORP, and turbidity were measured and recorded at the time of sample collection.
- For quality control purposes, a duplicate sample was collected from MW-2A (labeled as MW-45A).
- Laboratory-provided containers were used to collect the samples. For each groundwater sample, one 500-mL bottle preserved with nitric acid and one 1-Liter (L) unpreserved bottle were collected. The samples were then labeled and placed in a cooler with ice.

- The pH of the water 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

On June 9, 2025, the South Pond and Weir surface water monitoring locations were dry, and no samples could be collected. On June 11, 2025, WSP collected a sample from the Infiltration Ponds surface water monitoring location. The following methods and procedures were used to collect surface water samples:

- Field parameters of 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.
- For quality control purposes, a duplicate sample was collected from the Infiltration Ponds (labeled as MW-35A).
- Laboratory-provided containers were used to collect the surface water samples. For each surface water sample, one 500-mL bottle preserved with nitric acid and one unpreserved 1-L bottle were collected. 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

On June 9, 2025, WSP sampled groundwater from the Interceptor Trench outfall. 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 water samples were collected from the Interceptor Trench by placing the sample bottles under the flow of 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 June 2025 monitoring round are presented in Table 2. Table 3 presents the current and historical summary of the Interceptor Trench monitoring data. Historical summary tables of analytical results at each sampling location are provided in Appendix A and concentrations trend graphs for key parameters are provided in Appendix B. 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 A. The data validation review found that all the data was considered valid and usable, with a few exceptions or notes detailed in the data validation report. 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 all RI data to complete the evaluations and requirements of the RI/FS.

## 6.0 OPERATIONS AND MAINTENANCE OF THE LEACHATE TREATMENT SYSTEM

The leachate 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 State Waste Discharge Permit in the summer of 2025.

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 carbon dioxide (CO<sub>2</sub>) sparge unit, which continuously monitors the water pH and activates CO<sub>2</sub> sparging when the water pH exceeds 8.5. CO<sub>2</sub> 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<sub>2</sub> 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, prior to discharge of the water to the Infiltration Ponds.

The continuous pH monitoring system is connected to telemetry that sends pH readings and alerts to WSP engineer's 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 2025 second quarter 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.

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## Tables

**Table 1: Second 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              | 6/11/2025     | 44                          | 28-43                        | 2-26                      | 2                        | 613.44                      | 34.45                      | 578.99                              |
|                           | MW-2A              | 6/11/2025     | 40                          | 25-40                        | 2-23                      | 2                        | 607.21                      | 28.34                      | 578.87                              |
|                           | MW-3A              | 6/9/2025      | 20                          | 4-20                         | 2-4                       | 2                        | 689.11                      | 7.55                       | 681.56                              |
|                           | MW-4A              | 6/9/2025      | 20                          | 5-20                         | 2-4                       | 2                        | 705.45                      | 6.24                       | 699.21                              |
|                           | MW-5A              | 6/11/2025     | 40                          | 25-40                        | 2-23                      | 2                        | 611.23                      | 32.35                      | 578.88                              |
|                           | MW-6A              | 6/11/2025     | 39                          | 24-39                        | 2-22                      | 2                        | 608.95                      | 30.06                      | 578.89                              |
|                           | MW-7A              | 6/10/2025     | 20                          | 10-20                        | 2-7                       | 2                        | 592.69                      | 14.10                      | 578.59                              |
|                           | MW-8A              | 6/10/2025     | 26                          | 16-26                        | 2-13                      | 2                        | 601.49                      | 23.52                      | 577.97                              |
|                           | MW-9A              | 6/9/2025      | 13                          | 8-13                         | 2-5                       | 2                        | 697.29                      | 4.37                       | 692.92                              |
|                           | MW-10A             | 6/9/2025      | 29                          | 9-29                         | 2-6                       | 2                        | 698.02                      | 9.25                       | 688.77                              |

## Notes:

feet bgs

Feet below ground surface

feet NAVD88

Feet in NAVD88 datum

TOC

Top of casing

Table 2: Second 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 |
| Preliminary Cleanup Level <sup>a</sup> |                                       |              | -                           | -                           | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 5.6             | 8              | -                | 2.5         | 80              |
| LDA - Shallow Groundwater              | MW-1A                                 | 6/11/2025    | 613.44                      | 34.45                       | 578.99                              | 9.7              | 695.0                   | 8.28                    | 114.3                                  | 0.75            | 6.71                | 374                           | 0.775 J         | 1.16           | 14800            | 0.5 U       | 0.805 J         |
|                                        | MW-2A                                 | 6/11/2025    | 607.21                      | 28.34                       | 578.87                              | 9.6              | 632.0                   | 7.72                    | 122.5                                  | 1.55            | 6.79                | 353                           | 0.84 J          | 1.08           | 20900            | 0.5 U       | 0.895 J         |
|                                        | MW-2A Duplicate (MW-45A)              | 6/11/2025    | -                           | -                           | -                                   | -                | -                       | -                       | -                                      | -               | -                   | 317                           | 0.885 J         | 1.08           | 21700            | 0.5 U       | 0.79 J          |
|                                        | MW-3A                                 | 6/9/2025     | 689.11                      | 7.55                        | 681.56                              | 12.7             | 1015.0                  | 0.37                    | -61.2                                  | 2.80            | 7.18                | 631                           | 2.75            | 12.8           | 101000           | 1.00 U      | 0.745 J         |
|                                        | MW-4A                                 | 6/9/2025     | 705.45                      | 6.24                        | 699.21                              | 13.4             | 505.0                   | 0.63                    | 79.4                                   | 2.62            | 6.52                | 270                           | 0.75 U          | 0.5 U          | 831              | 0.5 U       | 0.58 J          |
|                                        | MW-5A                                 | 6/11/2025    | 611.23                      | 32.35                       | 578.88                              | 10.1             | 1229.0                  | 5.80                    | 91.2                                   | 0.27            | 7.31                | 727                           | 3.22            | 2.01           | 203000           | 0.5 U       | 0.985 J         |
|                                        | MW-6A                                 | 6/11/2025    | 608.95                      | 30.06                       | 578.89                              | 9.5              | 1203.0                  | 6.80                    | 92.0                                   | 0.84            | 7.50                | 731                           | 3.59            | 1.42           | 245000           | 0.5 U       | 0.62 J          |
|                                        | MW-7A                                 | 6/10/2025    | 592.69                      | 14.10                       | 578.59                              | 12.0             | 755.0                   | 1.38                    | 79.8                                   | 1.98            | 6.95                | 401                           | 0.95 J          | 1.64           | 39600            | 0.5 U       | 1.09            |
|                                        | MW-8A                                 | 6/10/2025    | 601.49                      | 23.52                       | 577.97                              | 10.6             | 940.0                   | 2.50                    | 51.7                                   | 1.11            | 7.21                | 487                           | 3.11            | 4.55           | 116000           | 0.5 U       | 2.57            |
|                                        | MW-9A                                 | 6/9/2025     | 697.29                      | 4.37                        | 692.92                              | 13.0             | 558.0                   | 1.73                    | 90.8                                   | 0.82            | 6.96                | 318                           | 0.75 U          | 0.5 U          | 2280             | 1.76        | 0.74 J          |
|                                        | MW-10A                                | 6/9/2025     | 698.02                      | 9.25                        | 688.77                              | 13.2             | 176.0                   | 8.27                    | 106.7                                  | 1.91            | 6.88                | 107                           | 0.75 U          | 0.5 U          | 758              | 0.5 U       | 0.71 J          |
| LDA- Surface Water                     | Still Well                            | 6/11/2025    | -                           | -                           | -                                   | 16.1             | 7004.0                  | 0.91                    | -124.0                                 | 4.67            | 12.54               | 1450                          | 23.2            | 42.7           | 408000           | 1.00 U      | 2.49            |
|                                        | South Pond                            | 6/9/2025     | DRY                         | DRY                         | DRY                                 | DRY              | DRY                     | DRY                     | DRY                                    | DRY             | DRY                 | DRY                           | DRY             | DRY            | DRY              | DRY         | DRY             |
|                                        | Weir                                  | 6/9/2025     | DRY                         | DRY                         | DRY                                 | DRY              | DRY                     | DRY                     | DRY                                    | DRY             | DRY                 | DRY                           | DRY             | DRY            | DRY              | DRY         | DRY             |
|                                        | Infiltration Ponds                    | 6/11/2025    | -                           | -                           | -                                   | 19.9             | 3272.0                  | 7.09                    | 61.1                                   | 3.75            | 8.24                | 2080                          | 8.50            | 13.9           | 790000           | 1.00 U      | 0.70 J          |
|                                        | Infiltration Ponds Duplicate (MW-35A) | 6/11/2025    | -                           | -                           | -                                   | -                | -                       | -                       | -                                      | -               | -                   | 2090                          | 8.14            | 13.3           | 735000           | 1.00 U      | 0.675 J         |

## Notes:

- Orange shaded values indicate parameter results above the Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.
- 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 Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022
- 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 <sup>1</sup> | 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                           |

## 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: Second Quarter 2025 Treatment System Metals Monitoring

| Sample Location                           | Sample ID     | Date Sampled | pH<br>(standard units) | Total<br>Antimony<br>(ug/L) | Dissolved<br>Antimony<br>(ug/L) | Total<br>Arsenic<br>(ug/L) | Dissolved<br>Arsenic<br>(ug/L) | Total<br>Lead<br>(ug/L) | Dissolved<br>Lead<br>(ug/L) | Total<br>Vanadium<br>(ug/L) | Dissolved<br>Vanadium<br>(ug/L) |
|-------------------------------------------|---------------|--------------|------------------------|-----------------------------|---------------------------------|----------------------------|--------------------------------|-------------------------|-----------------------------|-----------------------------|---------------------------------|
| pH Tank Influent                          | Tank-Influent | 11-Jun-25    | 12.72                  | 14.1                        | 14.9                            | 10.1                       | 3.57                           | 104                     | 92.9                        | 0.898                       | 0.770 J                         |
| pH Tank Effluent/Filter<br>Media Influent | Sand-Effluent | 11-Jun-25    | 6.97                   | 12.6                        | 14.1                            | 13.4                       | 13.8                           | 28.7                    | 3.49                        | 0.824                       | 0.855 J                         |
| Filter Media Effluent                     | As-Effluent   | 11-Jun-25    | 7.19                   | 13.7                        | 13.3                            | 15.0                       | 13.4                           | 119                     | 3.03                        | 0.866                       | 0.830 J                         |

Notes:

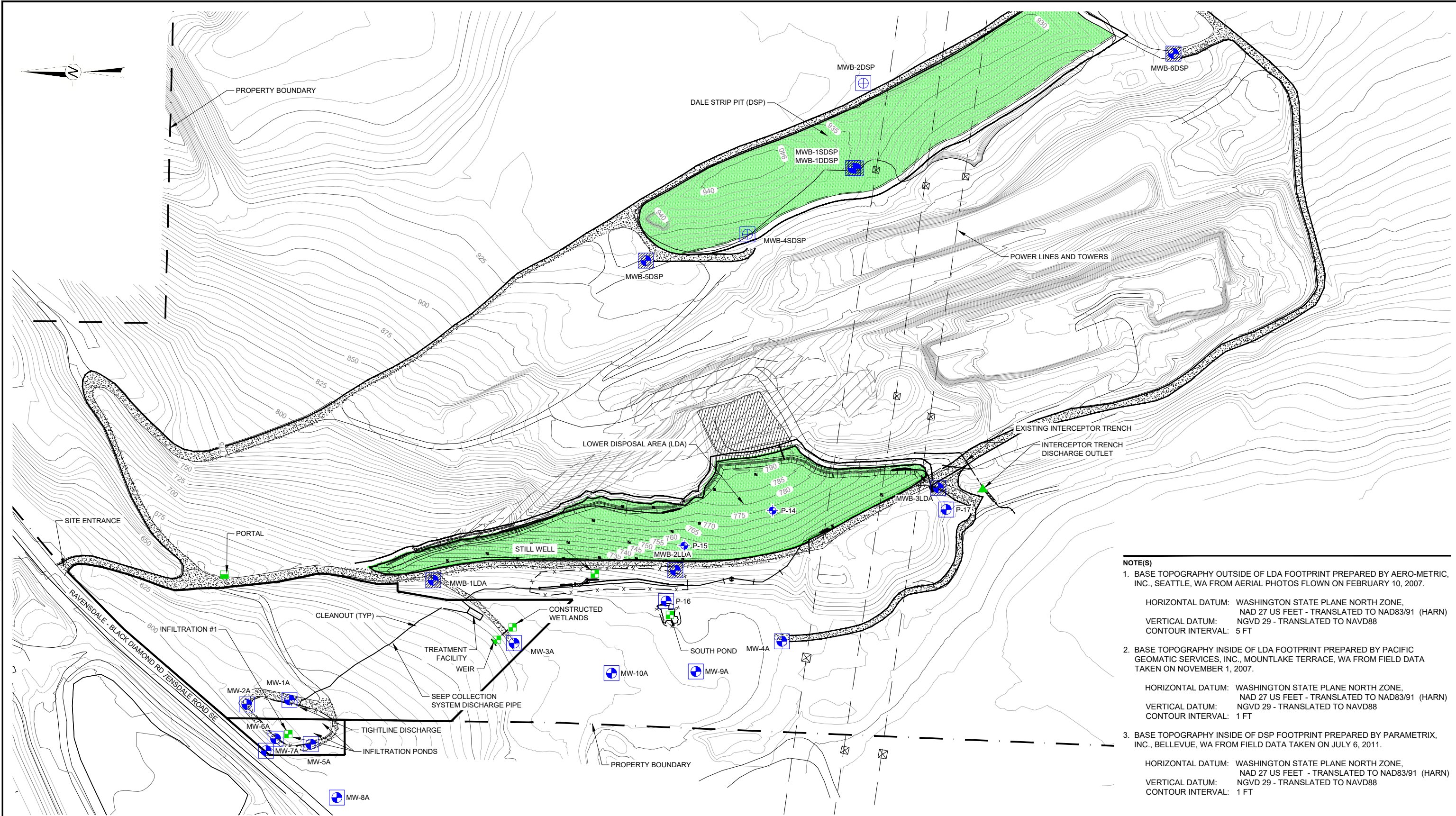
J Estimated concentration value detected below the reporting limit.  
ug/L Micrograms per liter



## Figures



Path: \\wsp-pblan-net\US-CentralData\USX-C300\geomatics\HQ-CIM\Ravensdale09\_PROJECTS\31406578\8318\_RV000\_Quarterly\02\_PRODUCT\TOWN\DWG - File Name: 31406578\8318\_RV000\_Quarterly\02\_PRODUCT\TOWN\DWG - Date: 2025-08-06 Time: 3:28:57 PM - Last Edited By: user700741 Date: 2025-08-06 Time: 3:28:57 PM - Printed By: user700741 Date: 2025-08-06 Time: 3:46:43 PM



**NOTE(S)**

1. BASE TOPOGRAPHY OUTSIDE OF LDA FOOTPRINT PREPARED BY AERO-METRIC, INC., SEATTLE, WA FROM AERIAL PHOTOS FLOWN ON FEBRUARY 10, 2007.

HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 27 US FEET - TRANSLATED TO NAD83/91 (HARN)  
VERTICAL DATUM: NGVD 29 - TRANSLATED TO NAVD88  
CONTOUR INTERVAL: 5 FT

2. BASE TOPOGRAPHY INSIDE OF LDA FOOTPRINT PREPARED BY PACIFIC GEOMATIC SERVICES, INC., MOUNTLAKE TERRACE, WA FROM FIELD DATA TAKEN ON NOVEMBER 1, 2007.

HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 27 US FEET - TRANSLATED TO NAD83/91 (HARN)  
VERTICAL DATUM: NGVD 29 - TRANSLATED TO NAVD88  
CONTOUR INTERVAL: 1 FT

3. BASE TOPOGRAPHY INSIDE OF DSP FOOTPRINT PREPARED BY PARAMETRIX, INC., BELLEVUE, WA FROM FIELD DATA TAKEN ON JULY 6, 2011.

HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 27 US FEET - TRANSLATED TO NAD83/91 (HARN)  
VERTICAL DATUM: NGVD 29 - TRANSLATED TO NAVD88  
CONTOUR INTERVAL: 1 FT

| LEGEND |                                           |  |                                        |
|--------|-------------------------------------------|--|----------------------------------------|
|        | COVER AREA                                |  | LDA SURFACE WATER SAMPLING LOCATION    |
|        | MW-1A SHALLOW MONITORING WELL             |  | DSP BEDROCK SAMPLING LOCATION (PORTAL) |
|        | MWB-1DDSP BEDROCK MONITORING WELL         |  | INTERCEPTOR TRENCH SAMPLING LOCATION   |
|        | MWB-2DSP BEDROCK MONITORING WELL (NOTE 4) |  | FENCE LINE                             |
|        | DISPOSAL AREA MONITORING WELL             |  |                                        |



CLIENT  
AMRIZE

CONSULTANT



|            |            |
|------------|------------|
| YYYY-MM-DD | 2025-08-06 |
| DESIGNED   | JR         |
| PREPARED   | TR         |
| REVIEWED   | DE         |
| APPROVED   | GZ         |

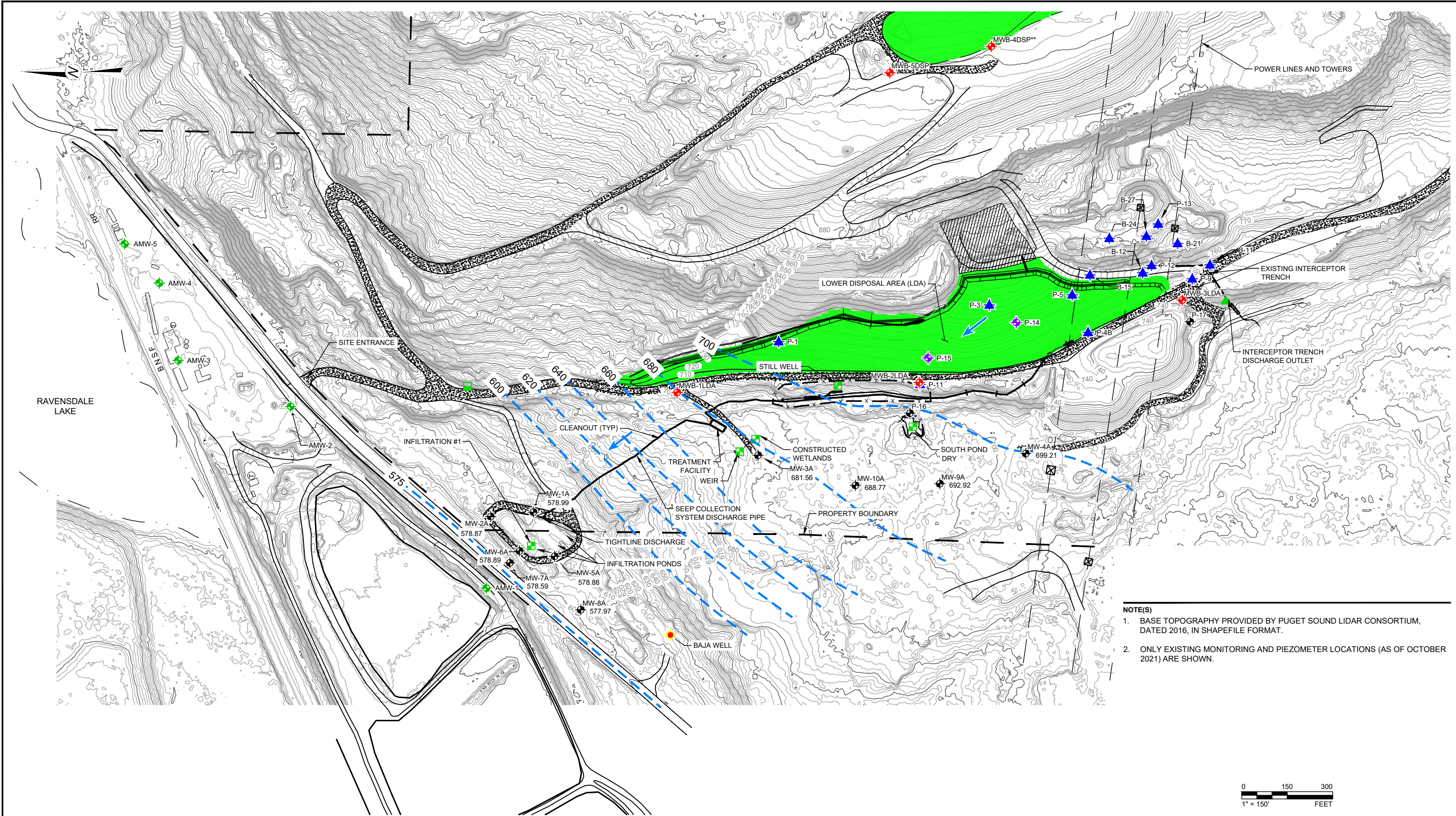
PROJECT  
JUNE 2025 GROUNDWATER MONITORING  
RAVENSDALE, WA

TITLE  
SITE PLAN

|               |      |      |        |
|---------------|------|------|--------|
| PROJECT NO.   | TASK | REV. | FIGURE |
| 31406578.8318 | 300  | A    | 2      |

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A3.5 D

Path: \\vorp.plaban.net\USCentralData\USX\CD\00\geomatics\HOC\MapRavensdale09\_PROJECTS\31406578.8318\_RV\000\_Quarterly\02\_PRODUCT\00\DWG01 File Name: 31406578.8318\_RV\000\_Quarterly\02\_PRODUCT\00\DWG01 Date: 2025-08-06 Time: 3:44:48 PM | Printed By: user700741 Date: 2025-08-06 Time: 3:45:59 PM



- NOTE(S)
1. BASE TOPOGRAPHY PROVIDED BY PUGET SOUND LIDAR CONSORTIUM, DATED 2016, IN SHAPEFILE FORMAT.
  2. ONLY EXISTING MONITORING AND PIEZOMETER LOCATIONS (AS OF OCTOBER 2021) ARE SHOWN.



| LEGEND |                                       |  |                                        |
|--------|---------------------------------------|--|----------------------------------------|
|        | COVER AREA                            |  | P-1                                    |
|        | MW-1A                                 |  | GOLDER PIEZOMETER                      |
|        | MWB-1DDSP                             |  | LDA SURFACE WATER SAMPLING LOCATION    |
|        | P-14                                  |  | DSP BEDROCK SAMPLING LOCATION (PORTAL) |
|        | AMW-1                                 |  | INTERCEPTOR TRENCH SAMPLING LOCATION   |
|        | FENCE LINE                            |  | PRIVATE WELL                           |
|        | CONCEPTUAL GROUNDWATER FLOW DIRECTION |  |                                        |

CLIENT  
AMRIZE

CONSULTANT



|            |            |
|------------|------------|
| YYYY-MM-DD | 2025-08-06 |
| DESIGNED   | JR         |
| PREPARED   | TR         |
| REVIEWED   | DE         |
| APPROVED   | GZ         |

PROJECT  
JUNE 2025 GROUNDWATER MONITORING  
RAVENSDALE, WA

TITLE  
**SHALLOW GROUNDWATER ELEVATIONS**

|               |      |      |        |
|---------------|------|------|--------|
| PROJECT NO.   | TASK | REV. | FIGURE |
| 31406578.8318 | 300  | A    | 3      |

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

**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 Infiltration Ponds

Table A-1B Weir

Table A-1C South Pond

**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 <sup>2</sup> | Arsenic | Lead <sup>2</sup> | Potassium | Vanadium |
| Preliminary Cleanup Level <sup>c</sup> | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 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 <sup>a</sup>                 | 23.56            | 1276                    | -                       | -                                      | 94.40           | 9.30                | 1100                          | -                     | 92.5    | 4.14              | -         | -        |
| 15-Jul-05 <sup>b</sup>                 | -                | -                       | -                       | -                                      | -               | -                   | 874                           | -                     | 99.9    | 3.82              | -         | -        |
| 9-Aug-05 <sup>a</sup>                  | 19.05            | 1744                    | -                       | -                                      | 57.20           | 9.44                | 1000                          | -                     | 123     | 5.1               | -         | -        |
| 9-Aug-05 <sup>b</sup>                  | -                | -                       | -                       | -                                      | -               | -                   | 1030                          | -                     | 140     | 6.12              | -         | -        |
| 14-Sept-05 <sup>a</sup>                | 13.59            | 1154                    | -                       | -                                      | 99.80           | 8.97                | 790                           | -                     | 110     | 3.54              | -         | -        |
| 14-Sept-05 <sup>b</sup>                | -                | -                       | -                       | -                                      | -               | -                   | 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    | -        |
| 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    | -        |

**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 <sup>2</sup> | Arsenic | Lead <sup>2</sup> | Potassium | Vanadium |
| Preliminary Cleanup Level <sup>c</sup> | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 5.6                   | 8       | 2.5               | -         | 80       |
| 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 <sup>d</sup>                  | -                | -                       | -                       | -                                      | -               | -                   | 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  |
| 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    |

**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 <sup>2</sup> | Arsenic | Lead <sup>2</sup> | Potassium | Vanadium |
| Preliminary Cleanup Level <sup>c</sup> | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 5.6                   | 8       | 2.5               | -         | 80       |
| 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   |

**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.

2. Value was corrected from the Q1 2025 report which was reported as dissolved concentration.

- Not analyzed or not available

Orange shaded values indicate parameter results above the Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

a North Creek Analytical, Inc.

b Severn Trent Laboratories

c Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

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<br>Total Dissolved Solids (mg/L) | 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) |                                           | Antimony      | Arsenic | Lead | Potassium | Vanadium |
| Preliminary Cleanup Level <sup>c</sup> | -                | -                       | -                       | -                                  | -               | 6.5-8.5             | -                    | -                                         | 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 <sup>a</sup>                 | 20.38            | 3184                    | -                       | -                                  | 8.91            | 10.36               | 0.94                 | 3200                                      | -             | 192     | 9.98 | -         | -        |
| 15-Jul-05 <sup>b</sup>                 | -                | -                       | -                       | -                                  | -               | -                   | -                    | 1990                                      | -             | 189     | 10.8 | -         | -        |
| 9-Aug-05 <sup>a</sup>                  | DRY              | DRY                     | DRY                     | DRY                                | DRY             | DRY                 | DRY                  | DRY                                       | -             | DRY     | DRY  | -         | -        |
| 9-Aug-05 <sup>b</sup>                  | DRY              | DRY                     | DRY                     | DRY                                | DRY             | DRY                 | DRY                  | DRY                                       | -             | DRY     | DRY  | -         | -        |
| 14-Sept-05 <sup>a</sup>                | 15.60            | 3792                    | -                       | -                                  | 14.50           | 9.92                | 0.07                 | 2800                                      | -             | 208     | 57.8 | -         | -        |
| 14-Sept-05 <sup>b</sup>                | -                | -                       | -                       | -                                  | -               | -                   | -                    | 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<br>Total Dissolved Solids (mg/L) | 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) |                                           | Antimony      | Arsenic | Lead     | Potassium | Vanadium |
| Preliminary Cleanup Level <sup>c</sup> | -                | -                       | -                       | -                                  | -               | 6.5-8.5             | -                    | -                                         | 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       | -        |
| 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       | -        |
| 12-Sep-22                              | 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       | -        |
| 7-Sep-23                               | 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       | -        |

**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 |
| Preliminary Cleanup Level <sup>c</sup> | -                | -                       | -                       | -                                  | -               | 6.5-8.5             | -                    | -                             | 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      |

**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 Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.
- a North Creek Analytical, Inc.
- b Severn Trent Laboratories
- c Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022
- 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 |
| Preliminary Cleanup Level <sup>c</sup> | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 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 <sup>a</sup>                 | 18.34            | 6937                    | -                       | -                                      | 6.89            | 11.69               | 5000                          | -             | 281     | 31.8 | -         | -        |
| 15-Jul-05 <sup>b</sup>                 | -                | -                       | -                       | -                                      | -               | -                   | 4260                          | -             | 237     | 34.2 | -         | -        |
| 9-Aug-05 <sup>a</sup>                  | 23.53            | 7654                    | -                       | -                                      | 17.1            | 10.26               | 6600                          | -             | 322     | 44.5 | -         | -        |
| 9-Aug-05 <sup>b</sup>                  | -                | -                       | -                       | -                                      | -               | -                   | 5580                          | -             | 340     | 37.1 | -         | -        |
| 14-Sept-05 <sup>a</sup>                | 18.55            | 6730                    | -                       | -                                      | 10.00           | 10.51               | 5100                          | -             | 235     | 19.3 | -         | -        |
| 14-Sept-05 <sup>b</sup>                | -                | -                       | -                       | -                                      | -               | -                   | 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    | -        |
| 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    | -        |

**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 |
| Preliminary Cleanup Level <sup>c</sup> | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 5.6           | 8       | 2.5     | -         | 80       |
| 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     |
| 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     |

**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 |
| Preliminary Cleanup Level <sup>c</sup> | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 5.6           | 8       | 2.5  | -         | 80       |
| 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      |

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 Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

+ 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 Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

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 WELL MW1A

TABLE A-2B WELL MW2A

TABLE A-2C WELL MW3A

TABLE A-2D WELL MW4A

TABLE A-2E WELL MW5A

TABLE A-2F WELL MW6A

TABLE A-2G WELL MW7A

TABLE A-2H WELL MW8A

TABLE A-2I WELL MW9A

TABLE A-2J WELL MW10A

TABLE A-2K STILL WELL

**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 |
| Preliminary Cleanup Level <sup>a</sup> | -                                | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 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     | -        |
| 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     | -        |

**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 |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 5.6           | 8       | 2.5      | -         | 80       |
| 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  |

## 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 Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

a Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

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 (umhos/cm) | Dissolved Oxygen (mg/L) | Oxidation-Reduction Potential (Rel mV) | Turbidity (NTU) | pH (standard units) |            | Total Dissolved Solids (mg/L) | Antimony | Arsenic | Lead  | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                                | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -          | 5.6                           | 8        | 2.5     | -     | 80        |
| 15-Jul-05                              | 29.18                            | 578.03                              | 13.78            | 853                     | -                       | -                                      | 28.3            | 7.7                 | 606        | -                             | -        | 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 | -         |
| 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 | -         |

**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 |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 5.6           | 8       | 2.5      | -         | 80       |
| 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  |

## 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 Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

\* Dissolved Oxygen meter working incorrectly at the time of sample collection

a Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

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 |      |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 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    | -        |      |
| 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    | 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 |

**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 |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -          | 5.6                           | 8        | 2.5      | -      | 80        |
| 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     |

## 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 Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

a Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

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 |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 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       | -        |
| 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       | -        |

**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 |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -          | 5.6                           | 8        | 2.5      | -     | 80        |
| 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    |

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 Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

a Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

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 |
| Preliminary Cleanup Level <sup>a</sup> | -                                | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 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    | -        |
| 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  | 863000 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    | -        |

**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 |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                     | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 5.6           | 8       | 2.5      | -         | 80       |
| 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  |

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 Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL. |
| DRY         | Well went dry during sampling. Unable to collect sample.                                                                                           |
| a           | Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022                                                                                  |
| 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 (umhos/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 |
| Preliminary Cleanup Level <sup>a</sup> | -                                | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -          | 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 |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 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   |

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 Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

a Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

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 |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 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                              | 12               | 755                     | 1.38                    | 79.8                                   | 1.98            | 6.95                | 401                           | 0.95 J        | 1.64    | 0.5 U    | 39600     | 1.09     |
| 27-Mar-25                              | 10.61                      | 582.08                              | 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                              | 10.61                      | 582.08                              | 12               | 755                     | 1.38                    | 79.8                                   | 1.98            | 6.95                | 401                           | 0.95 J        | 1.64    | 0.5 U    | 39600     | 1.09     |

## 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 Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

<sup>a</sup> Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

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 |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 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                              | 23.52                      | 577.97                              | 10.6             | 940                     | 2.50                    | 51.70                                  | 1.11            | 7.21                | 487                           | 3.11          | 4.55    | 0.5 U   | 116000    | 2.57     |
| 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     |

## 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 Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

<sup>a</sup> Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

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 |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                     | -                       | -                       | -                                      | -               | 6.5-8.5             | -          | 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                              | 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    |
| 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    |

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 Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

a Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

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 |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -          | 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    |

## 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 Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

a Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

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 |
| Preliminary Cleanup Level <sup>c</sup> | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 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 <sup>a</sup>                 | 18.21            | 11331                   | -                       | -                                      | 14.8            | 12.5                | 3800                          | -             | 2.72    | 6.07   | -         | -        |
| 15-Jul-05 <sup>b</sup>                 | -                | -                       | -                       | -                                      | -               | -                   | 2540                          | -             | 39.8    | 7.57   | -         | -        |
| 9-Aug-05 <sup>a</sup>                  | 21.45            | 12087                   | -                       | -                                      | 17.9            | 11.78               | 3500                          | -             | 120     | 10.9   | -         | -        |
| 9-Aug-05 <sup>b</sup>                  | -                | -                       | -                       | -                                      | -               | -                   | 2820                          | -             | 91.5    | 9.53   | -         | -        |
| 14-Sept-05 <sup>a</sup>                | 17.38            | 9507                    | -                       | -                                      | 14              | 12.36               | 3600                          | -             | 118     | 11.2   | -         | -        |
| 14-Sept-05 <sup>b</sup>                | -                | -                       | -                       | -                                      | -               | -                   | 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    | -        |
| 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    | -        |

**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 |
| Preliminary Cleanup Level <sup>c</sup> | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 5.6           | 8       | 2.5     | -         | 80       |
| 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     |
| 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     |

**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 |
| Preliminary Cleanup Level <sup>c</sup> | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 5.6           | 8       | 2.5    | -         | 80       |
| 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     |

## 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 Preliminary Cleanup Level (PCUL), except for pH, which could be above

a North Creek Analytical, Inc.

b Severn Trent Laboratories

c Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

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 A-3

### **SUMMARY OF LOWER DISPOSAL AREA - BEDROCK GROUNDWATER SAMPLING RESULTS**

TABLE A-3A WELL MWB-1LDA

TABLE A-3B WELL MWB-2LDA

TABLE A-3C WELL MWB-3LDA

**Table A-3a: Summary of Lower Disposal Area - Bedrock Groundwater Sampling Results**  
**- Well MWB-1LDA 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 (umhos/cm) | Dissolved Oxygen (mg/L) | Oxidation Reduction Potential (Rel mV) | Turbidity (NTU) | pH (standard units) | Total Dissolved Solids (mg/L)   | Arsenic       | Lead   | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                    | -                       | -                       | -                                      | -               | 6.5-8.5             | -                               | 8             | 2.5    | -         |
| 19-Dec-06                              | 26.51                      | 678.17                              | 10.96                                | 546                     | 0.43                    | -115.4                                 | 1.05            | 7.70                | 310                             | 151           | 1 U    | -         |
| 14-Feb-07                              | 26.08                      | 678.60                              | 10.62                                | 397                     | 1.02                    | -90.8                                  | 3.07            | 7.53                | 240                             | 160           | 1 U    | -         |
| 31-May-07                              | 25.96                      | 678.72                              | 10.83                                | 386                     | 0.36                    | -172.8                                 | 4.20            | 8.20                | 220                             | 122           | 1 U    | -         |
| 27-Aug-07                              | 25.66                      | 679.02                              | 10.97                                | 372                     | 0.76                    | -128.2                                 | 1.08            | 7.51                | 240                             | 89.9          | 1 U    | -         |
| 28-Nov-07                              | 26.81                      | 677.87                              | 10.56                                | 371                     | 0.42                    | -121.2                                 | 1.29            | 8.03                | 220                             | 88.3          | 1 U    | -         |
| 27-Feb-08                              | 25.80                      | 678.88                              | 10.62                                | 371                     | 2.01                    | -                                      | 1.07            | -                   | 230                             | 80.9          | 1 U    | 3000 U    |
| 20-May-08                              | 25.62                      | 679.06                              | 10.61                                | 391                     | 0.36                    | -53.0                                  | 1.11            | 7.28                | 230                             | 64.3          | 1 U    | -         |
| 27-Aug-08                              | 26.14                      | 678.54                              | 10.58                                | 394                     | 0.50                    | -63.9                                  | 1.02            | 7.35                | 230 J                           | 64            | 1 U    | 3000 U    |
| 19-Nov-08                              | 25.16                      | 679.52                              | 10.33                                | 269                     | 0.45                    | -88.6                                  | 0.48            | 7.51                | 230                             | 59.6          | 1 U    | 3000 U    |
| 11-Feb-09                              | 25.08                      | 679.60                              | 10.04                                | 268                     | 0.48                    | -                                      | 0.97            | 7.89                | 230                             | 56            | 1 U    | 3000 U    |
| 18-May-09                              | 24.83                      | 679.85                              | 10.10                                | 271                     | 0.42                    | -50.5                                  | 1.81            | 8.05                | 230 J                           | 46.6          | 1 U    | 3000 U    |
| 24-Sep-09                              | 26.32                      | 678.36                              | 11.80                                | 323                     | 0.24                    | 202.0                                  | 3.59            | 7.57                | 260                             | 27            | 2 U    | 1100 J    |
| 17-Dec-09                              | 25.06                      | 679.62                              | 10.10                                | 370                     | 0.94                    | 179.0                                  | 4.16            | 7.77                | <40                             | 34            | 2 U    | 1200 J    |
| 23-Mar-10                              | 24.83                      | 679.85                              | 10.90                                | 344                     | 0.21                    | 397.4                                  | 3.17            | 7.57                | 240                             | 25            | 2 U    | 1300 J    |
| 15-Jun-10                              | 24.38                      | 680.30                              | 10.50                                | 355                     | 0.08                    | 195.5                                  | 0.42            | 7.66                | 150                             | 27            | 2 U    | 1100 J    |
| 20-Sep-10                              | 25.74                      | 678.94                              | 10.50                                | 354                     | 0.06                    | 192.9                                  | 0.20            | 7.65                | 200                             | 22            | 2 U    | 1100 J    |
| 6-Dec-10                               | 24.59                      | 680.09                              | 10.00                                | 347                     | 0.09                    | 99.3                                   | 0.17            | 7.86                | 230                             | 22            | 2 U    | 1000 J    |
| 28-Mar-11                              | 24.01                      | 680.67                              | 10.00                                | 173                     | 0.16                    | 90.6                                   | 0.88            | 7.58                | 200                             | 22            | 2 U    | 1000 J    |
| 20-Jun-11                              | 24.11                      | 680.57                              | 10.30                                | 330                     | 0.07                    | 121.5                                  | 0.17            | 7.65                | 250                             | 22            | 2 U    | 900 J     |
| 26-Sep-11                              | 25.39                      | 679.29                              | 10.40                                | 2906                    | 0.06                    | 123.6                                  | 0.43            | 7.65                | 280                             | 15            | 2 U    | 1100 J    |
| 14-Dec-11                              | 24.61                      | 680.07                              | 9.90                                 | 245                     | 0.10                    | 193.8                                  | 1.76            | 7.57                | 230                             | 21            | 2 U    | 1200 J    |
| 21-Mar-12                              | 23.70                      | 680.98                              | 10.10                                | 392                     | 0.07                    | 392.0                                  | 0.22            | 7.47                | 240                             | 23            | 2 U    | 1100 J    |
| 18-Jun-12                              | 23.90                      | 680.78                              | 10.50                                | 383                     | 0.02                    | 342.8                                  | 0.30            | 7.67                | 230                             | 20            | 0.4 U  | 3300 U    |
| 18-Dec-12                              | 23.59                      | 681.09                              | 10.10                                | 492                     | 0.00                    | -45.7                                  | 0.16            | 7.70                | 92                              | 17            | 0.4 U  | 1200 J    |
| 25-Feb-13                              | 23.73                      | 680.95                              | 9.90                                 | 377                     | 0.00                    | 177.1                                  | 0.37            | 7.53                | 270 J                           | 19            | 0.4 U  | 1000 J    |
| 22-May-13                              | 23.85                      | 680.83                              | 9.90                                 | 398                     | 0.00                    | 430.4                                  | 0.44            | 7.73                | 290                             | 17            | 0.4 U  | 3300 U    |
| 21-Aug-13                              | 25.34                      | 679.34                              | 10.40                                | 467                     | 0.01                    | -31.7                                  | 0.55            | 7.68                | 238                             | 16.8          | 0.08 U | 1060      |
| 19-Nov-13                              | 24.25                      | 680.43                              | 10.10                                | 361                     | 0.00                    | 70.3                                   | 0.32            | 7.30                | 232                             | 15.7          | 0.1 U  | 1040      |
| 31-Mar-14                              | 22.36                      | 682.32                              | 10.70                                | 286                     | 0.01                    | 107.4                                  | 0.21            | 7.79                | 211                             | 13.8          | 0.1 U  | 1020      |
| 21-May-14                              | 23.29                      | 681.39                              | 8.54                                 | 271                     | 1.35                    | 54.3                                   | -               | 7.14                | 198                             | 13.1          | 0.1 U  | 1000      |
| 12-Aug-14                              | 24.87                      | 679.81                              | 14.79                                | 335                     | 0.41                    | -16.0                                  | 2.02            | 7.05                | 216                             | 11.9          | 0.1 U  | 1010      |
| 11-Nov-14                              | 24.96                      | 679.72                              | 10.10                                | 262                     | 0.79                    | 11.1                                   | 1.51            | 7.49                | 221                             | 13.6          | 0.1 U  | 1090      |
| 10-Feb-15                              | 23.23                      | 681.45                              | 10.40                                | 319                     | 0.25                    | -114.0                                 | 0.36            | 7.70                | 240                             | 13.3          | 0.1 U  | 960       |
| 4-May-15                               | 23.62                      | 681.06                              | 10.20                                | 370                     | 0.05                    | 175.1                                  | 0.16            | 7.70                | 224                             | 11.7          | 0.1 U  | 960       |
| 4-Aug-15                               | 25.30                      | 679.38                              | 11.00                                | 279                     | 0.06                    | -30.5                                  | 0.72            | 7.72                | 234                             | 14.4          | 0.1 U  | 990       |
| 4-Nov-15                               | 25.35                      | 679.33                              | 10.60                                | 263                     | 0.00                    | 51.2                                   | 0.46            | 7.46                | 233                             | 11            | 0.1 U  | 1150      |
| 8-Feb-16                               | 23.03                      | 681.65                              | 10.20                                | 319                     | 0.03                    | 206.5                                  | 0.20            | 7.77                | 210                             | 12.1          | 0.1 U  | 1050      |
| 2-May-16                               | 23.49                      | 681.19                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |        |           |
| 22-Aug-16                              | 25.00                      | 679.68                              | 11.10                                | 323                     | 0.02                    | -55.2                                  | 1.10            | 7.64                | Monitored Annually <sup>1</sup> |               |        |           |
| 1-Nov-16                               | 24.29                      | 680.39                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |        |           |
| 31-Jan-17                              | 23.06                      | 681.62                              | 10.20                                | 391                     | 0.05                    | 169.3                                  | 0.13            | 7.66                | 223                             | 11.9          | 0.1 U  | 1030      |
| 30-May-17                              | 22.45                      | 682.23                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |        |           |
| 16-Aug-17                              | 24.27                      | 680.41                              | 10.70                                | 385                     | 0.15                    | 123.4                                  | 0.40            | 7.64                | Monitored Annually <sup>1</sup> |               |        |           |
| 9-Nov-17                               | -                          | 680.27                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |        |           |
| 28-Feb-18                              | 22.04                      | 682.64                              | 10.10                                | 276                     | 0.20                    | -96.4                                  | 0.25            | 7.44                | 221                             | 10.8          | 0.1 U  | 951       |
| 1-May-18                               | 22.11                      | 682.57                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |        |           |
| 22-Aug-18                              | 24.42                      | 680.26                              | 11.37                                | 277                     | 5.25                    | -59.6                                  | 0.18            | 7.61                | Monitored Annually <sup>1</sup> |               |        |           |
| 6-Nov-18                               | 24.57                      | 680.11                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |        |           |
| 11-Mar-19                              | 22.61                      | 682.07                              | 10.10                                | 248                     | 0.60                    | -70.8                                  | 0.68            | 7.60                | 224                             | 8.74          | 0.1 U  | 1070      |
| 8-May-19                               | 22.68                      | 682.00                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |        |           |
| 27-Aug-19                              | 24.54                      | 680.14                              | 11.45                                | 282                     | 0.58                    | Note 1                                 | 0.04            | 7.30                | Monitored Annually <sup>1</sup> |               |        |           |

**Table A-3a: Summary of Lower Disposal Area - Bedrock Groundwater Sampling Results  
- Well MWB-1LDA 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 (umhos/cm) | Dissolved Oxygen (mg/L) | Oxidation Reduction Potential (Rel mV) | Turbidity (NTU) | pH (standard units) | Total Dissolved Solids (mg/L)   | Arsenic       | Lead    | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                    | -                       | -                       | -                                      | -               | 6.5-8.5             | -                               | 8             | 2.5     | -         |
| 13-Nov-19                              | 24.15                      | 680.53                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 13-Feb-20                              | 22.04                      | 682.64                              | 10.10                                | 280                     | 0.34                    | -133.4                                 | 0.57            | 7.51                | 207                             | 8.82          | 0.1 U   | 1050      |
| 13-Aug-20                              | 23.92                      | 680.76                              | 11.00                                | 284                     | 0.60                    | -113.5                                 | 0.44            | 7.55                | Monitored Annually <sup>1</sup> |               |         |           |
| 9-Dec-20                               | 23.35                      | 681.33                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 5-Mar-21                               | 22.01                      | 682.67                              | 10.20                                | 266                     | 0.04                    | -50.0                                  | 0.42            | 7.64                | 214                             | 10.5          | 0.1 U   | 1120      |
| 10-Jun-21                              | 23.17                      | 681.51                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 13-Oct-21                              | 24.41                      | 680.27                              | 10.90                                | 327.2                   | 0.91                    | -76.1                                  | 0.33            | 7.48                | Monitored Annually <sup>1</sup> |               |         |           |
| 5-Jan-22                               | 22.00                      | 682.68                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 17-Mar-22                              | 21.89                      | 682.79                              | 10.7                                 | 259.6                   | 1.24                    | -60.4                                  | 0.22            | 6.52                | 220                             | 8.2           | 0.1 U   | 925       |
| 21-Jun-22                              | 21.58                      | 683.1                               | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 12-Sep-22                              | 23.51                      | 681.17                              | 11.3                                 | 263.3                   | 2.86                    | -7.4                                   | 0.37            | 6.76                | Monitored Annually <sup>1</sup> |               |         |           |
| 12-Dec-22                              | 23.51                      | 681.17                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 15-Mar-23                              | 22.00                      | 682.68                              | 10.3                                 | 372.2                   | 0.17                    | -86.5                                  | 0.13            | 7.66                | 221                             | 8.35          | 0.1 U   | 864       |
| 27-Jun-23                              | 22.85                      | 681.83                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 6-Sep-23                               | 24.14                      | 680.54                              | 11.6                                 | 385.5                   | 2.01                    | -50.9                                  | 1.44            | 7.73                | Monitored Annually <sup>1</sup> |               |         |           |
| 15-Dec-23                              | 22.74                      | 681.94                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 4-Mar-24                               | 21.68                      | 683                                 | 10.2                                 | 320.6                   | 3.65                    | -29.8                                  | 0.3             | 7.38                | 243 J                           | 9.13          | 0.103 U | 857       |
| 18-Jun-24                              | 22.16                      | 682.52                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 18-Sep-24                              | 23.85                      | 680.83                              | 11                                   | 363.3                   | 7.57                    | 131.2                                  | 0.42            | 7.49                | Monitored Annually <sup>1</sup> |               |         |           |
| 9-Dec-24                               | -                          | -                                   | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 26-Mar-25                              | 21.47                      | 683.21                              | 11.9                                 | 369.3                   | 0.37                    | 62.2                                   | 3.28            | 7.35                | 222                             | 6.55          | 0.2 U   | 933       |
| 11-Jun-25                              | -                          | -                                   | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |

## Notes:

Top of casing elevation (feet NAVD88): 704.68

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.

1 Reduction in monitoring frequency approved by Public Health – Seattle and King County in a letter to Golder Associates Inc. dated April 7, 2016. Field parameters collected semi-annually, analytical samples collected annually. Sampling schedule follows the Golder 2021 RI Work Plan starting in Q3 2021.

- Not available

Orange shaded values indicate parameter results above the Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

a Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

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

°C Degrees Celsius

Note 1 ORP measurements not available due to faulty sensor.

ug/L Micrograms per liter

umhos/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-3b: Summary of Lower Disposal Area - Bedrock Groundwater Sampling Results  
- Well MWB-2LDA 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)   | Arsenic       | Lead  | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                    | -                       | -                       | -                                      | -               | 6.5-8.5             | -                               | 8             | 2.5   | -         |
| 19-Dec-06                              | 36.82                      | 704.84                              | 12.15                                | 394                     | 0.57                    | 114.6                                  | 1.84            | 7.58                | 230                             | 8.49          | 1 U   | -         |
| 14-Feb-07                              | 36.30                      | 705.36                              | 11.69                                | 339                     | 1.40                    | -85.7                                  | 2.72            | 7.39                | 200                             | 6.09          | 1 U   | -         |
| 31-May-07                              | 36.93                      | 704.73                              | 12.13                                | 346                     | 0.20                    | -223.7                                 | 3.04            | 8.28                | 210                             | 6.95          | 1 U   | -         |
| 27-Aug-07                              | 37.99                      | 703.67                              | 12.18                                | 336                     | 0.49                    | -169.7                                 | 0.84            | 7.54                | 210                             | 7.49          | 1 U   | -         |
| 28-Nov-07                              | 37.89                      | 703.77                              | 11.82                                | 338                     | 0.28                    | -146.6                                 | 1.32            | 7.93                | 250                             | 6.91          | 1 U   | -         |
| 27-Feb-08                              | 37.24                      | 704.42                              | 11.87                                | 340                     | 0.23                    | -                                      | 0.87            | 7.41                | 210                             | 7.46          | 1 U   | 3000 U    |
| 20-May-08                              | 37.31                      | 704.35                              | 11.91                                | 359                     | 0.23                    | -86.6                                  | 0.67            | 7.27                | 200                             | 6.31          | 1 U   | -         |
| 27-Aug-08                              | 38.37                      | 703.29                              | 11.84                                | 362                     | 0.35                    | -77.6                                  | 0.70            | 7.21                | 210 J                           | 6.36          | 1 U   | 3000 U    |
| 19-Nov-08                              | 37.50                      | 704.16                              | 11.53                                | 254                     | 0.44                    | -105.9                                 | 2.08            | 7.45                | 200                             | 5.86          | 1 U   | 3000 U    |
| 11-Feb-09                              | 37.10                      | 704.56                              | 11.25                                | 254                     | 0.48                    | -                                      | 0.63            | 7.91                | 220                             | 5.61          | 1 U   | 3000 U    |
| 18-May-09                              | 37.00                      | 704.66                              | 11.42                                | 258                     | 0.42                    | -71.9                                  | 1.11            | 8.00                | 210 J                           | 5.17          | 1 U   | 3000 U    |
| 25-Sep-09                              | 38.88                      | 702.78                              | 13.10                                | 297                     | 0.14                    | 140.7                                  | 3.09            | 7.54                | 230                             | 6.5           | 2 U   | 1200 J    |
| 17-Dec-09                              | 37.19                      | 704.47                              | 10.80                                | 341                     | 0.51                    | 129.0                                  | 4.85            | 7.71                | 74                              | 4.3           | 2 U   | 1100 J    |
| 23-Mar-10                              | 36.60                      | 705.06                              | 12.60                                | 323                     | 0.27                    | 355.0                                  | 5.28            | 7.54                | 110                             | 7.6           | 2 U   | 1200 J    |
| 15-Jun-10                              | 36.25                      | 705.41                              | 11.40                                | 326                     | 0.08                    | 171.1                                  | -               | 7.62                | 98                              | 8.8           | 2 U   | 1100 J    |
| 20-Sep-10                              | 37.85                      | 703.81                              | 11.60                                | 324                     | 0.08                    | 144.0                                  | 0.16            | 7.61                | 160                             | 6.5           | 2 U   | 1200 J    |
| 6-Dec-10                               | 36.60                      | 705.06                              | 11.00                                | 319                     | 0.21                    | 78.3                                   | 0.20            | 7.81                | 210                             | 2.9           | 2 U   | 900 J     |
| 29-Mar-11                              | 35.98                      | 705.68                              | 11.20                                | 156                     | 0.15                    | 215.0                                  | 0.75            | 7.48                | 200                             | 5.6           | 2 U   | 1500 J    |
| 21-Jun-11                              | 36.34                      | 705.32                              | 11.80                                | 352                     | 0.06                    | 101.5                                  | 0.24            | 7.59                | 220                             | 5 U           | 2 U   | 1000 J    |
| 27-Sep-11                              | 38.14                      | 703.52                              | 11.50                                | 2484                    | 0.06                    | 114.4                                  | 0.45            | 7.60                | 220                             | 5 U           | 2 U   | 1000 J    |
| 14-Dec-11                              | 36.91                      | 704.75                              | 11.00                                | 228                     | 0.05                    | 127.2                                  | 4.04            | 7.54                | 190                             | 6.7           | 2 U   | 1200 J    |
| 21-Mar-12                              | 35.68                      | 705.98                              | 11.00                                | 359                     | 0.05                    | 93.9                                   | 0.30            | 7.43                | 210                             | 6.9           | 2 U   | 1100 J    |
| 18-Jun-12                              | 36.06                      | 705.60                              | 11.70                                | 350                     | 0.02                    | 211.9                                  | 0.23            | 7.62                | 220                             | 6.2           | 0.4 U | 3300 U    |
| 18-Dec-12                              | 34.88                      | 706.78                              | 10.90                                | 463                     | 0.00                    | -97.8                                  | 0.17            | 7.81                | 68                              | 6             | 0.4 U | 1200 J    |
| 25-Feb-13                              | 35.70                      | 705.96                              | 10.90                                | 347                     | 0.09                    | 112.6                                  | 0.27            | 7.56                | 190                             | 6.6           | 0.4 U | 1100 J    |
| 22-May-13                              | 36.24                      | 705.42                              | 11.00                                | 412                     | 0.00                    | 412.5                                  | 0.43            | 7.71                | 190                             | 6             | 0.4 U | 3300 U    |
| 20-Aug-13                              | 38.13                      | 703.53                              | 12.20                                | 406                     | 0.02                    | -41.5                                  | 0.64            | 7.48                | 211                             | 5.5           | 0.1 U | 1030      |
| 19-Nov-13                              | 36.56                      | 705.10                              | 11.10                                | 344                     | 0.01                    | 43.6                                   | 0.32            | 7.35                | 206                             | 5.2           | 0.1 U | 1090      |
| 31-Mar-14                              | 35.36                      | 706.30                              | 11.50                                | 285                     | 0.00                    | 93.1                                   | 0.31            | 7.71                | 207                             | 5.1           | 0.1 U | 1100      |
| 22-May-14                              | 35.80                      | 705.86                              | 10.05                                | 260                     | 0.24                    | 17.5                                   | -               | 7.22                | 186                             | 5             | 0.1 U | 1000      |
| 13-Aug-14                              | 37.50                      | 704.16                              | 13.10                                | 294                     | 0.57                    | -37.5                                  | 3.28            | 7.19                | 190                             | 5.4           | 0.1 U | 1110      |
| 11-Nov-14                              | 37.06                      | 704.60                              | 10.10                                | 241                     | 0.68                    | -39.7                                  | 2.10            | 7.48                | 206                             | 5.4           | 0.1 U | 1090      |
| 10-Feb-15                              | 35.70                      | 705.96                              | 11.40                                | 295                     | 0.11                    | -123.2                                 | 2.11            | 7.69                | 206                             | 5.1           | 0.1 U | 1020      |
| 4-May-15                               | 36.34                      | 705.32                              | 11.70                                | 336                     | 0.05                    | 340.2                                  | 0.72            | 7.73                | 204                             | 4.8           | 0.1 U | 1040      |
| 4-Aug-15                               | 38.42                      | 703.24                              | 12.70                                | 263                     | 0.04                    | -81.8                                  | 0.77            | 7.72                | 204                             | 5.8           | 0.1 U | 1040      |
| 4-Nov-15                               | 37.81                      | 703.85                              | 11.60                                | 244                     | 0.04                    | 26.9                                   | 2.13            | 7.45                | 201                             | 4.7           | 0.1 U | 1070      |
| 8-Feb-16                               | 35.68                      | 705.98                              | 11.60                                | 307                     | 0.00                    | 208.4                                  | 0.74            | 7.68                | 186                             | 5.5           | 0.1 U | 1110      |
| 2-May-16                               | 36.03                      | 705.63                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 22-Aug-16                              | 37.92                      | 703.74                              | 12.20                                | 306                     | 0.02                    | -137.6                                 | 1.58            | 7.67                | Monitored Annually <sup>1</sup> |               |       |           |
| 1-Nov-16                               | 37.07                      | 704.59                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 31-Jan-17                              | 36.00                      | 705.66                              | 10.90                                | 348                     | 0.10                    | 120.5                                  | 0.86            | 7.67                | 195                             | 5.66          | 0.1 U | 1110      |
| 30-May-17                              | 35.44                      | 706.22                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 16-Aug-17                              | 37.69                      | 703.97                              | 12.30                                | 356                     | 0.14                    | -77.2                                  | 3.27            | 7.67                | Monitored Annually <sup>1</sup> |               |       |           |
| 9-Nov-17                               | 37.11                      | 704.55                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |

**Table A-3b: Summary of Lower Disposal Area - Bedrock Groundwater Sampling Results  
- Well MWB-2LDA 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)   | Arsenic       | Lead    | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                    | -                       | -                       | -                                      | -               | 6.5-8.5             | -                               | 8             | 2.5     | -         |
| 28-Feb-18                              | 34.95                      | 706.71                              | 10.90                                | 261                     | 0.21                    | -115.5                                 | 0.80            | 7.48                | 205                             | 5.69          | 0.1 U   | 992       |
| 1-May-18                               | 35.11                      | 706.55                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 22-Aug-18                              | 37.90                      | 703.76                              | 12.31                                | 262                     | 1.64                    | -80.3                                  | 0.92            | 7.56                | Monitored Annually <sup>1</sup> |               |         |           |
| 6-Nov-18                               | 37.66                      | 704.00                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 12-Mar-19                              | 35.68                      | 705.98                              | 10.70                                | 239                     | 0.58                    | -75.1                                  | 0.59            | 7.48                | 188                             | 5.5           | 0.1 U   | 1080      |
| 8-May-19                               | 35.86                      | 705.80                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 27-Aug-19                              | 37.85                      | 703.81                              | 12.30                                | 265                     | 0.43                    | Note 1                                 | 0.02            | 7.46                | Monitored Annually <sup>1</sup> |               |         |           |
| 13-Nov-19                              | 37.22                      | 704.44                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 13-Feb-20                              | 35.10                      | 706.56                              | 10.80                                | 261                     | 0.39                    | -135.9                                 | 0.96            | 7.50                | 185                             | 5.45          | 0.1 U   | 1150      |
| 13-Aug-20                              | 37.21                      | 704.45                              | 11.60                                | 266                     | 0.54                    | -118.2                                 | 1.35            | 7.50                | Monitored Annually <sup>1</sup> |               |         |           |
| 9-Dec-20                               | 36.55                      | 705.11                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 5-Mar-21                               | 35.02                      | 706.64                              | 11.10                                | 255                     | 0.04                    | -80.0                                  | 2.29            | 7.65                | 176                             | 5.52          | 0.1 U   | 1090      |
| 10-Jun-21                              | 36.29                      | 705.37                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 13-Oct-21                              | 37.76                      | 703.90                              | 11.70                                | 308                     | 3.66                    | -44.7                                  | 0.32            | 7.43                | Monitored Annually <sup>1</sup> |               |         |           |
| 5-Jan-22                               | 35.31                      | 706.35                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 17-Mar-22                              | 34.52                      | 707.14                              | 11.6                                 | 244.3                   | 2.84                    | -60.6                                  | 3.21            | 6.56                | 201                             | 5.53          | 0.071 J | 1060      |
| 21-Jun-22                              | 34.7                       | 706.96                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 23-Sep-22                              | 37                         | 704.66                              | 12.1                                 | 243.1                   | 3.88                    | -17.8                                  | 0.54            | 7.47                | Monitored Annually <sup>1</sup> |               |         |           |
| 12-Dec-22                              | 36.41                      | 705.25                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 14-Mar-23                              | 35.09                      | 706.57                              | 10.8                                 | 350.4                   | 3.17                    | 50.5                                   | 0.2             | 7.37                | 199                             | 5.25          | 0.1 U   | 894       |
| 27-Jun-23                              | 36.04                      | 705.62                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 6-Sep-23                               | 37.74                      | 703.92                              | 12.9                                 | 354.5                   | 1.99                    | -35.7                                  | 0.51            | 7.67                | Monitored Annually <sup>1</sup> |               |         |           |
| 14-Dec-23                              | 35.46                      | 706.2                               | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |

**Table A-3b: Summary of Lower Disposal Area - Bedrock Groundwater Sampling Results  
- Well MWB-2LDA 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)   | Arsenic       | Lead    | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                    | -                       | -                       | -                                      | -               | 6.5-8.5             | -                               | 8             | 2.5     | -         |
| 6-Mar-24                               | 34.60                      | 707.06                              | 10.8                                 | 320.7                   | 5.8                     | 84.9                                   | 0.52            | 7.39                | 218                             | 5.24          | 0.103 U | 952       |
| 18-Jun-24                              | 35.20                      | 706.46                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 18-Sep-24                              | 36.90                      | 704.76                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 9-Dec-24                               | -                          | -                                   | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 27-Mar-25                              | 34.36                      | 707.3                               | 11.2                                 | 337.3                   | 0.7                     | 75.1                                   | 2.86            | 7.22                | 202                             | 5.42          | 0.2 U   | 981       |
| 11-Jun-25                              | -                          | -                                   | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |

## Notes:

Top of casing elevation (feet NAVD88): 741.66

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.

Reduction in monitoring frequency approved by Public Health – Seattle and King County in a letter to Golder

1 Associates Inc. dated April 7, 2016. Field parameters collected semi-annually, analytical samples collected annually. Sampling schedule follows the Golder 2021 RI Work Plan starting in Q3 2021.

- Not available

Orange shaded values indicate parameter results above the Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

a Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

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

°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-3c: Summary of Lower Disposal Area - Bedrock Groundwater Sampling Results**  
**- Well MWB-3LDA 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) | Arsenic       | Lead  | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 8             | 2.5   | -         |
| 19-Dec-06                              | 7.08                       | 737.11                              | 11.37            | 670                     | 0.42                    | -171.2                                 | 1.20            | 9.23                | 500                           | 25.7          | 1 U   | -         |
| 23-Jan-07                              | 5.62                       | 738.57                              | 13.07            | 383                     | 0.51                    | -275.0                                 | 1.53            | 8.63                | 270                           | 18.4          | 1 U   | -         |
| 14-Feb-07                              | 5.81                       | 738.38                              | 12.57            | 328                     | 1.09                    | -158.2                                 | 115.00          | 7.86                | 310                           | 15.1          | 1 U   | -         |
| 29-Mar-07                              | 4.78                       | 739.41                              | 12.44            | 458                     | 0.57                    | -140.8                                 | 4.25            | 7.78                | 260 J                         | 37.9          | 1 U   | -         |
| 17-Apr-07                              | 4.86                       | 739.33                              | 12.79            | 389                     | 0.27                    | -102.4                                 | 1.22            | 7.46                | 240                           | 23            | 1 U   | -         |
| 31-May-07                              | 6.39                       | 737.80                              | 12.98            | 394                     | 0.29                    | -223.8                                 | 3.32            | 8.14                | 240                           | 21.2          | 1 U   | -         |
| 20-Jun-07                              | 6.86                       | 737.33                              | 13.41            | 412                     | 6.10                    | -128.5                                 | 1.35            | 8.02                | 230 J                         | 23.8          | 1 U   | -         |
| 31-Jul-07                              | 7.96                       | 736.23                              | 13.47            | 417                     | 0.77                    | -174.1                                 | 0.92            | 7.64                | 250                           | 18.9          | 1 U   | -         |
| 27-Aug-07                              | 8.50                       | 735.69                              | 12.84            | 395                     | 0.46                    | -132.4                                 | 1.97            | 7.43                | 250                           | 17.6          | 1 U   | -         |
| 27-Sep-07                              | 9.58                       | 734.61                              | 12.68            | 294                     | 0.51                    | -133.8                                 | 0.53            | 7.87                | 250                           | 19.3          | 1 U   | -         |
| 26-Oct-07                              | 9.65                       | 734.54                              | 12.49            | 288                     | 0.84                    | -111.9                                 | 9.83            | 7.60                | 240 J                         | 11            | 1 U   | -         |
| 28-Nov-07                              | 10.23                      | 733.96                              | 11.95            | 362                     | 0.64                    | -86.1                                  | 1.58            | 7.87                | 200                           | 17.8          | 1 U   | -         |
| 12-Dec-07                              | 9.66                       | 734.53                              | 11.83            | 334                     | 0.26                    | -93.2                                  | 0.63            | 7.63                | 280 J                         | 17.4          | 1 U   | -         |
| 24-Jan-08                              | 8.20                       | 735.99                              | 11.09            | 335                     | 0.44                    | -108.3                                 | -               | 7.46                | 220                           | 19.2          | 1 U   | -         |
| 26-Feb-08                              | 7.61                       | 736.58                              | 12.26            | 337                     | 0.48                    | -                                      | 2.40            | 7.45                | 210                           | 22            | 1 U   | 3000 U    |
| 25-Mar-08                              | 7.22                       | 736.97                              | 11.94            | 337                     | 1.01                    | -48.6                                  | 2.80            | 7.51                | 210                           | 17.8          | 1 U   | -         |
| 29-Apr-08                              | 6.75                       | 737.44                              | 12.53            | 332                     | 0.77                    | -50.3                                  | 1.95            | 7.41                | 200 J                         | 18.2          | 1 U   | -         |
| 19-May-08                              | 7.17                       | 737.02                              | 12.37            | 336                     | 0.57                    | -57.2                                  | 2.19            | 7.34                | 200 J                         | 18.7          | 1 U   | -         |
| 18-Jun-08                              | 7.26                       | 736.93                              | 12.11            | 323                     | 0.48                    | -64.1                                  | 0.83            | 7.13                | 190 J                         | 19.5          | 1 U   | -         |
| 26-Aug-08                              | 8.78                       | 735.41                              | 12.31            | 329                     | 1.16                    | -36.5                                  | 2.89            | 7.30                | 200 J                         | 17.7          | 1 U   | 3000 U    |
| 19-Nov-08                              | 9.03                       | 735.16                              | 11.91            | 243                     | 0.52                    | -93.1                                  | 1.69            | 7.40                | 190                           | 18.2          | 1 U   | 3000 U    |
| 11-Feb-09                              | 7.07                       | 737.12                              | 11.74            | 227                     | 0.65                    | -                                      | 1.03            | 7.76                | 180                           | 17.7          | 1 U   | 3000 U    |
| 18-May-09                              | 6.50                       | 737.69                              | 12.11            | 225                     | 0.67                    | -63.9                                  | 1.51            | 7.83                | 190 J                         | 12.9          | 1 U   | 3000 U    |
| 17-Dec-09                              | 8.39                       | 735.80                              | 11.50            | 301.0                   | 0.44                    | 110.0                                  | 3.10            | 7.71                | 270                           | 23            | 2 U   | 1300 J    |
| 23-Mar-10                              | 6.46                       | 737.73                              | 12.20            | 294.8                   | 0.43                    | 332.5                                  | 3.52            | 7.57                | 150 J                         | 27            | 2 U   | 1300 J    |
| 16-Jun-10                              | 5.34                       | 738.85                              | 11.10            | 281.7                   | 0.05                    | 117.0                                  | -               | 7.71                | 160                           | 27            | 2 U   | 1300 J    |
| 21-Sep-10                              | 7.72                       | 736.47                              | 11.80            | 276.3                   | 0.06                    | 169.5                                  | 0.36            | 7.54                | 140                           | 23            | 2 U   | 1300 J    |
| 7-Dec-10                               | 6.48                       | 737.71                              | 11.00            | 263.0                   | 0.15                    | 77.2                                   | 0.38            | 7.58                | 180                           | 20            | 2 U   | 1200 J    |
| 28-Mar-11                              | 4.42                       | 739.77                              | 10.80            | 134.0                   | 0.44                    | 75.6                                   | 1.06            | 7.46                | 160 J                         | 21            | 2 U   | 1700 J    |
| 20-Jun-11                              | 4.76                       | 739.43                              | 12.10            | 252.7                   | 0.07                    | 68.4                                   | 0.13            | 7.48                | 200 J                         | 16            | 2 U   | 1000 J    |
| 27-Sep-11                              | 7.86                       | 736.33                              | 11.90            | 2064.0                  | 0.04                    | 102.6                                  | 0.37            | 7.48                | 170                           | 18            | 2 U   | 1100 J    |
| 14-Dec-11                              | 7.17                       | 737.02                              | 11.00            | 188.2                   | 0.03                    | 140.8                                  | 1.87            | 7.50                | 770                           | 22            | 2 U   | 1300 J    |
| 21-Mar-12                              | 4.68                       | 739.51                              | 10.70            | 297.8                   | 0.07                    | 130.6                                  | 0.41            | 7.39                | 170                           | 21            | 2 U   | 1100 J    |
| 18-Jun-12                              | 4.75                       | 739.44                              | 11.60            | 289.0                   | 0.16                    | 271.3                                  | 0.55            | 7.54                | 150 J+                        | 19            | 0.4 U | 3300 U    |
| 19-Sep-12                              | 7.65                       | 736.54                              | 12.60            | 299.9                   | 0.10                    | 121.0                                  | 0.42            | 7.50                | 160                           | 18            | 0.4 U | 1100 J    |
| 18-Dec-12                              | 5.58                       | 738.61                              | 10.90            | 384.0                   | 0.03                    | 15.6                                   | 1.39            | 7.50                | 200                           | 19            | 0.4 U | 1300 J    |
| 25-Feb-13                              | 4.80                       | 739.39                              | 10.60            | 284.2                   | 0.03                    | 140.4                                  | 0.30            | 7.53                | 150                           | 22            | 0.4 U | 1200 J    |
| 22-May-13                              | 4.81                       | 739.38                              | 11.00            | 294.9                   | 0.14                    | 387.7                                  | 0.52            | 7.61                | 160                           | 18            | 0.4 U | 3300 U    |
| 20-Aug-13                              | 7.63                       | 736.56                              | 12.60            | 383.0                   | 0.81                    | -8.4                                   | 0.80            | 7.26                | 164                           | 16.7          | 0.1 U | 1060      |
| 19-Nov-13                              | 7.11                       | 737.08                              | 11.30            | 218.1                   | 0.14                    | 54.3                                   | 0.73            | 7.20                | 169                           | 16.6          | 0.1 U | 1130      |

**Table A-3c: Summary of Lower Disposal Area - Bedrock Groundwater Sampling Results**  
**- Well MWB-3LDA 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)   | Arsenic       | Lead  | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                    | -                       | -                       | -                                      | -               | 6.5-8.5             | -                               | 8             | 2.5   | -         |
| 1-Apr-14                               | 4.08                       | 740.11                              | 10.70                                | 222.6                   | 0.15                    | 158.5                                  | 1.12            | 7.50                | 168                             | 13.3          | 0.1 U | 1070      |
| 22-May-14                              | 4.21                       | 739.98                              | 9.98                                 | 206.0                   | 1.59                    | 27.1                                   | -               | 7.17                | 158                             | 11.2          | 0.1 U | 1000      |
| 13-Aug-14                              | 6.95                       | 737.24                              | 13.50                                | 237.0                   | 1.14                    | 9.8                                    | 4.70            | 6.92                | 154                             | 10.5          | 0.1 U | 990       |
| 12-Nov-14                              | 6.04                       | 738.15                              | 8.40                                 | 185.1                   | 0.28                    | -10.1                                  | 3.42            | 7.36                | 162                             | 16.1          | 0.1 U | 1050      |
| 11-Feb-15                              | 4.62                       | 739.57                              | 11.50                                | 205.1                   | 1.20                    | 68.1                                   | 1.32            | 7.41                | 169                             | 9             | 0.1 U | 1100      |
| 4-May-15                               | 4.93                       | 739.26                              | 12.20                                | 262.0                   | 1.64                    | 190.2                                  | 0.84            | 7.43                | 168                             | 10.9          | 0.1 U | 1010      |
| 4-Aug-15                               | 7.44                       | 736.75                              | 13.20                                | 211.3                   | 1.62                    | 81.9                                   | 2.02            | 7.39                | 173                             | 6.8           | 0.1 U | 1020      |
| 5-Nov-15                               | 8.14                       | 736.05                              | 12.50                                | 186.0                   | 1.49                    | 166.9                                  | 1.87            | 7.10                | 162                             | 3.5           | 0.1 U | 1040      |
| 8-Feb-16                               | 3.20                       | 740.99                              | 11.70                                | 240.5                   | 2.13                    | 196.9                                  | 0.88            | 7.23                | 150                             | 11.2          | 0.1 U | 980       |
| 2-May-16                               | 3.77                       | 740.42                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 22-Aug-16                              | 6.81                       | 737.38                              | 13.10                                | 238.0                   | 2.40                    | 168.5                                  | 2.39            | 7.41                | Monitored Annually <sup>1</sup> |               |       |           |
| 1-Nov-16                               | 6.59                       | 737.60                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 31-Jan-17                              | 4.02                       | 740.17                              | 11.30                                | 265.8                   | 2.79                    | 218.2                                  | 1.39            | 7.34                | 154                             | 3.23          | 0.1 U | 953       |
| 30-May-17                              | 2.32                       | 741.87                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 16-Aug-17                              | 5.48                       | 738.71                              | 13.20                                | 258.4                   | 3.54                    | 92.2                                   | 2.50            | 7.41                | Monitored Annually <sup>1</sup> |               |       |           |
| 9-Nov-17                               | 6.00                       | 738.19                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 28-Feb-18                              | 1.13                       | 743.06                              | 10.80                                | 186.9                   | 4.11                    | 142.0                                  | 1.83            | 7.18                | 159                             | 2.53          | 0.1 U | 848       |
| 1-May-18                               | 1.60                       | 742.59                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 22-Aug-18                              | 5.93                       | 738.26                              | 13.55                                | 194                     | 7.63                    | 16.9                                   | 0.77            | 7.11                | Monitored Annually <sup>1</sup> |               |       |           |
| 6-Nov-18                               | 6.78                       | 737.41                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 12-Mar-19                              | 2.32                       | 741.87                              | 10.50                                | 166                     | 4.32                    | 167.7                                  | 1.34            | 7.14                | 149                             | 1.87          | 0.1 U | 953       |
| 8-May-19                               | 2.57                       | 741.62                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 27-Aug-19                              | 5.76                       | 738.43                              | 13.62                                | 192                     | 3.94                    | Note 1                                 | 0.02            | 7.09                | Monitored Annually <sup>1</sup> |               |       |           |
| 13-Nov-19                              | 6.00                       | 738.19                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 13-Feb-20                              | 1.69                       | 742.50                              | 10.70                                | 180                     | 3.20                    | 88.5                                   | 1.21            | 7.11                | 140                             | 1.69          | 0.1 U | 915       |
| 13-Aug-20                              | 4.59                       | 739.60                              | 13.60                                | 188.7                   | 4.26                    | 50.3                                   | 1.60            | 7.19                | Monitored Annually <sup>1</sup> |               |       |           |
| 9-Dec-20                               | 4.22                       | 739.97                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 5-Mar-21                               | 1.06                       | 743.13                              | 10.90                                | 172.0                   | 3.43                    | 132                                    | 0.69            | 7.26                | 136                             | 1.84          | 0.1 U | 877       |
| 10-Jun-21                              | 3.46                       | 740.73                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 13-Oct-21                              | 6.17                       | 738.02                              | 12.90                                | 215.1                   | 4.10                    | 148.3                                  | 0.96            | 7.05                | Monitored Annually <sup>1</sup> |               |       |           |
| 5-Jan-22                               | 0.80                       | 743.39                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 17-Mar-22                              | 0.2                        | 743.99                              | 11.4                                 | 166.1                   | 5.44                    | 58.3                                   | 0.79            | 7.54                | 151                             | 1.58          | 0.1 U | 1200      |
| 21-Jun-22                              | 0.54                       | 743.65                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 23-Sep-22                              | 4                          | 740.19                              | 13.8                                 | 178.6                   | 5.66                    | 172                                    | 5.55            | 6.63                | Monitored Annually <sup>1</sup> |               |       |           |
| 12-Dec-22                              | 4.48                       | 739.71                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 14-Mar-23                              | 1.11                       | 743.08                              | 11                                   | 254.9                   | 0.8                     | -29.8                                  | 0.29            | 7.51                | 146                             | 7.37          | 0.1 U | 786       |
| 27-Jun-23                              | 2.73                       | 741.46                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |
| 6-Sep-23                               | 5.21                       | 738.98                              | 15.1                                 | 240.1                   | 2.85                    | 0.7                                    | 1.57            | 7.22                | Monitored Annually <sup>1</sup> |               |       |           |
| 15-Dec-23                              | 2.74                       | 741.45                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |       |           |

**Table A-3c: Summary of Lower Disposal Area - Bedrock Groundwater Sampling Results  
- Well MWB-3LDA 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)   | Arsenic       | Lead    | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                    | -                       | -                       | -                                      | -               | 6.5-8.5             | -                               | 8             | 2.5     | -         |
| 7-Mar-24                               | 0.19                       | 744                                 | 10.8                                 | 272.7                   | 3.09                    | -27.9                                  | 1.15            | 6.93                | 138                             | 6.36          | 0.174 J | 796       |
| 18-Jun-24                              | 1.35                       | 742.84                              | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 18-Sep-24                              | 4.55                       | 739.64                              | 14                                   | 227                     | 7.5                     | 123.4                                  | 1.66            | 7.09                | Monitored Annually <sup>1</sup> |               |         |           |
| 9-Dec-24                               | -                          | -                                   | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |
| 27-Mar-25                              | 0.70                       | 743.49                              | 11.2                                 | 215.6                   | 3.64                    | 65.1                                   | 3.76            | 6.65                | 143                             | 4.52          | 0.2 U   | 892       |
| 11-Jun-25                              | -                          | -                                   | Monitored Semi-Annually <sup>1</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>1</sup> |               |         |           |

## Notes:

Top of casing elevation (feet NAVD88): 744.19

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.

Reduction in monitoring frequency approved by Public Health – Seattle and King County in a letter to Golder

1 Associates Inc. dated April 7, 2016. Field parameters collected semi-annually, analytical samples collected annually. Sampling schedule follows the Golder 2021 RI Work Plan starting in Q3 2021.

- Not available

Orange shaded values indicate parameter results above the Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

a Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

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

°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

## Appendix A-4

### SUMMARY OF DALE STRIP PIT - BEDROCK GROUNDWATER SAMPLING RESULTS

TABLE A-4A WELL MWB-1SDSP

TABLE A-4B WELL MWB-1DDSP

TABLE A-4C WELL MWB-5DSP

TABLE A-4D WELL MWB-6DSP

TABLE A-4E PORTAL

TABLE A-4F WELL MWB-2DSP

TABLE A-4G WELL MWB-4SDSP

**Table A-4a: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-1SDSP  
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) | Arsenic       | Lead   | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 8             | 2.5    | -         |
| 2-Dec-02                               | 69.87                      | 866.42                              | 9.5                                 | 1690                    | -                       | -                                      | -               | 7.29                | 910                           | 46.6          | 2.68   | -         |
| 3-Mar-03                               | 36.83                      | 899.46                              | 11.5                                | 1260                    | -                       | -                                      | 24.10           | 7.15                | 860                           | 9.73          | -      | -         |
| 3-May-03                               | 34.88                      | 901.41                              | 12.8                                | 1520                    | -                       | -                                      | 38.00           | 7.09                | 950                           | -             | -      | -         |
| 3-Aug-03                               | 52.02                      | 884.27                              | 19.19                               | 1460                    | -                       | -                                      | 11.40           | 7.01                | 990                           | -             | -      | -         |
| 1-Nov-03                               | 53.61                      | 882.68                              | 11.60                               | 915                     | -                       | -                                      | 8.97            | 7.19                | 1010                          | 8.58          | 0.695  | -         |
| 1-Feb-04                               | 32.75                      | 903.54                              | 11.52                               | 1033                    | -                       | -                                      | 7.36            | 6.78                | 1060                          | -             | -      | -         |
| 1-May-04                               | 42.50                      | 893.79                              | 14.87                               | 1126                    | -                       | -                                      | 7.53            | 7.23                | 1020                          | -             | -      | -         |
| 1-Aug-04                               | 49.26                      | 887.03                              | 13.72                               | 1234                    | -                       | -                                      | 8.07            | 6.98                | 981                           | -             | -      | -         |
| 1-Nov-04                               | 42.81                      | 893.48                              | 11.88                               | 1429                    | -                       | -                                      | 9.06            | 6.92                | 1060                          | 10            | 1 U    | -         |
| 1-Feb-05                               | 33.62                      | 902.67                              | 13.06                               | 1615                    | -                       | -                                      | 7.11            | 7.01                | 1020                          | -             | -      | -         |
| 1-May-05                               | 34.88                      | 901.41                              | 12.91                               | 1459                    | -                       | -                                      | 6.54            | 6.85                | 1000                          | -             | -      | -         |
| 1-Aug-05                               | 43.80                      | 892.49                              | 10.40                               | 1472                    | -                       | -                                      | 10.40           | 6.80                | 1090                          | -             | -      | -         |
| 1-Nov-05                               | 52.80                      | 883.49                              | 10.40                               | 1458                    | -                       | -                                      | 6.02            | 6.64                | 1100                          | 10.3          | 1 U    | -         |
| 1-Feb-06                               | 42.70                      | 893.59                              | 10.40                               | 1343                    | 1.10                    | 48.3                                   | 11.10           | 7.08                | 1100 J                        | -             | -      | -         |
| 1-May-06                               | 37.81                      | 898.48                              | 11.52                               | 1686                    | 1.64                    | 49.2                                   | 10.50           | 6.83                | 1100                          | -             | -      | -         |
| 1-Aug-06                               | 46.11                      | 890.18                              | 14.10                               | 1357                    | 2.33                    | 43.0                                   | 10.70           | 7.11                | 1100                          | -             | -      | -         |
| 1-Nov-06                               | 46.47                      | 889.82                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -      | -         |
| 28-Dec-06                              | 33.20                      | 903.09                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -      | -         |
| 7-Feb-07                               | 34.50                      | 901.79                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -      | -         |
| 7-May-07                               | 36.48                      | 899.81                              | 15.19                               | 1484                    | 0.52                    | -83.4                                  | 6.78            | 7.60                | 1100                          | -             | -      | -         |
| 7-Aug-07                               | 47.57                      | 888.72                              | 11.21                               | 1488                    | 8.80                    | 107.4                                  | 9.53            | 6.51                | 1200                          | -             | -      | -         |
| 27-Nov-07                              | 51.25                      | 885.04                              | 13.60                               | 1483                    | 1.82                    | -129.5                                 | 434.00          | 7.11                | 1000 J                        | 5.72          | 1 U    | -         |
| 8-Feb-08                               | 35.12                      | 901.17                              | 14.71                               | 1489                    | 3.11                    | -                                      | 10.20           | 6.97                | 1100                          | -             | -      | -         |
| 8-Aug-08                               | 46.98                      | 889.31                              | 13.27                               | 1617                    | 2.49                    | 105.3                                  | 5.32            | 6.96                | 1200 J                        | 7.82          | 1 U    | 5570      |
| 1-Nov-08                               | 43.35                      | 892.94                              | 11.17                               | 1096                    | 7.29                    | 127.1                                  | 47.30           | 7.70                | 1100                          | 9.8           | 1 U    | 5610      |
| 11-Feb-09                              | 37.00                      | 899.29                              | 10.28                               | 1112                    | 4.15                    | -                                      | 7.68            | 7.25                | 1100                          | 7.52          | 1 U    | 5560      |
| 9-May-09                               | 36.53                      | 899.76                              | 13.87                               | 1209                    | 2.93                    | 89.0                                   | 5.45            | 7.41                | 990 J                         | 7.57          | 1 U    | 5580      |
| 24-Sep-09                              | 53.61                      | 882.68                              | 12.10                               | 1328                    | 1.98                    | 331.0                                  | 3.26            | 6.92                | 1200                          | 7.9           | 2 U    | 5700      |
| 14-Dec-09                              | 33.72                      | 902.57                              | 10.20                               | 1519                    | 0.55                    | 393.0                                  | 2.82            | 6.99                | 1100                          | 3.4           | 2 U    | 5700      |
| 22-Mar-10                              | 35.11                      | 901.18                              | 10.90                               | 1463                    | -                       | 508.0                                  | 3.95            | 6.94                | 1200                          | 10            | 2 U    | 5600      |
| 15-Jun-10                              | 33.26                      | 903.03                              | 11.00                               | 1485                    | 0.20                    | 210.3                                  | 1.50            | 7.02                | 1100                          | 11            | 2 U    | 5900      |
| 20-Sep-10                              | 45.81                      | 890.48                              | 11.30                               | 1484                    | 0.06                    | 159.7                                  | 0.91            | 6.98                | 1100                          | 9.1           | 0.48 J | 6000      |
| 6-Dec-10                               | 36.20                      | 900.09                              | 10.70                               | 1494                    | 0.08                    | 35.4                                   | 0.24            | 7.21                | 1200                          | 6.8           | 0.48 J | 5200      |
| 28-Mar-11                              | 35.07                      | 901.22                              | 10.70                               | 749                     | 0.08                    | 136.8                                  | 0.16            | 6.88                | 1100                          | 6.8           | 2 U    | 5500      |
| 20-Jun-11                              | 38.53                      | 897.76                              | 11.40                               | 1439                    | 0.08                    | -19.2                                  | 0.21            | 6.99                | 1400                          | 4.6 J         | 2 U    | 5500      |
| 26-Sep-11                              | 50.43                      | 885.86                              | 11.20                               | 1249                    | 0.07                    | 38.5                                   | 0.41            | 7.01                | 1200                          | 4.5 J         | 2 U    | 5700      |
| 13-Dec-11                              | 51.30                      | 884.99                              | 10.40                               | 1308                    | 0.06                    | 50.3                                   | 2.03            | 7.07                | 530                           | 7.6           | 2 U    | 6100      |
| 22-Mar-12                              | 43.75                      | 892.54                              | 10.60                               | 1695                    | 0.08                    | 125.1                                  | 0.28            | 6.99                | 1200                          | 12            | 2 U    | 5700      |
| 18-Jun-12                              | 44.86                      | 891.43                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                               |               |        |           |
| 18-Sep-12                              | 55.74                      | 880.55                              | 12.90                               | 1506                    | 0.05                    | 99.5                                   | 0.36            | 7.08                | 1300                          | 10            | 0.4 U  | 5800      |
| 18-Dec-12                              | 41.94                      | 894.35                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                               |               |        |           |
| 21-Feb-13                              | 37.86                      | 898.43                              | 10.40                               | 1730                    | 0.02                    | 131.5                                  | 0.41            | 7.27                | 1200                          | 13            | 0.4 U  | 6300      |
| 22-May-13                              | 39.34                      | 896.95                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                               |               |        |           |
| 20-Aug-13                              | 49.40                      | 886.89                              | 11.90                               | 1707                    | 0.05                    | -37.6                                  | 0.69            | 7.00                | 1240                          | 10.2          | 0.1 U  | 6000      |
| 19-Nov-13                              | 44.94                      | 891.35                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                               |               |        |           |

**Table A-4a: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-1SDSP  
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) | Arsenic                         | Lead | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                               | 8                             | 2.5                             | -    |           |
| 31-Mar-14                              | 33.31                      | 902.98                              | 11.20                               | 1256                    | 0.01                    | 103.5                                  | 0.27            | 7.00                | 1200                            | 13.1                          | 0.1 U                           | 6580 |           |
| 21-May-14                              | 33.37                      | 902.92                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                                 |                               |                                 |      |           |
| 15-Aug-14                              | 45.31                      | 890.98                              | 13.43                               | 1467                    | 0.71                    | -1.1                                   | 2.32            | 6.79                | 1150                            | 13.4                          | 0.1 U                           | 6100 |           |
| 14-Nov-14                              | 44.83                      | 891.46                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                                 |                               |                                 |      |           |
| 10-Feb-15                              | 35.97                      | 900.32                              | 11.00                               | 1423                    | 0.04                    | -109.4                                 | 2.16            | 7.00                | 1200                            | 13                            | 0.1 U                           | 6260 |           |
| 4-May-15                               | 38.67                      | 897.62                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                                 |                               |                                 |      |           |
| 4-Aug-15                               | 49.21                      | 887.08                              | 12.50                               | 1253                    | 0.04                    | -100.7                                 | 0.26            | 7.07                | 1230                            | 13.9                          | 0.1 U                           | 6070 |           |
| 5-Nov-15                               | 56.85                      | 879.44                              | 11.20                               | 1159                    | 0.02                    | 57.4                                   | 0.91            | 6.75                | 1190                            | 14.9                          | 0.1 U                           | 6990 |           |
| 8-Feb-16                               | 33.02                      | 903.27                              | 11.60                               | 1429                    | 0.00                    | 167.6                                  | 0.10            | 7.05                | 1190                            | 19.4                          | 0.1 U                           | 6730 |           |
| 2-May-16                               | 37.48                      | 898.81                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     |                                 |                               | Monitored Annually <sup>2</sup> |      |           |
| 22-Aug-16                              | 49.78                      | 886.51                              | 12.10                               | 1232                    | 0.06                    | -143.8                                 | 0.77            | 7.00                | Monitored Annually <sup>2</sup> |                               |                                 |      |           |
| 1-Nov-16                               | 47.49                      | 888.80                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     |                                 |                               | Monitored Annually <sup>2</sup> |      |           |
| 31-Jan-17                              | 35.57                      | 900.72                              | 11.10                               | 1620                    | 0.05                    | -241.6                                 | 0.24            | 6.99                | 1260                            | 21.8                          | 0.1 U                           | 6690 |           |
| 30-May-17                              | 34.70                      | 901.59                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     |                                 |                               | Monitored Annually <sup>2</sup> |      |           |
| 16-Aug-17                              | 44.32                      | 891.97                              | 11.90                               | 1621                    | 0.12                    | -144.5                                 | 0.47            | 6.97                | Monitored Annually <sup>2</sup> |                               |                                 |      |           |
| 9-Nov-17                               | 44.71                      | 891.58                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     |                                 |                               | Monitored Annually <sup>2</sup> |      |           |
| 28-Feb-18                              | 32.04                      | 904.25                              | 10.70                               | 1278                    | 0.16                    | -58.5                                  | 0.11            | 6.82                | 1244                            | 22.4                          | 0.1 U                           | 6530 |           |
| 1-May-18                               | 33.99                      | 902.30                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     |                                 |                               | Monitored Annually <sup>2</sup> |      |           |
| 22-Aug-18                              | 47.95                      | 888.34                              | 11.97                               | 1246                    | 1.17                    | 4.10                                   | 0.17            | 6.88                | Monitored Annually <sup>2</sup> |                               |                                 |      |           |
| 6-Nov-18                               | 52.94                      | 883.35                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     |                                 |                               | Monitored Annually <sup>2</sup> |      |           |
| 12-Mar-19                              | 33.09                      | 903.20                              | 10.40                               | 1157                    | 0.55                    | -23.0                                  | 0.62            | 6.81                | 1200                            | 20.7                          | 0.1 U                           | 951  |           |
| 8-May-19                               | 34.37                      | 901.92                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     |                                 |                               | Monitored Annually <sup>2</sup> |      |           |
| 27-Aug-19                              | 47.88                      | 888.41                              | 12.51                               | 1314                    | 0.15                    | Note 1                                 | 0.39            | 6.80                | Monitored Annually <sup>2</sup> |                               |                                 |      |           |
| 13-Nov-19                              | 47.03                      | 889.26                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     |                                 |                               | Monitored Annually <sup>2</sup> |      |           |
| 14-Feb-20                              | 31.08                      | 905.21                              | 10.60                               | 1249                    | 0.38                    | -82.2                                  | 0.10            | 6.61                | 1230                            | 18.3                          | 0.1 U                           | 6360 |           |
| 13-Aug-20                              | 43.99                      | 892.30                              | 11.70                               | 1176                    | 0.56                    | -67.7                                  | 0.18            | 6.78                | Monitored Annually <sup>2</sup> |                               |                                 |      |           |
| 9-Dec-20                               | 39.67                      | 896.62                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     |                                 |                               | Monitored Annually <sup>2</sup> |      |           |
| 5-Mar-21                               | 34.96                      | 901.33                              | 11.00                               | 1257                    | 0.26                    | -38                                    | 0.24            | 6.95                | 1200                            | 19.5                          | 0.1 U                           | 6150 |           |
| 10-Jun-21                              | 42.65                      | 893.64                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     |                                 |                               | Monitored Annually <sup>2</sup> |      |           |
| 18-Oct-21                              | 55.97                      | 880.32                              | 11.7                                | 858                     | 0.86                    | -92.3                                  | 0.48            | 6.84                | Monitored Annually <sup>2</sup> |                               |                                 |      |           |
| 5-Jan-22                               | 33.64                      | 902.65                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     |                                 |                               | Monitored Annually <sup>2</sup> |      |           |
| 18-Mar-22                              | 38.2                       | 898.09                              | 11.5                                | 1096                    | 1.17                    | -40.8                                  | 0.31            | 7.18                | 1260                            | 16.6                          | 0.1 U                           | 6400 |           |
| 21-Jun-22                              | 35.46                      | 900.83                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     |                                 |                               | Monitored Annually <sup>2</sup> |      |           |
| 13-Sep-22                              | 44.37                      | 891.92                              | 11.8                                | 1122                    | 2.97                    | 6.4                                    | 4.73            | 6.42                | Monitored Annually <sup>2</sup> |                               |                                 |      |           |
| 12-Dec-22                              | 42.96                      | 893.33                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     |                                 |                               | Monitored Annually <sup>2</sup> |      |           |
| 16-Mar-23                              | 34.48                      | 901.81                              | 11.5                                | 1633                    | 0.21                    | -28.9                                  | 0.42            | 6.88                | 1200                            | 16.5                          | 0.1 U                           | 5580 |           |
| 26-Jun-23                              | 39.87                      | 896.42                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     |                                 |                               | Monitored Annually <sup>2</sup> |      |           |
| 5-Sep-23                               | 47.77                      | 888.52                              | 11.9                                | 1673                    | 3.02                    | -1.4                                   | 3.03            | 6.99                | Monitored Annually <sup>2</sup> |                               |                                 |      |           |
| 12-Dec-23                              | 37.23                      | 899.06                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     |                                 |                               | Monitored Annually <sup>2</sup> |      |           |

**Table A-4a: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-1SDSP  
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)   | Arsenic       | Lead    | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                               | 8             | 2.5     | -         |
| 8-Mar-24                               | 33.71                      | 902.58                              | 11                                  | 1032                    | 4.94                    | 4.9                                    | 2.34            | 6.81                | 1270                            | 16.5          | 0.103 U | 5590      |
| 19-Jun-24                              | 36.7                       | 899.59                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |         |           |
| 18-Sep-24                              | 46.01                      | 890.28                              | 11.7                                | 1523                    | 8.07                    | 155.4                                  | 1.01            | 6.54                | Monitored Annually <sup>2</sup> |               |         |           |
| 9-Dec-24                               | -                          | -                                   | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |         |           |
| 25-Mar-25                              | 32.84                      | 903.45                              | 12.6                                | 1651                    | 0.92                    | 69.1                                   | 1.97            | 6.81                | 1130                            | 15.2          | 0.2 U   | 5430      |
| 11-Jun-25                              | -                          | -                                   | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |         |           |

Notes:

Top of casing elevation (feet NAVD88): 936.29

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 Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

1 Reduction in monitoring frequency approved by Public Health – Seattle and King County in a letter to Golder Associates Inc. dated May 16, 2012

2 Reduction in monitoring frequency approved by Public Health – Seattle and King County in a letter to Golder Associates Inc. dated April 7, 2016. Field parameters collected semi-annually, analytical samples collected annually. Sampling schedule follows the Golder 2021 RI Work Plan starting in Q3 2021.

a Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

U Data validation code; not detected at the Reporting Limit (RL)

J Data validation code; estimated value

°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-4b: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-1DDSP  
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 (umhos/cm) | Dissolved Oxygen (mg/L) | Oxidation Reduction Potential (Rel mV) | Turbidity (NTU) | pH (standard units) | Total Dissolved Solids (mg/L) | Arsenic       | Lead   | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 8             | 2.5    | -         |
| 2-Dec-02                               | 87.28                      | 848.09                              | 11.1                                | 557                     | -                       | -                                      | -               | 7.72                | 540                           | 32.7          | 0.5 U  | -         |
| 3-Mar-03                               | 48.63                      | 886.74                              | 12.0                                | 623                     | -                       | -                                      | 24.00           | 7.48                | 370                           | 7.08          | -      | -         |
| 3-May-03                               | 47.12                      | 888.25                              | 12.1                                | 548                     | -                       | -                                      | 264.00          | 7.54                | 440                           | -             | -      | -         |
| 3-Aug-03                               | 64.60                      | 870.77                              | 23.23                               | 675                     | -                       | -                                      | 195.00          | 7.36                | 450                           | -             | -      | -         |
| 1-Nov-03                               | 66.14                      | 869.23                              | 11.0                                | 400                     | -                       | -                                      | 15.50           | 8.10                | 437                           | 6.03          | 0.5 U  | -         |
| 1-Feb-04                               | 46.55                      | 888.82                              | 10.68                               | 455                     | -                       | -                                      | 8.70            | 7.15                | 440                           | -             | -      | -         |
| 1-May-04                               | 55.82                      | 879.55                              | 13.61                               | 508                     | -                       | -                                      | 12.40           | 7.58                | 429                           | -             | -      | -         |
| 1-Aug-04                               | 61.89                      | 873.48                              | 13.15                               | 585                     | -                       | -                                      | 15.70           | 7.47                | 399                           | -             | -      | -         |
| 1-Nov-04                               | 56.83                      | 878.54                              | 10.94                               | 655                     | -                       | -                                      | 9.40            | 7.22                | 477                           | 3.08          | 1 U    | -         |
| 1-Feb-05                               | 47.31                      | 888.06                              | 12.80                               | 778                     | -                       | -                                      | 8.39            | 7.35                | 451                           | -             | -      | -         |
| 1-May-05                               | 48.60                      | 886.77                              | 12.86                               | 743                     | -                       | -                                      | 4.22            | 7.25                | 432                           | -             | -      | -         |
| 1-Aug-05                               | 56.80                      | 878.57                              | 14.17                               | 746                     | -                       | -                                      | 3.10            | 6.99                | 518                           | -             | -      | -         |
| 1-Nov-05                               | 66.85                      | 868.52                              | 10.20                               | 702                     | -                       | -                                      | 5.36            | 7.11                | 470                           | 3.6           | 1 U    | -         |
| 1-Feb-06                               | 47.88                      | 887.49                              | 10.11                               | 648                     | 0.71                    | 109.4                                  | 2.72            | 7.53                | 450 J                         | -             | -      | -         |
| 1-May-06                               | 52.23                      | 883.14                              | 12.22                               | 686                     | 1.82                    | 43.7                                   | 3.68            | 7.43                | 450                           | -             | -      | -         |
| 1-Aug-06                               | 59.41                      | 875.96                              | 12.28                               | 665                     | 1.06                    | -74.0                                  | 14.20           | 7.36                | 480                           | -             | -      | -         |
| 1-Nov-06                               | 61.84                      | 873.53                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -      | -         |
| 28-Dec-06                              | 48.26                      | 887.11                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -      | -         |
| 7-Feb-07                               | 49.64                      | 885.73                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -      | -         |
| 7-May-07                               | 53.24                      | 882.13                              | 12.44                               | 722                     | 0.74                    | -150.8                                 | 6.06            | 7.94                | 470                           | -             | -      | -         |
| 7-Aug-07                               | 60.45                      | 874.92                              | 13.76                               | 712                     | 0.79                    | -50.0                                  | 4.53            | 7.28                | 500                           | -             | -      | -         |
| 27-Nov-07                              | 63.40                      | 871.97                              | 14.41                               | 711                     | 0.45                    | -194.4                                 | 7.07            | 7.34                | 470 J                         | 2.89          | 1 U    | -         |
| 8-Feb-08                               | 49.23                      | 886.14                              | 14.07                               | 737                     | 0.62                    | -                                      | 6.28            | 7.46                | 500                           | -             | -      | -         |
| 8-Aug-08                               | 59.69                      | 875.68                              | 13.73                               | 812                     | 0.67                    | -24.7                                  | 9.33            | 7.37                | 560 J                         | 2.26          | 1 U    | 3000 U    |
| 1-Nov-08                               | 57.38                      | 877.99                              | 14.75                               | 619                     | 0.89                    | -42.5                                  | 4.40            | 7.45                | 480                           | 2.22          | 1 U    | 3000 U    |
| 10-Feb-09                              | 50.92                      | 884.45                              | 6.50                                | 618                     | 10.51                   | -                                      | 655.00          | 7.69 J              | 530                           | 2.19          | 1 U    | 3010      |
| 9-May-09                               | 51.25                      | 884.12                              | 13.95                               | 637                     | 2.21                    | 39.3                                   | 5.87            | 7.74                | 540 J                         | 2.42          | 1 U    | 3000 U    |
| 25-Sep-09                              | 65.46                      | 869.91                              | 13.20                               | 678                     | 2.25                    | 331.8                                  | 2.29            | 7.15                | 570                           | 1.8 J         | 2 U    | 3300      |
| 17-Dec-09                              | 49.40                      | 885.97                              | 10.60                               | 794                     | 0.99                    | 224.0                                  | 3.97            | 7.58                | 440                           | 0.7 J         | 2 U    | 3200 J    |
| 22-Mar-10                              | 49.18                      | 886.19                              | 10.40                               | 762                     | -                       | 245.0                                  | 0.74            | 7.39                | 580                           | 4.5           | 2 U    | 3200 J    |
| 15-Jun-10                              | 46.88                      | 888.49                              | 12.10                               | 762                     | 0.05                    | 142.1                                  | 0.47            | 7.50                | 420                           | 5.5           | 2 U    | 3300      |
| 20-Sep-10                              | 58.97                      | 876.40                              | 11.40                               | 765                     | 0.07                    | 89.6                                   | 0.47            | 7.47                | 520                           | 4.7           | 0.27 J | 3400      |
| 6-Dec-10                               | 50.66                      | 884.71                              | 10.20                               | 763                     | 0.19                    | 58.9                                   | 0.32            | 7.72                | 550                           | 1.3 J         | 2 U    | 3200 J    |
| 28-Mar-11                              | 48.89                      | 886.48                              | 10.50                               | 376                     | 0.55                    | 165.0                                  | 0.73            | 7.53                | 470                           | 3.7           | 2 U    | 3000 J    |
| 20-Jun-11                              | 52.13                      | 883.24                              | 13.40                               | 718                     | 0.45                    | -65.1                                  | 0.75            | 7.53                | 600 J                         | 5 U           | 2 U    | 3500      |
| 26-Sep-11                              | 63.02                      | 872.35                              | 11.80                               | 633                     | 1.73                    | -6.0                                   | 1.72            | 7.61                | 560                           | 5 U           | 2 U    | 3500      |
| 13-Dec-11                              | 63.88                      | 871.49                              | 8.60                                | 678                     | 0.69                    | -24.7                                  | 1.95            | 7.56                | 530                           | 5.7           | 2 U    | 4100      |
| 22-Mar-12                              | 56.96                      | 878.41                              | 5.60                                | 877                     | 1.89                    | -26.6                                  | 0.84            | 7.69                | 540                           | 3.4           | 0.4 U  | 3000 J    |
| 18-Jun-12                              | 58.01                      | 877.36                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                               |               |        |           |
| 18-Sep-12                              | 67.78                      | 867.59                              | 26.30                               | 838                     | 3.62                    | 12.4                                   | 1.27            | 7.70                | 540                           | 3.1           | 0.4 U  | 3100 J    |
| 18-Dec-12                              | 56.10                      | 879.27                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                               |               |        |           |
| 21-Feb-13                              | 51.62                      | 883.75                              | 4.30                                | 895                     | 7.54                    | 31.3                                   | 0.83            | 8.04                | 510                           | 3.6           | 0.4 U  | 3600      |
| 22-May-13                              | 53.14                      | 882.23                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                               |               |        |           |
| 20-Aug-13                              | 62.35                      | 873.02                              | 12.30                               | 526                     | 0.08                    | -60.4                                  | 2.91            | 7.47                | 585                           | 3.2           | 0.1 U  | 3200      |
| 19-Nov-13                              | 58.70                      | 876.67                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                               |               |        |           |

**Table A-4b: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-1DDSP  
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 (umhos/cm) | Dissolved Oxygen (mg/L) | Oxidation Reduction Potential (Rel mV) | Turbidity (NTU) | pH (standard units) | Total Dissolved Solids (mg/L)   | Arsenic       | Lead  | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                               | 8             | 2.5   | -         |
| 31-Mar-14                              | 46.60                      | 888.77                              | 11.10                               | 622                     | 0.04                    | 48.4                                   | 0.45            | 7.52                | 561                             | 1.8           | 0.1 U | 3340      |
| 21-May-14                              | 46.96                      | 888.41                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                                 |               |       |           |
| 15-Aug-14                              | 58.62                      | 876.75                              | 12.48                               | 732                     | 0.90                    | -62.4                                  | 2.04            | 7.16                | 564                             | 2             | 0.2   | 3140      |
| 14-Nov-14                              | 59.59                      | 875.78                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                                 |               |       |           |
| 10-Feb-15                              | 49.61                      | 885.76                              | 10.90                               | 717                     | 0.03                    | -114.4                                 | 1.82            | 7.48                | 551                             | 2.9           | 0.1 U | 3270      |
| 4-May-15                               | 52.25                      | 883.12                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                                 |               |       |           |
| 4-Aug-15                               | 61.71                      | 873.66                              | 12.00                               | 618                     | 0.04                    | -115.0                                 | 0.35            | 7.56                | 552                             | 3             | 0.1 U | 3360      |
| 5-Nov-15                               | 68.72                      | 866.65                              | 11.10                               | 625                     | 0.05                    | 27.5                                   | 1.26            | 7.21                | 603                             | 1.6           | 0.1 U | 3590      |
| 8-Feb-16                               | 46.93                      | 888.44                              | 11.40                               | 794                     | 0.00                    | 155.1                                  | 0.17            | 7.57                | 599                             | 2.1           | 0.1 U | 3800      |
| 2-May-16                               | 50.77                      | 884.60                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 22-Aug-16                              | 62.11                      | 873.26                              | 11.60                               | 770                     | 0.04                    | -251.0                                 | 0.86            | 7.50                | Monitored Annually <sup>2</sup> |               |       |           |
| 1-Nov-16                               | 61.71                      | 873.66                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 31-Jan-17                              | 49.02                      | 886.35                              | 10.60                               | 916                     | 0.13                    | -310.4                                 | 0.35            | 7.47                | 676                             | 1.87          | 0.1 U | 3410      |
| 30-May-17                              | 48.11                      | 887.26                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 16-Aug-17                              | 57.17                      | 878.20                              | 11.80                               | 898                     | 0.12                    | -210.9                                 | 0.22            | 7.42                | Monitored Annually <sup>2</sup> |               |       |           |
| 9-Nov-17                               | 58.71                      | 876.66                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 28-Feb-18                              | 45.21                      | 890.16                              | 10.20                               | 758                     | 0.19                    | -166.6                                 | 0.20            | 7.26                | 694                             | 2.87          | 0.1 U | 3340      |
| 1-May-18                               | 47.40                      | 887.97                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 22-Aug-18                              | 60.25                      | 875.12                              | 11.58                               | 705                     | 2.22                    | -153.0                                 | 0.14            | 7.37                | Monitored Annually <sup>2</sup> |               |       |           |
| 6-Nov-18                               | 65.30                      | 870.07                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 12-Mar-19                              | 46.35                      | 889.02                              | 9.80                                | 707                     | 0.58                    | -119.9                                 | 0.16            | 7.24                | 668                             | 4.96          | 0.1 U | 4210      |
| 8-May-19                               | 47.20                      | 888.17                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 27-Aug-19                              | 59.87                      | 875.50                              | 11.95                               | 762                     | 0.39                    | Note 1                                 | 0.02            | 7.20                | Monitored Annually <sup>2</sup> |               |       |           |
| 13-Nov-19                              | 60.20                      | 875.17                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 14-Feb-20                              | 44.28                      | 891.09                              | 10.30                               | 760                     | 0.30                    | -169.3                                 | 1.09            | 7.11                | 717                             | 4.56          | 0.1 U | 4070      |
| 13-Aug-20                              | 57.57                      | 877.80                              | 11.10                               | 739                     | 0.91                    | -145.8                                 | 0.31            | 7.17                | Monitored Annually <sup>2</sup> |               |       |           |
| 9-Dec-20                               | 54.25                      | 881.12                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 5-Mar-21                               | 48.74                      | 886.63                              | 10.70                               | 724                     | 0.27                    | -222                                   | 0.61            | 7.36                | 592                             | 4.06          | 0.1 U | 3880      |
| 10-Jun-21                              | 59.90                      | 875.47                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 18-Oct-21                              | 67.32                      | 868.05                              | 11.60                               | 561                     | 0.83                    | -149                                   | 0.33            | 7.23                | Monitored Annually <sup>2</sup> |               |       |           |
| 5-Jan-22                               | 47.77                      | 887.60                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 18-Mar-22                              | 48.37                      | 887                                 | 11.3                                | 741                     | 1.2                     | -93.4                                  | 0.39            | 7.52                | 781                             | 4.64          | 0.1 U | 4240      |
| 21-Jun-22                              | 49.68                      | 885.69                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 13-Sep-22                              | 57.47                      | 877.9                               | 11.9                                | 778                     | 2.5                     | -91                                    | 0.45            | 6.84                | Monitored Annually <sup>2</sup> |               |       |           |
| 12-Dec-22                              | 57.68                      | 877.69                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 16-Mar-23                              | 48.34                      | 887.03                              | 11.7                                | 1110                    | 0.29                    | -89.5                                  | 0.38            | 7.19                | 783                             | 5.45          | 0.1 U | 3870      |
| 26-Jun-23                              | 53.28                      | 882.09                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 5-Sep-23                               | 60.34                      | 875.03                              | 11.7                                | 1136                    | 2.65                    | -49.8                                  | 1.99            | 7.38                | Monitored Annually <sup>2</sup> |               |       |           |
| 12-Dec-23                              | 52.09                      | 883.28                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |

**Table A-4b: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-1DDSP  
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)   | Arsenic       | Lead    | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                               | 8             | 2.5     | -         |
| 8-Mar-24                               | 47.77                      | 887.6                               | 11                                  | 746                     | 4.16                    | -99.6                                  | 1.62            | 7.19                | 767                             | 4.74          | 0.132 J | 3990      |
| 19-Jun-24                              | 50.3                       | 885.07                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |         |           |
| 18-Sep-24                              | 58.65                      | 876.72                              | 14.8                                | 1033                    | 8.91                    | 151.5                                  | 2.74            | 7.16                | Monitored Annually <sup>2</sup> |               |         |           |
| 9-Dec-24                               | -                          | -                                   | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |         |           |
| 25-Mar-25                              | 46.73                      | 888.64                              | 15.7                                | 1194                    | 0.65                    | 45.3                                   | 4.53            | 7.1                 | 828                             | 5.1           | 0.232 J | 4280      |
| 11-Jun-25                              | -                          | -                                   | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |         |           |

## Notes:

Top of casing elevation (feet NAVD88): 935.37

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 Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

1 Reduction in monitoring frequency approved by Public Health – Seattle and King County in a letter to Golder Associates Inc. dated May 16, 2012

2 Reduction in monitoring frequency approved by Public Health – Seattle and King County in a letter to Golder Associates Inc. dated April 7, 2016. Field parameters collected semi-annually, analytical samples collected annually. Sampling schedule follows the Golder 2021 RI Work Plan starting in Q3 2021.

a Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

U Data validation code; not detected at the Reporting Limit (RL)

J Data validation code; estimated value

°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-4c: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-5DSP  
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) | Arsenic       | Lead  | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 8             | 2.5   | -         |
| 18-Dec-06                              | 20.56                      | 914.49                              | 11.30                               | 1054                    | 0.59                    | -10.5                                  | 6.76            | 7.01                | 630                           | 4.46          | 1 U   | -         |
| 7-Jan-07                               | 18.48                      | 916.57                              | 12.53                               | 700                     | 0.61                    | -70.6                                  | 33.50           | 7.11                | 540                           | 5.19          | 1 U   | -         |
| 7-Feb-07                               | 21.53                      | 913.52                              | 11.59                               | 557                     | 0.57                    | -59.1                                  | 33.50           | 6.88                | 530                           | 5.19          | 1 U   | -         |
| 7-Mar-07                               | 15.34                      | 919.71                              | 11.71                               | 817                     | 0.45                    | -2.4                                   | 91.20           | 6.52                | 550 J                         | 4.91          | 1 U   | -         |
| 7-Apr-07                               | 17.97                      | 917.08                              | 11.96                               | 909                     | 0.25                    | 0.2                                    | 121.00          | 6.91                | 560                           | 4.75          | 1 U   | -         |
| 1-May-07                               | 26.92                      | 908.13                              | 12.55                               | 880                     | 4.20                    | -14.3                                  | 63.70           | 7.13                | 540                           | 4.9           | 1 U   | -         |
| 7-Jun-07                               | 29.94                      | 905.11                              | 13.12                               | 1016                    | 3.20                    | -5.6                                   | 3.58            | 7.52                | 600 J                         | 4.37          | 1 U   | -         |
| 7-Jul-07                               | 35.27                      | 899.78                              | 13.00                               | 910                     | 1.74                    | -27.4                                  | 9.97            | 7.24                | 550                           | 4.91          | 1 U   | -         |
| 7-Aug-07                               | 39.55                      | 895.50                              | 12.40                               | 1065                    | 0.92                    | -14.6                                  | 4.62            | 6.99                | 590                           | 4.46          | 1 U   | -         |
| 7-Sep-07                               | 44.69                      | 890.36                              | 12.36                               | 696                     | 0.68                    | -33.3                                  | 3.22            | 7.29                | 590                           | 4.92          | 1 U   | -         |
| 26-Oct-07                              | 38.90                      | 896.15                              | 11.46                               | 667                     | 0.56                    | -18.3                                  | 22.60           | 6.98                | 620 J                         | 4.43          | 1 U   | -         |
| 27-Nov-07                              | 38.79                      | 896.26                              | 11.71                               | 914                     | 0.56                    | -46.7                                  | 3.32            | 6.91                | 560 J                         | 4.9           | 1 U   | -         |
| 12-Dec-07                              | 35.33                      | 899.72                              | 12.61                               | 909                     | 0.53                    | -27.3                                  | 4.28            | 6.87                | 820                           | 4.09          | 1 U   | -         |
| 24-Jan-08                              | 28.97                      | 906.08                              | 10.72                               | 872                     | 0.78                    | -49.1                                  | -               | 7.14                | 550                           | 4.72          | 1 U   | -         |
| 8-Feb-08                               | 26.00                      | 909.05                              | 11.25                               | 888                     | 0.44                    | -                                      | 4.18            | 6.85                | 550                           | 4.5           | 1 U   | -         |
| 8-Mar-08                               | 26.03                      | 909.02                              | 10.94                               | 915                     | 0.59                    | -95.6                                  | 3.19            | 6.89                | 550                           | 5.21          | 1 U   | -         |
| 8-Apr-08                               | 25.03                      | 910.02                              | 11.27                               | 931                     | 0.61                    | -20.1                                  | 3.44            | 6.89                | 550 J                         | 4.88          | 1 U   | -         |
| 8-May-08                               | 27.33                      | 907.72                              | 11.68                               | 949                     | 0.68                    | -6.7                                   | 5.37            | 6.62                | 580 J                         | 5.34          | 1 U   | -         |
| 8-Jun-08                               | 28.38                      | 906.67                              | 11.40                               | 948                     | 0.75                    | -50.4                                  | 1.59            | 6.68                | 580 J                         | 4.45          | 1 U   | -         |
| 8-Aug-08                               | 39.80                      | 895.25                              | 11.80                               | 970                     | 0.68                    | -78.6                                  | 1.72            | 6.84                | 610 J                         | 4.64          | 1 U   | 3000 U    |
| 1-Nov-08                               | 33.96                      | 901.09                              | 11.20                               | 682                     | 0.63                    | -115.4                                 | 0.95            | 6.82                | 540                           | 4.8           | 1 U   | 3000 U    |
| 10-Feb-09                              | 25.56                      | 909.49                              | 10.54                               | 671                     | 0.71                    | -71.7                                  | 0.98            | 7.05                | 610                           | 4.73          | 1 U   | 3000 U    |
| 9-May-09                               | 25.79                      | 909.26                              | 11.23                               | 682                     | 0.55                    | -5.8                                   | 0.86            | 7.68                | 560 J                         | 3.4           | 1 U   | 3000 U    |
| 14-Dec-09                              | 30.45                      | 904.60                              | 9.80                                | 901                     | 0.18                    | 200.0                                  | 0.70            | 6.96                | 450                           | 1.7 J         | 2 U   | 2500 J    |
| 23-Mar-10                              | 19.92                      | 915.13                              | 11.30                               | 773                     | 0.25                    | 148.0                                  | 4.40            | 6.86                | 510                           | 5.6           | 2 U   | 2600 J    |
| 15-Jun-10                              | 16.74                      | 918.31                              | 11.00                               | 838                     | 0.10                    | 202.3                                  | 2.89            | 7.01                | 860 J                         | 8.2           | 2 U   | 2800 J    |
| 20-Sep-10                              | 33.31                      | 901.74                              | 11.20                               | 852                     | 0.09                    | 174.7                                  | 0.60            | 6.97                | 540                           | 6.2           | 2 U   | 2700 J    |
| 6-Dec-10                               | 19.81                      | 915.24                              | 10.80                               | 838                     | 0.10                    | 30.5                                   | 0.47            | 7.17                | 530                           | 3.8           | 2 U   | 2300 J    |
| 28-Mar-11                              | 17.16                      | 917.89                              | 10.80                               | 403                     | 0.15                    | 48.4                                   | 1.13            | 6.89                | 500 J                         | 2.3           | 2 U   | 2300 J    |
| 20-Jun-11                              | 18.95                      | 916.10                              | 11.10                               | 775                     | 0.05                    | -29.1                                  | 0.37            | 7.01                | 610 J                         | 5 U           | 2 U   | 2400 J    |
| 26-Sep-11                              | 33.71                      | 901.34                              | 11.20                               | 690                     | 0.03                    | -8.7                                   | 0.54            | 7                   | 560                           | 4.1 J         | 2 U   | 2800 J    |
| 13-Dec-11                              | 24.48                      | 910.57                              | 10.50                               | 730                     | 0.05                    | 93.6                                   | 1.92            | 7.07                | 520                           | 6.1           | 2 U   | 2800 J    |
| 21-Mar-12                              | 15.54                      | 919.51                              | 10.70                               | 883                     | 0.06                    | 106.9                                  | 0.34            | 6.9                 | 500                           | 6.5           | 2 U   | 2400 J    |
| 19-Jun-12                              | 17.01                      | 918.04                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                               |               |       |           |
| 19-Sep-12                              | 29.82                      | 905.23                              | 11.90                               | 877                     | 0.00                    | 122.0                                  | 0.47            | 7.08                | 490                           | 6.9           | 0.4 U | 2600 J    |
| 18-Dec-12                              | 17.39                      | 917.66                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                               |               |       |           |
| 21-Feb-13                              | 18.84                      | 916.21                              | 10.60                               | 875                     | 0.05                    | 103.3                                  | 0.40            | 7.32                | 510                           | 5.9           | 0.4 U | 2600 J    |
| 22-May-13                              | 20.25                      | 914.80                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                               |               |       |           |
| 20-Aug-13                              | 30.15                      | 904.90                              | 12.10                               | 530                     | 0.06                    | -50.3                                  | 0.75            | 6.98                | 510                           | 5.6           | 0.1 U | 2500      |
| 19-Nov-13                              | 22.73                      | 912.32                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                               |               |       |           |
| 31-Mar-14                              | 15.50                      | 919.55                              | 11.30                               | 574                     | 0.06                    | 95.7                                   | 0.53            | 7.15                | 447                           | 5.6           | 0.1 U | 2720      |
| 21-May-14                              | 14.83                      | 920.22                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                               |               |       |           |
| 15-Aug-14                              | 25.16                      | 909.89                              | 14.49                               | 741                     | 0.48                    | -24.0                                  | 2.92            | 6.87                | 477                           | 5.9           | 0.1 U | 2550      |
| 14-Nov-14                              | 22.25                      | 912.80                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                               |               |       |           |

**Table A-4c: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-5DSP  
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)   | Arsenic       | Lead  | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                               | 8             | 2.5   | -         |
| 10-Feb-15                              | 15.98                      | 919.07                              | 11.40                               | 693                     | 0.04                    | -117.5                                 | 0.80            | 7.13                | 503                             | 5.9           | 0.1 U | 2560      |
| 4-May-15                               | 20.05                      | 915.00                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     |                                 |               |       |           |
| 4-Aug-15                               | 31.90                      | 903.15                              | 11.90                               | 620                     | 0.16                    | -71.1                                  | 0.47            | 7.13                | 517                             | 6.4           | 0.1 U | 2670      |
| 5-Nov-15                               | 32.00                      | 903.05                              | 11.40                               | 605                     | 0.00                    | 37.5                                   | 1.16            | 6.84                | 511                             | 5.3           | 0.1 U | 3060      |
| 8-Feb-16                               | 17.13                      | 917.92                              | 11.80                               | 720                     | 0.00                    | 160.4                                  | 0.08            | 7.34                | 480                             | 6             | 0.1 U | 3020      |
| 2-May-16                               | 23.31                      | 911.74                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 22-Aug-16                              | 34.07                      | 900.98                              | 12.50                               | 571                     | 0.00                    | -                                      | 0.66            | 7.11                | Monitored Annually <sup>2</sup> |               |       |           |
| 1-Nov-16                               | 26.04                      | 909.01                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 31-Jan-17                              | 19.36                      | 915.69                              | 12.20                               | 808                     | 0.07                    | -219.2                                 | 0.30            | 7.21                | 509                             | 6.76          | 0.1 U | 2840      |
| 30-May-17                              | 17.31                      | 917.74                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 16-Aug-17                              | 28.13                      | 906.92                              | 12.40                               | 826                     | 0.12                    | -71.9                                  | 0.66            | 7.10                | Monitored Annually <sup>2</sup> |               |       |           |
| 9-Nov-17                               | 27.17                      | 907.88                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 28-Feb-18                              | 16.55                      | 918.50                              | 10.90                               | 657                     | 0.15                    | -97.6                                  | 0.35            | 7.02                | 528                             | 5.39          | 0.1 U | 2550      |
| 1-May-18                               | 17.69                      | 917.36                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 22-Aug-18                              | 32.63                      | 902.42                              | 12.46                               | 655                     | 0.81                    | -46.4                                  | 0.26            | 7.01                | Monitored Annually <sup>2</sup> |               |       |           |
| 6-Nov-18                               | 32.44                      | 902.61                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 12-Mar-19                              | 18.84                      | 916.21                              | 10.90                               | 597                     | 0.56                    | -28.1                                  | 0.86            | 6.96                | 512                             | 4.51          | 0.1 U | 2890      |
| 8-May-19                               | 19.75                      | 915.30                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 27-Aug-19                              | 33.26                      | 901.79                              | 13.08                               | 688                     | 0.26                    | Note 1                                 | 0.02            | 6.89                | Monitored Annually <sup>2</sup> |               |       |           |
| 13-Nov-19                              | 33.03                      | 902.02                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 14-Feb-20                              | 16.70                      | 918.35                              | 10.90                               | 626                     | 0.34                    | -99.8                                  | 0.33            | 6.88                | 524                             | 4.31          | 0.1 U | 2650      |
| 13-Aug-20                              | 27.37                      | 907.68                              | 11.80                               | 619                     | 0.55                    | -70.6                                  | 0.40            | 6.89                | Monitored Annually <sup>2</sup> |               |       |           |
| 9-Dec-20                               | 24.68                      | 910.37                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 5-Mar-21                               | 16.91                      | 918.14                              | 11.30                               | 641                     | 0.19                    | -77.0                                  | 0.45            | 7.09                | 473                             | 4.84          | 0.1 U | 2450      |
| 10-Jun-21                              | 24.68                      | 910.37                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 18-Oct-21                              | 29.11                      | 905.94                              | 11.9                                | 440.1                   | 0.87                    | -86.2                                  | 0.35            | 6.96                | Monitored Annually <sup>2</sup> |               |       |           |
| 5-Jan-22                               | 16.88                      | 918.17                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 21-Mar-22                              | 17.14                      | 917.91                              | 11.3                                | 601                     | 1.28                    | -42.9                                  | 0.82            | 6.26                | 513                             | 4.79          | 0.1 U | 2560      |
| 21-Jun-22                              | 17.25                      | 917.8                               | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 13-Sep-22                              | 27.19                      | 907.86                              | 12.3                                | 606                     | 2.54                    | -3.7                                   | 1.49            | 6.74                | Monitored Annually <sup>2</sup> |               |       |           |
| 12-Dec-22                              | 24.31                      | 910.74                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 16-Mar-23                              | 18.62                      | 916.43                              | 11.7                                | 846                     | 0.21                    | -19.7                                  | 0.41            | 7.03                | 497                             | 4.56          | 0.1 U | 2570      |
| 26-Jun-23                              | 22.23                      | 912.82                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 7-Sep-23                               | 28.89                      | 906.16                              | 13.7                                | 904                     | 1.36                    | -54.9                                  | 0.76            | 7.03                | Monitored Annually <sup>2</sup> |               |       |           |
| 12-Dec-23                              | 20.99                      | 914.06                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |

**Table A-4c: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-5DSP  
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)   | Arsenic       | Lead    | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                               | 8             | 2.5     | -         |
| 8-Mar-24                               | 17.79                      | 917.26                              | 11.1                                | 711                     | 4.7                     | 10.8                                   | 0.35            | 6.97                | 500                             | 4.95          | 0.103 U | 2400      |
| 19-Jun-24                              | 18.95                      | 916.1                               | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |         |           |
| 18-Sep-24                              | 27.07                      | 907.98                              | 13                                  | 778                     | 7.82                    | 143.3                                  | 2.96            | 7.09                | Monitored Annually <sup>2</sup> |               |         |           |
| 9-Dec-24                               | -                          | -                                   | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |         |           |
| 25-Mar-25                              | 17.73                      | 917.32                              | 14.8                                | 890                     | 1.2                     | 31.5                                   | 3.2             | 7                   | 502                             | 5.43          | 0.2 U   | 2700      |
| 11-Jun-25                              | -                          | -                                   | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |         |           |

## Notes:

Top of casing elevation (feet NAVD88): 935.05

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 Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

1 Reduction in monitoring frequency approved by Public Health – Seattle and King County in a letter to Golder Associates Inc. dated May 16, 2012

2 Reduction in monitoring frequency approved by Public Health – Seattle and King County in a letter to Golder Associates Inc. dated April 7, 2016. Field parameters collected semi-annually, analytical samples collected annually. Sampling schedule follows the Golder 2021 RI Work Plan starting in Q3 2021.

a Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

U Data validation code; not detected at the Reporting Limit (RL)

J Data validation code; estimated value

°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-4d: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-6DSP  
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 (umhos/cm) | Dissolved Oxygen (mg/L) | Oxidation Reduction Potential (Rel mV) | Turbidity (NTU) | pH (standard units) | Total Dissolved Solids (mg/L) | Arsenic       | Lead  | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 8             | 2.5   | -         |
| 18-Dec-06                              | 8.13                       | 897.82                              | 9.93             | 525                     | 0.54                    | -54.5                                  | 0.61            | 7.78                | 300                           | 5.37          | 1 U   | -         |
| 7-Feb-07                               | 9.40                       | 896.55                              | 11.79            | 479                     | 1.19                    | -30.0                                  | 7.40            | 7.41                | 330                           | 6.01          | 1 U   | -         |
| 7-May-07                               | 10.73                      | 895.22                              | 12.26            | 729                     | 2.83                    | -103.6                                 | 16.40           | 7.63                | 480                           | 10.1          | 1 U   | -         |
| 7-Aug-07                               | 15.14                      | 890.81                              | 11.42            | 882                     | 0.75                    | -11.5                                  | 1.82            | 7.10                | 470                           | 3.25          | 1 U   | -         |
| 27-Nov-07                              | 16.16                      | 889.79                              | 10.98            | 748                     | 0.37                    | -47.9                                  | 0.83            | 6.99                | 440 J                         | 2.82          | 1 U   | -         |
| 8-Feb-08                               | 9.66                       | 896.29                              | 11.01            | 645                     | 0.31                    | -                                      | 0.90            | 7.05                | 380                           | 2.68          | 1 U   | -         |
| 8-May-08                               | 10.34                      | 895.61                              | 11.27            | 665                     | 0.64                    | 13.4                                   | 1.52            | 6.93                | 380 J                         | 2.40          | 1 U   | -         |
| 8-Aug-08                               | 14.17                      | 891.78                              | 11.23            | 683                     | 0.72                    | -8.2                                   | 2.49            | 7.05                | 390 J                         | 2.18          | 1 U   | 3000 U    |
| 1-Nov-08                               | 12.98                      | 892.97                              | 10.61            | 488                     | 0.60                    | -45.6                                  | 1.35            | 6.80                | 380                           | 2.04          | 1 U   | 3000 U    |
| 10-Feb-09                              | 9.64                       | 896.31                              | 10.32            | 398                     | 0.52                    | -57.0                                  | 1.20            | 7.31                | 350                           | 2.00          | 1 U   | 3000 U    |
| 9-May-09                               | 9.91                       | 896.04                              | 10.50            | 405                     | 0.73                    | -4.0                                   | 1.26            | 7.77                | 320 J                         | 1.69          | 1 U   | 3000 U    |
| 23-Sep-09                              | 17.16                      | 888.79                              | 12.50            | 541                     | 0.25                    | 216.2                                  | 5.38            | 7.14                | 400 J                         | 0.91 J        | 2 U   | 1300 J    |
| 14-Dec-09                              | 12.73                      | 893.22                              | 9.10             | 580                     | 0.47                    | 231.0                                  | 2.70            | 7.23                | 270                           | 2 U           | 2 U   | 1300 J    |
| 22-Mar-10                              | 9.62                       | 896.33                              | 10.90            | 504                     | -                       | 321.7                                  | 3.50            | 7.22                | 320                           | 2.00          | 2 U   | 1200 J    |
| 15-Jun-10                              | 8.30                       | 897.65                              | 11.00            | 495                     | 0.11                    | 205.1                                  | 1.41            | 7.29                | 320                           | 4.20          | 2 U   | 1300 J    |
| 20-Sep-10                              | 14.90                      | 891.05                              | 10.90            | 560                     | 0.10                    | 187.2                                  | 0.28            | 7.29                | 270                           | 3.00          | 2 U   | 1400 J    |
| 6-Dec-10                               | 10.47                      | 895.48                              | 10.50            | 515                     | 0.12                    | 87.8                                   | 0.14            | 7.47                | 300                           | 2 U           | 2 U   | 1100 J    |
| 28-Mar-11                              | 8.71                       | 897.24                              | 10.30            | 241                     | 0.19                    | 58.9                                   | 1.86            | 7.19                | 300                           | 2 U           | 2 U   | 1100 J    |
| 20-Jun-11                              | 9.87                       | 896.08                              | 10.80            | 477                     | 0.06                    | 141.2                                  | 0.20            | 7.27                | 340                           | 5 U           | 2 U   | 1100 J    |
| 26-Sep-11                              | 14.82                      | 891.13                              | 10.80            | 467                     | 0.05                    | 114.8                                  | 0.92            | 7.26                | 380                           | 5 U           | 2 U   | 1500 J    |
| 13-Dec-11                              | 13.02                      | 892.93                              | 10.20            | 491                     | 0.06                    | 131.3                                  | 1.69            | 7.29                | 340                           | 5 U           | 2 U   | 1600 J    |
| 21-Mar-12                              | 8.13                       | 897.82                              | 10.20            | 550                     | 0.09                    | 160.0                                  | 0.07            | 7.14                | 310                           | 2.50          | 0.4 U | 1200 J    |
| 18-Jun-12                              | -                          | -                                   | -                | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 18-Dec-12                              | 8.16                       | 897.79                              | -                | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 21-Feb-13                              | 8.45                       | 897.50                              | 10.10            | 594                     | 0.02                    | 152.7                                  | 0.28            | 7.49                | 300                           | 1.90          | 0.4 U | 1300 J    |
| 22-May-13                              | 9.36                       | 896.59                              | -                | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 20-Aug-13                              | 13.28                      | 892.67                              | 11.70            | 478                     | 0.01                    | -43.8                                  | 0.54            | 7.22                | 349 J                         | 1.60          | 0.1 U | 1300      |
| 19-Nov-13                              | 9.71                       | 896.24                              | -                | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 31-Mar-14                              | 8.42                       | 897.53                              | 10.70            | 455                     | 0.06                    | 166.1                                  | 0.27            | 7.35                | 315                           | 1.40          | 0.1 U | 1290      |
| 21-May-14                              | 5.99                       | 899.96                              | -                | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 14-Aug-14                              | 12.03                      | 893.92                              | 13.45            | 512                     | 0.56                    | -21.4                                  | 1.99            | 6.95                | 317                           | 1.70          | 0.1 U | 1270      |
| 14-Nov-14                              | 10.68                      | 895.27                              | -                | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 10-Feb-15                              | 7.39                       | 898.56                              | 10.90            | 482                     | 0.03                    | -86.2                                  | 0.59            | 7.32                | 337                           | 1.40          | 0.1 U | 1230      |
| 4-May-15                               | 9.17                       | 896.78                              | -                | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 4-Aug-15                               | 13.64                      | 892.31                              | 12.40            | 449                     | 0.18                    | -81.7                                  | 0.27            | 7.33                | 385                           | 1.70          | 0.1 U | 1280      |
| 5-Nov-15                               | 13.98                      | 891.97                              | 11.50            | 435                     | 2.23                    | 85.2                                   | 1.09            | 7.04                | 354                           | 1.30          | 0.1 U | 1470      |
| 8-Feb-16                               | 6.74                       | 899.21                              | 11.50            | 495                     | 0.03                    | 187.2                                  | 0.25            | 7.39                | 297                           | 1.40          | 0.1 U | 1350      |
| 2-May-16                               | 8.64                       | 897.31                              | -                | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 22-Aug-16                              | 13.27                      | 892.68                              | 12.20            | 559                     | 0.03                    | -52.7                                  | 0.80            | 7.28                | -                             | -             | -     | -         |
| 1-Nov-16                               | 11.36                      | 894.59                              | -                | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 31-Jan-17                              | 7.91                       | 898.04                              | 10.90            | 539                     | 0.08                    | 124.4                                  | 0.18            | 7.31                | 321                           | 1.48          | 0.1 U | 1300      |
| 30-May-17                              | 2.65                       | 903.30                              | -                | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 16-Aug-17                              | 12.08                      | 893.87                              | 12.10            | 573                     | 0.12                    | -46.9                                  | 1.39            | 7.26                | -                             | -             | -     | -         |
| 9-Nov-17                               | 11.70                      | 894.25                              | -                | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |

**Table A-4d: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-6DSP  
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)   | Arsenic       | Lead  | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                                            | -                                   | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                               | 8             | 2.5   | -         |
| 28-Feb-18                              | 6.50                                         | 899.45                              | 11.00                               | 423                     | 0.19                    | -61.0                                  | 0.18            | 7.12                | 138                             | 1.56          | 0.1 U | 1200      |
| 1-May-18                               | 6.80                                         | 899.15                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 22-Aug-18                              | 13.47                                        | 892.48                              | 11.61                               | 441                     | 7.44                    | 26.6                                   | 0.21            | 7.11                | Monitored Annually <sup>2</sup> |               |       |           |
| 6-Nov-18                               | 13.96                                        | 891.99                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 12-Mar-19                              | 7.30                                         | 898.65                              | 10.30                               | 363                     | 0.56                    | -25.1                                  | 0.27            | 7.16                | 294                             | 1.47          | 0.1 U | 1340      |
| 8-May-19                               | 7.77                                         | 898.18                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 27-Aug-19                              | 13.16                                        | 892.79                              | 12.19                               | 454                     | 0.45                    | Note 1                                 | 0.02            | 7.05                | Monitored Annually <sup>2</sup> |               |       |           |
| 13-Nov-19                              | 26.35                                        | 894.30                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 13-Feb-20                              | 20.79                                        | 899.86                              | 10.60                               | 387                     | 0.39                    | -76.5                                  | 1.05            | 7.13                | 313                             | 1.40          | 0.1 U | 1330      |
| 13-Aug-20                              | 25.94                                        | 894.71                              | 11.70                               | 403                     | 0.65                    | -64.3                                  | 0.60            | 7.07                | Monitored Annually <sup>2</sup> |               |       |           |
| 9-Dec-20                               | 24.06                                        | 896.59                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 4-Mar-21                               | 21.56                                        | 899.09                              | 10.80                               | 363                     | 0.16                    | -9.0                                   | 1.29            | 7.30                | 280                             | 1.10          | 0.1 U | 1240      |
| 10-Jun-21                              | 24.55                                        | 896.10                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 18-Oct-21                              | 28.08                                        | 892.57                              | 11.6                                | 273.8                   | 0.96                    | -73.8                                  | 1.38            | 7.15                | Monitored Annually <sup>2</sup> |               |       |           |
| 5-Jan-22                               | 21.36                                        | 899.29                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 21-Mar-22                              | 20.7                                         | 899.95                              | 10.9                                | 348.2                   | 1.41                    | 102.1                                  | 1.4             | 6.42                | 297                             | 1.06          | 0.1 U | 1090      |
| 21-Jun-22                              | 21.51                                        | 899.14                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 13-Sep-22                              | Well Damaged - Unable to Sample <sup>3</sup> |                                     |                                     |                         |                         |                                        |                 |                     |                                 |               |       |           |
| 12-Dec-22                              | Well Damaged - Unable to Sample <sup>3</sup> |                                     |                                     |                         |                         |                                        |                 |                     |                                 |               |       |           |
| 15-Mar-23                              | 15.98                                        | 905.92                              | 10.9                                | 444.1                   | 1.06                    | 16.4                                   | 1.17            | 7.11                | 251                             | 1.05          | 0.1 U | 1110      |
| 26-Jun-23                              | 21.56                                        | 900.24                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |
| 5-Sep-23                               | 24.52                                        | 897.097                             | 11.6                                | 479                     | 2.98                    | 25.8                                   | 0.7             | 7.37                | Monitored Annually <sup>2</sup> |               |       |           |
| 12-Dec-23                              | 19.65                                        | 902.467                             | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |       |           |

**Table A-4d: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-6DSP  
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)   | Arsenic       | Lead    | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                               | 8             | 2.5     | -         |
| 8-Mar-24                               | 18.03                      | 902.467                             | 11                                  | 370.3                   | 4.37                    | 40                                     | 0.34            | 7.24                | 264                             | 0.966         | 0.103 U | 1070      |
| 18-Jun-24                              | 18.60                      | 903.24                              | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |         |           |
| 19-Sep-24                              | 23.55                      | 898.08                              | 11.5                                | 454.9                   | 8.03                    | 136.9                                  | 0.71            | 6.74                | Monitored Annually <sup>2</sup> |               |         |           |
| 9-Dec-24                               | -                          | -                                   | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |         |           |
| 25-Mar-25                              | 17.4                       | 901.27                              | 12.1                                | 456.3                   | 0.76                    | 67.3                                   | 3.19            | 7.15                | 259                             | 1.18          | 0.2 U   | 1110      |
| 11-Jun-25                              | -                          | -                                   | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |         |           |

## Notes:

Top of casing elevation (feet NAVD88) prior to raising casing: 905.95  
 Top of casing elevation (feet NAVD88) after raising casing (post-Q3 2019): 920.65  
 Top of casing elevation (feet NAVD88) repair (post-Q1 2023): 918.67

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 Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

1 Reduction in monitoring frequency approved by Public Health – Seattle and King County in a letter to Golder Associates Inc. dated May 16, 2012

2 Reduction in monitoring frequency approved by Public Health – Seattle and King County in a letter to Golder Associates Inc. dated April 7, 2016. Field parameters collected semi-annually, analytical samples collected annually. Sampling schedule follows the Golder 2021 RI Work Plan starting in Q3 2021.

3 MWB-6DSP was found damaged in July 2022. The well was repaired by late December 2022.

a Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

U Data validation code; not detected at the Reporting Limit (RL)

J Data validation code; estimated value

°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-4e: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Portal Ravensdale Site, Ravensdale, Washington**

| Date Sampled                           | Field Parameters                    |                                  |                  |                         |                         |                                        |                 |                     | Gen. Chem.                    | Metals (ug/L) |       |           |
|----------------------------------------|-------------------------------------|----------------------------------|------------------|-------------------------|-------------------------|----------------------------------------|-----------------|---------------------|-------------------------------|---------------|-------|-----------|
|                                        | Depth to Water (feet btoc)          | Groundwater Elevation (feet msl) | Temperature (°C) | Conductivity (umhos/cm) | Dissolved Oxygen (mg/L) | Oxidation Reduction Potential (Rel mV) | Turbidity (NTU) | pH (standard units) | Total Dissolved Solids (mg/L) | Arsenic       | Lead  | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                                   | -                                | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 8             | 2.5   | -         |
| 1-Mar-02                               | -                                   | -                                | -                | 653                     | -                       | -                                      | -               | 7.29                | 586                           | -             | -     | -         |
| 1-Jun-02                               | -                                   | -                                | 12               | 920                     | -                       | -                                      | -               | 7.20                | 583                           | -             | -     | -         |
| 1-Sep-02                               | -                                   | -                                | 11               | 920                     | -                       | -                                      | -               | 7.10                | 651                           | -             | -     | -         |
| 2-Dec-02                               | -                                   | -                                | 9.1              | 900                     | -                       | -                                      | -               | 7.03                | 570                           | 4.44          | 0.5 U | -         |
| 3-Mar-03                               | -                                   | -                                | 10.1             | 873                     | -                       | -                                      | -               | 7.09                | 530                           | -             | -     | -         |
| 3-May-03                               | -                                   | -                                | 11.2             | 981                     | -                       | -                                      | 10.00           | 6.94                | 590                           | -             | -     | -         |
| 3-Aug-03                               | -                                   | -                                | 12.78            | 1030                    | -                       | -                                      | 13.00           | 7.17                | 630                           | -             | -     | -         |
| 1-Nov-03                               | -                                   | -                                | 10.2             | 569                     | -                       | -                                      | 4.65            | 7.53                | 592                           | 3.33          | 0.5 U | -         |
| 1-Feb-04                               | -                                   | -                                | 9.31             | 568                     | -                       | -                                      | 5.41            | 6.85                | 560                           | -             | -     | -         |
| 1-May-04                               | -                                   | -                                | 10.93            | 952                     | -                       | -                                      | 5.98            | 7.12                | 615                           | -             | -     | -         |
| 1-Aug-04                               | -                                   | -                                | 12.10            | 835                     | -                       | -                                      | 6.29            | 7.11                | 601                           | -             | -     | -         |
| 1-Nov-04                               | -                                   | -                                | 10.20            | 941                     | -                       | -                                      | 6.58            | 6.94                | 656                           | 3.41          | 1 U   | -         |
| 1-Feb-05                               | -                                   | -                                | 10.52            | 889                     | -                       | -                                      | 8.72            | 7.41                | 541                           | -             | -     | -         |
| 1-May-05                               | -                                   | -                                | 13.08            | 953                     | -                       | -                                      | 8.15            | 7.31                | 548                           | -             | -     | -         |
| 1-Aug-05                               | -                                   | -                                | 11.08            | 988                     | -                       | -                                      | 7.40            | 7.23                | 644                           | -             | -     | -         |
| 1-Nov-05                               | -                                   | -                                | 9.53             | 958                     | -                       | -                                      | 8.58            | 7.61                | 640                           | 3.15          | 1 U   | -         |
| 1-Feb-06                               | -                                   | -                                | 9.23             | 669                     | 7.88                    | *                                      | 7.93            | 6.78                | 450 J                         | -             | -     | -         |
| 1-May-06                               | -                                   | -                                | 11.49            | 947                     | 7.60                    | 38.5                                   | 10.40           | 7.01                | 570                           | -             | -     | -         |
| 1-Aug-06                               | -                                   | -                                | 10.52            | 835                     | 8.82                    | -39.8                                  | 14.10           | 7.26                | 640                           | -             | -     | -         |
| 1-Nov-06                               | -                                   | -                                | 9.41             | 740                     | 9.57                    | -32.2                                  | 12.50           | 7.23                | 510                           | 2.45          | 1 U   | -         |
| 7-Feb-07                               | -                                   | -                                | 9.90             | 815                     | 10.99                   | -6.2                                   | 27.80           | 7.74                | 510                           | -             | -     | -         |
| 7-May-07                               | -                                   | -                                | 18.39            | 810                     | 11.05                   | -6.2                                   | 11.80           | 7.61                | 510                           | -             | -     | -         |
| 7-Aug-07                               | -                                   | -                                | 10.42            | 870                     | 8.72                    | -44.9                                  | 25.20           | 7.42                | 560                           | -             | -     | -         |
| 8-Feb-08                               | -                                   | -                                | 10.02            | 708                     | 10.04                   | -                                      | 50.00           | 7.20                | 420                           | -             | -     | -         |
| 8-May-08                               | -                                   | -                                | 10.83            | 815                     | 12.13                   | 0.1                                    | 7.28            | 7.29                | 480 J                         | -             | -     | -         |
| 8-Aug-08                               | -                                   | -                                | 10.63            | 906                     | 11.05                   | -5.6                                   | 11.00           | 7.05                | 560 J                         | 3.69          | 1 U   | 41600     |
| 1-Nov-08                               | -                                   | -                                | 9.79             | 553                     | 10.70                   | -21.1                                  | 16.90           | 7.40                | 460                           | 3.2           | 1 U   | 35500     |
| 11-Feb-09                              | -                                   | -                                | 9.16             | 488                     | 6.99                    | -                                      | 15.40           | 7.52                | 430                           | 2.97          | 1 U   | 34200     |
| 9-May-09                               | -                                   | -                                | 9.64             | 522                     | 10.56                   | 13.4                                   | 9.77            | 7.39                | 440 J                         | 2.01          | 1 U   | 32400     |
| 23-Sep-09                              | -                                   | -                                | 10.70            | 745                     | 8.95                    | 271.7                                  | 14.70           | 6.88                | 570                           | 2 U           | 2 U   | 40000     |
| 15-Dec-09                              | -                                   | -                                | 8.60             | 713                     | 5.20                    | 279.0                                  | 12.50           | 6.67                | 350                           | 2 U           | 2 U   | 30000     |
| 24-Mar-10                              | -                                   | -                                | 9.90             | 681                     | 6.14                    | 370.7                                  | -               | 6.57                | 470                           | 4.2           | 2 U   | 39000     |
| 17-Jun-10                              | -                                   | -                                | 10.00            | 623                     | 9.58                    | -                                      | 26.30           | 7.50                | 380                           | 5.9           | 2 U   | 28000     |
| 22-Sep-10                              | -                                   | -                                | 10.00            | 783                     | 9.02                    | 225.9                                  | 17.40           | 7.00                | 510                           | 5.2           | 2 U   | 42000     |
| 7-Dec-10                               | -                                   | -                                | 9.90             | 662                     | 9.15                    | 186.0                                  | 13.60           | 6.95                | 450                           | 2 U           | 2 U   | 32000     |
| 29-Mar-11                              | -                                   | -                                | 9.90             | 292                     | 5.90                    | 370.8                                  | 4.44            | 6.73                | 360 J                         | 4.1           | 2 U   | 25000     |
| 20-Jun-11                              | -                                   | -                                | 10.50            | 591                     | 6.42                    | 219.1                                  | 4.44            | 7.01                | 420                           | 5 U           | 2 U   | 26000     |
| 26-Sep-11                              | -                                   | -                                | 10.70            | 623                     | 5.76                    | 240.5                                  | 11.90           | 6.83                | 520                           | 5 U           | 2 U   | 39000     |
| 15-Dec-11                              | -                                   | -                                | 8.80             | 472                     | 4.92                    | 310.4                                  | 7.32            | 6.78                | 430                           | 4.7 J         | 2 U   | 32000     |
| 21-Mar-12                              | -                                   | -                                | 8.90             | 611                     | 5.24                    | 313.3                                  | 9.16            | 6.49                | 330                           | 4.8           | 0.4 U | 20000     |
| 18-Jun-12                              | Monitored Semiannually <sup>1</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               |               |       |           |
| 18-Sep-12                              | -                                   | -                                | 14.20            | 652                     | 9.70                    | 148.0                                  | 20.80           | 7.48                | 450                           | 5             | 0.4 U | 29000     |
| 18-Dec-12                              | Monitored Semiannually <sup>1</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               |               |       |           |
| 25-Feb-13                              | -                                   | -                                | 9.20             | 648                     | 10.10                   | 209.6                                  | 4.12            | 7.58                | 300                           | 5             | 0.4 U | 25000     |
| 25-Feb-13                              | Monitored Semiannually <sup>1</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               |               |       |           |
| 21-Feb-13                              | -                                   | -                                | 9.20             | 648                     | 10.10                   | 209.6                                  | 4.12            | 7.58                | 300                           | 5             | 0.4 U | 25000     |
| 22-May-13                              | Monitored Semiannually <sup>1</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               |               |       |           |
| 20-Aug-13                              | -                                   | -                                | 10.80            | 635                     | 9.31                    | 170.1                                  | 8.46            | 7.11                | 458                           | 3.9           | 0.1 U | 32300     |
| 19-Nov-13                              | Monitored Semiannually <sup>1</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               |               |       |           |

**Table A-4e: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Portal Ravensdale Site, Ravensdale, Washington**

| Date Sampled                           | Field Parameters                    |                                  |                  |                         |                         |                                        |                 |                     | Gen. Chem.                    | Metals (ug/L)                   |        |           |
|----------------------------------------|-------------------------------------|----------------------------------|------------------|-------------------------|-------------------------|----------------------------------------|-----------------|---------------------|-------------------------------|---------------------------------|--------|-----------|
|                                        | Depth to Water (feet btoc)          | Groundwater Elevation (feet msl) | Temperature (°C) | Conductivity (umhos/cm) | Dissolved Oxygen (mg/L) | Oxidation Reduction Potential (Rel mV) | Turbidity (NTU) | pH (standard units) | Total Dissolved Solids (mg/L) | Arsenic                         | Lead   | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                                   | -                                | -                | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 8                               | 2.5    | -         |
| 31-Mar-14                              | -                                   | -                                | 10.60            | 448                     | 9.29                    | 213.5                                  | 87.20           | 7.30                | 321                           | 3.7                             | 0.18 J | 21100     |
| 21-May-14                              | Monitored Semiannually <sup>1</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               |                                 |        |           |
| 15-Aug-14                              | -                                   | -                                | 10.01            | 595                     | 10.01                   | -35.2                                  | 6.43            | 6.99                | 427                           | 3.5                             | 0.1 U  | 31500     |
| 14-Nov-14                              | Monitored Semiannually <sup>1</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               |                                 |        |           |
| 10-Feb-15                              | -                                   | -                                | 10.60            | 515                     | 9.88                    | 183.5                                  | 6.84            | 7.26                | 363                           | 2.8                             | 0.07 J | 27200     |
| 4-May-15                               | Monitored Semiannually <sup>1</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               |                                 |        |           |
| 4-Aug-15                               | -                                   | -                                | 10.90            | 554                     | 9.98                    | 95.8                                   | 8.68            | 7.48                | 438                           | 2.6                             | 0.1 U  | 34700     |
| 5-Nov-15                               | -                                   | -                                | 10.30            | 503                     | 10.24                   | 177.6                                  | 13.40           | 7.46                | 449                           | 2.8                             | 0.1 U  | 31800     |
| 8-Feb-16                               | -                                   | -                                | 9.30             | 541                     | 11.30                   | 215.0                                  | 5.12            | 7.30                | 293                           | 3.2                             | 0.1 U  | 23100     |
| -                                      | Monitored Semiannually <sup>2</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               | Monitored Annually <sup>2</sup> |        |           |
| 24-Aug-16                              | -                                   | -                                | 13.40            | 585                     | 9.32                    | 410.0                                  | 8.50            | 7.23                |                               | Monitored Annually <sup>2</sup> |        |           |
| 1-Nov-16                               | -                                   | -                                | 10.90            | 242                     | 9.13                    | 51.4                                   | 7.57            | 7.41                |                               | Monitored Annually <sup>2</sup> |        |           |
| 31-Jan-17                              | -                                   | -                                | 8.90             | 663                     | 10.87                   | -57.4                                  | 6.23            | 7.50                | 3390                          | 3.97                            | 0.1 U  | 29200     |
| -                                      | Monitored Semiannually <sup>2</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               | Monitored Annually <sup>2</sup> |        |           |
| 17-Aug-17                              | -                                   | -                                | 11.40            | 712                     | 9.67                    | -12.4                                  | 9.87            | 7.30                |                               | Monitored Annually <sup>2</sup> |        |           |
| 9-Nov-17                               | Monitored Semiannually <sup>2</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               | Monitored Annually <sup>2</sup> |        |           |
| 27-Feb-18                              | -                                   | -                                | 9.50             | 427                     | 9.94                    | -46.4                                  | 16.70           | 7.72                | 354                           | 4.11                            | 0.1 U  | 20400     |
| 1-May-18                               | Monitored Semiannually <sup>2</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               | Monitored Annually <sup>2</sup> |        |           |
| 21-Aug-18                              | -                                   | -                                | 13.13            | 582                     | 12.46                   | -23.0                                  | 23.10           | 7.24                |                               | Monitored Annually <sup>2</sup> |        |           |
| 6-Nov-18                               | Monitored Semiannually <sup>2</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               | Monitored Annually <sup>2</sup> |        |           |
| 12-Mar-19                              | -                                   | -                                | 8.00             | 406                     | 11.35                   | -2.8                                   | 10.70           | 7.97                | 388                           | 1.56                            | 0.1 U  | 24700     |
| 8-May-19                               | Monitored Semiannually <sup>2</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               | Monitored Annually <sup>2</sup> |        |           |
| 27-Aug-19                              | -                                   | -                                | 10.55            | 576                     | 11.80                   | Note 1                                 | 154.00          | 6.78                |                               | Monitored Annually <sup>2</sup> |        |           |
| 13-Nov-19                              | Monitored Semiannually <sup>2</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               | Monitored Annually <sup>2</sup> |        |           |
| 13-Feb-20                              | -                                   | -                                | 9.20             | 382                     | 9.19                    | -1.3                                   | 13.40           | 6.93                | 259                           | 3.65                            | 0.1 U  | 16700     |
| 13-Aug-20                              | -                                   | -                                | 10.10            | 569                     | 10.01                   | -27.0                                  | 12.20           | 7.12                |                               | Monitored Annually <sup>2</sup> |        |           |
| 9-Dec-20                               | Monitored Semiannually <sup>2</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               | Monitored Annually <sup>2</sup> |        |           |
| 4-Mar-21                               | -                                   | -                                | 9.30             | 416                     | 5.80                    | 33.0                                   | 17.1            | 6.89                | 364                           | 4.14                            | 0.1 U  | 20000     |
| 10-Jun-21                              | Monitored Semiannually <sup>2</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               | Monitored Annually <sup>2</sup> |        |           |
| 18-Oct-21                              | -                                   | -                                | 10.9             | 386.7                   | 5.11                    | -28.4                                  | 86.1            | 6.45                |                               | Monitored Annually <sup>2</sup> |        |           |
| 5-Jan-22                               | Monitored Semiannually <sup>2</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               | Monitored Annually <sup>2</sup> |        |           |
| 16-Mar-22                              | -                                   | -                                | 12               | 402.9                   | 6.78                    | 70.7                                   | 19.8            | 5.81                | 348                           | 5.32                            | 0.1 U  | 18800     |
| 21-Jun-22                              | Monitored Semiannually <sup>2</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               | Monitored Annually <sup>2</sup> |        |           |
| 14-Sep-22                              | -                                   | -                                | 12               | 521                     | 7.29                    | 39.1                                   | 93.8            | 6.7                 |                               | Monitored Annually <sup>2</sup> |        |           |
| 14-Dec-22                              | Monitored Semiannually <sup>2</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               | Monitored Annually <sup>2</sup> |        |           |
| 16-Mar-23                              | -                                   | -                                | 10.8             | 667.5                   | 6.16                    | 76.1                                   | 8.99            | 6.86                | 383                           | 5.08                            | 0.1 U  | 27100     |
| 26-Jun-23                              | Monitored Semiannually <sup>2</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               | Monitored Annually <sup>2</sup> |        |           |
| 7-Sep-23                               | -                                   | -                                | 10.5             | 769                     | 7.66                    | -33.9                                  | 6.94            | 6.79                |                               | Monitored Annually <sup>2</sup> |        |           |
| 15-Dec-23                              | Monitored Semiannually <sup>2</sup> |                                  |                  |                         |                         |                                        |                 |                     |                               | Monitored Annually <sup>2</sup> |        |           |

**Table A-4e: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Portal Ravensdale Site, Ravensdale, Washington**

| Date Sampled                           | Field Parameters           |                                  |                                     |                         |                         |                                        |                 |                     | Gen. Chem.                      | Metals (ug/L) |         |           |
|----------------------------------------|----------------------------|----------------------------------|-------------------------------------|-------------------------|-------------------------|----------------------------------------|-----------------|---------------------|---------------------------------|---------------|---------|-----------|
|                                        | Depth to Water (feet btoc) | Groundwater Elevation (feet msl) | Temperature (°C)                    | Conductivity (µmhos/cm) | Dissolved Oxygen (mg/L) | Oxidation Reduction Potential (Rel mV) | Turbidity (NTU) | pH (standard units) | Total Dissolved Solids (mg/L)   | Arsenic       | Lead    | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                               | 8             | 2.5     | -         |
| 8-Mar-24                               | -                          | -                                | 10.5                                | 470.6                   | 8.59                    | 84                                     | 7.64            | 6.83                | 359                             | 5.51          | 0.103 U | 22800     |
| 19-Jun-24                              | -                          | -                                | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |         |           |
| 17-Sep-24                              | -                          | -                                | 10.6                                | 714                     | 8.59                    | 187.8                                  | 55.5            | 7.18                | Monitored Annually <sup>2</sup> |               |         |           |
| 9-Dec-24                               | -                          | -                                | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |         |           |
| 26-Mar-25                              | -                          | -                                | 12.2                                | 735                     | 5.65                    | 124.8                                  | 54              | 6.38                | 369                             | 5.11          | 0.2 U   | 23800     |
| 11-Jun-25                              | -                          | -                                | Monitored Semiannually <sup>2</sup> |                         |                         |                                        |                 |                     | Monitored Annually <sup>2</sup> |               |         |           |

**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 measured or not available

Orange shaded values indicate parameter results above the Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

\* Measurement invalid and not shown

1 Reduction in monitoring frequency approved by Public Health – Seattle and King County in a letter to Golder Associates Inc. dated May 16, 2012

2 Reduction in monitoring frequency approved by Public Health – Seattle and King County in a letter to Golder Associates Inc. dated April 7, 2016. Field parameters collected semi-annually, analytical samples collected annually. Sampling schedule follows the Golder 2021 RI Work Plan starting in Q3 2021.

a Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

U Data validation code; not detected at the Reporting Limit (RL)

J Data validation code; estimated value

°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-4f: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-2DSP  
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) | Arsenic       | Lead  | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 8             | 2.5   | -         |
| 1-Mar-02                               | -                          | -                                   | -                                   | 542                     | -                       | -                                      | -               | 7.22                | 467                           | -             | -     | -         |
| 1-Jun-02                               | 197.34                     | 735.48                              | 12.00                               | 750                     | -                       | -                                      | -               | 7.10                | 459                           | -             | -     | -         |
| 1-Sep-02                               | 199.29                     | 733.53                              | 14.00                               | 660                     | -                       | -                                      | -               | 6.90                | 499                           | -             | -     | -         |
| 2-Dec-02                               | 200.09                     | 732.73                              | 10.80                               | 675                     | -                       | -                                      | -               | 6.89                | 440                           | 1 U           | 0.5 U | -         |
| 3-Mar-03                               | 190.21                     | 742.61                              | 11.90                               | 763                     | -                       | -                                      | -               | 6.98                | 450                           | -             | -     | -         |
| 3-May-03                               | 191.78                     | 741.04                              | 12.30                               | 730                     | -                       | -                                      | 233.00          | 6.98                | 550                           | -             | -     | -         |
| 3-Aug-03                               | 199.82                     | 733.00                              | 16.50                               | 848                     | -                       | -                                      | 17.00           | 6.92                | 520                           | -             | -     | -         |
| 1-Nov-03                               | 199.97                     | 732.85                              | 11.60                               | 559                     | -                       | -                                      | 9.20            | 7.04                | 522                           | 0.98          | 0.5 U | -         |
| 1-Feb-04                               | 188.78                     | 744.04                              | 11.96                               | 608                     | -                       | -                                      | 4.86            | 6.68                | 560                           | -             | -     | -         |
| 1-May-04                               | 198.45                     | 734.37                              | 13.69                               | 614                     | -                       | -                                      | 6.17            | 6.80                | 478                           | -             | -     | -         |
| 1-Aug-04                               | 199.17                     | 733.65                              | 14.38                               | 731                     | -                       | -                                      | 5.48            | 6.71                | 460                           | -             | -     | -         |
| 1-Nov-04                               | 197.92                     | 734.90                              | 11.62                               | 785                     | -                       | -                                      | 12.30           | 6.75                | 512                           | 1 U           | 1 U   | -         |
| 1-Feb-05                               | 186.36                     | 746.46                              | 11.64                               | 806                     | -                       | -                                      | 1.47            | 6.94                | 487                           | -             | -     | -         |
| 1-May-05                               | -                          | -                                   | 12.87                               | 790                     | -                       | -                                      | 15.80           | 6.89                | 338                           | -             | -     | -         |
| 1-Aug-05                               | 196.10                     | 736.72                              | 15.01                               | 603                     | -                       | -                                      | 45.70           | 6.44                | 388                           | -             | -     | -         |
| 1-Nov-05                               | 196.78                     | 736.04                              | 9.91                                | 549                     | -                       | -                                      | 13.30           | 6.66                | 350                           | 1 U           | 1 U   | -         |
| 1-Feb-06                               | 193.93                     | 738.89                              | 8.10                                | 641                     | 2.11                    | 269.2                                  | 35.70           | 6.82                | 400 J                         | -             | -     | -         |
| 1-May-06                               | 197.90                     | 734.92                              | 10.88                               | 798                     | 1.67                    | 27.3                                   | 5.38            | 6.50                | 380                           | -             | -     | -         |
| 1-Aug-06                               | 198.80                     | 734.02                              | 11.44                               | 534                     | 2.52                    | 205.7                                  | 8.74            | 6.67                | 360                           | -             | -     | -         |
| 1-Nov-06                               | 187.36                     | 745.46                              | 10.77                               | 680                     | 2.12                    | -19.9                                  | 18.90           | 7.06                | 430                           | 1 U           | 1 U   | -         |
| 28-Dec-06                              | 192.37                     | 740.45                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 7-Feb-07                               | 197.46                     | 735.36                              | 10.24                               | 621                     | 0.64                    | -16.7                                  | 27.80           | 6.89                | 420                           | -             | -     | -         |
| 7-May-07                               | 198.49                     | 734.33                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 27-Nov-07                              | 196.48                     | 736.34                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 8-Feb-08                               | 191.30                     | 741.52                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 8-May-08                               | 193.95                     | 738.87                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 27-Sep-11                              | 197.32                     | 735.50                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 13-Dec-11                              | 192.15                     | 740.67                              | 9.6                                 | 421                     | 2.10                    | 313.0                                  | 16.10           | 7.49                | -                             | -             | -     | -         |
| 22-Mar-12                              | 183.35                     | 751.47                              | 8.9                                 | 546                     | 12.83                   | 166.3                                  | 0.56            | 7.47                | -                             | -             | -     | -         |
| 18-Jun-12                              | 192.54                     | 742.28                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 18-Sep-12                              | 199.51                     | 735.31                              | 16.2                                | 508                     | 2.21                    | 120.0                                  | 1.27            | 7.58                | -                             | -             | -     | -         |
| 18-Dec-12                              | 184.52                     | 750.30                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 21-Feb-13                              | 190.65                     | 744.17                              | 7.6                                 | 678                     | 5.33                    | 342.6                                  | 6.61            | 8.02                | -                             | -             | -     | -         |
| 22-May-13                              | 198.05                     | 736.77                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 20-Aug-13                              | 200.47                     | 734.35                              | 13.0                                | 488                     | 3.26                    | 90.2                                   | 8.47            | 7.42                | -                             | -             | -     | -         |
| 19-Nov-13                              | 196.59                     | 738.23                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 31-Mar-14                              | 186.78                     | 748.04                              | 11.4                                | 421                     | 7.28                    | 195.1                                  | 1.70            | 7.47                | -                             | -             | -     | -         |
| 21-May-14                              | 192.27                     | 742.55                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 15-Aug-14                              | 199.97                     | 734.85                              | 18.9                                | 492                     | 0.97                    | 1.4                                    | 52.50           | 7.01                | -                             | -             | -     | -         |
| 14-Nov-14                              | 196.60                     | 738.22                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 10-Feb-15                              | 183.97                     | 750.85                              | 10.2                                | 450                     | 7.65                    | 121.4                                  | 1.02            | 7.34                | -                             | -             | -     | -         |
| 4-May-15                               | 194.19                     | 740.63                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -     | -         |
| 4-Aug-15                               | 198.35                     | 736.47                              | 13.6                                | 432                     | 3.07                    | 18.6                                   | 0.27            | 7.47                | -                             | -             | -     | -         |
| 3-Nov-15                               | 198.25                     | 736.57                              | 10.3                                | 405                     | 2.57                    | 106.2                                  | 7.07            | 7.35                | -                             | -             | -     | -         |
| 8-Feb-16                               | 188.43                     | 746.39                              | 12.5                                | 536                     | 2.77                    | 189.8                                  | 0.25            | 7.78                | -                             | -             | -     | -         |
| 2-May-16                               | 195.72                     | 739.10                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -     | -         |
| 22-Aug-16                              | 197.89                     | 736.93                              | 14.0                                | 418                     | 1.27                    | -123.1                                 | 4.36            | 7.32                | -                             | -             | -     | -         |
| 1-Nov-16                               | 195.49                     | 739.33                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -     | -         |

**Table A-4f: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-2DSP  
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) | Arsenic       | Lead | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 8             | 2.5  | -         |
| 31-Jan-17                              | 186.94                     | 747.88                              | 9.2                                 | 506                     | 5.26                    | -45.4                                  | 0.38            | 7.45                | -                             | -             | -    | -         |
| 30-May-17                              | 190.62                     | 744.20                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 16-Aug-17                              | 197.55                     | 737.27                              | 13.3                                | 540                     | 2.31                    | 37.3                                   | 3.42            | 7.37                | -                             | -             | -    | -         |
| 9-Nov-17                               | 197.11                     | 737.71                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 28-Feb-18                              | 185.96                     | 748.86                              | 10.1                                | 390                     | 5.95                    | 204.7                                  | 1.62            | 7.15                | -                             | -             | -    | -         |
| 1-May-18                               | 184.95                     | 749.87                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 22-Aug-18                              | 197.40                     | 737.42                              | 13.7                                | 412                     | 3.10                    | 85.5                                   | 1.66            | 7.27                | -                             | -             | -    | -         |
| 6-Nov-18                               | 197.94                     | 736.88                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 12-Mar-19                              | 182.84                     | 751.98                              | 8.7                                 | 332                     | 6.25                    | 148.4                                  | 1.93            | 7.28                | -                             | -             | -    | -         |
| 8-May-19                               | 185.36                     | 749.46                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 27-Aug-19                              | 196.56                     | 738.26                              | 11.92                               | 411                     | 8.82                    | Note 1                                 | 0.02            | 7.28                | -                             | -             | -    | -         |
| 13-Nov-19                              | 196.74                     | 738.08                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 13-Feb-20                              | 177.10                     | 757.72                              | 9.3                                 | 453                     | 3.03                    | 91.0                                   | 2.31            | 7.56                | -                             | -             | -    | -         |
| 13-Aug-20                              | 200.97                     | 733.85                              | 12.2                                | 422                     | 3.04                    | 35.0                                   | 0.96            | 7.42                | -                             | -             | -    | -         |
| 9-Dec-20                               | 197.86                     | 736.96                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 5-Mar-21                               | 197.42                     | 737.40                              | 10.0                                | 398                     | 3.79                    | 112.0                                  | 1.17            | 7.37                | -                             | -             | -    | -         |
| 10-Jun-21                              | 199.94                     | 734.88                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 18-Oct-21                              | 200.24                     | 734.58                              | 12.6                                | 307.7                   | 6.06                    | 161.4                                  | 12.3            | 7.35                | -                             | -             | -    | -         |
| 5-Jan-22                               | 192.66                     | 742.16                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 21-Mar-22                              | 193.68                     | 741.14                              | 9.6                                 | 369                     | 7.04                    | 125.6                                  | 5.95            | 6.63                | -                             | -             | -    | -         |
| 21-Jun-22                              | 191.33                     | 743.49                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 13-Sep-22                              | 200.03                     | 734.79                              | 12.6                                | 404.7                   | 8.66                    | 252.7                                  | 10.5            | 6.91                | -                             | -             | -    | -         |
| 12-Dec-22                              | 197.99                     | 736.83                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 15-Mar-23                              | 192.63                     | 742.19                              | 11.4                                | 591.7                   | 2.44                    | 41.8                                   | 5.56            | 7.53                | -                             | -             | -    | -         |
| 26-Jun-23                              | 198.92                     | 735.9                               | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 5-Sep-23                               | 200.21                     | 734.61                              | 12.1                                | 571.3                   | 3.59                    | 8.3                                    | 10.5            | 7.36                | -                             | -             | -    | -         |
| 13-Dec-23                              | 183.09                     | 751.73                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |

**Table A-4f: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-2DSP  
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) | Arsenic       | Lead | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                          | -                                   | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 8             | 2.5  | -         |
| 6-Mar-24                               | 192.55                     | 742.27                              | 9.1                                 | 577                     | 8.66                    | 35.4                                   | 4.3             | 7.75                | -                             | -             | -    | -         |
| 19-Jun-24                              | 194.6                      | 740.22                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 19-Sep-24                              | 199.64                     | 735.18                              | 11.9                                | 540                     | 9.23                    | 162.1                                  | 1.07            | 6.96                | -                             | -             | -    | -         |
| 9-Dec-24                               | -                          | -                                   | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 26-Mar-25                              | 184                        | 750.82                              | 12.9                                | 554.4                   | 6.4                     | 75.4                                   | 6.98            | 7.16                | -                             | -             | -    | -         |
| 11-Jun-25                              | -                          | -                                   | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |

## Notes:

Top of casing elevation (feet NAVD88) prior to raising casing: 932.82

Top of casing elevation (feet NAVD88) after raising casing (December 14, 2011): 934.82

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.

1 Reduction in monitoring frequency approved by Public Health – Seattle and King County in a letter to Golder Associates Inc. dated April 7, 2016. Field parameters collected semi-annually, analytical samples collected annually. Sampling schedule follows the Golder 2021 RI Work Plan starting in Q3 2021.

- Not measured or not available

Orange shaded values indicate parameter results above the Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

a Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

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

°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-4g: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-4SDSP  
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) | Arsenic       | Lead | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                                               | -                                   | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 8             | 2.5  | -         |
| 26-Sep-11                              | 25.77                                           | 906.64                              | 11.40                               | 553                     | 0.86                    | 197.2                                  | -               | 7.21                | -                             | -             | -    | -         |
| 13-Dec-11                              | 24.94                                           | 907.47                              | 9.70                                | 625                     | 1.73                    | 658.0                                  | 22.70           | 7.68                | -                             | -             | -    | -         |
| 22-Mar-12                              | 23.80                                           | 908.61                              | 9.60                                | 785                     | 3.71                    | 242.6                                  | 8.14            | 7.30                | -                             | -             | -    | -         |
| 19-Jun-12                              | 24.09                                           | 908.32                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -    | -         |
| 18-Sep-12                              | 25.68                                           | 906.73                              | 16.50                               | 664                     | 2.37                    | 150.0                                  | 19.20           | 7.34                | -                             | -             | -    | -         |
| 18-Dec-12                              | 23.02                                           | 909.39                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -    | -         |
| 21-Feb-13                              | 23.50                                           | 908.91                              | 10.00                               | 840                     | 6.55                    | 352.4                                  | 3.42            | 7.42                | -                             | -             | -    | -         |
| 22-May-13                              | 23.84                                           | 908.57                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -    | -         |
| 20-Aug-13                              | 25.08                                           | 907.33                              | 13.50                               | 539                     | 2.91                    | 45.1                                   | 1.87            | 7.22                | -                             | -             | -    | -         |
| 19-Nov-13                              | 22.76                                           | 909.65                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -    | -         |
| 31-Mar-14                              | 21.39                                           | 911.02                              | 12.20                               | 511                     | 6.31                    | 197.3                                  | 1.38            | 7.58                | -                             | -             | -    | -         |
| 21-May-14                              | 19.82                                           | 912.59                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -    | -         |
| 15-Aug-14                              | 24.00                                           | 908.41                              | 12.81                               | 647                     | 0.82                    | 7.5                                    | 5.42            | 6.62                | -                             | -             | -    | -         |
| 14-Nov-14                              | 22.28                                           | 910.13                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -    | -         |
| 10-Feb-15                              | 21.10                                           | 911.31                              | 12.30                               | 636                     | 2.56                    | -71.9                                  | 1.11            | 7.11                | -                             | -             | -    | -         |
| 4-May-15                               | 22.65                                           | 909.76                              | -                                   | -                       | -                       | -                                      | -               | -                   | -                             | -             | -    | -         |
| 5-Aug-15                               | 24.65                                           | 907.76                              | 13.50                               | 563                     | 3.21                    | 116.4                                  | 55.20           | 7.42                | -                             | -             | -    | -         |
| 3-Nov-15                               | 23.87                                           | 908.54                              | 12.20                               | 493                     | 4.65                    | 114.4                                  | 5.78            | 7.52                | -                             | -             | -    | -         |
| 8-Feb-16                               | 19.39                                           | 913.02                              | 15.80                               | 670                     | 3.92                    | 163.5                                  | 5.06            | 7.59                | -                             | -             | -    | -         |
| 2-May-16                               | 20.99                                           | 911.42                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 22-Aug-16                              | 24.42                                           | 907.99                              | 17.60                               | 527                     | 5.01                    | 106.0                                  | 1.39            | 7.44                | -                             | -             | -    | -         |
| 1-Nov-16                               | 21.31                                           | 911.10                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 31-Jan-17                              | 21.11                                           | 911.30                              | 12.10                               | 680                     | 2.75                    | -146.1                                 | 1.48            | 7.35                | -                             | -             | -    | -         |
| 17-Aug-17                              | 22.58                                           | 909.83                              | 12.60                               | 673                     | 5.22                    | 177.8                                  | 1.97            | 7.15                | -                             | -             | -    | -         |
| 9-Nov-17                               | 20.72                                           | 911.69                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 28-Feb-18                              | 17.09                                           | 915.32                              | 11.10                               | 509                     | 8.34                    | 29.0                                   | 0.72            | 7.37                | -                             | -             | -    | -         |
| 1-May-18                               | 17.76                                           | 914.65                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 22-Aug-18                              | Could not be safely accessed due to wasp nests. |                                     |                                     |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 6-Nov-18                               | 21.70                                           | 910.71                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 12-Mar-19                              | 18.30                                           | 914.11                              | 10.10                               | 215                     | 9.65                    | 18.9                                   | 0.39            | 7.86                | -                             | -             | -    | -         |
| 8-May-19                               | 19.09                                           | 913.32                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 27-Aug-19                              | 22.85                                           | 909.56                              | 14.79                               | 562                     | 8.59                    | Note 1                                 | 3.60            | 7.80                | -                             | -             | -    | -         |
| 13-Nov-19                              | 21.95                                           | 910.46                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 13-Feb-20                              | 16.60                                           | 915.81                              | 10.80                               | 458                     | 8.74                    | 68.0                                   | 1.98            | 7.83                | -                             | -             | -    | -         |
| 13-Aug-20                              | 21.96                                           | 910.45                              | 12.60                               | 503                     | 8.74                    | -39.8                                  | 1.89            | 7.83                | -                             | -             | -    | -         |
| 9-Dec-20                               | 20.58                                           | 911.83                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 5-Mar-21                               | 17.69                                           | 914.72                              | 11.30                               | 497                     | 6.84                    | 90.0                                   | 1.46            | 7.91                | -                             | -             | -    | -         |
| 10-Jun-21                              | 21.47                                           | 910.94                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 18-Oct-21                              | 23.22                                           | 909.19                              | 13.5                                | 368.9                   | 8.47                    | 130.8                                  | 1.36            | 7.63                | -                             | -             | -    | -         |
| 5-Jan-22                               | 17.66                                           | 914.75                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 21-Mar-22                              | 16.7                                            | 915.71                              | 10.7                                | 456.3                   | 9.94                    | 115.5                                  | 2.79            | 7.05                | -                             | -             | -    | -         |
| 21-Jun-22                              | 17.95                                           | 914.46                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 13-Sep-22                              | 21.6                                            | 910.81                              | 15.3                                | 531                     | 7.87                    | 90.3                                   | 1.45            | 7.53                | -                             | -             | -    | -         |
| 12-Dec-22                              | 19.02                                           | 913.39                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 15-Mar-23                              | 17.46                                           | 914.95                              | 12.3                                | 668                     | 8.07                    | 57.4                                   | 2.67            | 7.85                | -                             | -             | -    | -         |
| 26-Jun-23                              | 19.98                                           | 912.43                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 5-Sep-23                               | Could not be safely accessed due to wasp nests. |                                     |                                     |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 13-Dec-23                              | 16.91                                           | 915.5                               | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 8-Mar-24                               | 15.77                                           | 916.64                              | 10.9                                | 558                     | 8.79                    | 90.8                                   | 0.74            | 7.82                | -                             | -             | -    | -         |

**Table A-4g: Summary of Dale Strip Pit - Bedrock Groundwater Sampling Results - Well MWB-4SDSP  
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) | Arsenic       | Lead | Potassium |
| Preliminary Cleanup Level <sup>a</sup> | -                                               | -                                   | -                                   | -                       | -                       | -                                      | -               | 6.5-8.5             | -                             | 8             | 2.5  | -         |
| 19-Jun-24                              | 18.55                                           | 913.86                              | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 16-Sep-24                              | Could not be safely accessed due to wasp nests. |                                     |                                     |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 9-Dec-24                               | -                                               | -                                   | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |
| 26-Mar-25                              | 15.10                                           | 917.31                              | 12.8                                | 649                     | 10.58                   | 76.9                                   | 2.71            | 7.8                 | -                             | -             | -    | -         |
| 11-Jun-25                              | -                                               | -                                   | Monitored Semiannually <sup>1</sup> |                         |                         |                                        |                 |                     | -                             | -             | -    | -         |

## Notes:

Top of casing elevation (feet NAVD88) prior to DSP Cover Upgrade: 939.42

Top of casing elevation (feet NAVD88) after DSP Cover Upgrade (completed July 2011): 932.41

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.

1 Reduction in monitoring frequency approved by Public Health – Seattle and King County in a letter to Golder Associates Inc. dated April 7, 2016, extended October 10, 2019. Field parameters collected semi-annually, analytical samples collected annually. Sampling schedule follows the Golder 2021 RI Work Plan starting in Q3 2021.

- Not measured or not available

Orange shaded values indicate parameter results above the Preliminary Cleanup Level (PCUL), except for pH, which could be above or below the PCUL.

<sup>a</sup> Preliminary Cleanup Level (PCUL) provided by Ecology 30 Sept 2022

°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

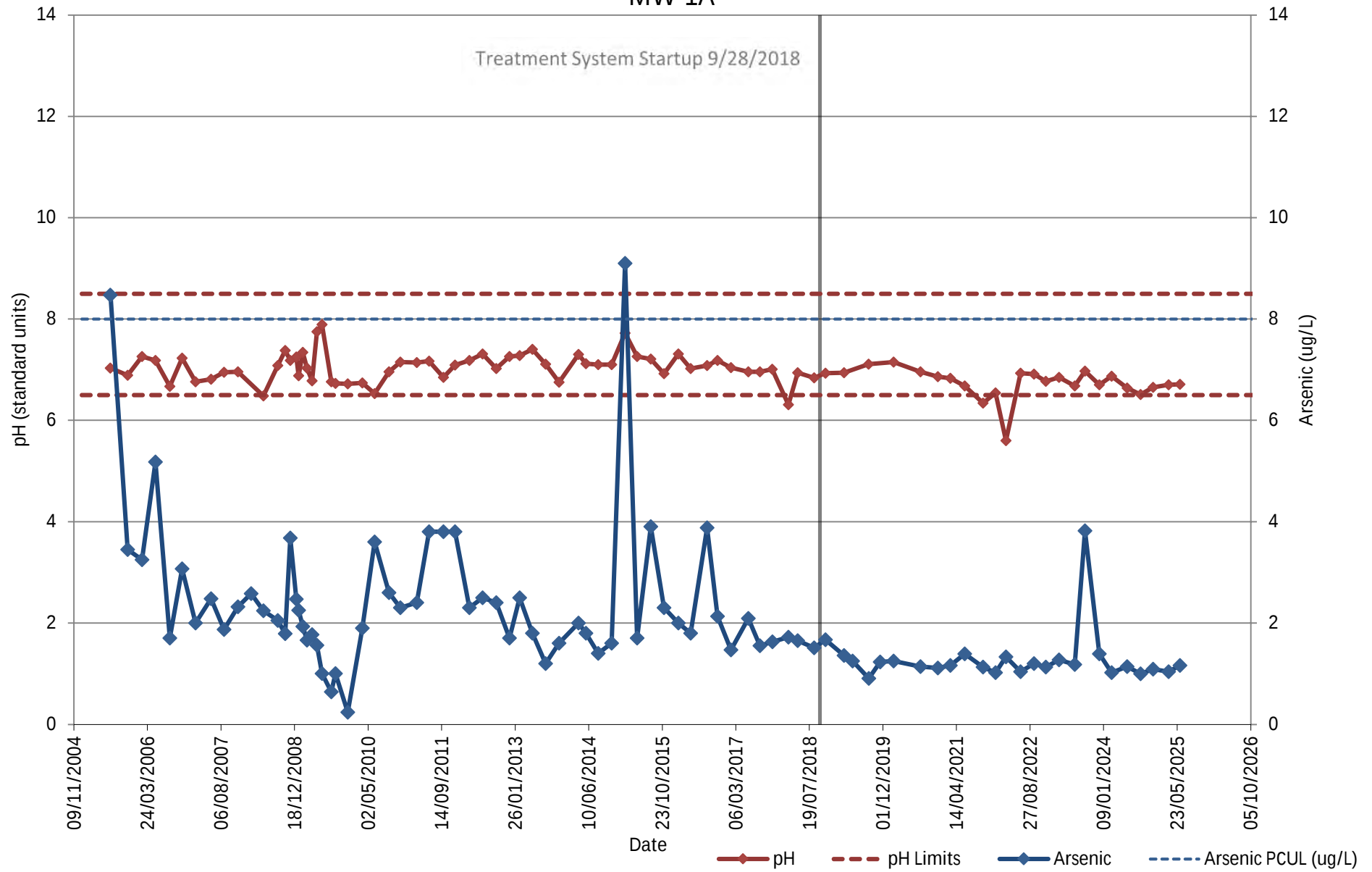
NTU Nephelometric Turbidity Unit

TOC Top of casing inside PVC well

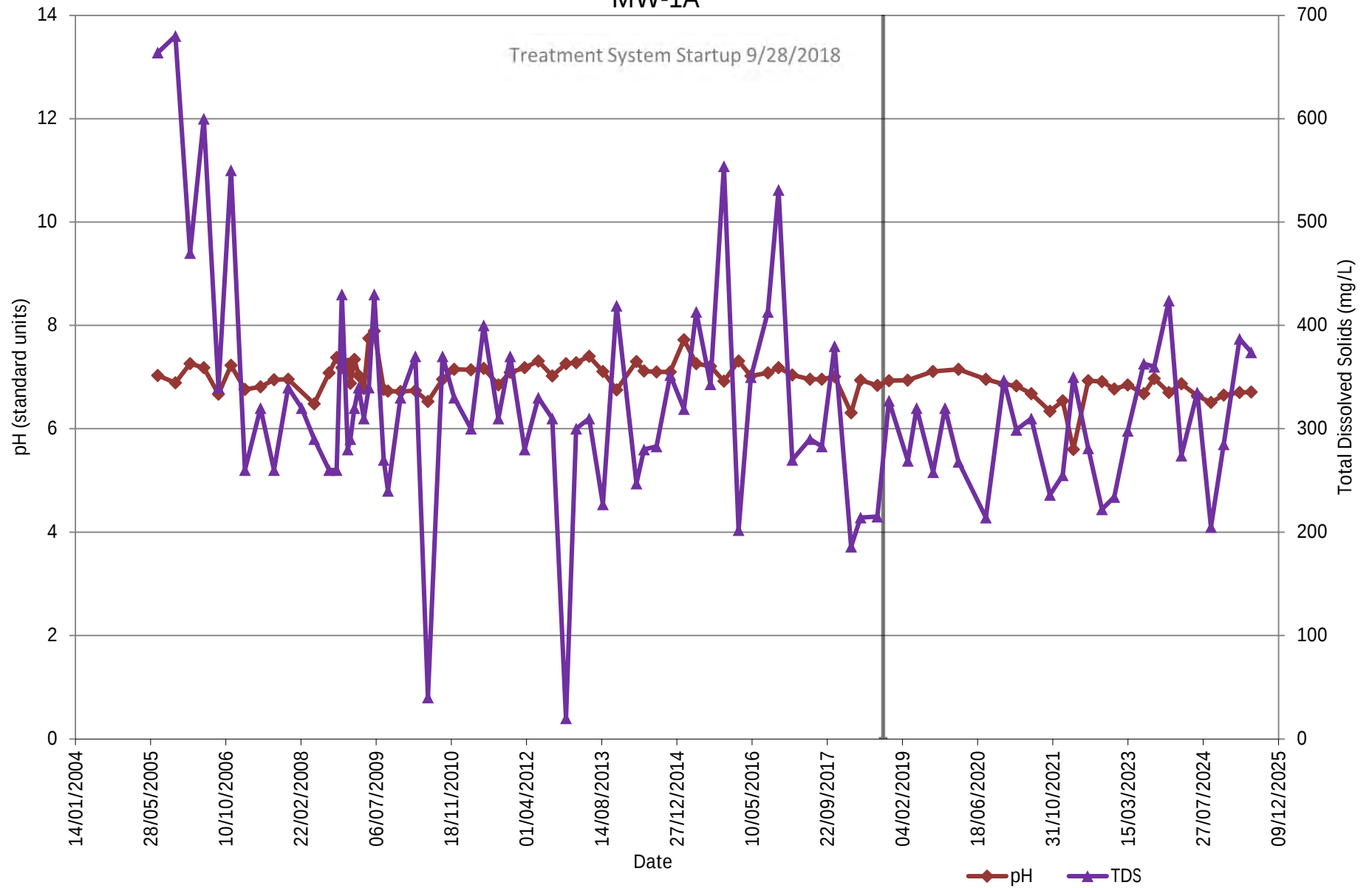
**APPENDIX B**

**LDA Shallow Monitoring Wells Data  
Graphs**

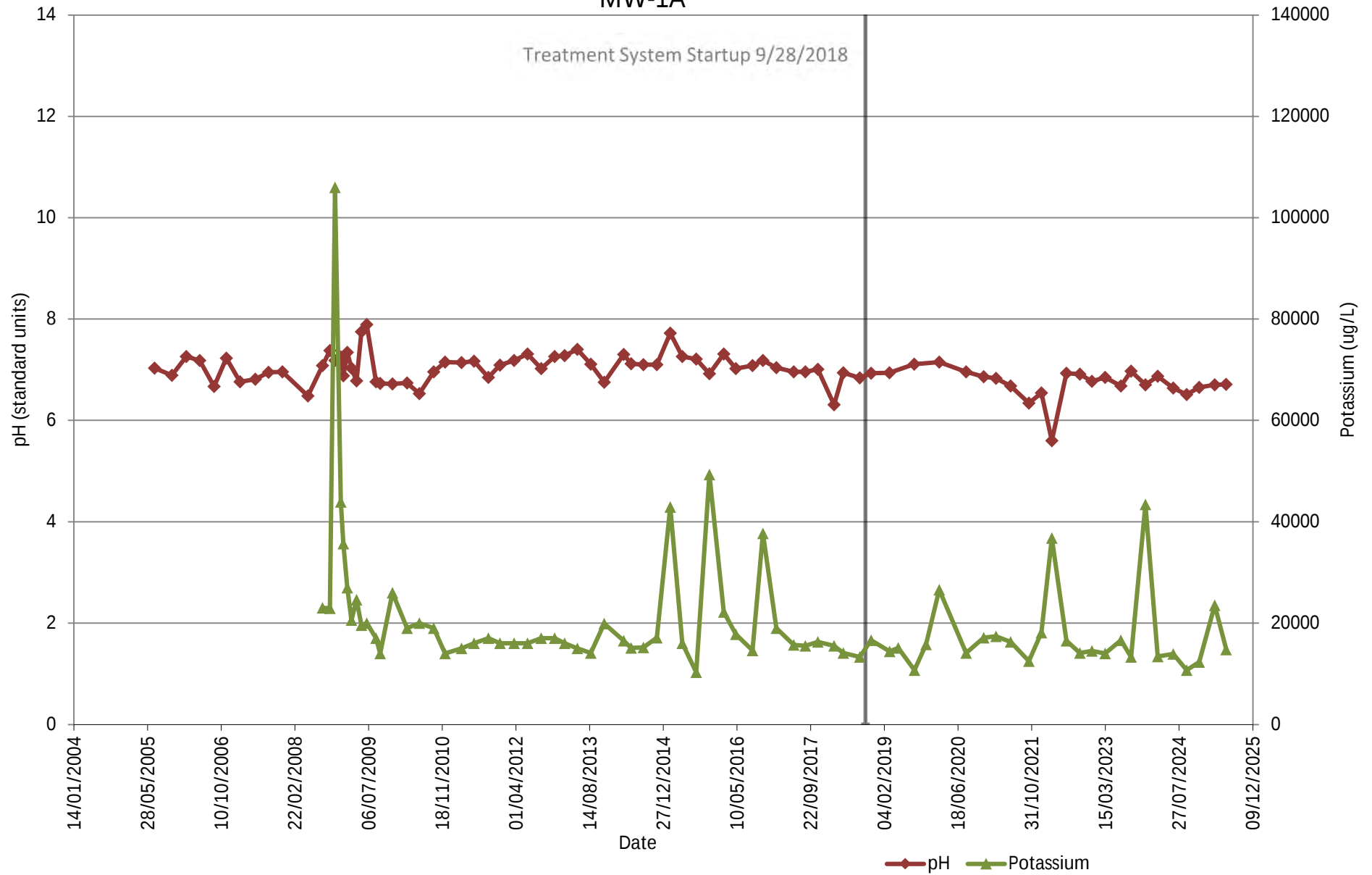
# LDA Shallow Monitoring Wells MW-1A



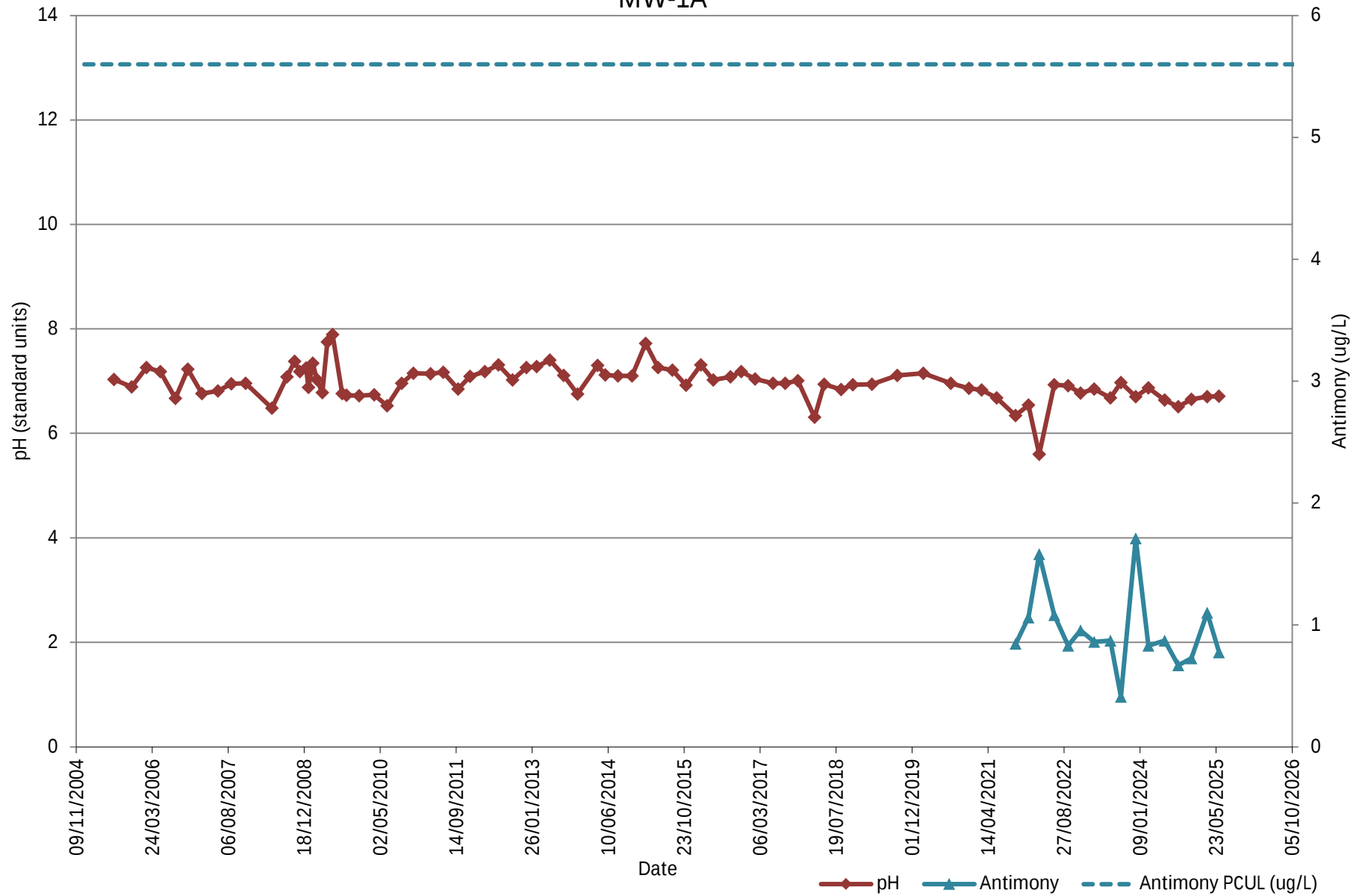
# LDA Shallow Monitoring Wells MW-1A



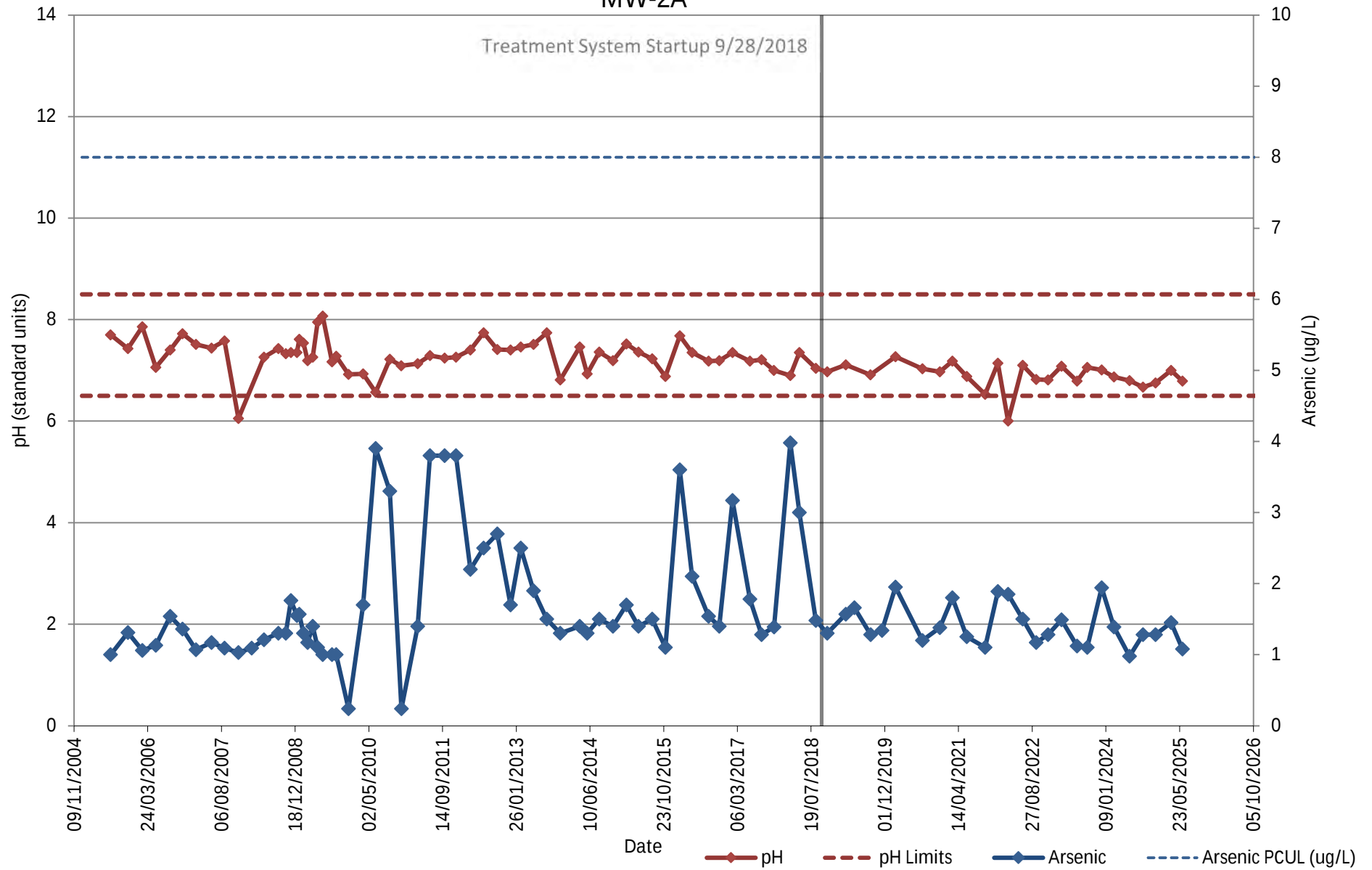
# LDA Shallow Monitoring Wells MW-1A



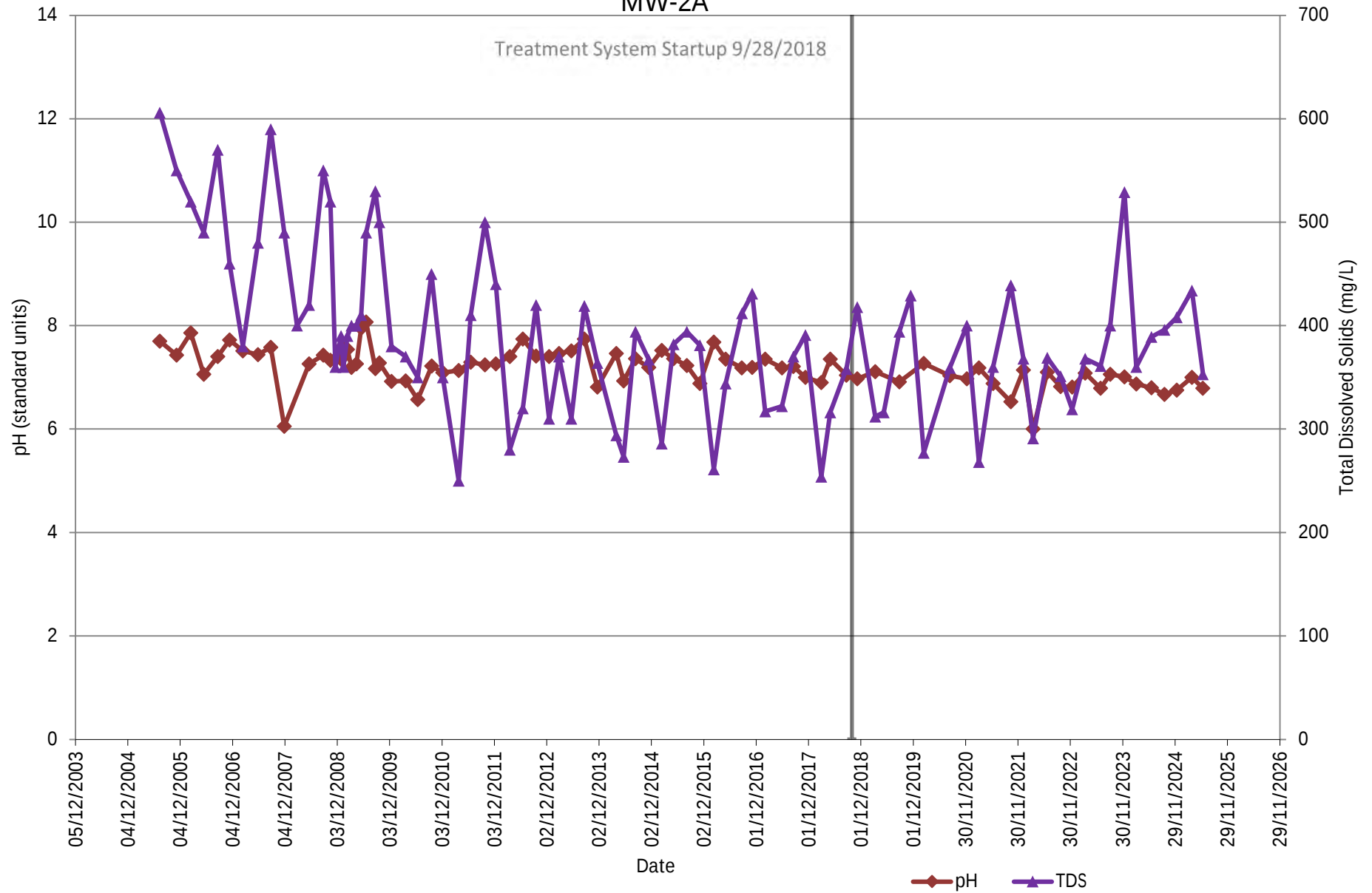
# LDA Shallow Monitoring Wells MW-1A



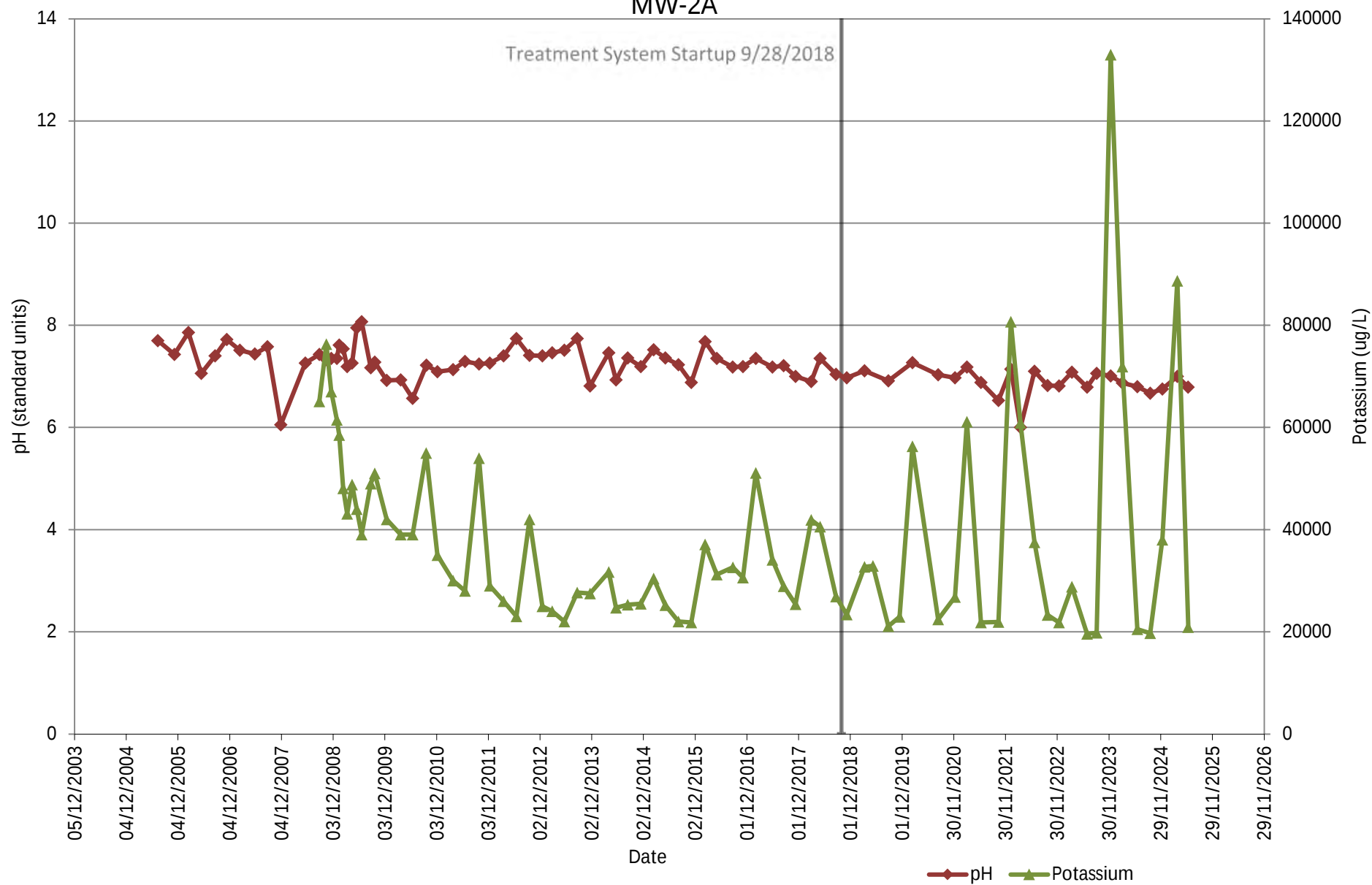
# LDA Shallow Monitoring Wells MW-2A



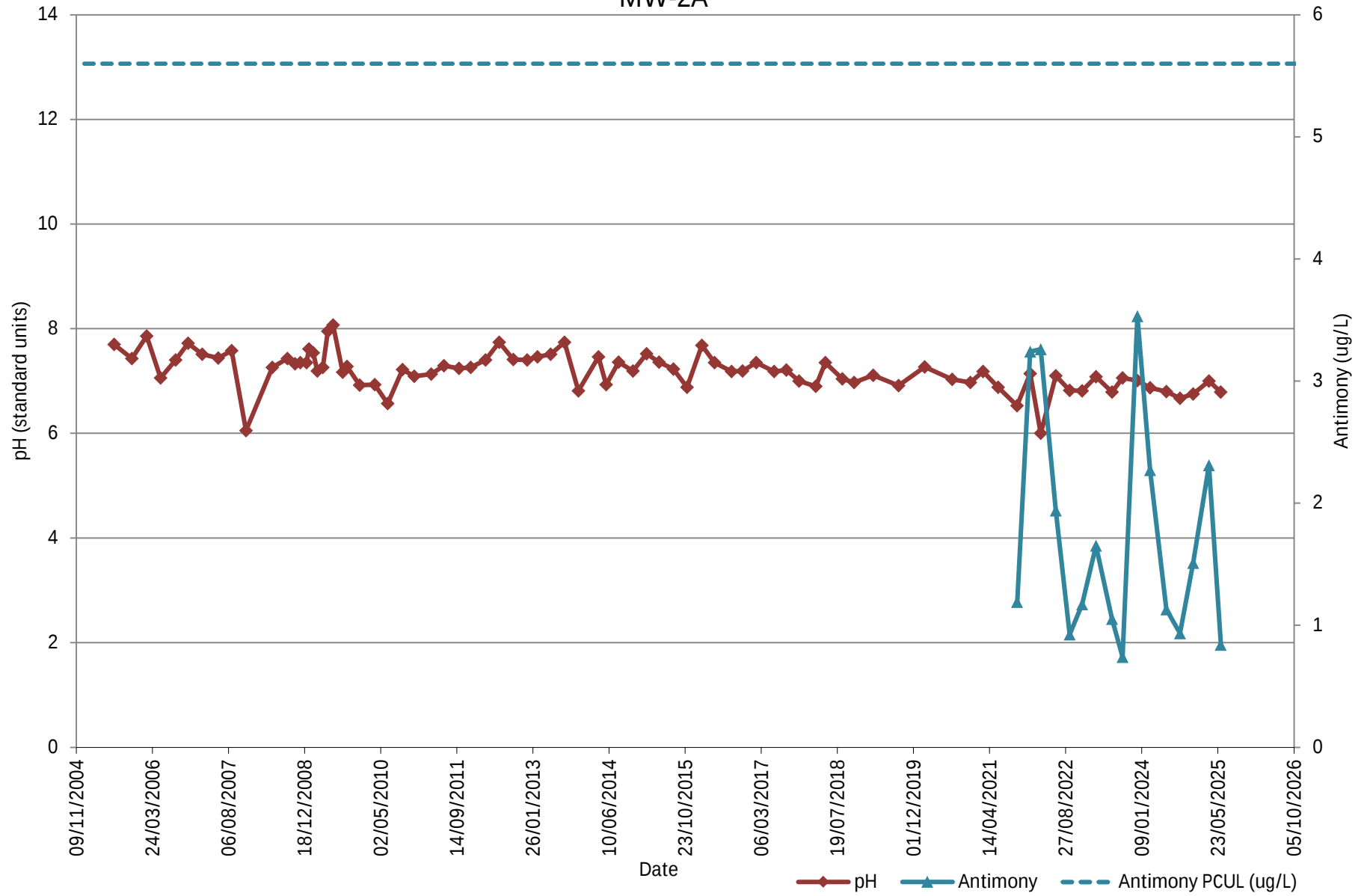
# LDA Shallow Monitoring Wells MW-2A



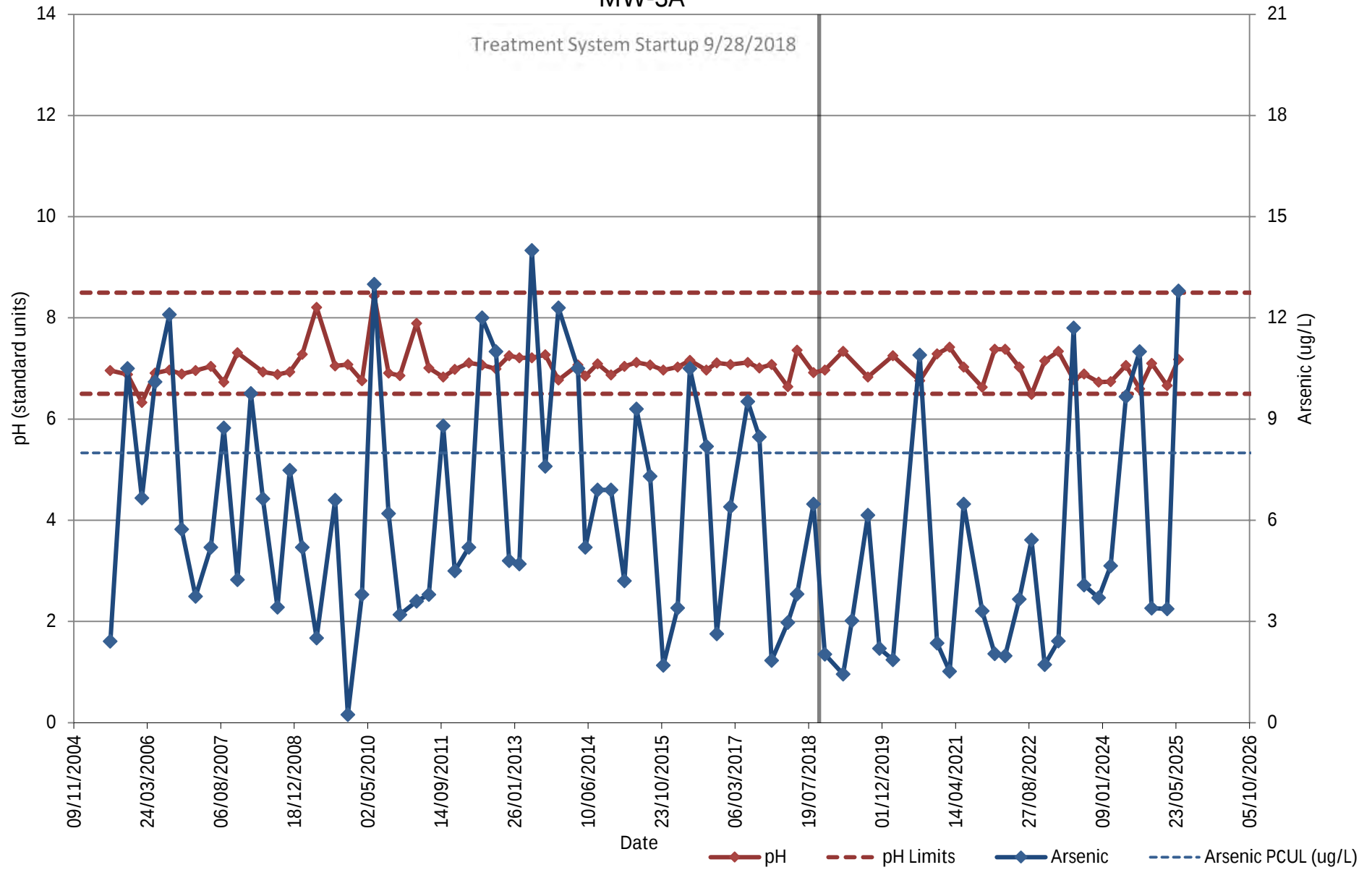
# LDA Shallow Monitoring Wells MW-2A



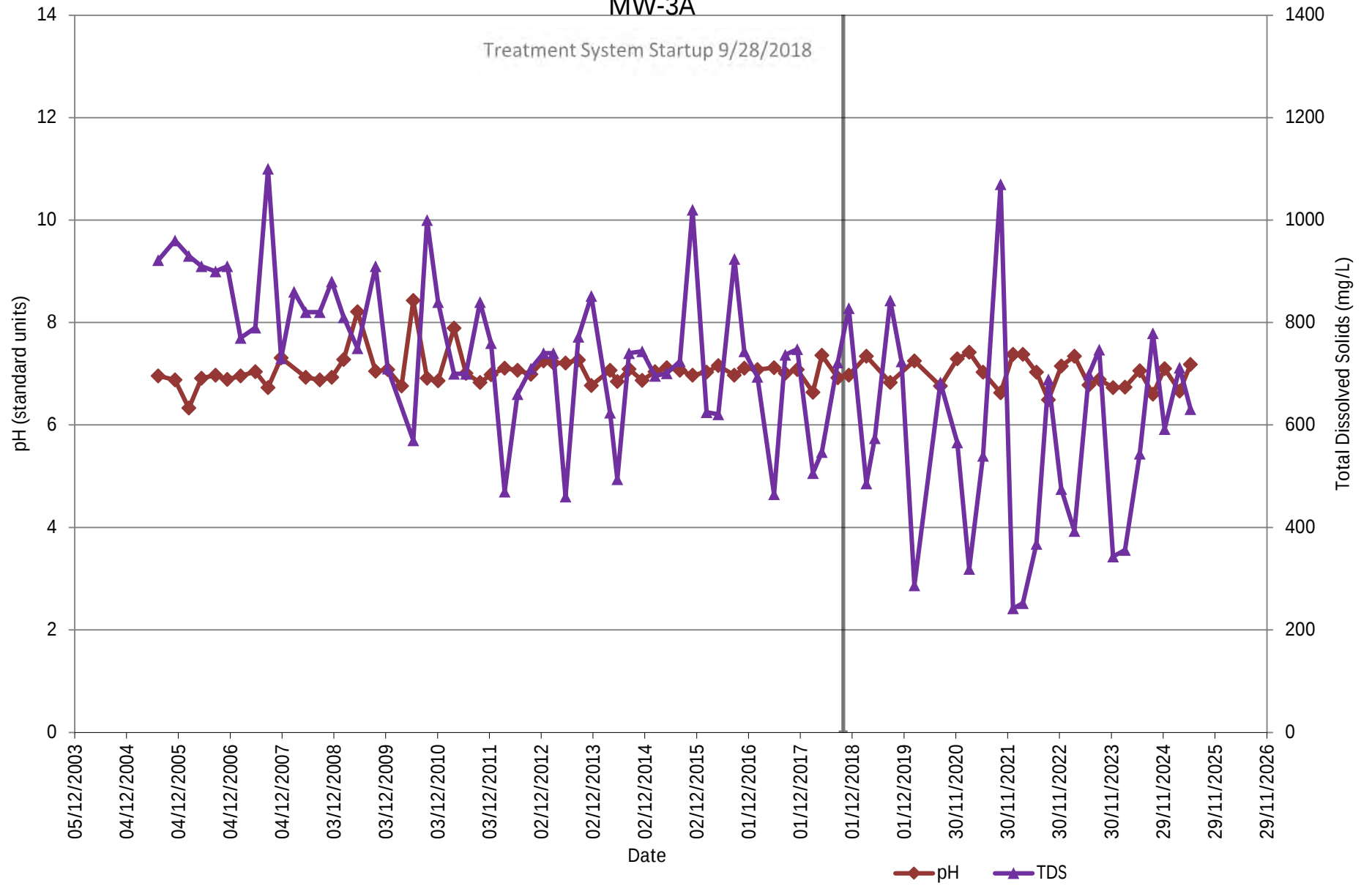
# LDA Shallow Monitoring Wells MW-2A



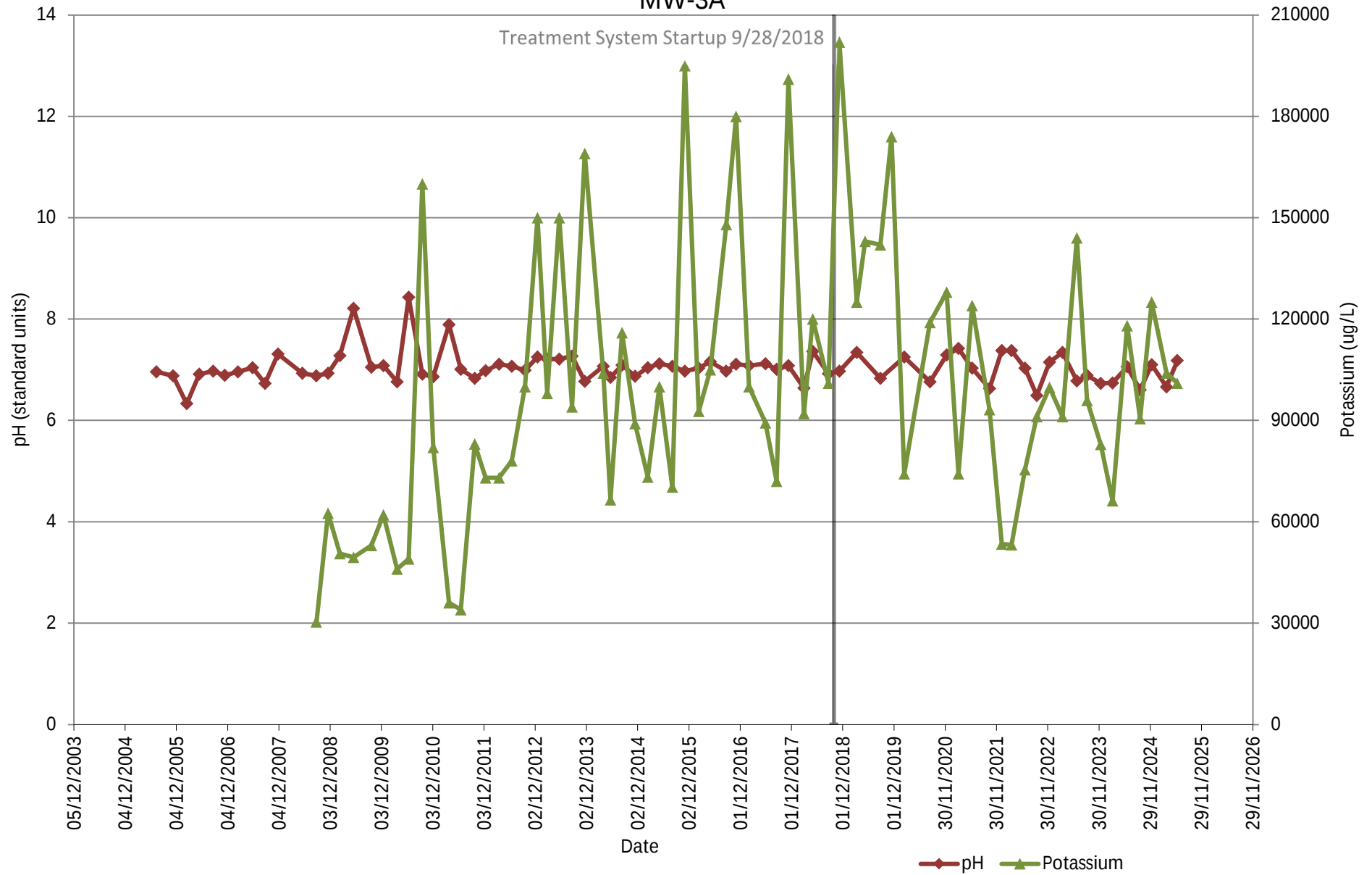
# LDA Shallow Monitoring Wells MW-3A



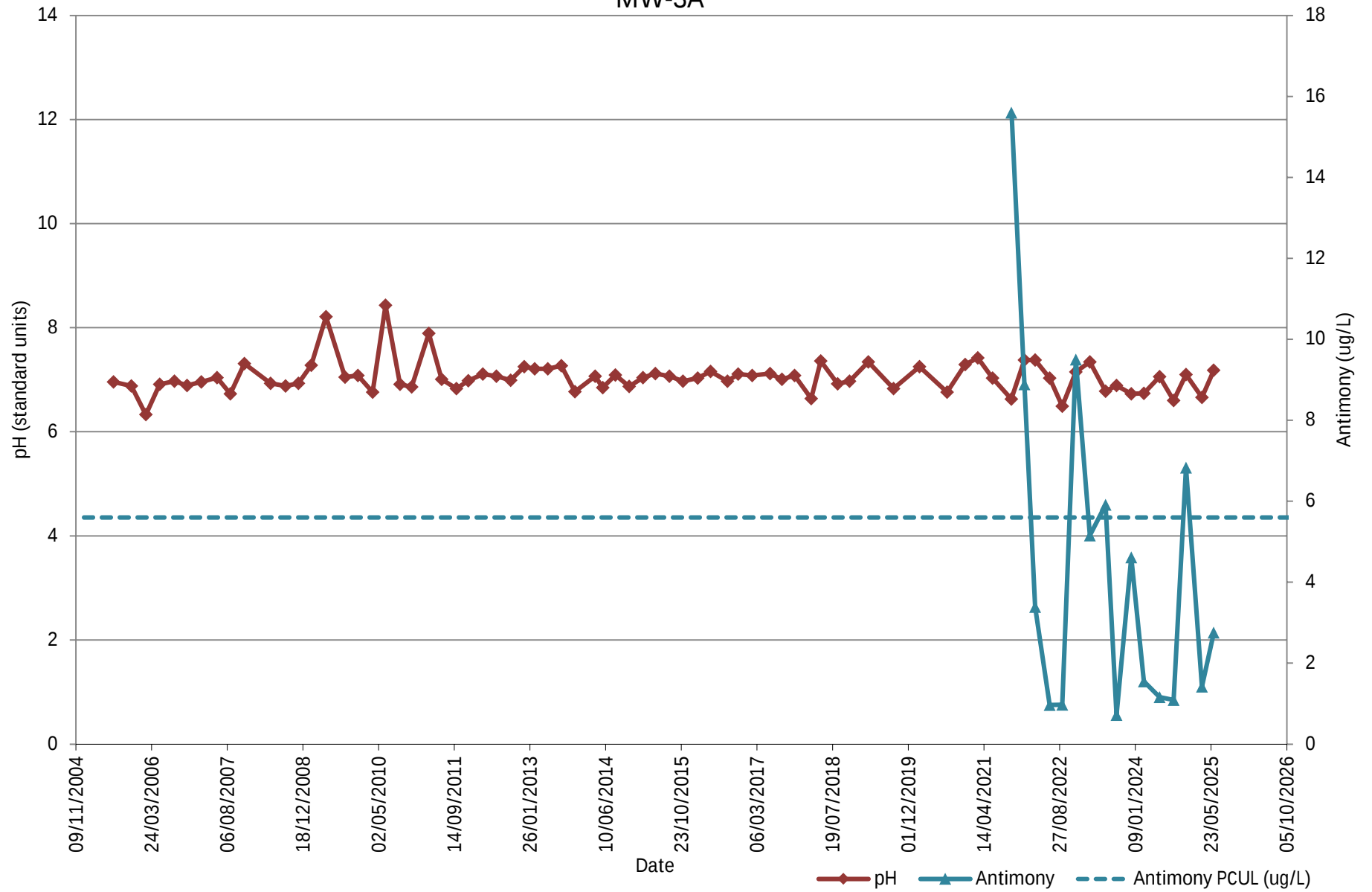
# LDA Shallow Monitoring Wells MW-3A



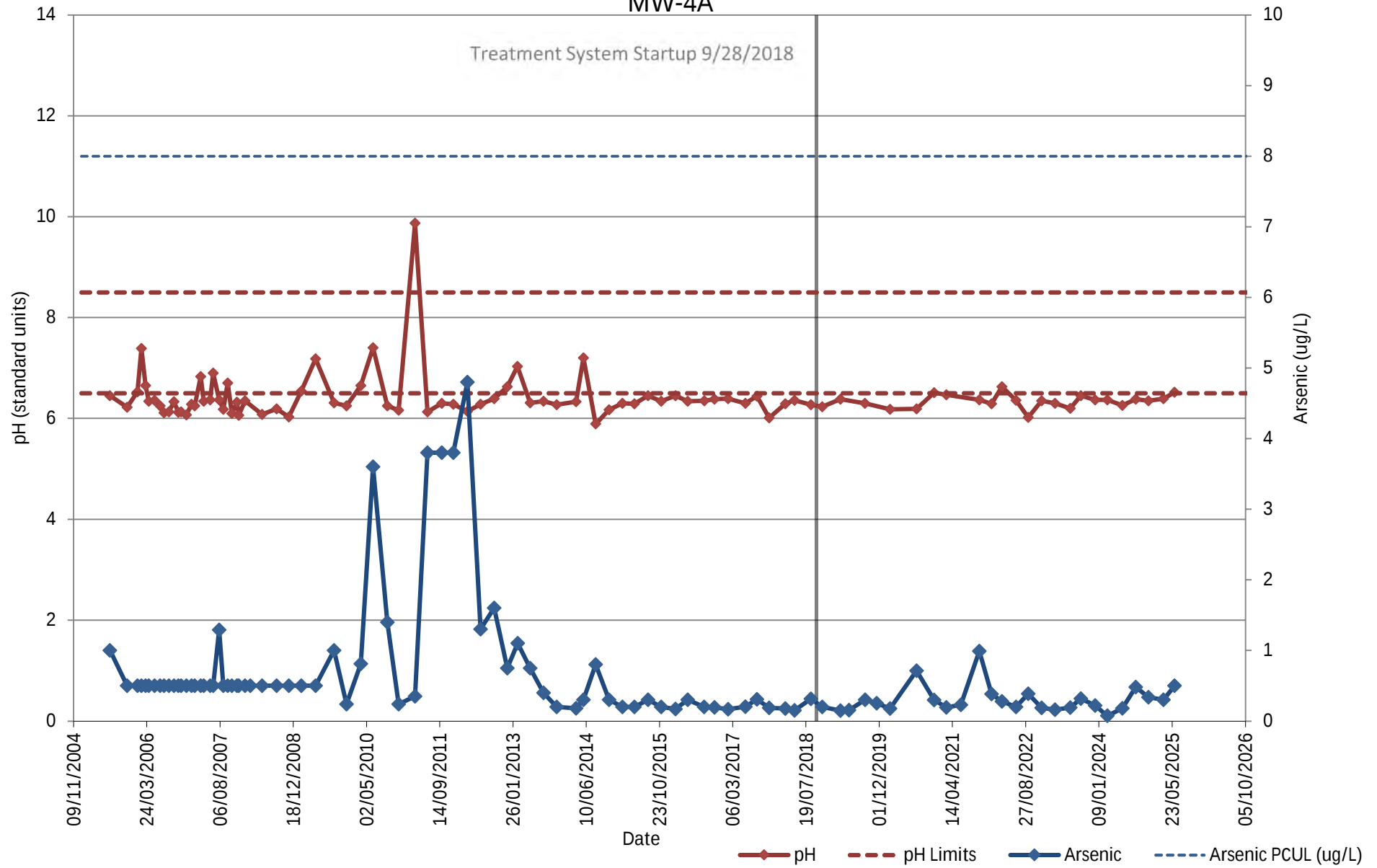
# LDA Shallow Monitoring Wells MW-3A



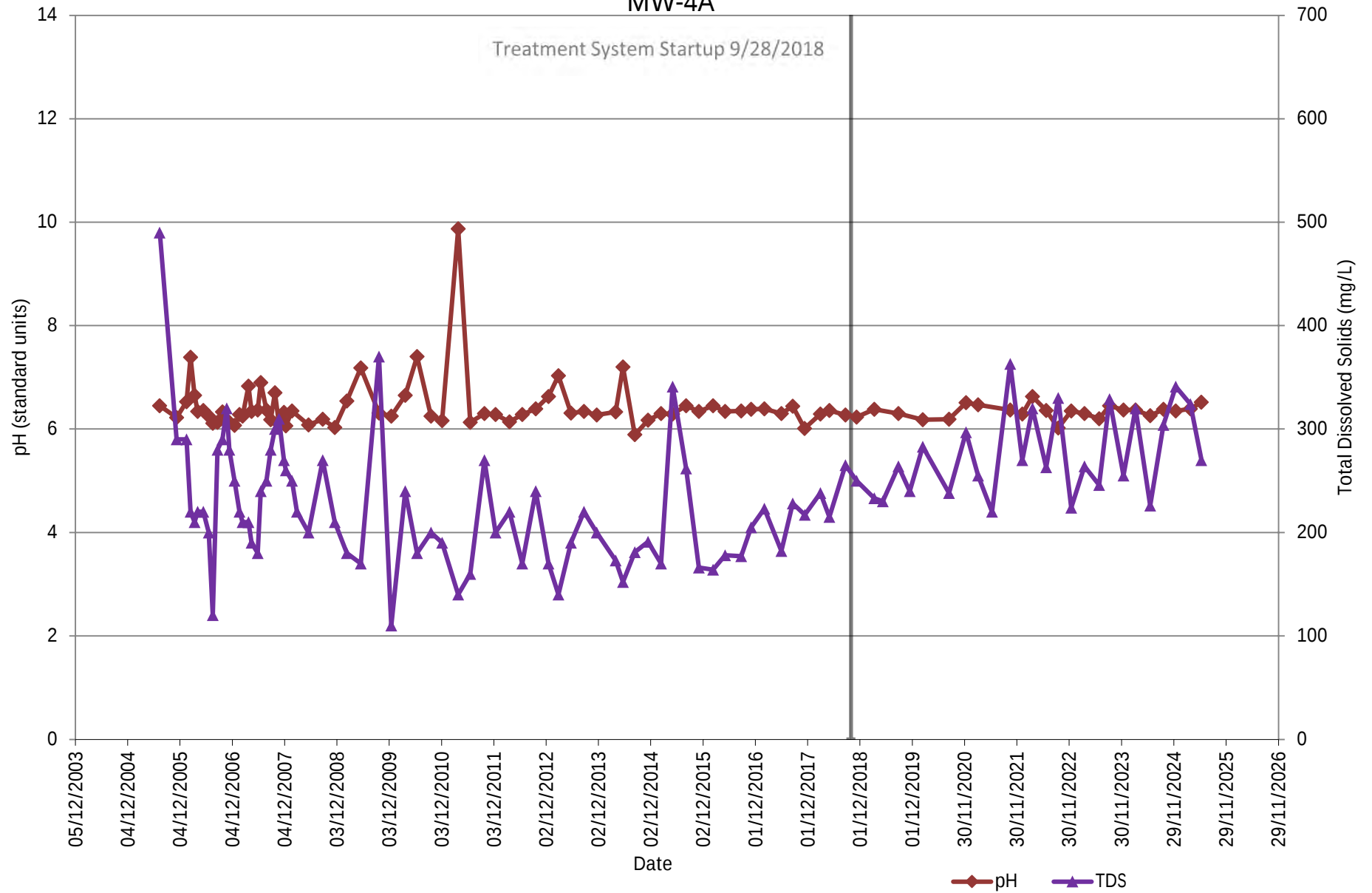
# LDA Shallow Monitoring Wells MW-3A



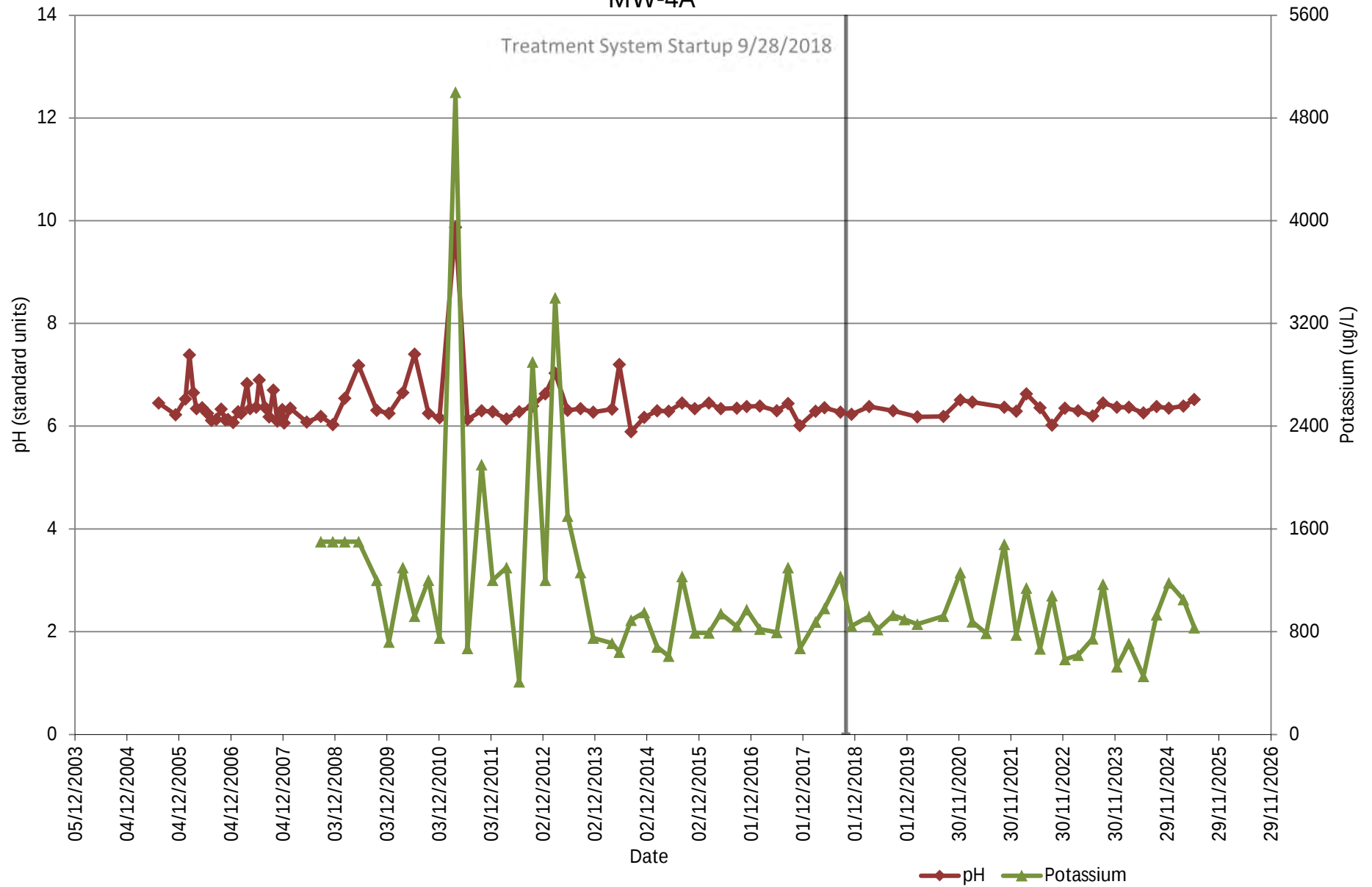
# LDA Shallow Monitoring Wells MW-4A



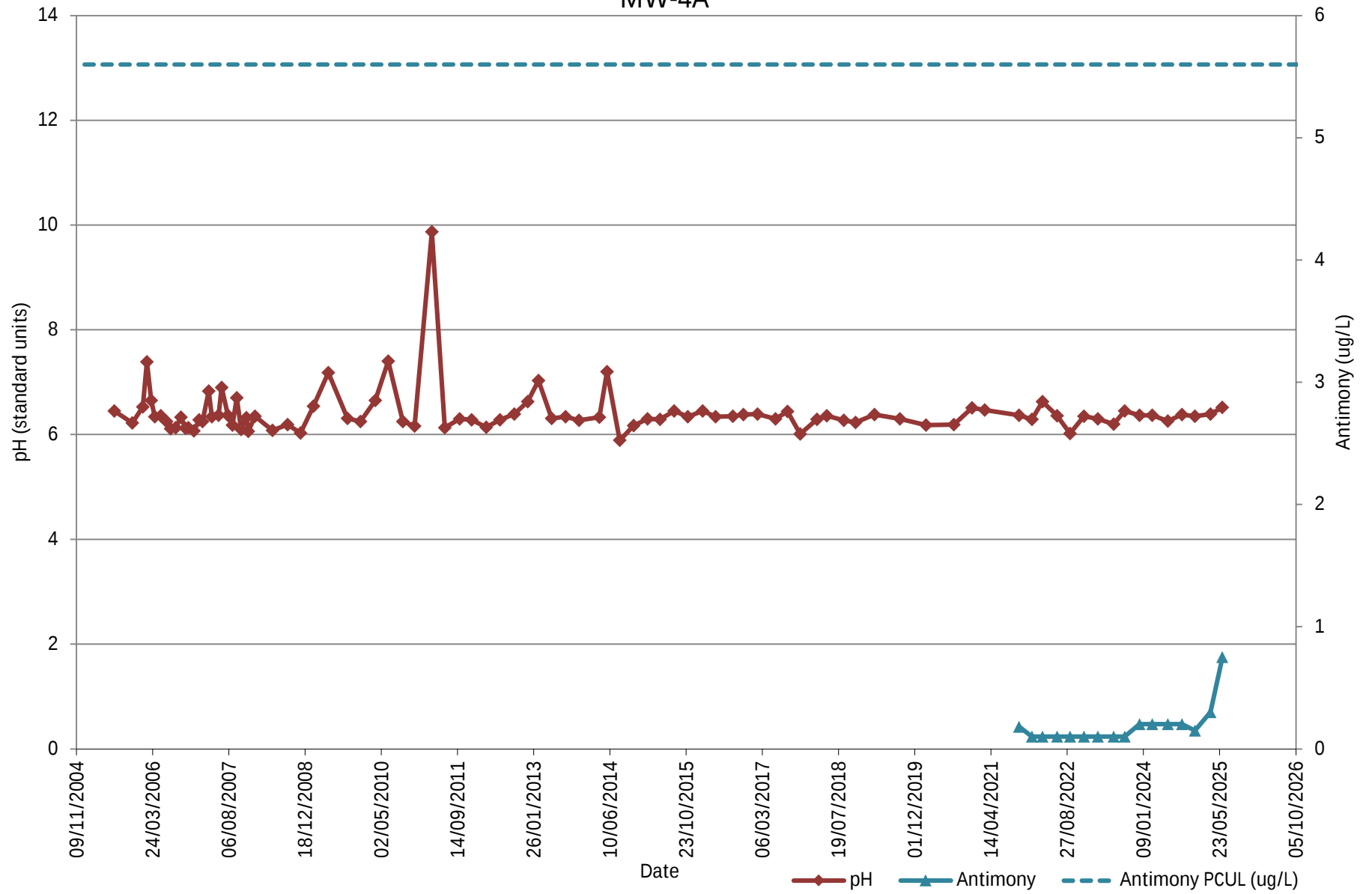
# LDA Shallow Monitoring Wells MW-4A



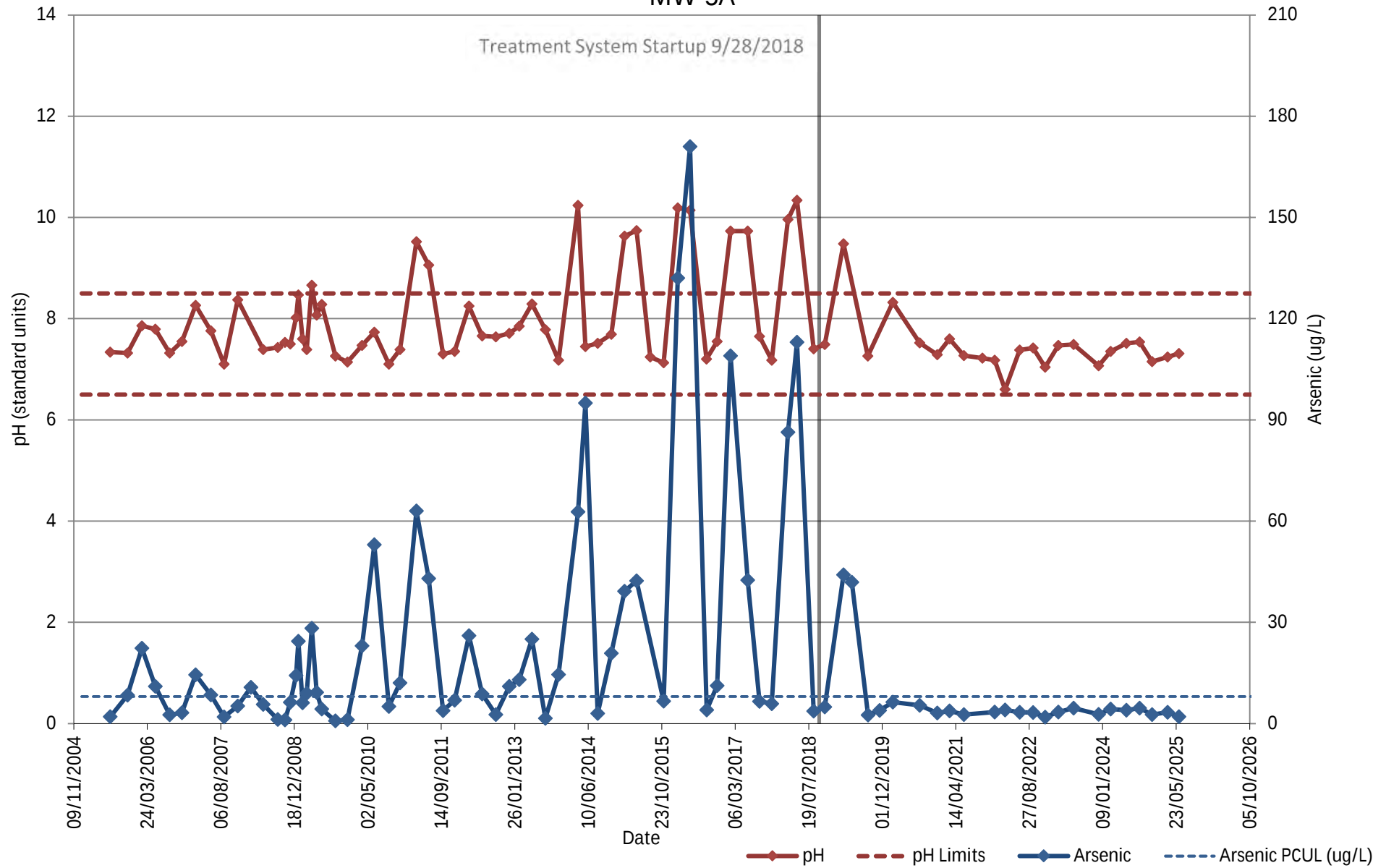
# LDA Shallow Monitoring Wells MW-4A



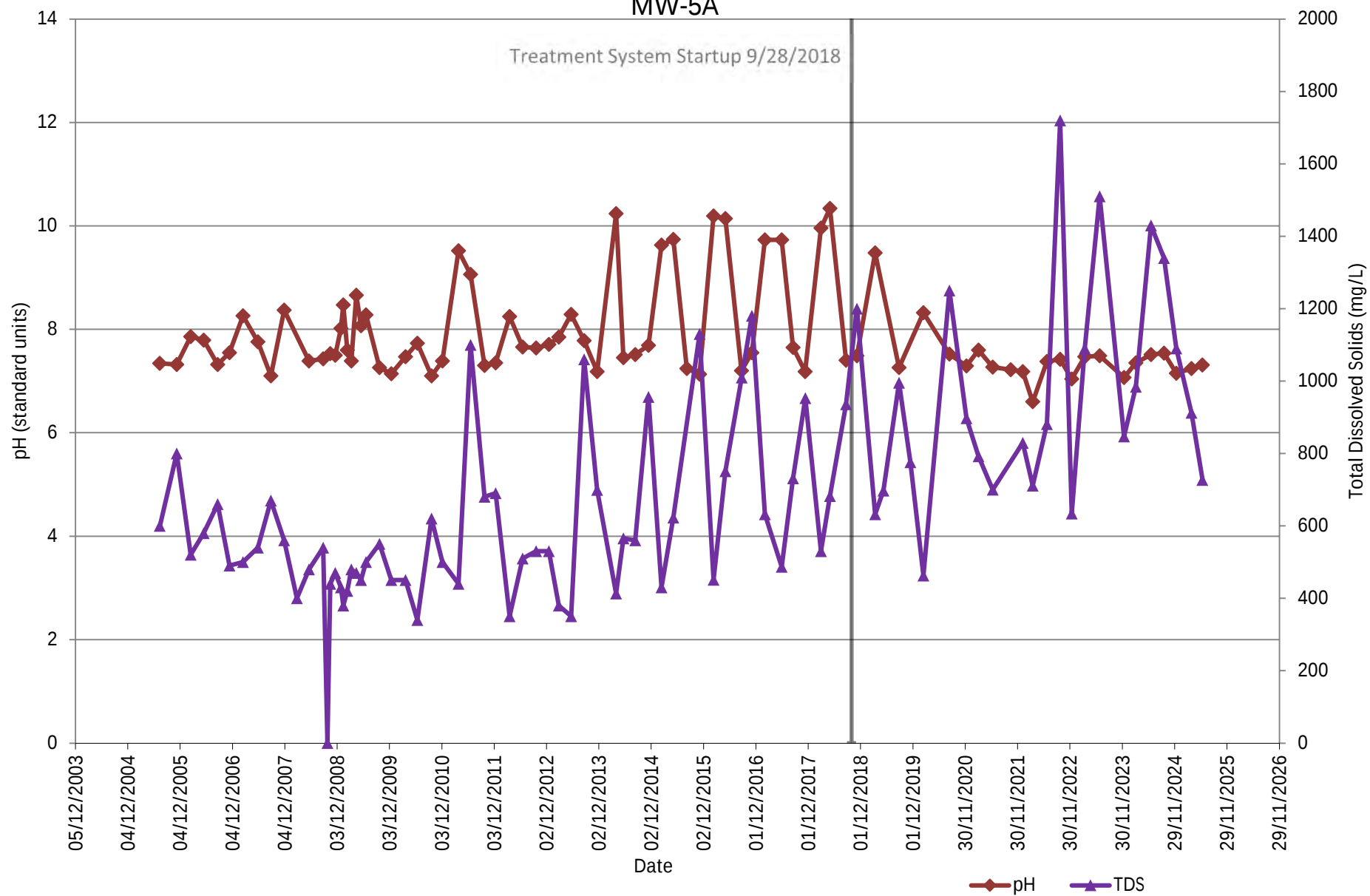
# LDA Shallow Monitoring Wells MW-4A



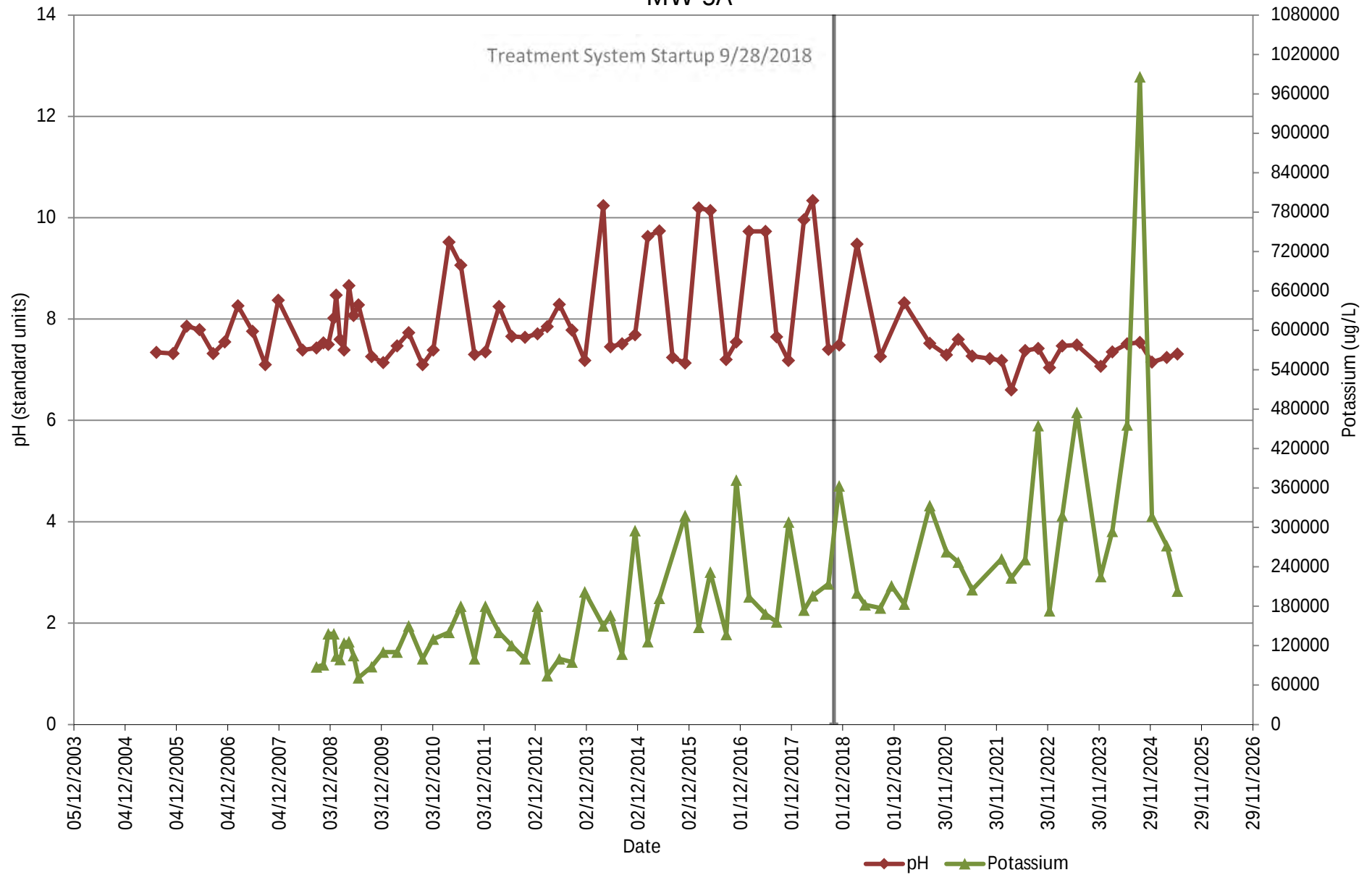
# LDA Shallow Monitoring Wells MW-5A



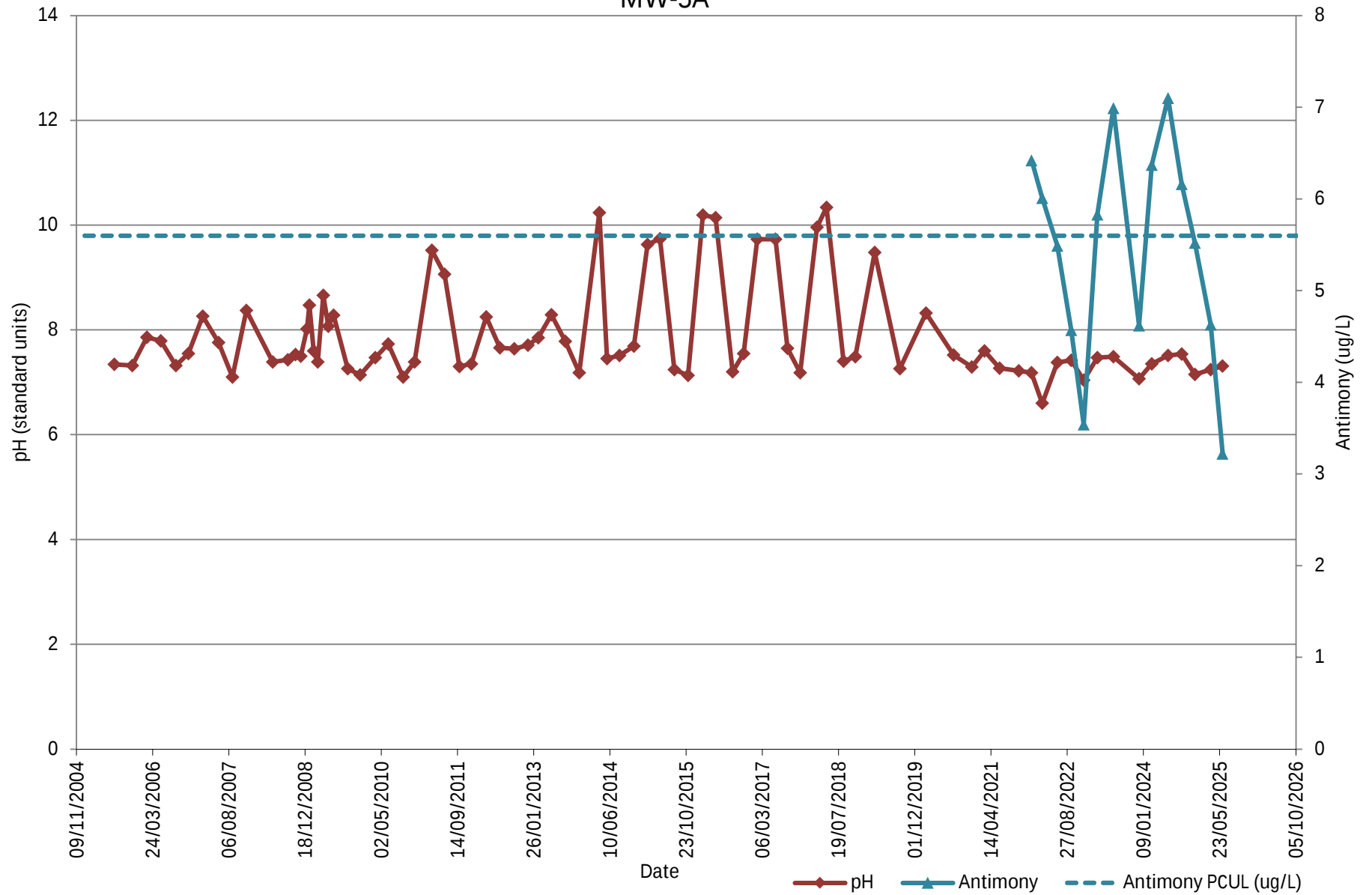
# LDA Shallow Monitoring Wells MW-5A



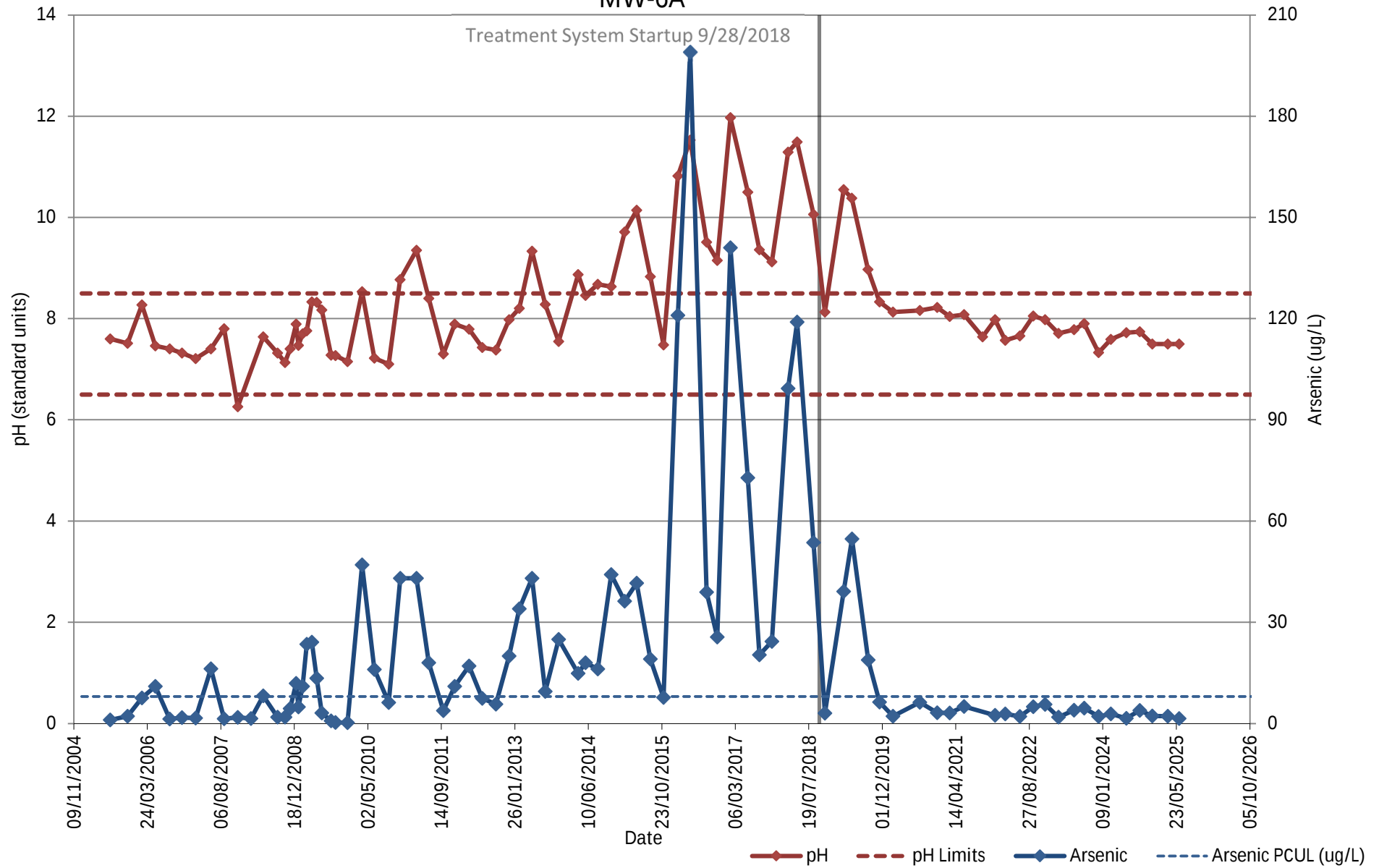
# LDA Shallow Monitoring Wells MW-5A



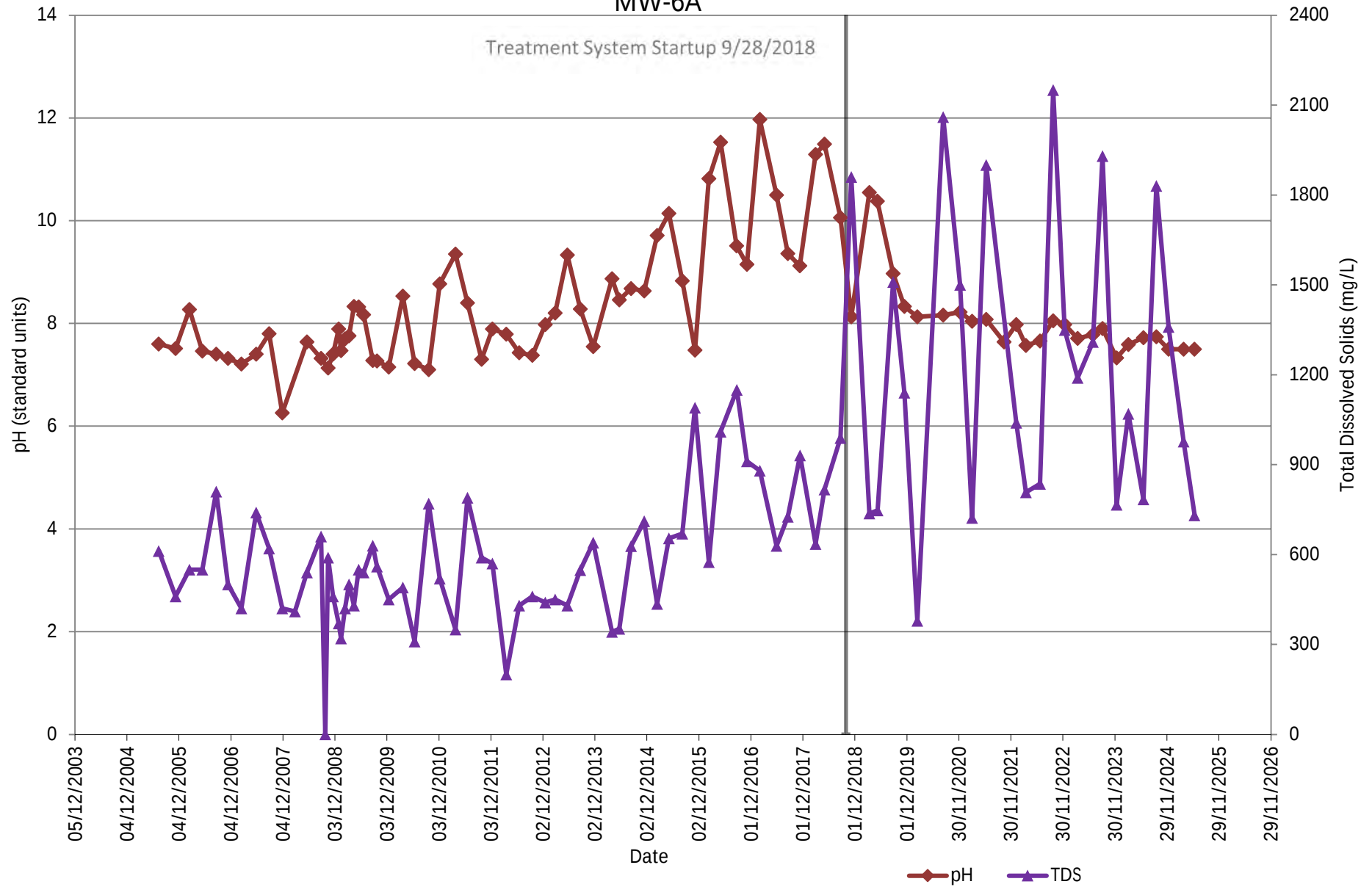
# LDA Shallow Monitoring Wells MW-5A



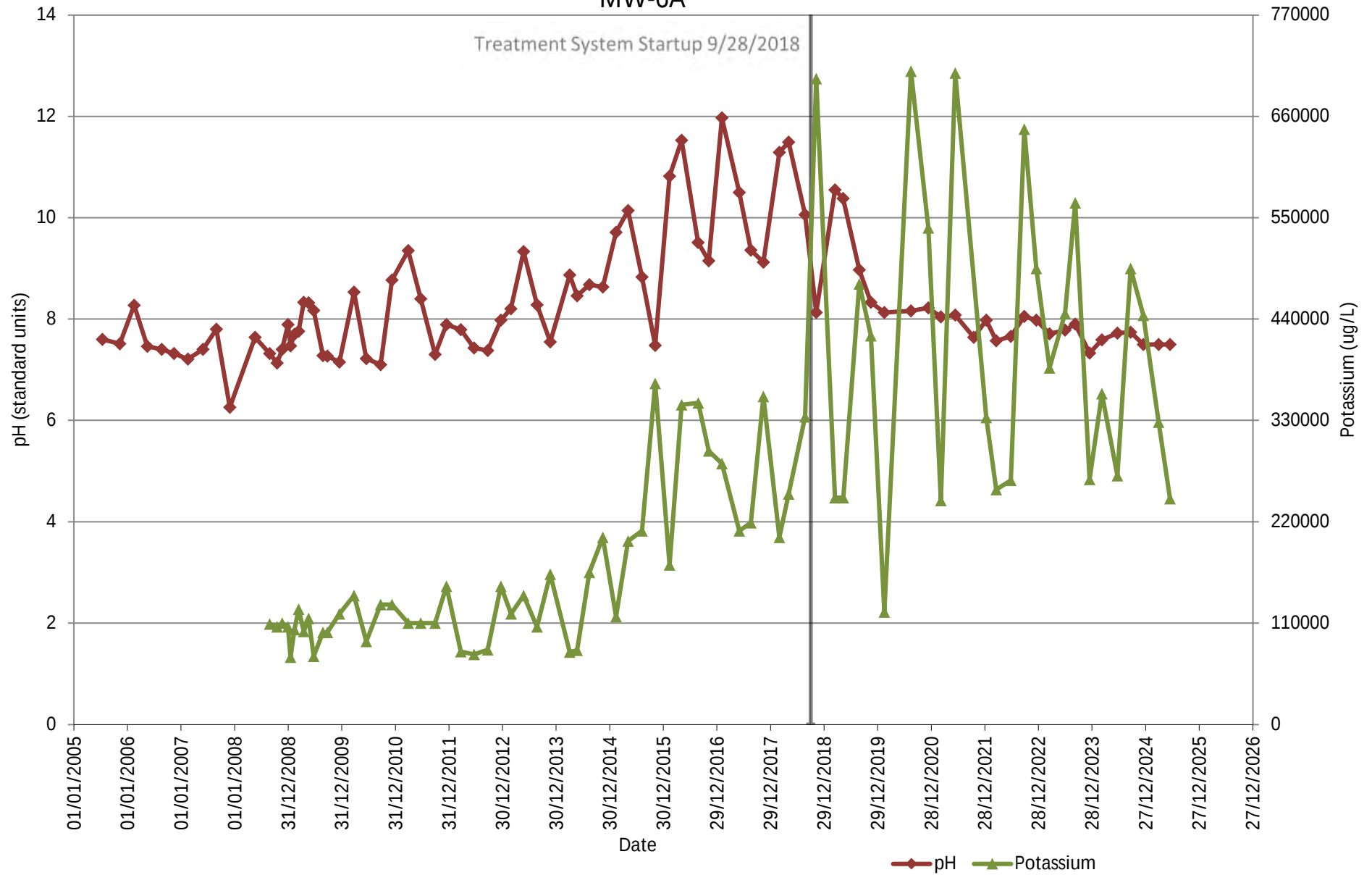
# LDA Shallow Monitoring Wells MW-6A



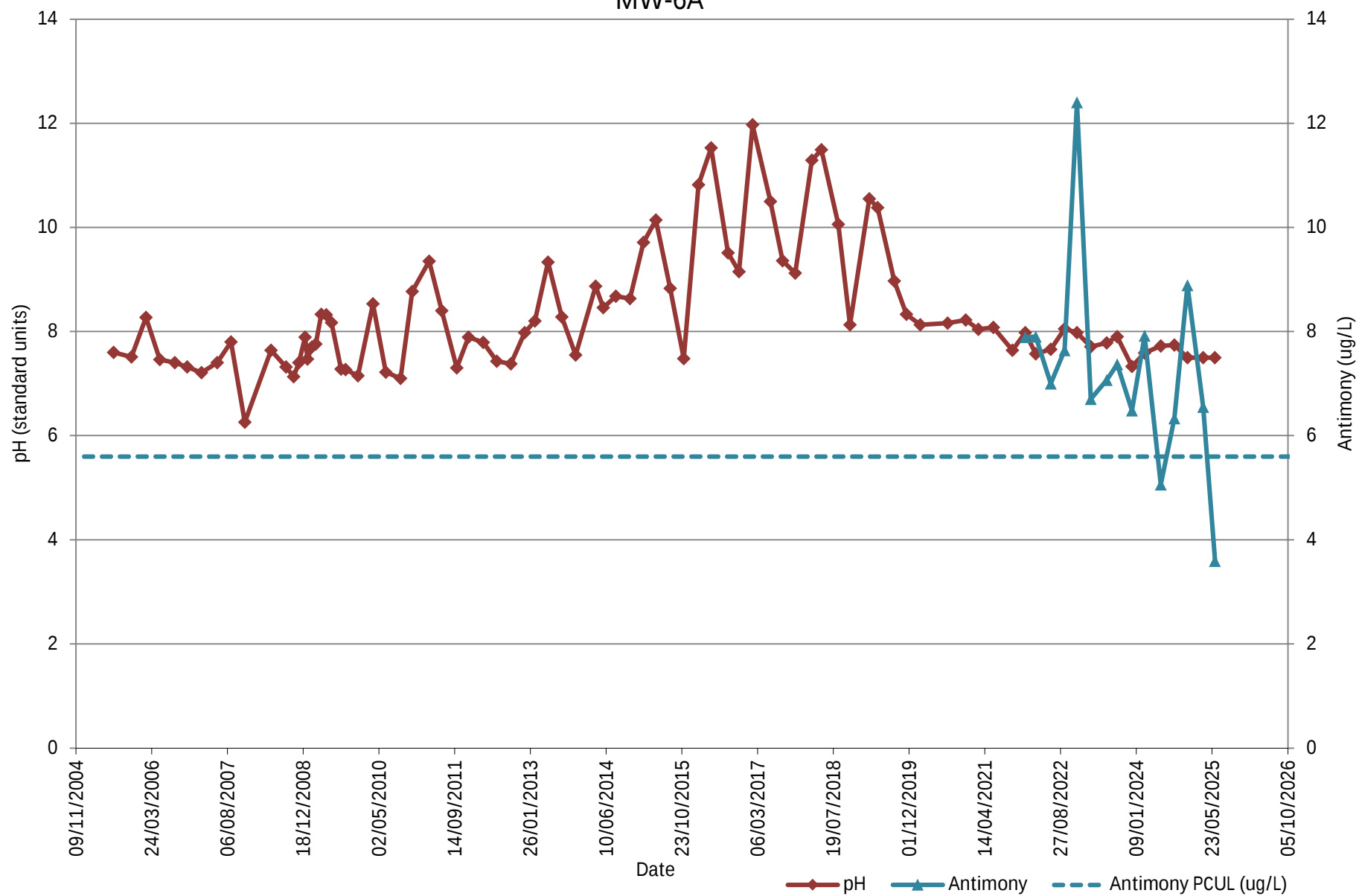
# LDA Shallow Monitoring Wells MW-6A



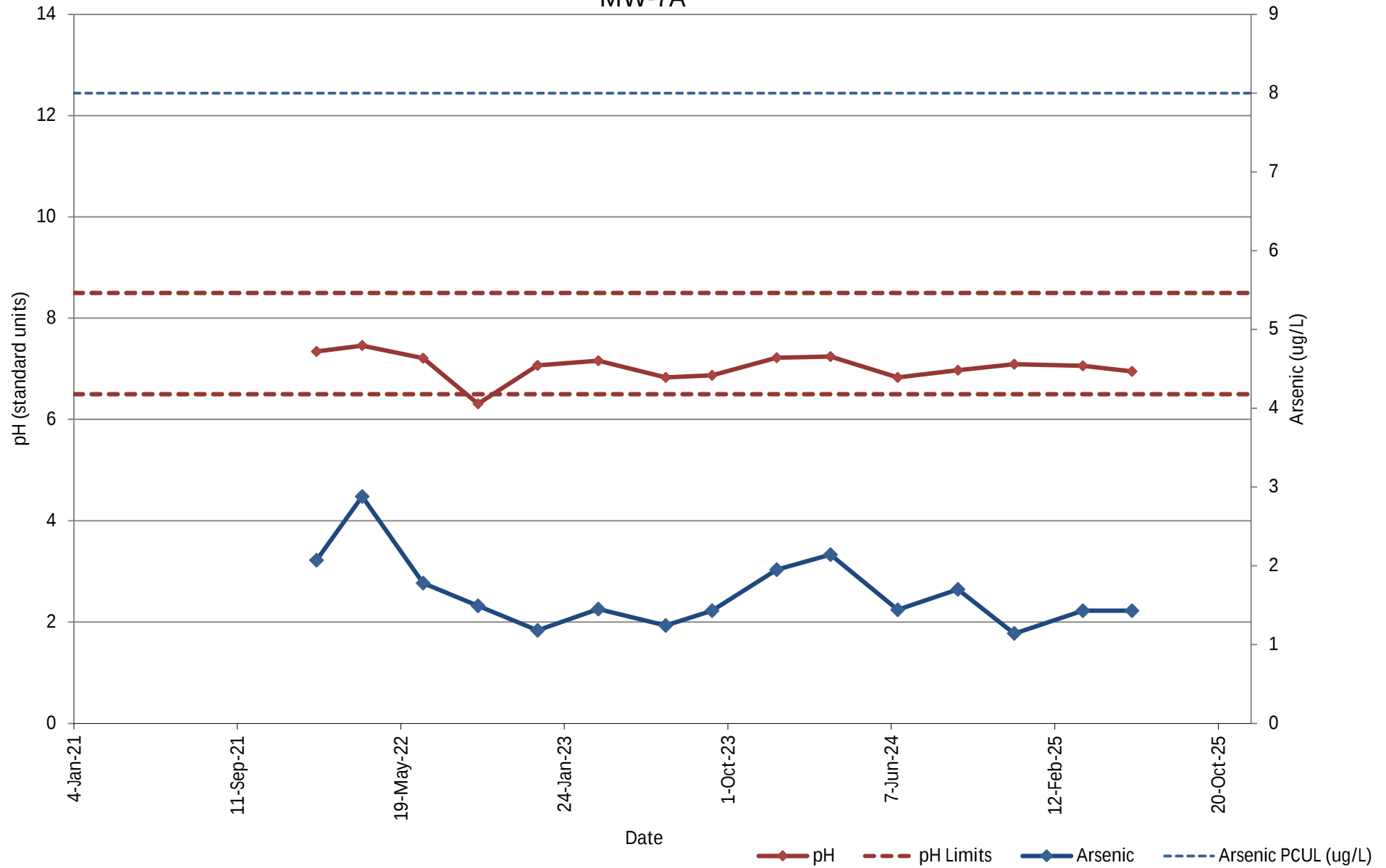
# LDA Shallow Monitoring Wells MW-6A



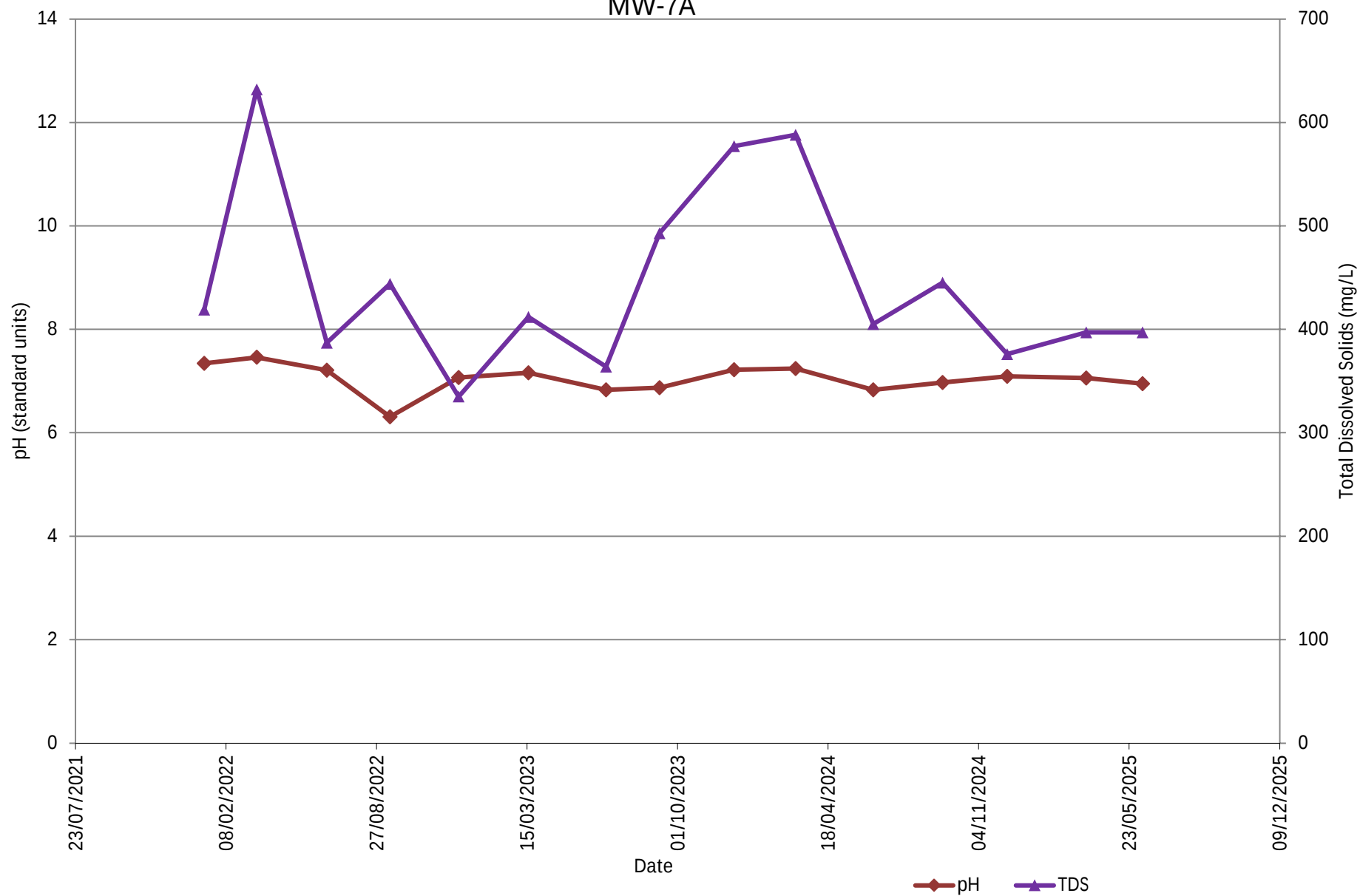
# LDA Shallow Monitoring Wells MW-6A



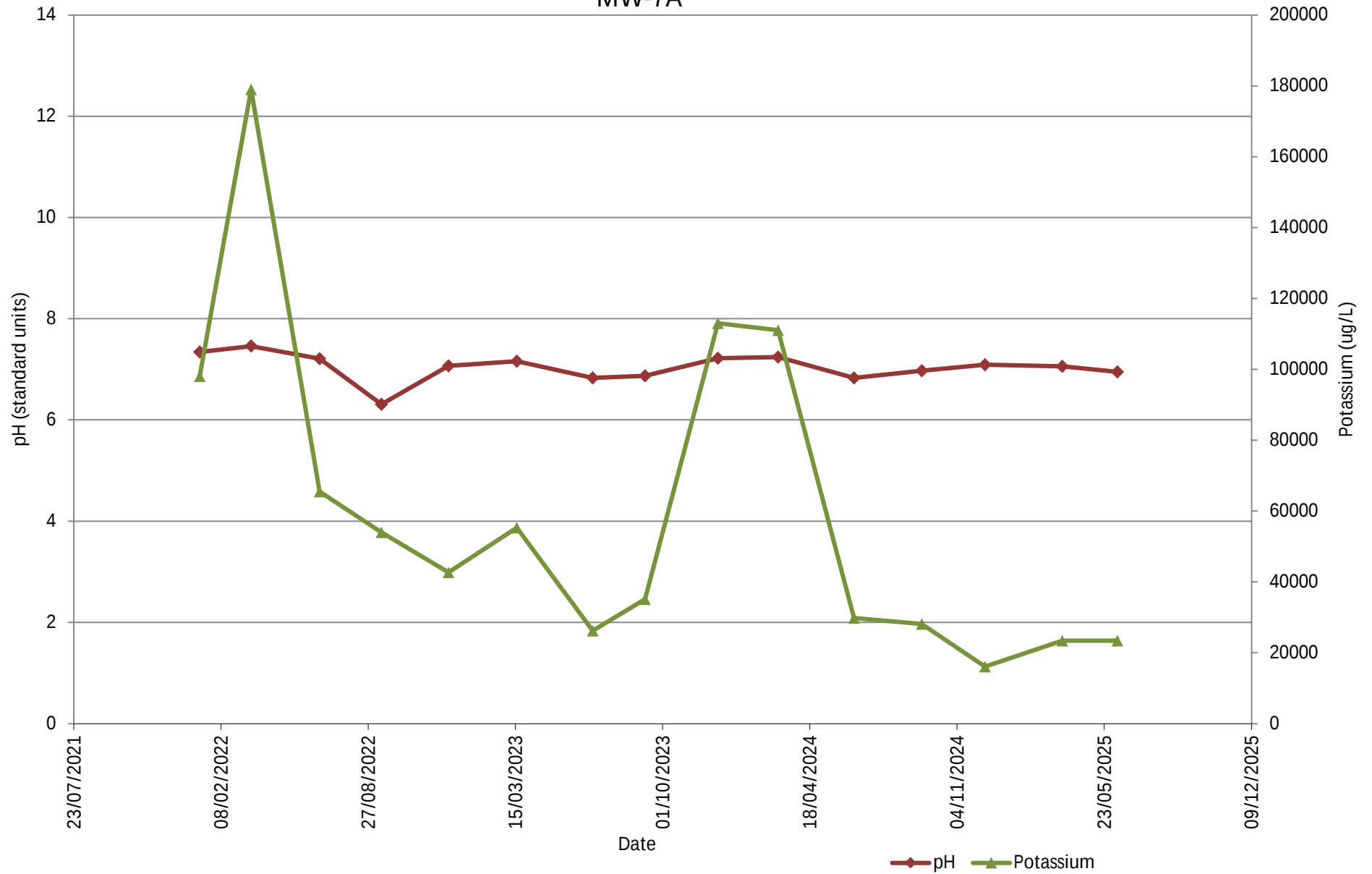
# LDA Shallow Monitoring Wells MW-7A



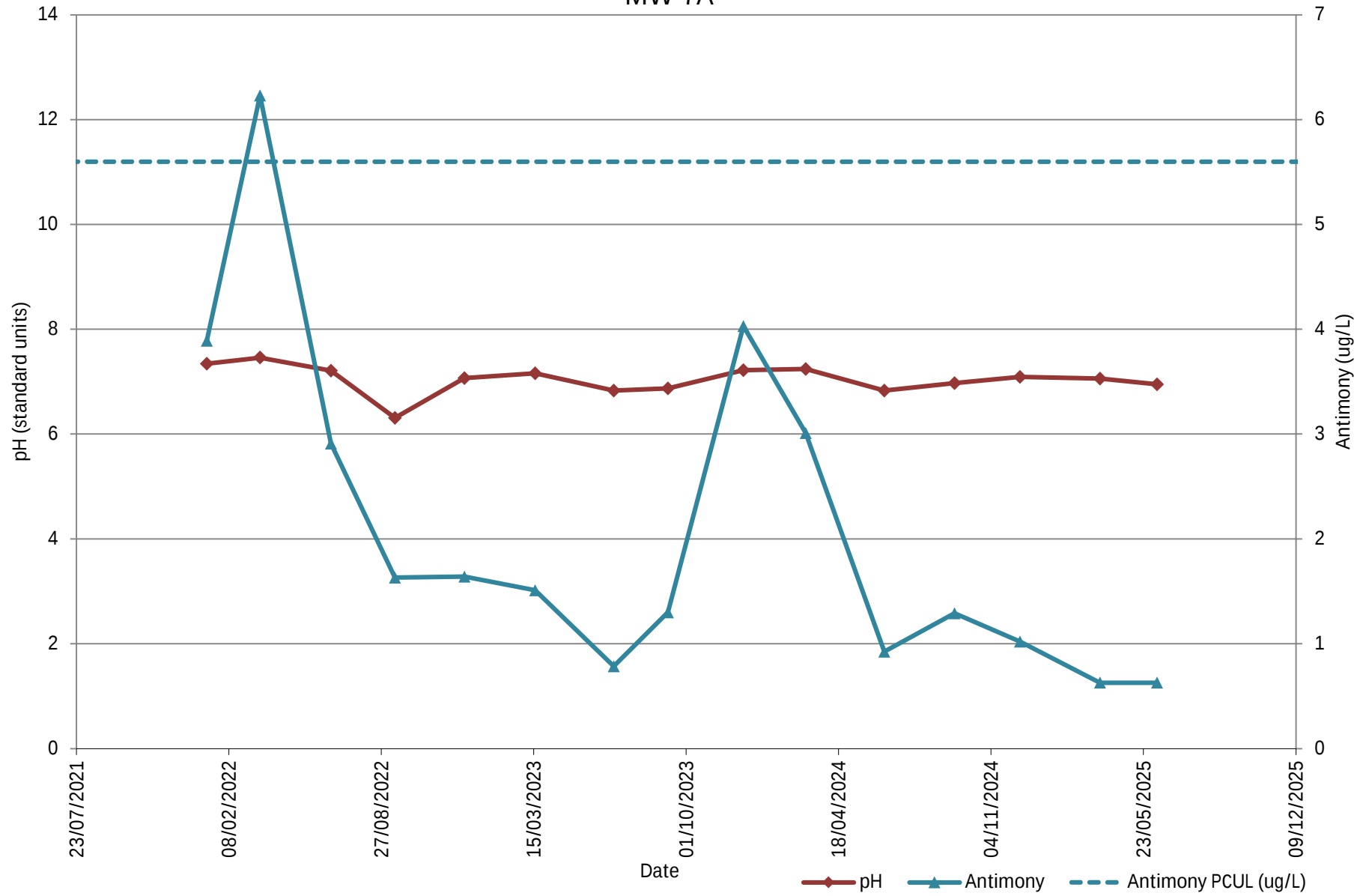
# LDA Shallow Monitoring Wells MW-7A



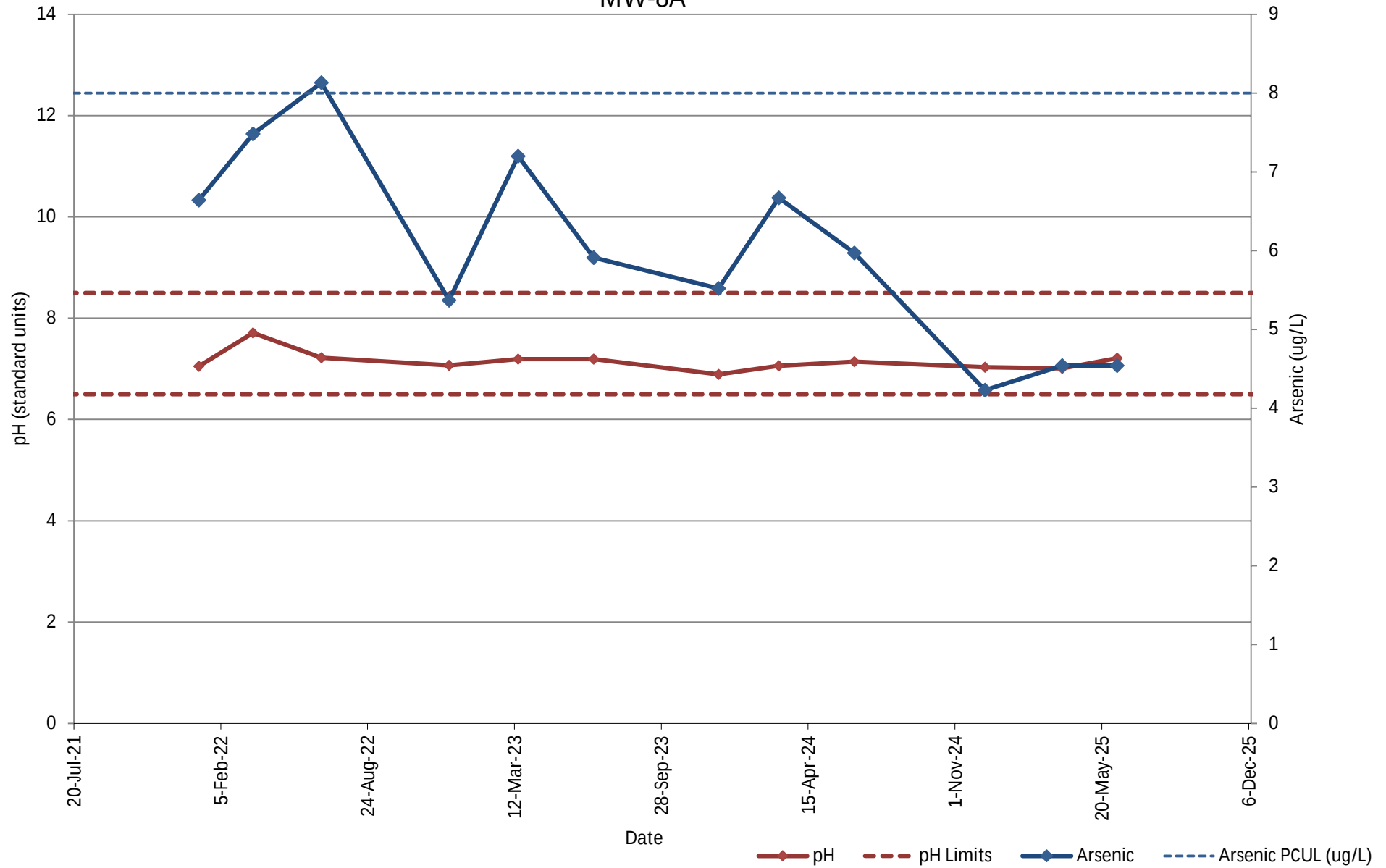
# LDA Shallow Monitoring Wells MW-7A



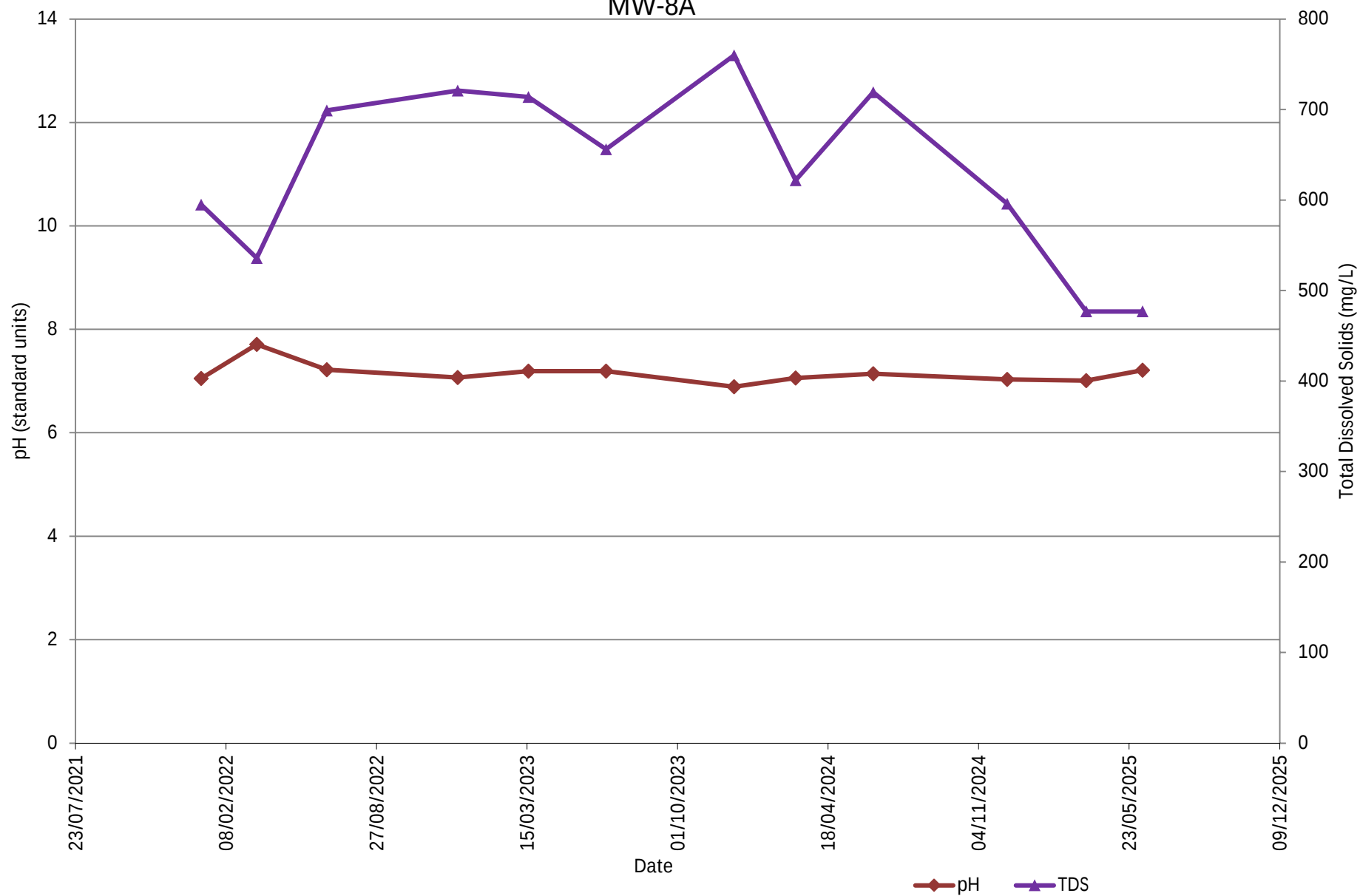
# LDA Shallow Monitoring Wells MW-7A



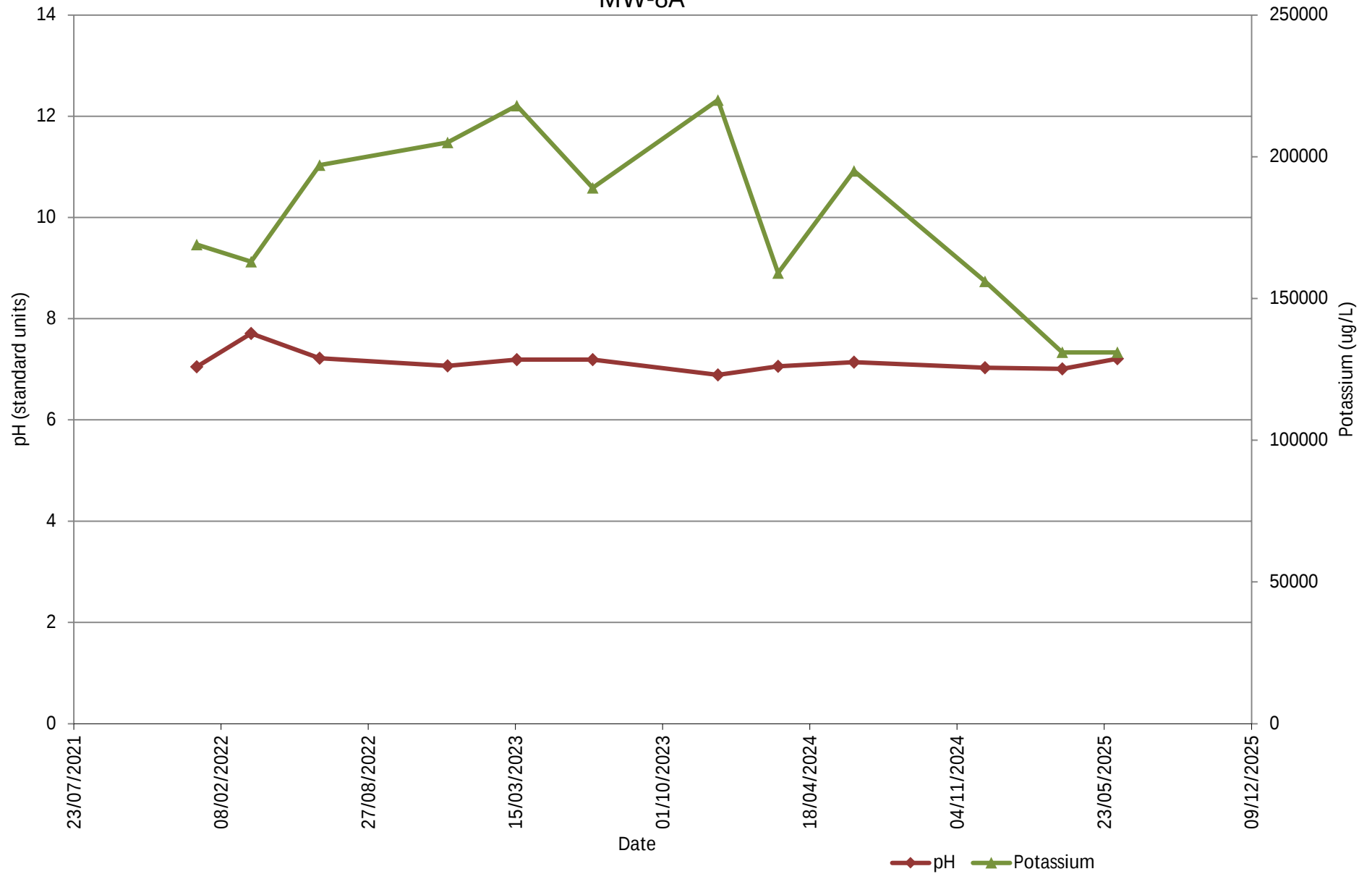
# LDA Shallow Monitoring Wells MW-8A



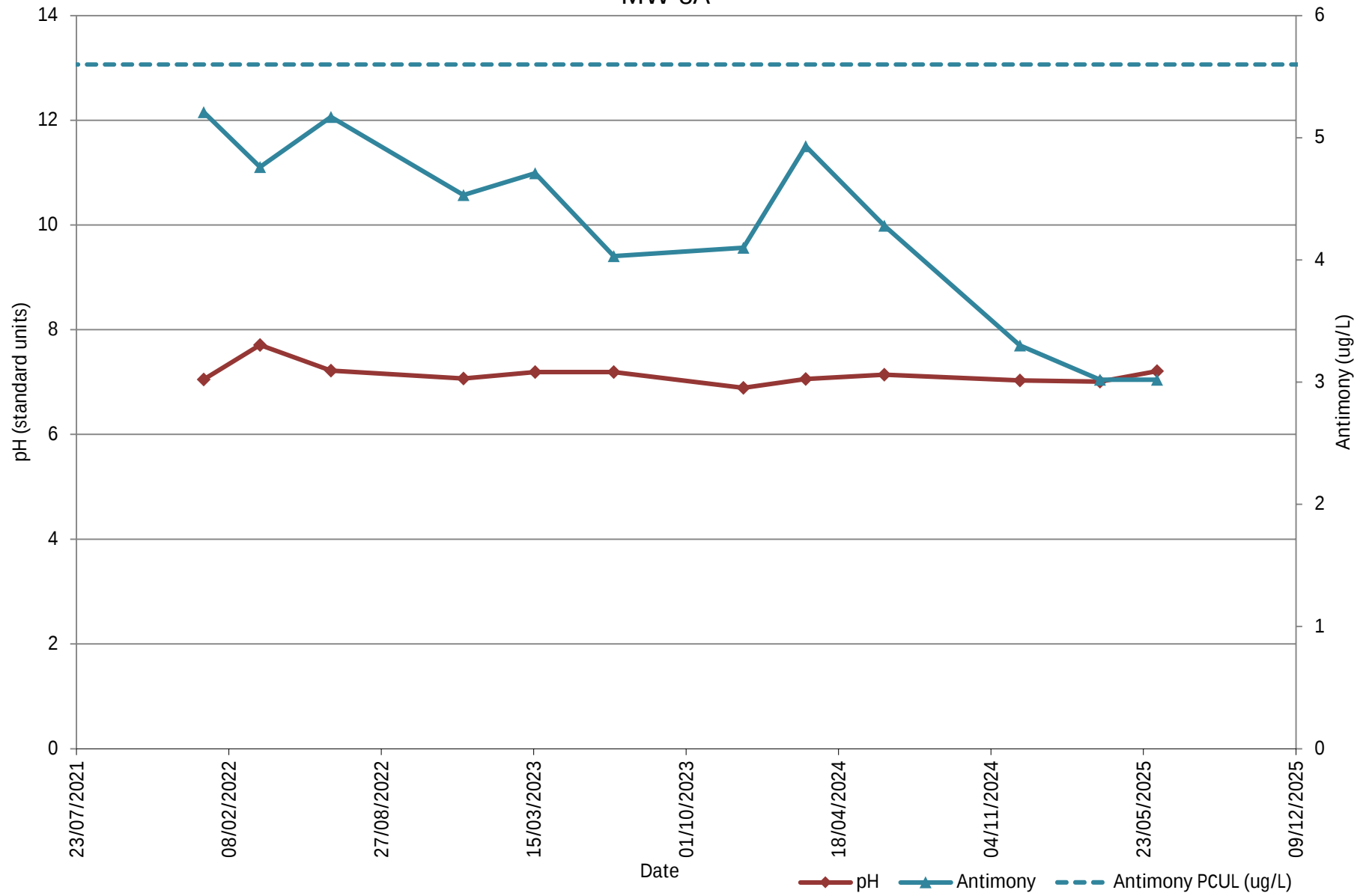
# LDA Shallow Monitoring Wells MW-8A



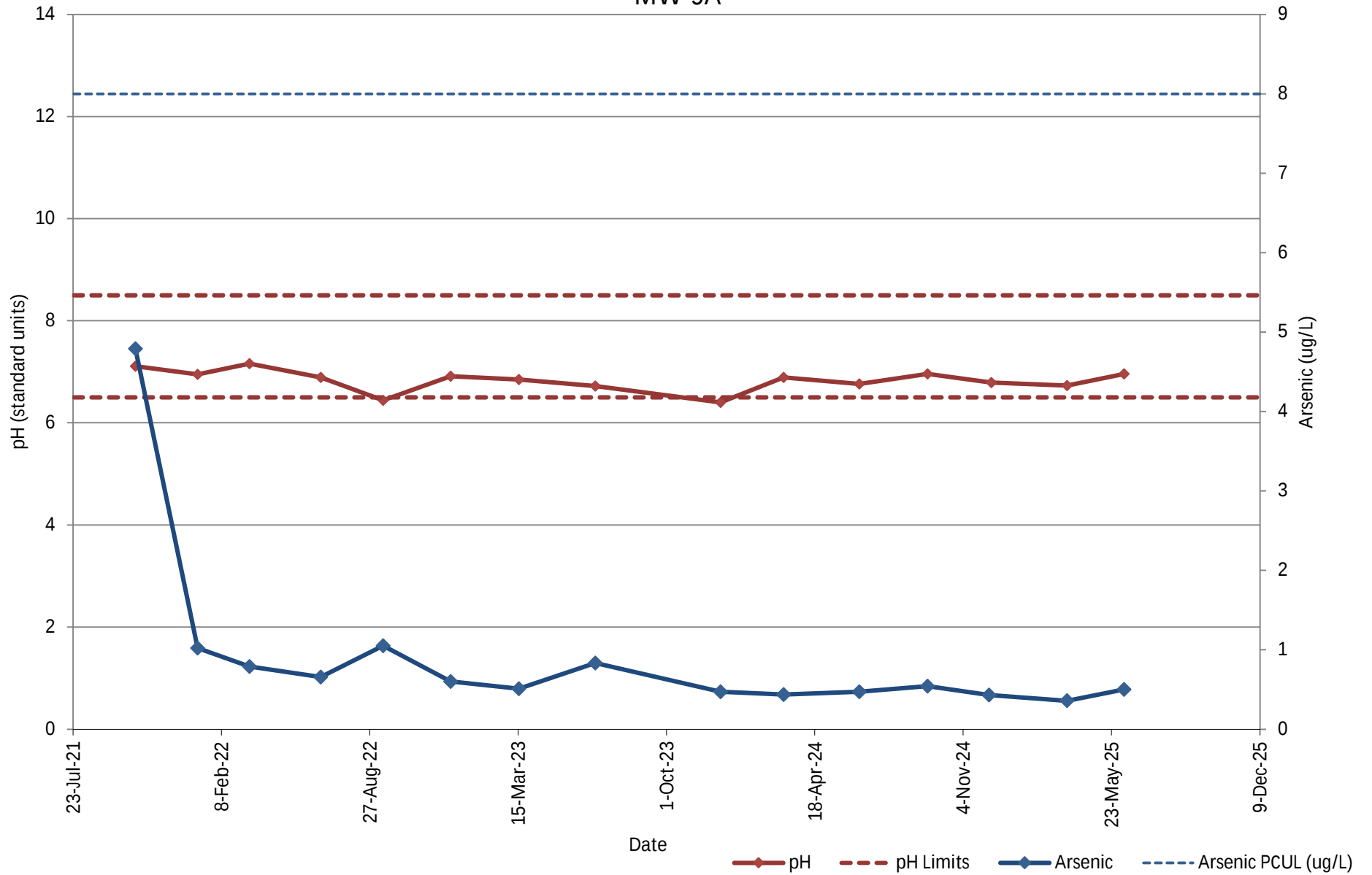
# LDA Shallow Monitoring Wells MW-8A



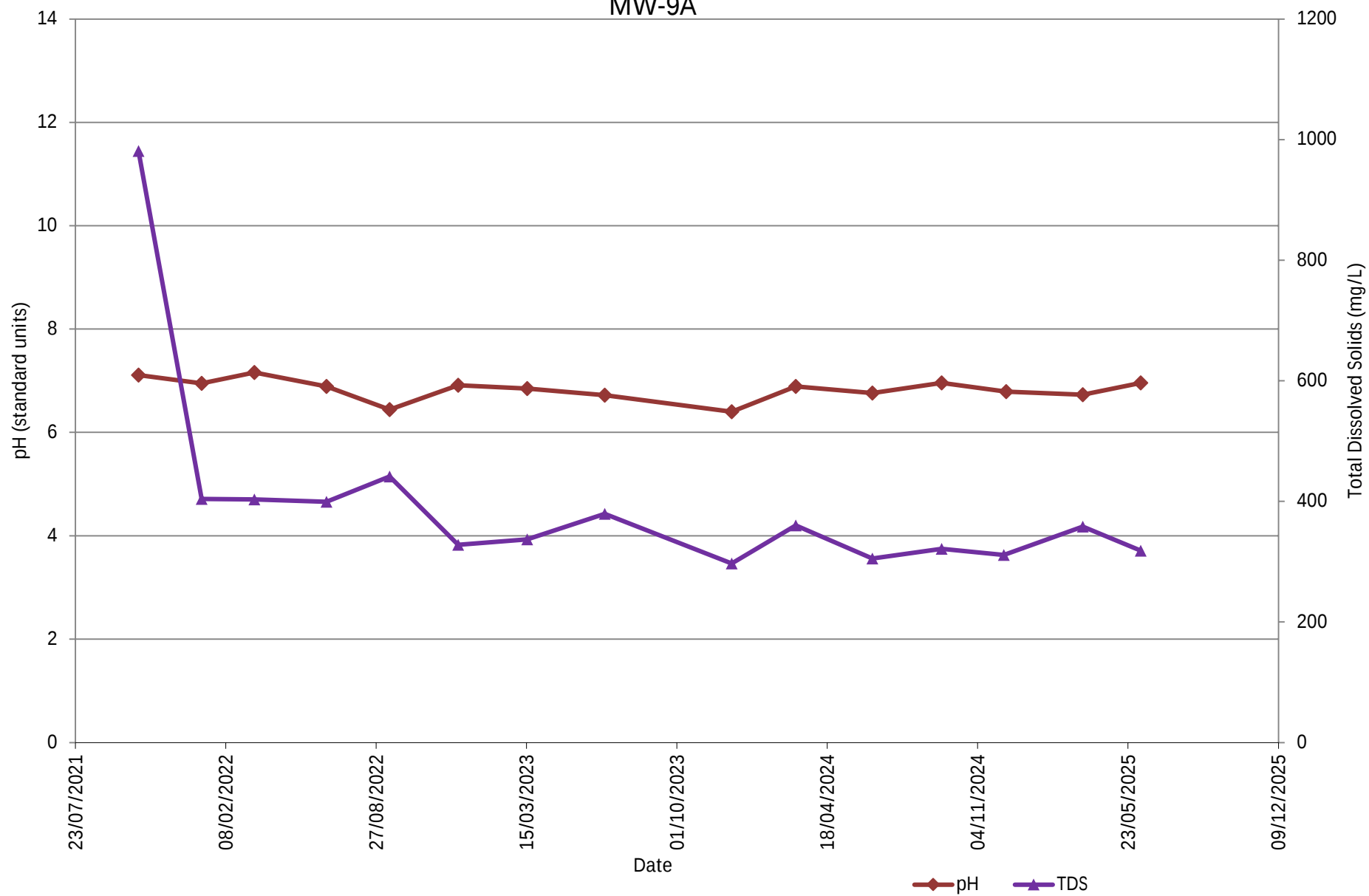
# LDA Shallow Monitoring Wells MW-8A



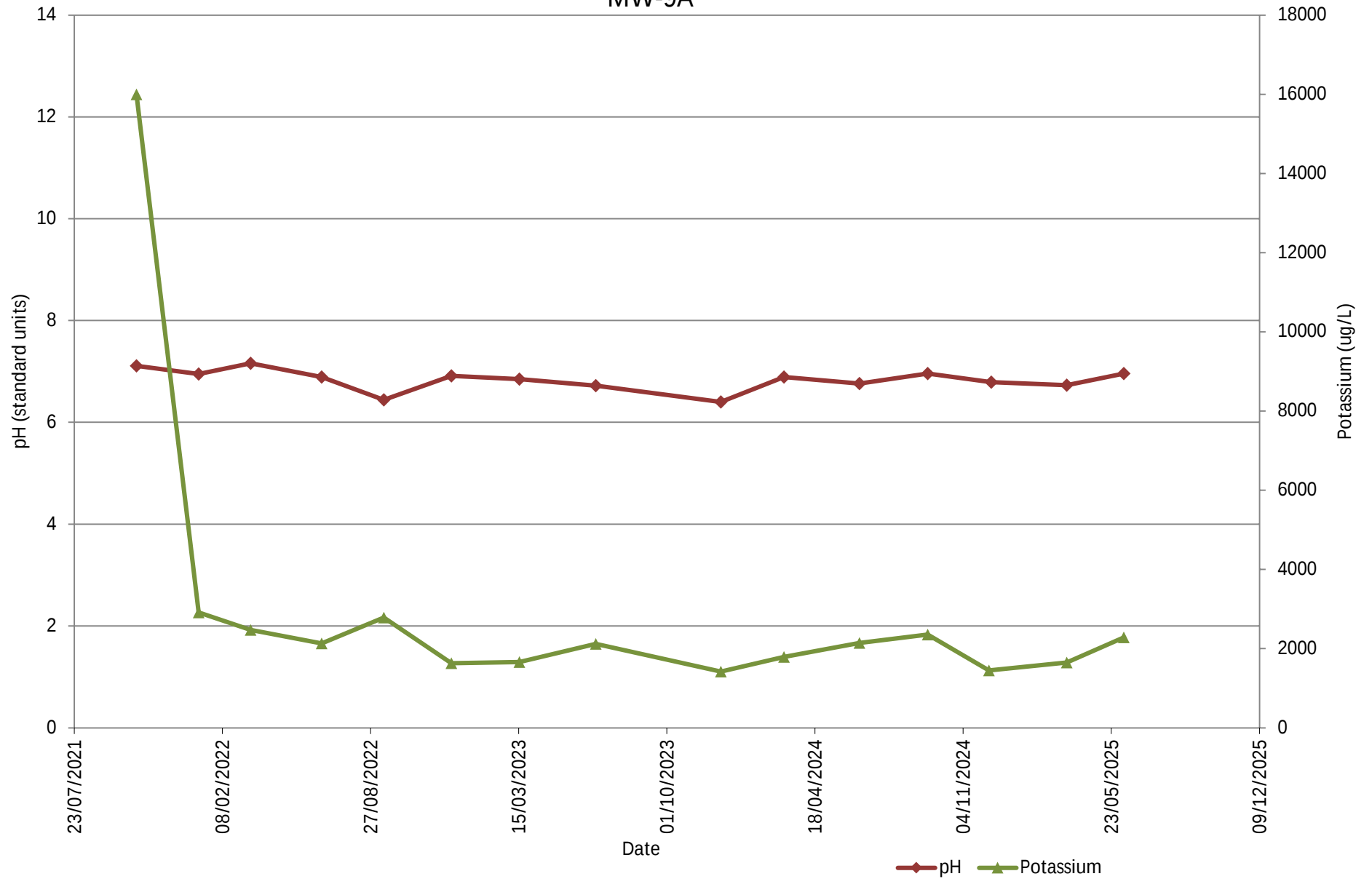
# LDA Shallow Monitoring Wells MW-9A



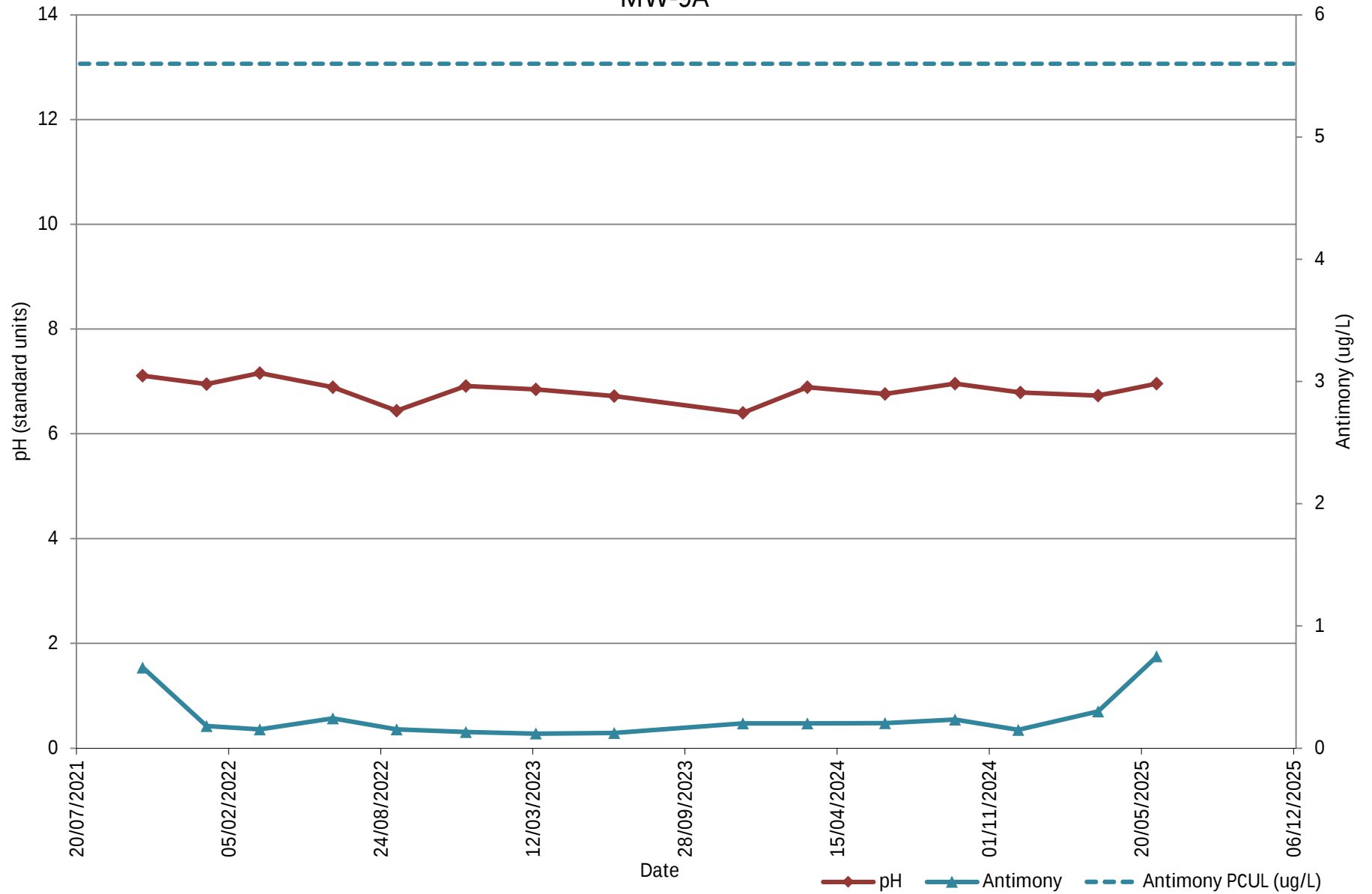
# LDA Shallow Monitoring Wells MW-9A



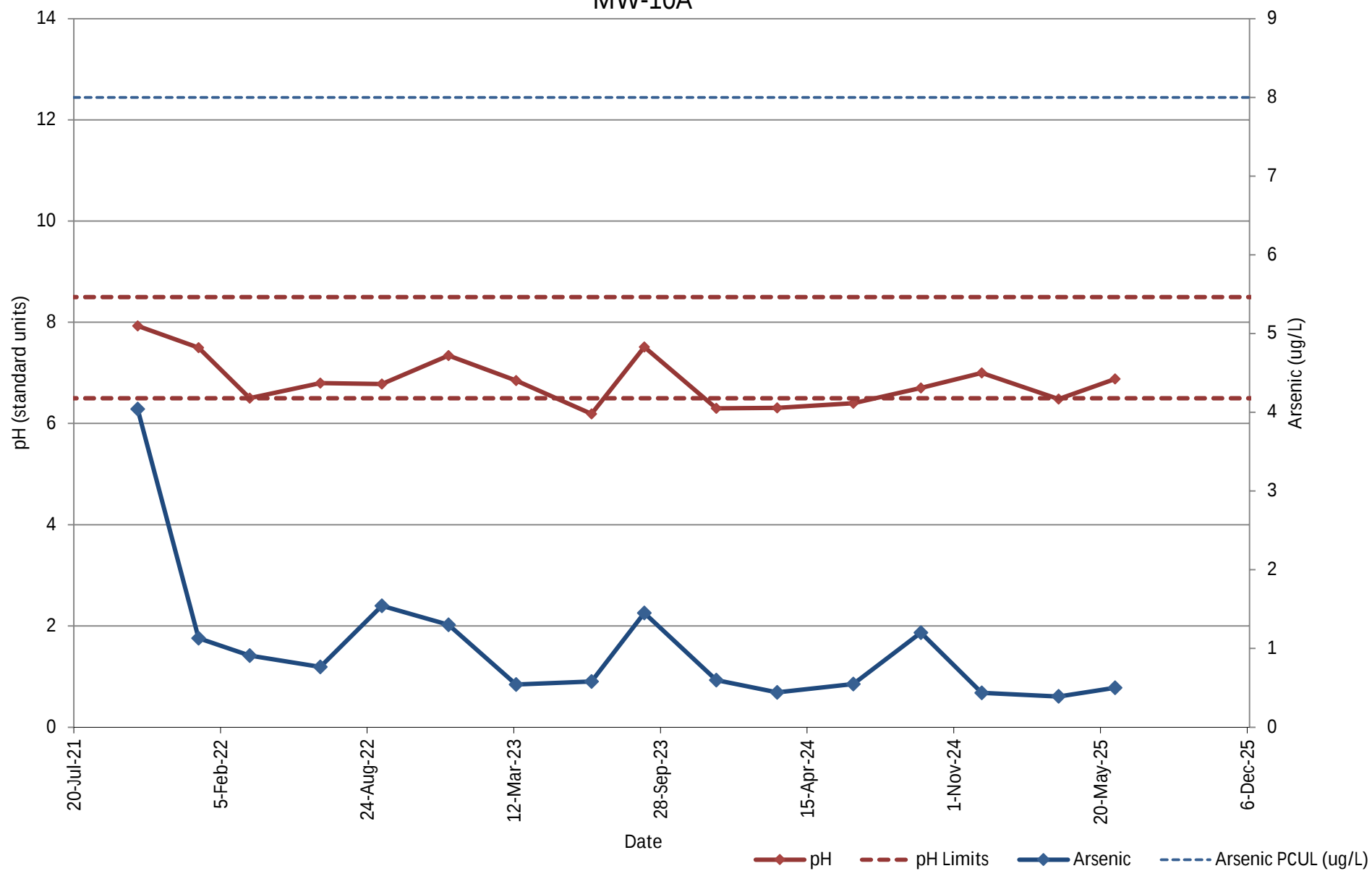
# LDA Shallow Monitoring Wells MW-9A



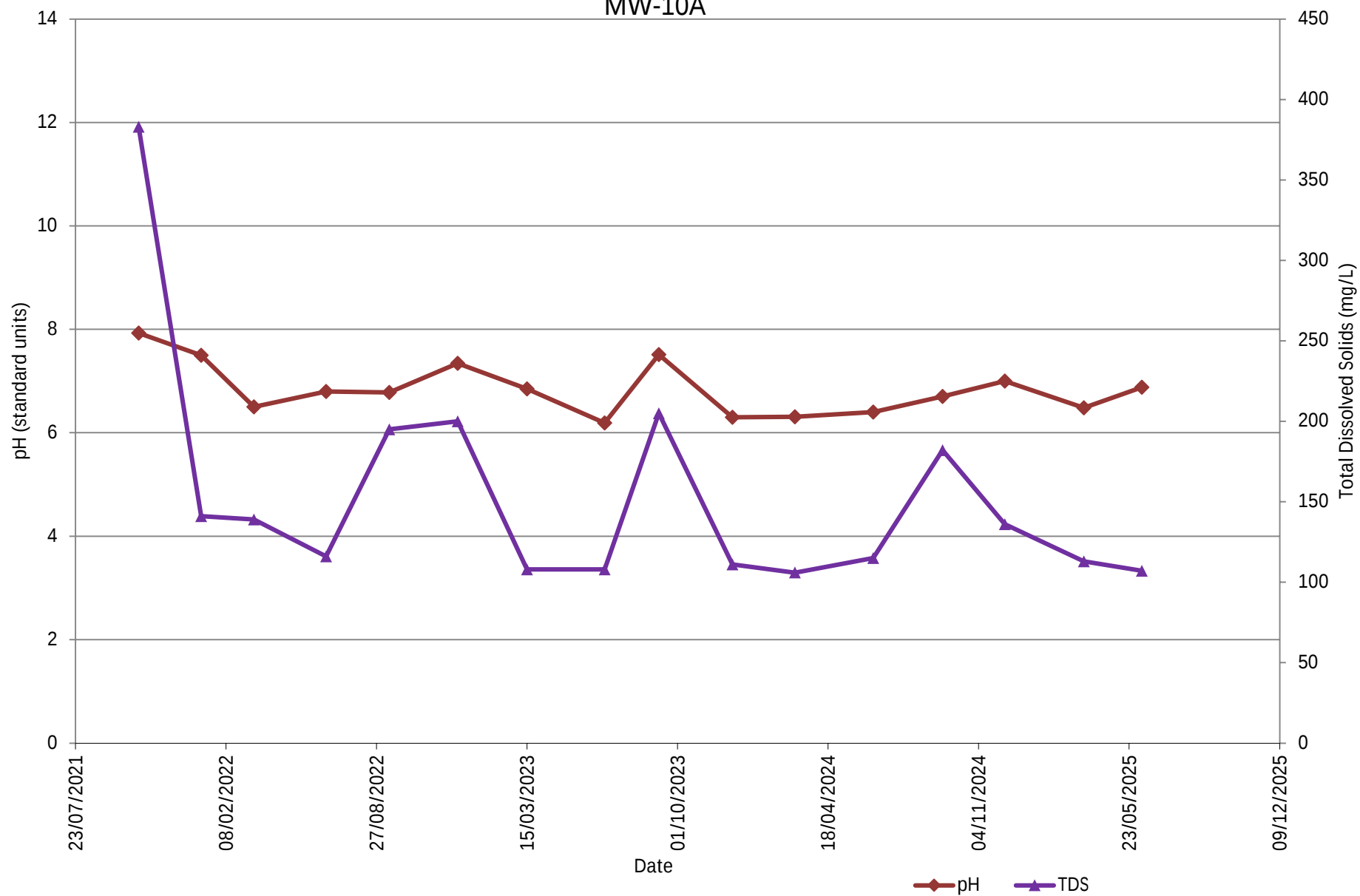
# LDA Shallow Monitoring Wells MW-9A



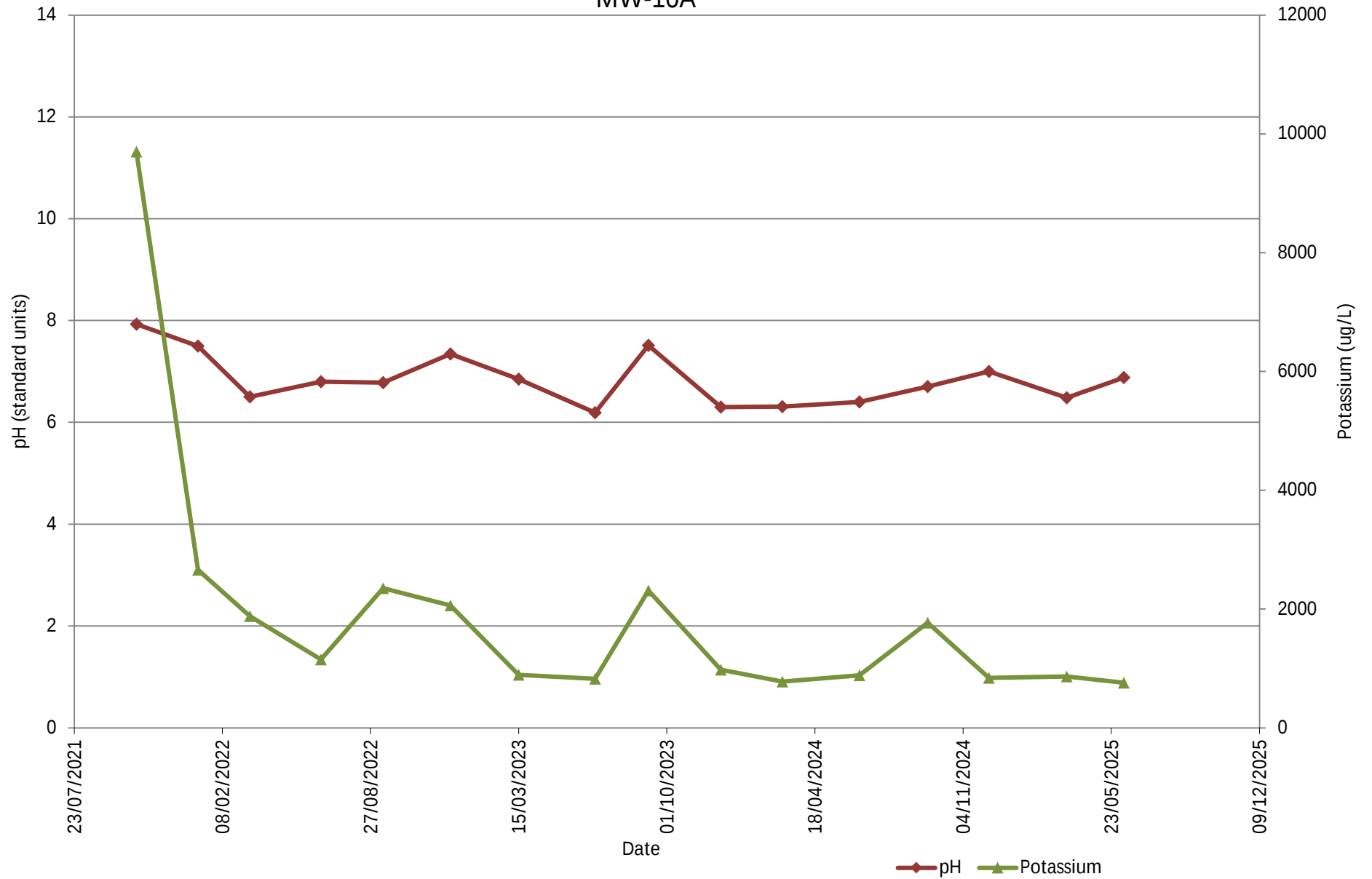
# LDA Shallow Monitoring Wells MW-10A



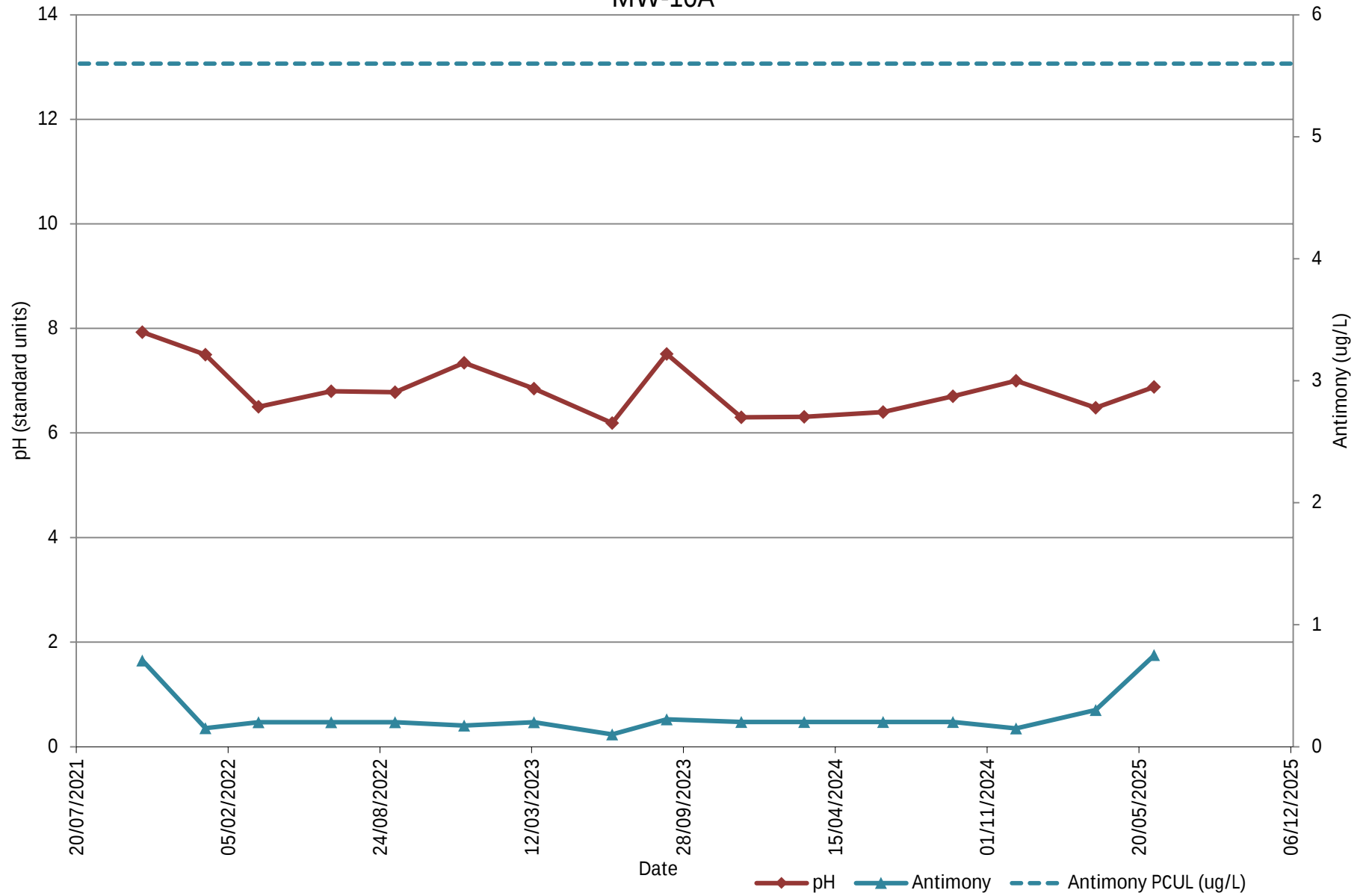
# LDA Shallow Monitoring Wells MW-10A



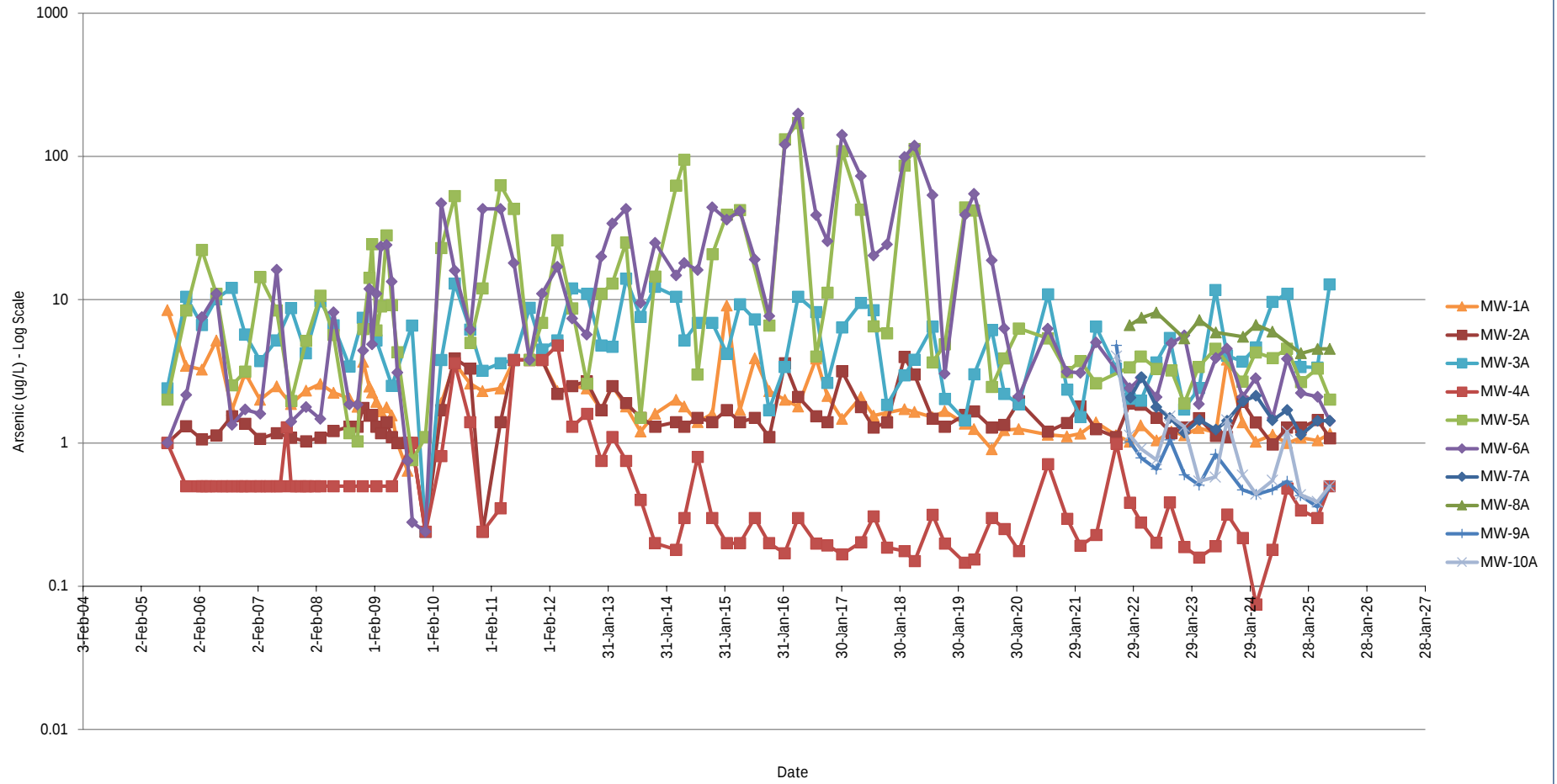
# LDA Shallow Monitoring Wells MW-10A



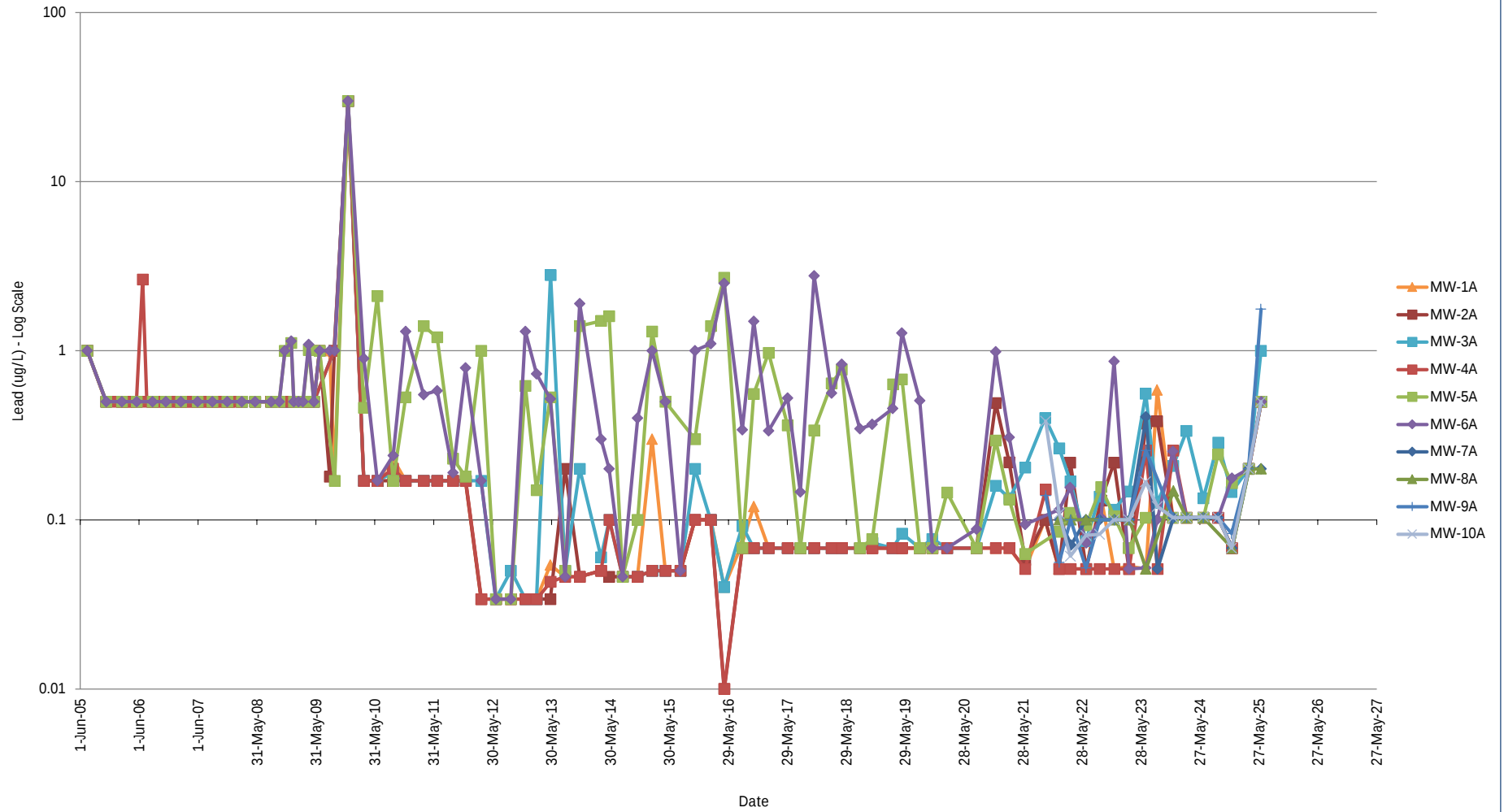
# LDA Shallow Monitoring Wells MW-10A



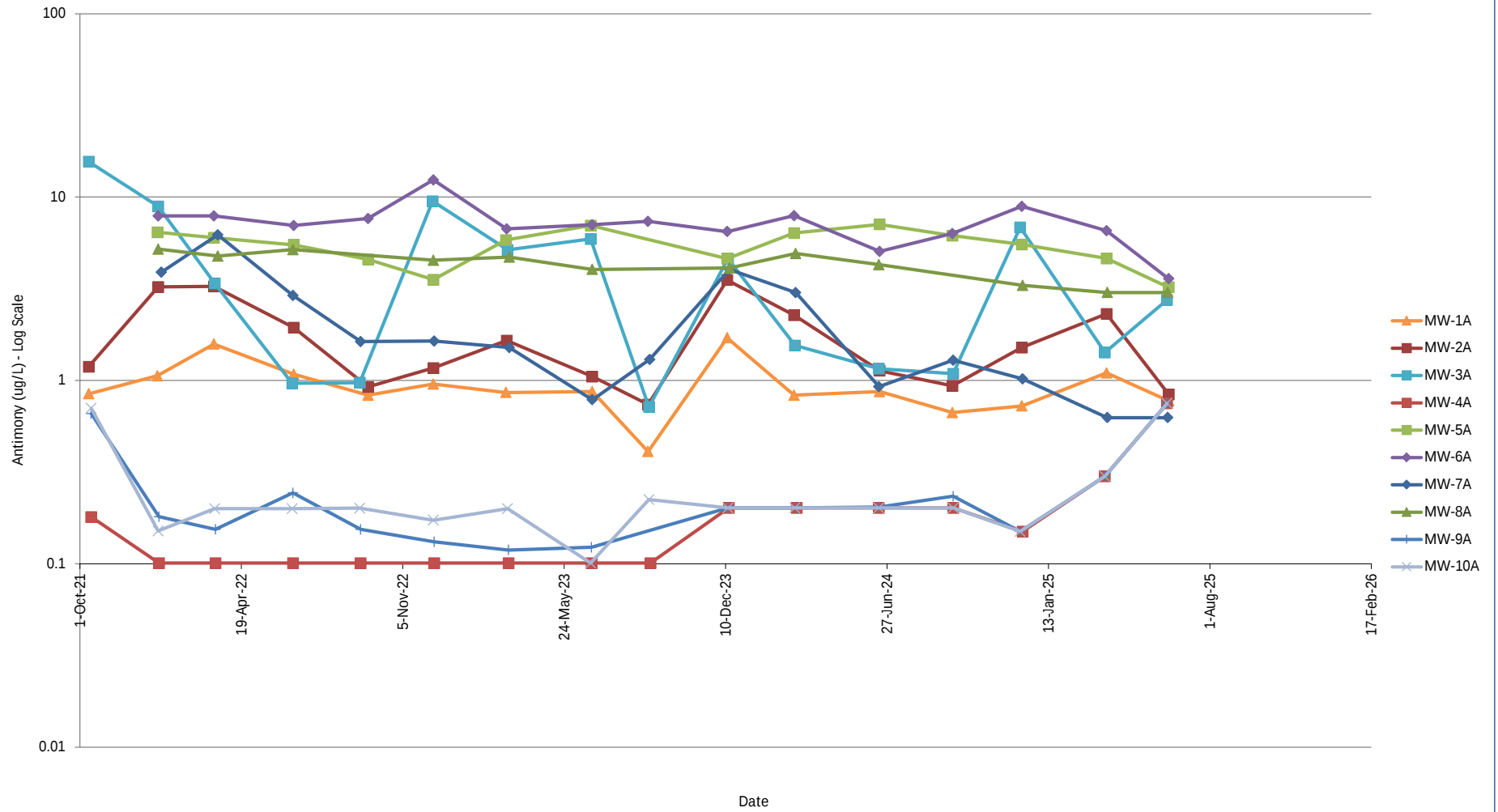
LDA Shallow Monitoring Wells



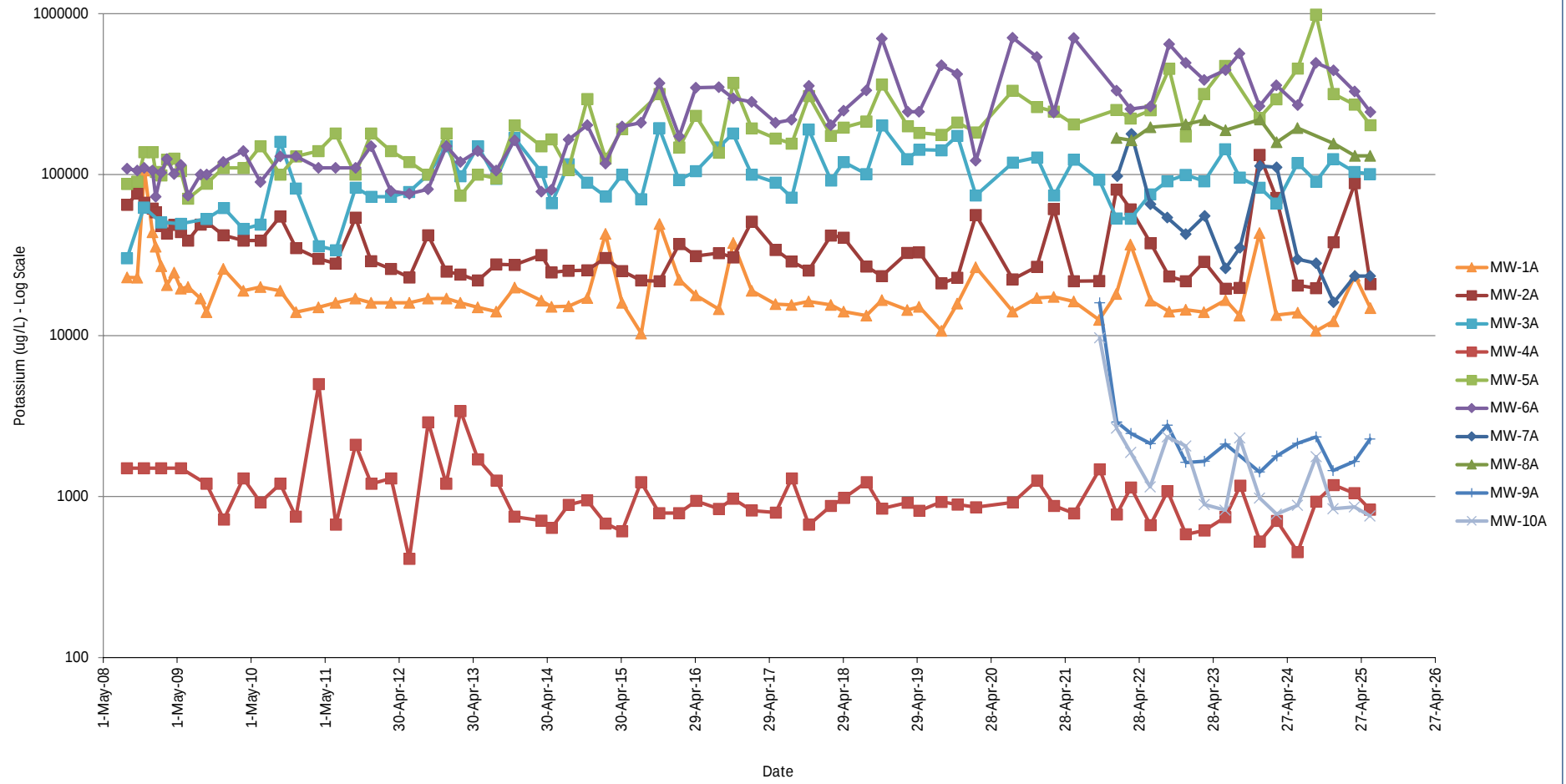
LDA Shallow Monitoring Wells



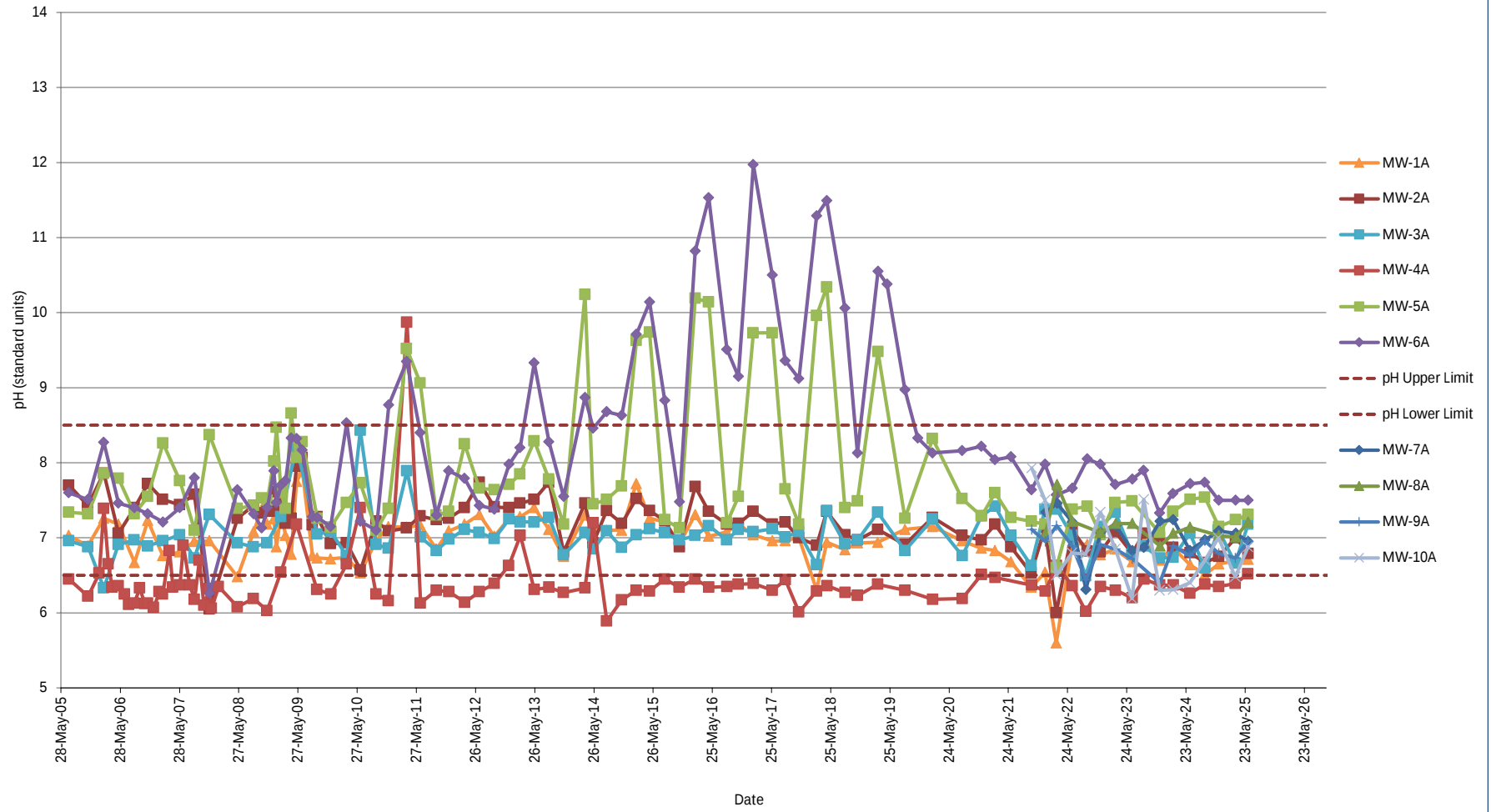
LDA Shallow Monitoring Wells



LDA Shallow Monitoring Wells



LDA ShallowMonitoring Wells



**APPENDIX C**

**Data Validation Report and  
Laboratory Analytical Results**

**DATA VALIDATION CHECKLIST**

|                                  |                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Project Name:</b>             | Ravensdale Project                                                                                                                                                                                                                                                                                                                                             |
| <b>Project Number:</b>           | US-WSP-31406578.8318/300                                                                                                                                                                                                                                                                                                                                       |
| <b>Sample Identification(s):</b> | MW-1A-0625, MW-2A-0625, MW-3A-0625, MW-4A-0625, MW-5A-0625, MW-6A-0625, MW-7A-0625, MW-8A-0625, MW-9A-0625, MW-10A-0625, Infiltration Ponds-0625, Still Well-0625, Interceptor Trench-0625, MW-35A-0625 (field duplicate), MW-45A-0625 (field duplicate), MW-55A-0625 (field duplicate), MW-99-1-0325 (field blank), Tank-Influent, Sand-Effluent, As-Effluent |
| <b>Sample Date(s):</b>           | 6/9/25, 6/10/25, 6/11/25                                                                                                                                                                                                                                                                                                                                       |
| <b>Sample Team:</b>              | Andrew Waser, WSP                                                                                                                                                                                                                                                                                                                                              |
| <b>Sample Matrix:</b>            | Aqueous                                                                                                                                                                                                                                                                                                                                                        |
| <b>Analyzing Laboratory:</b>     | Analytical Resources, Inc. – Tukwila, WA                                                                                                                                                                                                                                                                                                                       |
| <b>Analyses:</b>                 | 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)                                                                                                                                                                                                        |
| <b>Laboratory Report No.:</b>    | 25F0259, 25F0258                                                                                                                                                                                                                                                                                                                                               |

**FIELD DATA PACKAGE DOCUMENTATION**

| <b>Field Sampling Logs:</b>                                | <b>Reported</b> |     | <b>Performance Acceptable</b> |     | <b>Not Required</b> |
|------------------------------------------------------------|-----------------|-----|-------------------------------|-----|---------------------|
|                                                            | 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 failed 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. No further action was required other than to note.

**INORGANIC ANALYSES**

|                                                 | Reported |     | Performance Acceptable |     | Not Required |
|-------------------------------------------------|----------|-----|------------------------|-----|--------------|
|                                                 | NO       | YES | NO                     | YES |              |
| <b>Metals (EPA 6010/200.8) (E200.8 UCT-KED)</b> |          |     |                        |     |              |
| 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 was a detection in the equipment blank, as shown below. When the blank concentration was less than the RL and associated sample results were greater than the RL, qualifications were not 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-99-1-0625 | 200.8  | Field | Lead    | 0.745J       | 1.0             | ug/L  |

- The LCS (BNF0535-BS1)/LCSD (BNF0535-BS2) recovered below the QC criteria (85-115%) for dissolved vanadium (74.8/67.3%). Using professional judgement, associated sample detects were qualified as estimated, bias low (J-).
- Field duplicates were as follows: MW-35A-0625 was a duplicate of Infiltration Ponds-0625, MW-45A-0625 was a duplicate of MW-2A-0625 and MW-55A-0325. All were within QC limits; qualifications were not required.
- 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 do 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:

- Field duplicates were as follows: MW-35A-0625 was a duplicate of Infiltration Ponds-0625, MW-45A-0625 was a duplicate of MW-2A-0625 and MW-55A-0325. All were within QC limits; qualifications were not required.

## DATA VALIDATION CHECKLIST

## SUMMARY AND DATA QUALIFIER CODES

|                                  |                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Project Name:</b>             | Ravensdale Project                                                                                                                                                                                                                                                                                                                                             |
| <b>Project Number:</b>           | US-WSP-31406578.8318/300                                                                                                                                                                                                                                                                                                                                       |
| <b>Sample Identification(s):</b> | MW-1A-0625, MW-2A-0625, MW-3A-0625, MW-4A-0625, MW-5A-0625, MW-6A-0625, MW-7A-0625, MW-8A-0625, MW-9A-0625, MW-10A-0625, Infiltration Ponds-0625, Still Well-0625, Interceptor Trench-0625, MW-35A-0625 (field duplicate), MW-45A-0625 (field duplicate), MW-55A-0625 (field duplicate), MW-99-1-0325 (field blank), Tank-Influent, Sand-Effluent, As-Effluent |
| <b>Sample Date(s):</b>           | 6/9/25, 6/10/25, 6/11/25                                                                                                                                                                                                                                                                                                                                       |
| <b>Sample Team:</b>              | Andrew Waser, WSP                                                                                                                                                                                                                                                                                                                                              |
| <b>Sample Matrix:</b>            | Aqueous                                                                                                                                                                                                                                                                                                                                                        |
| <b>Analyzing Laboratory:</b>     | Analytical Resources, Inc. – Tukwila, WA                                                                                                                                                                                                                                                                                                                       |
| <b>Analyses:</b>                 | 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)                                                                                                                                                                                                        |
| <b>Laboratory Report No.:</b>    | 25F0259, 25F0258                                                                                                                                                                                                                                                                                                                                               |

| Sample ID               | Analyte(s)          | Old Result | Old Qualifier | New Result | New Qualifier | Reason(s)                           |
|-------------------------|---------------------|------------|---------------|------------|---------------|-------------------------------------|
| MW-3A-0625              | Lead                | --         | --            | 1.00       | U             | Field blank contamination           |
| Infiltration Ponds-0625 | Lead                | --         | --            | 1.00       | U             | Field blank contamination           |
| Still Well-0625         | Lead                | --         | --            | 1.00       | U             | Field blank contamination           |
| MW-35A-0625             | Lead                | --         | --            | 1.00       | U             | Field blank contamination           |
| Tank-Influent           | Vanadium, Dissolved | --         | --            | --         | J-            | LCS/LCSD recovery below QC criteria |
| Sand-Effluent           | Vanadium, Dissolved | --         | --            | --         | J-            | LCS/LCSD recovery below QC criteria |
| As-Effluent             | Vanadium, Dissolved | --         | --            | --         | J-            | LCS/LCSD recovery below QC criteria |

|                                  |                     |
|----------------------------------|---------------------|
| <b>VALIDATION PERFORMED BY:</b>  | Julia Campbell, WSP |
| <b>DATE:</b>                     | 7/28/25             |
| <b>PEER REVIEW PERFORMED BY:</b> | Michael Shadle, WSP |
| <b>DATE:</b>                     | 7/31/2025           |

| Infiltration Ponds     |        | MW-35A Duplicate |     |      |           |     |      |
|------------------------|--------|------------------|-----|------|-----------|-----|------|
| Analyte                | Result | Result           | RPD | Unit | Qualifier | RL  | MDL  |
| Arsenic                | 13.9   | 13.3             | 4%  | ug/L |           | 1   | 0.5  |
| Potassium              | 790    | 735              | 7%  | mg/L |           | 2.5 | 1.25 |
| Lead                   | 0.905  | 0.89             | 2%  | ug/L |           | 1   | 0.5  |
| Antimony               | 8.5    | 8.14             | 4%  | ug/L |           | 1   | 0.75 |
| Vanadium               | 0.7    | 0.675            | 4%  | ug/L |           | 1   | 0.5  |
| Lead                   | 0.508  | 0.516            | 2%  | ug/L |           | 0.2 | 0.1  |
| Total Dissolved Solids | 2080   | 2090             | 0%  | mg/L |           | 20  | 20   |
| Antimony, Dissolved    | 8.34   | 8.77             | 5%  | ug/L |           | 1   | 0.75 |
| Arsenic, Dissolved     | 13.7   | 13.5             | 1%  | ug/L |           | 1   | 0.5  |
| Potassium, Dissolved   | 776    | 754              | 3%  | mg/L |           | 2   | 1    |
| Vanadium, Dissolved    | 0.66   | 0.66             | 0%  | ug/L |           | 1   | 0.5  |

| MW-2A                  |        | MW-45A Duplicate |     |      |           |     |      |
|------------------------|--------|------------------|-----|------|-----------|-----|------|
| Analyte                | Result | Result           | RPD | Unit | Qualifier | RL  | MDL  |
| Arsenic                | 1.08   | 1.08             | 0%  | ug/L |           | 1   | 0.5  |
| Potassium              | 20.9   | 21.7             | 4%  | ug/L |           | 0.5 | 0.25 |
| Total Dissolved Solids | 353    | 317              | 11% | mg/L |           | 10  | 10   |
| Antimony               | 0.84   | 0.885            | 5%  | ug/L |           | 1   | 0.75 |
| Vanadium               | 0.895  | 0.79             | 12% | ug/L |           | 1   | 0.5  |



**Analytical Resources, LLC**  
Analytical Chemists and Consultants  
Tukwila, WA

18 July 2025

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

RE: Ravensdale (Ravensdale US-WSP-31406578.0457)

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)  
25F0258

Associated SDG ID(s)  
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.

Analytical Resources, LLC

Kelly Bottem, Client Services Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



# Chain of Custody Record & Laboratory Analysis Request

| ARI Assigned Number:<br><b>25F0258</b>                  |               | Turn-around Requested:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Page: <b>1</b> of <b>1</b>         |              |                    |  |                |  |  |  |  |  |                |                                |               |                  |  |  |  |  |  |  |
|---------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------|--------------|--------------------|--|----------------|--|--|--|--|--|----------------|--------------------------------|---------------|------------------|--|--|--|--|--|--|
| ARI Client Company: <b>WSP</b>                          |               | Phone: <b>(425) 221-4924</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Date:                              | Ice Present? |                    |  |                |  |  |  |  |  |                |                                |               |                  |  |  |  |  |  |  |
| Client Contact: <b>Gary Zimmerman, Danilyn Espinoza</b> |               | No. of Coolers: <b>3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Cooler Temps: <b>0.8, 2.8, 3.3</b> |              |                    |  |                |  |  |  |  |  |                |                                |               |                  |  |  |  |  |  |  |
| Client Project Name: <b>Ravensdale O&amp;M</b>          |               | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="8">Analysis Requested</th> <th>Notes/Comments</th> </tr> <tr> <td style="width:10%; text-align:center;">As, Pb, Sb, V, <br/> Total Metals</td> <td style="width:10%; text-align:center;">As, Pb, Sb, V</td> <td style="width:10%; text-align:center;">Dissolved Metals</td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td></td> </tr> </table> |  |                                    |              | Analysis Requested |  |                |  |  |  |  |  | Notes/Comments | As, Pb, Sb, V,<br>Total Metals | As, Pb, Sb, V | Dissolved Metals |  |  |  |  |  |  |
| Analysis Requested                                      |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                    |              |                    |  | Notes/Comments |  |  |  |  |  |                |                                |               |                  |  |  |  |  |  |  |
| As, Pb, Sb, V,<br>Total Metals                          | As, Pb, Sb, V | Dissolved Metals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                    |              |                    |  |                |  |  |  |  |  |                |                                |               |                  |  |  |  |  |  |  |
| Client Project #: <b>WS-WSP-31406578.0957</b>           |               | Samplers:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                    |              |                    |  |                |  |  |  |  |  |                |                                |               |                  |  |  |  |  |  |  |

| Sample ID                  | Date               | Time            | Matrix           | No. Containers | As, Pb, Sb, V,<br>Total Metals | As, Pb, Sb, V | Dissolved Metals |  |  |  |  |  |  |  |  |
|----------------------------|--------------------|-----------------|------------------|----------------|--------------------------------|---------------|------------------|--|--|--|--|--|--|--|--|
| Tank - Influent            | 6/11/25            | 1435            | Water            | 2              | X                              | X             |                  |  |  |  |  |  |  |  |  |
| <del>Tank - Effluent</del> | <del>6/11/25</del> | <del>1500</del> | <del>Water</del> | <del>2</del>   | <del>X</del>                   | <del>X</del>  |                  |  |  |  |  |  |  |  |  |
| Sand - Effluent            | 6/11/25            | 1510            | Water            | 2              | X                              | X             |                  |  |  |  |  |  |  |  |  |
| As - Effluent              | 6/11/25            | 1530            | Water            | 2              | X                              | X             |                  |  |  |  |  |  |  |  |  |
|                            |                    |                 |                  |                |                                |               |                  |  |  |  |  |  |  |  |  |
|                            |                    |                 |                  |                |                                |               |                  |  |  |  |  |  |  |  |  |
|                            |                    |                 |                  |                |                                |               |                  |  |  |  |  |  |  |  |  |
|                            |                    |                 |                  |                |                                |               |                  |  |  |  |  |  |  |  |  |
|                            |                    |                 |                  |                |                                |               |                  |  |  |  |  |  |  |  |  |
|                            |                    |                 |                  |                |                                |               |                  |  |  |  |  |  |  |  |  |
|                            |                    |                 |                  |                |                                |               |                  |  |  |  |  |  |  |  |  |
|                            |                    |                 |                  |                |                                |               |                  |  |  |  |  |  |  |  |  |

|                               |                                                    |  |                                                |  |                                 |  |                             |  |
|-------------------------------|----------------------------------------------------|--|------------------------------------------------|--|---------------------------------|--|-----------------------------|--|
| Comments/Special Instructions | Relinquished by:<br>(Signature) <i>[Signature]</i> |  | Received by:<br>(Signature) <i>[Signature]</i> |  | Relinquished by:<br>(Signature) |  | Received by:<br>(Signature) |  |
|                               | Printed Name:<br><b>Andrew Wason</b>               |  | Printed Name:<br><b>Sydney Acevedo</b>         |  | Printed Name:                   |  | Printed Name:               |  |
|                               | Company:<br><b>WSP</b>                             |  | Company:<br><b>ARLLC</b>                       |  | Company:                        |  | Company:                    |  |
|                               | Date & Time:<br><b>6/12/25 1630</b>                |  | Date & Time:<br><b>6/12/25 1630</b>            |  | Date & Time:                    |  | Date & Time:                |  |



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

**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, notwithstanding 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.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

**Reported:**

18-Jul-2025 09:59

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID     | Laboratory ID | Matrix | Date Sampled      | Date Received     |
|---------------|---------------|--------|-------------------|-------------------|
| Tank-Influent | 25F0258-01    | Water  | 11-Jun-2025 14:35 | 12-Jun-2025 16:30 |
| Tank-Influent | 25F0258-02    | Water  | 11-Jun-2025 14:35 | 12-Jun-2025 16:30 |
| Sand-Effluent | 25F0258-03    | Water  | 11-Jun-2025 15:10 | 12-Jun-2025 16:30 |
| Sand-Effluent | 25F0258-04    | Water  | 11-Jun-2025 15:10 | 12-Jun-2025 16:30 |
| As-Effluent   | 25F0258-05    | Water  | 11-Jun-2025 15:30 | 12-Jun-2025 16:30 |
| As-Effluent   | 25F0258-06    | Water  | 11-Jun-2025 15:30 | 12-Jun-2025 16:30 |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

**Reported:**

18-Jul-2025 09:59

## Work Order Case Narrative

**Client:** WSP USA, Inc.

**Project:** Ravensdale

**Work Order:** 25F0258

### Sample receipt

Samples as listed on the preceding page were received 12-Jun-2025 16:30 under ARI work order 25F0258. For details regarding sample receipt, please refer to the Cooler Receipt Form.

### Total and Dissolved Metals - EPA Method 200.8

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.



WORK ORDER

25F0258

Client: WSP USA, Inc.

Project Manager: Kelly Bottem

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Preservation Confirmation

| Container ID | Container Type      | pH                 | pH Paper Lot#: <u>N000119</u> |
|--------------|---------------------|--------------------|-------------------------------|
| 25F0258-01 A | HDPE NM, 250mL HNO3 | <u>&lt; 2 PASS</u> |                               |
| 25F0258-02 A | HDPE NM, 1000 mL    | <u>&gt; 2 Fail</u> |                               |
| 25F0258-03 A | HDPE NM, 250mL HNO3 | <u>&lt; 2 PASS</u> |                               |
| 25F0258-04 A | HDPE NM, 1000 mL    | <u>&gt; 2 Fail</u> |                               |
| 25F0258-05 A | HDPE NM, 250mL HNO3 | <u>&lt; 2 PASS</u> |                               |
| 25F0258-06 A | HDPE NM, 1000 mL    | <u>&gt; 2 Fail</u> |                               |

CL

Preservation Confirmed By

6/12/25

Date



# 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: 25F0258

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 1630 0.8 2.8 1.3 \_\_\_\_\_

Temp Gun ID#: 8117

Was a temperature blank included in the cooler? \_\_\_\_\_

YES (NO)

Were coolers received between 0° - 6° (°C) \_\_\_\_\_

(YES) NO

Was sufficient ice used (if appropriate)? \_\_\_\_\_

NA (YES) NO

Cooler Accepted by: SA Date: 6/12/25 Time: 1630

*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? \_\_\_\_\_

(NA) (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: CL Date: 6/12/25 Time: 16:47 Labels checked by: CL

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

**Additional Notes, Discrepancies, & Resolutions:**

By: \_\_\_\_\_

Date: \_\_\_\_\_



WORK ORDER

25F0258

Client: WSP USA, Inc.

Project Manager: Kelly Bottem

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Preservation Confirmation

| Container ID | Container Type                  | pH      | pH Paper Lot#: <u>N000119</u> |
|--------------|---------------------------------|---------|-------------------------------|
| 25F0258-01 A | HDPE NM, 250mL HNO <sub>3</sub> | <2 PASS |                               |
| 25F0258-02 A | HDPE NM, 1000 mL                | >2 Fail | (2)                           |
| 25F0258-03 A | HDPE NM, 250mL HNO <sub>3</sub> | <2 PASS |                               |
| 25F0258-04 A | HDPE NM, 1000 mL                | >2 Fail | (2)                           |
| 25F0258-05 A | HDPE NM, 250mL HNO <sub>3</sub> | <2 PASS |                               |
| 25F0258-06 A | HDPE NM, 1000 mL                | >2 Fail | (1)                           |

CL  
Preservation Confirmed By

6/12/25  
Date

① filtered at 0.45um and  
preserved to pH < 2  
with 0.75ml concentrated  
HNO<sub>3</sub>. (M13692)  
③ 1113 6/13/25 AS  
② filtered at 0.45um and  
preserved to pH < 2 with  
2.25ml concentrated  
HNO<sub>3</sub>. (M13692)  
③ 1113 6/13/25 AS



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

**Tank-Influent**  
**25F0258-01 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/11/2025 14:35

Instrument: ICPMS1 Analyst: HAL

Analyzed: 06/27/2025 02:00

Sample Preparation:

Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Extract ID: 25F0258-01 A 01

Preparation Batch: BNF0396

Sample Size: 25 mL

Prepared: 06/20/2025

Final Volume: 25 mL

| Analyte     | CAS Number | Dilution | Detection | Reporting | Result | Units | Notes |
|-------------|------------|----------|-----------|-----------|--------|-------|-------|
|             |            |          | Limit     | Limit     |        |       |       |
| Antimony    | 7440-36-0  | 5        | 0.750     | 1.00      | 14.1   | ug/L  | D     |
| Arsenic UCT | 7440-38-2  | 5        | 0.500     | 1.00      | 10.1   | ug/L  | D     |
| Lead        | 7439-92-1  | 5        | 0.500     | 1.00      | 104    | ug/L  | D     |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

**Tank-Influent**  
**25F0258-01RE1 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/11/2025 14:35

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/03/2025 22:51

Sample Preparation:

Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Extract ID: 25F0258-01RE1 A 02

Preparation Batch: BNG0067

Sample Size: 25 mL

Prepared: 07/03/2025

Final Volume: 25 mL

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Vanadium | 7440-62-2  | 1        | 0.100           | 0.200           | 0.898  | ug/L  |       |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

**Tank-Influent**

**25F0258-02 (Water)**

**Metals and Metallic Compounds (dissolved)**

Method: EPA 200.8

Sampled: 06/11/2025 14:35

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/03/2025 02:31

Sample Preparation:

Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Extract ID: 25F0258-02 A 01

Preparation Batch: BNF0535

Sample Size: 25 mL

Prepared: 06/27/2025

Final Volume: 25 mL

| Analyte                | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT, Dissolved | 7440-38-2  | 5        | 0.500           | 1.00            | 3.57   | ug/L  | D     |
| Vanadium, Dissolved    | 7440-62-2  | 5        | 0.500           | 1.00            | 0.770  | ug/L  | J, D  |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

**Tank-Influent**  
**25F0258-02RE1 (Water)**

**Metals and Metallic Compounds (dissolved)**

Method: EPA 200.8

Sampled: 06/11/2025 14:35

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/03/2025 21:55

Sample Preparation:

Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Extract ID: 25F0258-02RE1 A 01

Preparation Batch: BNF0535

Sample Size: 25 mL

Prepared: 06/27/2025

Final Volume: 25 mL

| Analyte         | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Lead, Dissolved | 7439-92-1  | 5        | 0.500           | 1.00            | 92.9   | ug/L  | D     |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

**Tank-Influent**  
**25F0258-02RE2 (Water)**

**Metals and Metallic Compounds (dissolved)**

Method: EPA 200.8

Sampled: 06/11/2025 14:35

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/14/2025 18:58

Sample Preparation:

Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Extract ID: 25F0258-02RE2 A 02

Preparation Batch: BNG0217

Sample Size: 25 mL

Prepared: 07/14/2025

Final Volume: 25 mL

| Analyte             | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony, Dissolved | 7440-36-0  | 5        | 0.750           | 1.00            | 14.9   | ug/L  | D     |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

**Sand-Effluent**

**25F0258-03 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/11/2025 15:10

Instrument: ICPMS1 Analyst: HAL

Analyzed: 06/27/2025 02:05

Sample Preparation:

Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Extract ID: 25F0258-03 A 01

Preparation Batch: BNF0396

Sample Size: 25 mL

Prepared: 06/20/2025

Final Volume: 25 mL

| Analyte     | CAS Number | Dilution | Detection | Reporting | Result | Units | Notes |
|-------------|------------|----------|-----------|-----------|--------|-------|-------|
|             |            |          | Limit     | Limit     |        |       |       |
| Antimony    | 7440-36-0  | 5        | 0.750     | 1.00      | 12.6   | ug/L  | D     |
| Arsenic UCT | 7440-38-2  | 5        | 0.500     | 1.00      | 13.4   | ug/L  | D     |
| Lead        | 7439-92-1  | 5        | 0.500     | 1.00      | 28.7   | ug/L  | D     |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

**Sand-Effluent**  
**25F0258-03RE1 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/11/2025 15:10

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/03/2025 22:41

Sample Preparation:

Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Extract ID: 25F0258-03RE1 A 02

Preparation Batch: BNG0067

Sample Size: 25 mL

Prepared: 07/03/2025

Final Volume: 25 mL

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Vanadium | 7440-62-2  | 1        | 0.100           | 0.200           | 0.824  | ug/L  |       |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

**Sand-Effluent**  
**25F0258-04 (Water)**

**Metals and Metallic Compounds (dissolved)**

Method: EPA 200.8

Sampled: 06/11/2025 15:10

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/03/2025 02:15

Sample Preparation:

Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Extract ID: 25F0258-04 A 01

Preparation Batch: BNF0535

Sample Size: 25 mL

Prepared: 06/27/2025

Final Volume: 25 mL

| Analyte                | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT, Dissolved | 7440-38-2  | 5        | 0.500           | 1.00            | 13.8   | ug/L  | D     |
| Vanadium, Dissolved    | 7440-62-2  | 5        | 0.500           | 1.00            | 0.855  | ug/L  | J, D  |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

**Sand-Effluent**

**25F0258-04RE1 (Water)**

**Metals and Metallic Compounds (dissolved)**

Method: EPA 200.8

Sampled: 06/11/2025 15:10

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/03/2025 21:46

Sample Preparation:

Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Extract ID: 25F0258-04RE1 A 01

Preparation Batch: BNF0535

Sample Size: 25 mL

Prepared: 06/27/2025

Final Volume: 25 mL

| Analyte         | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Lead, Dissolved | 7439-92-1  | 5        | 0.500           | 1.00            | 3.49   | ug/L  | D     |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

**Sand-Effluent**

**25F0258-04RE2 (Water)**

**Metals and Metallic Compounds (dissolved)**

Method: EPA 200.8

Sampled: 06/11/2025 15:10

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/14/2025 18:48

Sample Preparation:

Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Extract ID: 25F0258-04RE2 A 02

Preparation Batch: BNG0217

Sample Size: 25 mL

Prepared: 07/14/2025

Final Volume: 25 mL

| Analyte             | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony, Dissolved | 7440-36-0  | 5        | 0.750           | 1.00            | 14.1   | ug/L  | D     |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

**As-Effluent**

**25F0258-05 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/11/2025 15:30

Instrument: ICPMS1 Analyst: HAL

Analyzed: 06/27/2025 02:10

Sample Preparation:

Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Extract ID: 25F0258-05 A 01

Preparation Batch: BNF0396

Sample Size: 25 mL

Prepared: 06/20/2025

Final Volume: 25 mL

| Analyte     | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony    | 7440-36-0  | 5        | 0.750           | 1.00            | 13.7   | ug/L  | D     |
| Arsenic UCT | 7440-38-2  | 5        | 0.500           | 1.00            | 15.0   | ug/L  | D     |
| Lead        | 7439-92-1  | 5        | 0.500           | 1.00            | 119    | ug/L  | D     |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

**As-Effluent**

**25F0258-05RE1 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/11/2025 15:30

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/03/2025 22:46

Sample Preparation:

Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Extract ID: 25F0258-05RE1 A 02

Preparation Batch: BNG0067

Sample Size: 25 mL

Prepared: 07/03/2025

Final Volume: 25 mL

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Vanadium | 7440-62-2  | 1        | 0.100           | 0.200           | 0.866  | ug/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale US-WSP-31406578.0457  
Project Manager: Accounts Payable

**Reported:**  
18-Jul-2025 09:59

**As-Effluent**  
**25F0258-06 (Water)**

**Metals and Metallic Compounds (dissolved)**

|                                 |                                                            |
|---------------------------------|------------------------------------------------------------|
| Method: EPA 200.8               | Sampled: 06/11/2025 15:30                                  |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 07/03/2025 02:20                                 |
| Sample Preparation:             | Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix |
|                                 | Preparation Batch: BNF0535                                 |
|                                 | Prepared: 06/27/2025                                       |
|                                 | Sample Size: 25 mL                                         |
|                                 | Final Volume: 25 mL                                        |
|                                 | Extract ID: 25F0258-06 A 01                                |

| Analyte                | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT, Dissolved | 7440-38-2  | 5        | 0.500           | 1.00            | 13.4   | ug/L  | D     |
| Vanadium, Dissolved    | 7440-62-2  | 5        | 0.500           | 1.00            | 0.830  | ug/L  | J, D  |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

**As-Effluent**

**25F0258-06RE1 (Water)**

**Metals and Metallic Compounds (dissolved)**

Method: EPA 200.8

Sampled: 06/11/2025 15:30

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/03/2025 21:50

Sample Preparation:

Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Extract ID: 25F0258-06RE1 A 01

Preparation Batch: BNF0535

Sample Size: 25 mL

Prepared: 06/27/2025

Final Volume: 25 mL

| Analyte         | CAS Number | Dilution | Detection | Reporting | Result | Units | Notes |
|-----------------|------------|----------|-----------|-----------|--------|-------|-------|
|                 |            |          | Limit     | Limit     |        |       |       |
| Lead, Dissolved | 7439-92-1  | 5        | 0.500     | 1.00      | 3.03   | ug/L  | D     |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

**As-Effluent**

**25F0258-06RE2 (Water)**

**Metals and Metallic Compounds (dissolved)**

Method: EPA 200.8

Sampled: 06/11/2025 15:30

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/14/2025 18:53

Sample Preparation:

Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Extract ID: 25F0258-06RE2 A 02

Preparation Batch: BNG0217

Sample Size: 25 mL

Prepared: 07/14/2025

Final Volume: 25 mL

| Analyte             | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony, Dissolved | 7440-36-0  | 5        | 0.750           | 1.00            | 13.3   | ug/L  | D     |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

Analysis by: Analytical Resources, LLC

### Metals and Metallic Compounds - Quality Control

#### Batch BNF0396 - 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 |
|-----------------------------|---------|--------|-----------------|-----------------|-------|---------------------------------------------------|---------------|------|-------------|-----|-----------|-------|
| <b>Blank (BNF0396-BLK1)</b> |         |        |                 |                 |       | Prepared: 20-Jun-2025 Analyzed: 20-Jun-2025 21:03 |               |      |             |     |           |       |
| Arsenic UCT                 | 75a UCT | ND     | 0.100           | 0.200           | ug/L  |                                                   |               |      |             |     |           | U     |
| Lead                        | 208     | ND     | 0.100           | 0.200           | ug/L  |                                                   |               |      |             |     |           | U     |
| <b>Blank (BNF0396-BLK3)</b> |         |        |                 |                 |       | Prepared: 20-Jun-2025 Analyzed: 26-Jun-2025 19:42 |               |      |             |     |           |       |
| 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     |
| <b>LCS (BNF0396-BS1)</b>    |         |        |                 |                 |       | Prepared: 20-Jun-2025 Analyzed: 20-Jun-2025 21:08 |               |      |             |     |           |       |
| Arsenic UCT                 | 75a UCT | 22.5   | 0.100           | 0.200           | ug/L  | 25.0                                              |               | 89.9 | 85-115      |     |           |       |
| Lead                        | 208     | 23.5   | 0.100           | 0.200           | ug/L  | 25.0                                              |               | 93.9 | 85-115      |     |           |       |
| <b>LCS (BNF0396-BS3)</b>    |         |        |                 |                 |       | Prepared: 20-Jun-2025 Analyzed: 26-Jun-2025 19:47 |               |      |             |     |           |       |
| Antimony                    | 121     | 23.0   | 0.150           | 0.200           | ug/L  | 25.0                                              |               | 92.0 | 85-115      |     |           |       |
| Arsenic UCT                 | 75a UCT | 23.0   | 0.100           | 0.200           | ug/L  | 25.0                                              |               | 91.8 | 85-115      |     |           |       |
| Lead                        | 208     | 22.8   | 0.100           | 0.200           | ug/L  | 25.0                                              |               | 91.2 | 85-115      |     |           |       |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

Analysis by: Analytical Resources, LLC

### Metals and Metallic Compounds - Quality Control

#### Batch BNG0067 - 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 |
|-----------------------------------|---------|--------|-------------------------------------------------------------------------|-----------------|-------|-------------|---------------|------|-------------|------|-----------|-------|
| <b>Blank (BNG0067-BLK1)</b>       |         |        | Prepared: 03-Jul-2025 Analyzed: 03-Jul-2025 22:27                       |                 |       |             |               |      |             |      |           |       |
| Vanadium                          | 51a     | ND     | 0.100                                                                   | 0.200           | ug/L  |             |               |      |             |      |           | U     |
| <b>Duplicate (BNG0067-DUP1)</b>   |         |        | Source: 25F0258-01RE1 Prepared: 03-Jul-2025 Analyzed: 03-Jul-2025 22:55 |                 |       |             |               |      |             |      |           |       |
| Vanadium                          | 51a     | 0.930  | 0.100                                                                   | 0.200           | ug/L  |             | 0.898         |      |             | 3.50 | 20        |       |
| <b>Matrix Spike (BNG0067-MS1)</b> |         |        | Source: 25F0258-01RE1 Prepared: 03-Jul-2025 Analyzed: 03-Jul-2025 23:00 |                 |       |             |               |      |             |      |           |       |
| Vanadium                          | 51a     | 20.0   | 0.100                                                                   | 0.200           | ug/L  | 25.0        | 0.898         | 76.4 | 75-125      |      |           |       |

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

Instrument: ICPMS2 Analyst: MCB

| QC Sample/Analyte        | Isotope | Result | Detection Limit                                   | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------|---------|--------|---------------------------------------------------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| <b>LCS (BNG0067-BS2)</b> |         |        | Prepared: 03-Jul-2025 Analyzed: 08-Jul-2025 15:49 |                 |       |             |               |      |             |     |           |       |
| Vanadium                 | 51a     | 26.6   | 0.100                                             | 0.200           | ug/L  | 25.0        |               | 106  | 85-115      |     |           |       |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

**Reported:**

18-Jul-2025 09:59

**Analysis by: Analytical Resources, LLC**

**Metals and Metallic Compounds (dissolved) - Quality Control**

**Batch BNF0535 - 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 |
|-----------------------------------|---------|--------|-----------------|-----------------|-------|-------------------------------------------------------------------------|---------------|------|-------------|------|-----------|-------|
| <b>Blank (BNF0535-BLK1)</b>       |         |        |                 |                 |       | Prepared: 27-Jun-2025 Analyzed: 03-Jul-2025 02:00                       |               |      |             |      |           |       |
| 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     |
| <b>Blank (BNF0535-BLK2)</b>       |         |        |                 |                 |       | Prepared: 27-Jun-2025 Analyzed: 03-Jul-2025 21:27                       |               |      |             |      |           |       |
| 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     |
| <b>LCS (BNF0535-BS1)</b>          |         |        |                 |                 |       | Prepared: 27-Jun-2025 Analyzed: 03-Jul-2025 02:05                       |               |      |             |      |           |       |
| Arsenic UCT, Dissolved            | 75a UCT | 24.2   | 0.100           | 0.200           | ug/L  | 25.0                                                                    |               | 96.7 | 85-115      |      |           |       |
| Lead, Dissolved                   | 208     | 23.6   | 0.100           | 0.200           | ug/L  | 25.0                                                                    |               | 94.3 | 85-115      |      |           |       |
| Vanadium, Dissolved               | 51a     | 18.7   | 0.100           | 0.200           | ug/L  | 25.0                                                                    |               | 74.8 | 85-115      |      |           |       |
| <b>LCS (BNF0535-BS2)</b>          |         |        |                 |                 |       | Prepared: 27-Jun-2025 Analyzed: 03-Jul-2025 21:32                       |               |      |             |      |           |       |
| Arsenic UCT, Dissolved            | 75a UCT | 24.1   | 0.100           | 0.200           | ug/L  | 25.0                                                                    |               | 96.3 | 85-115      |      |           |       |
| Lead, Dissolved                   | 208     | 24.7   | 0.100           | 0.200           | ug/L  | 25.0                                                                    |               | 98.7 | 85-115      |      |           |       |
| Vanadium, Dissolved               | 51a     | 16.8   | 0.100           | 0.200           | ug/L  | 25.0                                                                    |               | 67.3 | 85-115      |      |           |       |
| <b>Duplicate (BNF0535-DUP1)</b>   |         |        |                 |                 |       | Source: 25F0258-02 Prepared: 27-Jun-2025 Analyzed: 03-Jul-2025 02:36    |               |      |             |      |           |       |
| Arsenic UCT, Dissolved            | 75a UCT | 3.50   | 0.500           | 1.00            | ug/L  |                                                                         | 3.57          |      |             | 2.12 | 20        | D     |
| Vanadium, Dissolved               | 51a     | 0.820  | 0.500           | 1.00            | ug/L  |                                                                         | 0.770         |      |             | 6.29 | 20        | J, D  |
| <b>Duplicate (BNF0535-DUP2)</b>   |         |        |                 |                 |       | Source: 25F0258-02RE1 Prepared: 27-Jun-2025 Analyzed: 03-Jul-2025 22:00 |               |      |             |      |           |       |
| Lead, Dissolved                   | 208     | 95.3   | 0.500           | 1.00            | ug/L  |                                                                         | 92.9          |      |             | 2.60 | 20        | D     |
| <b>Matrix Spike (BNF0535-MS1)</b> |         |        |                 |                 |       | Source: 25F0258-02 Prepared: 27-Jun-2025 Analyzed: 03-Jul-2025 02:41    |               |      |             |      |           |       |
| Arsenic UCT, Dissolved            | 75a UCT | 29.7   | 0.500           | 1.00            | ug/L  | 25.0                                                                    | 3.57          | 104  | 75-125      |      |           | D     |
| Vanadium, Dissolved               | 51a     | 22.2   | 0.500           | 1.00            | ug/L  | 25.0                                                                    | 0.770         | 85.7 | 75-125      |      |           | D     |

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

|                                   |     |     |       |      |      |                                                                         |      |      |        |  |  |   |
|-----------------------------------|-----|-----|-------|------|------|-------------------------------------------------------------------------|------|------|--------|--|--|---|
| <b>Matrix Spike (BNF0535-MS2)</b> |     |     |       |      |      | Source: 25F0258-02RE1 Prepared: 27-Jun-2025 Analyzed: 03-Jul-2025 22:04 |      |      |        |  |  |   |
| Lead, Dissolved                   | 208 | 117 | 0.500 | 1.00 | ug/L | 25.0                                                                    | 92.9 | 97.9 | 75-125 |  |  | D |

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

Instrument: ICPMS2 Analyst: MCB



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

Analysis by: Analytical Resources, LLC

### Metals and Metallic Compounds (dissolved) - Quality Control

#### Batch BNF0535 - EPA 200.8 in Water

| QC Sample/Analyte        | Isotope | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level        | Source<br>Result | %REC                        | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|--------------------------|---------|--------|--------------------|--------------------|-------|-----------------------|------------------|-----------------------------|----------------|-----|--------------|-------|
| <b>LCS (BNF0535-BS3)</b> |         |        |                    |                    |       | Prepared: 27-Jun-2025 |                  | Analyzed: 08-Jul-2025 15:51 |                |     |              |       |
| Lead, Dissolved          | 208     | 25.6   | 0.100              | 0.200              | ug/L  | 25.0                  |                  | 102                         | 85-115         |     |              |       |
| Vanadium, Dissolved      | 51a     | 24.6   | 0.100              | 0.200              | ug/L  | 25.0                  |                  | 98.5                        | 85-115         |     |              |       |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

Analysis by: Analytical Resources, LLC

### Metals and Metallic Compounds (dissolved) - Quality Control

#### Batch BNG0217 - 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 |
|-----------------------------------|---------|--------|-----------------|-----------------|-------|-------------------------------------------------------------------------|---------------|------|-------------|------|-----------|-------|
| <b>Blank (BNG0217-BLK1)</b>       |         |        |                 |                 |       | Prepared: 14-Jul-2025 Analyzed: 14-Jul-2025 18:28                       |               |      |             |      |           |       |
| Antimony, Dissolved               | 121     | ND     | 0.150           | 0.200           | ug/L  |                                                                         |               |      |             |      |           | U     |
| <b>LCS (BNG0217-BS1)</b>          |         |        |                 |                 |       | Prepared: 14-Jul-2025 Analyzed: 14-Jul-2025 18:33                       |               |      |             |      |           |       |
| Antimony, Dissolved               | 121     | 24.4   | 0.150           | 0.200           | ug/L  | 25.0                                                                    |               | 97.8 | 85-115      |      |           |       |
| <b>Duplicate (BNG0217-DUP1)</b>   |         |        |                 |                 |       | Source: 25F0258-02RE2 Prepared: 14-Jul-2025 Analyzed: 14-Jul-2025 19:03 |               |      |             |      |           |       |
| Antimony, Dissolved               | 121     | 15.3   | 0.750           | 1.00            | ug/L  |                                                                         | 14.9          |      |             | 2.02 | 20        | D     |
| <b>Matrix Spike (BNG0217-MS1)</b> |         |        |                 |                 |       | Source: 25F0258-02RE2 Prepared: 14-Jul-2025 Analyzed: 14-Jul-2025 19:08 |               |      |             |      |           |       |
| Antimony, Dissolved               | 121     | 40.4   | 0.750           | 1.00            | ug/L  | 25.0                                                                    | 14.9          | 102  | 75-125      |      |           | D     |

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



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

Reported:

18-Jul-2025 09:59

## 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         | 07/31/2025 |
| WA-DW    | Ecology - Drinking Water                                         | C558         | 07/31/2025 |



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale US-WSP-31406578.0457

Project Manager: Accounts Payable

**Reported:**

18-Jul-2025 09:59

### 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.                                                                                                 |
| L    | Analyte concentration is $\leq 5$ times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD                               |
| 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

25 July 2025

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)  
25F0259

Associated SDG ID(s)  
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.

Analytical Resources, LLC

Kelly Bottem, Client Services Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



# Chain of Custody Record & Laboratory Analysis Request

|                                        |                        |
|----------------------------------------|------------------------|
| ARI Assigned Number:<br><b>25F0259</b> | Turn-around Requested: |
|----------------------------------------|------------------------|

|                                   |                                 |
|-----------------------------------|---------------------------------|
| ARI Client Company:<br><b>WSP</b> | Phone:<br><b>(425) 221-4929</b> |
|-----------------------------------|---------------------------------|

|                                                            |
|------------------------------------------------------------|
| Client Contact:<br><b>Gary Zimmerman, Darilyn Espiritu</b> |
|------------------------------------------------------------|

|                                           |
|-------------------------------------------|
| Client Project Name:<br><b>Ravensdale</b> |
|-------------------------------------------|

|                                                  |                                                   |
|--------------------------------------------------|---------------------------------------------------|
| Client Project #:<br><b>US-WSP-31406578-8318</b> | Samplers:<br><b>Andrew Waser, Mahbob Taherion</b> |
|--------------------------------------------------|---------------------------------------------------|

| Sample ID | Date | Time | Matrix | No. Containers |
|-----------|------|------|--------|----------------|
|-----------|------|------|--------|----------------|

|             |         |      |       |                |
|-------------|---------|------|-------|----------------|
| MW-1A-0625  | 6/11/25 | 0945 | Water | 2              |
| MW-2A-0625  | 6/11/25 | 1040 | Water | 2              |
| MW-3A-0625  | 6/9/25  | 1130 | Water | 2              |
| MW-4A-0625  | 6/9/25  | 1440 | Water | <del>2</del> 6 |
| MW-5A-0625  | 6/11/25 | 1305 | Water | 2              |
| MW-6A-0625  | 6/11/25 | 1205 | Water | 2              |
| MW-7A-0625  | 6/10/25 | 1340 | Water | 2              |
| MW-8A-0625  | 6/10/25 | 1200 | Water | 2              |
| MW-9A-0625  | 6/9/25  | 1545 | Water | 2              |
| MW-10A-0625 | 6/9/25  | 1235 | Water | 2              |

|                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Comments/Special Instructions<br><b>Please include PO, PN, and task ID on all invoices</b><br><br><b>PO: P11936345 001</b><br><b>PN: US-WSP-31406578-8318</b><br><b>Task: 300</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                    |
|----------------------------------------------------|
| Relinquished by:<br>(Signature) <i>[Signature]</i> |
| Printed Name:<br><b>Andrew Waser</b>               |
| Company:<br><b>WSP</b>                             |
| Date & Time:<br><b>6/12/25 1630</b>                |

|                                                |
|------------------------------------------------|
| Received by:<br>(Signature) <i>[Signature]</i> |
| Printed Name:<br><b>SA</b>                     |
| Company:<br><b>AR LLC</b>                      |
| Date & Time:<br><b>6/12/25 1630</b>            |

|                                 |
|---------------------------------|
| Relinquished by:<br>(Signature) |
| Printed Name:                   |
| Company:                        |
| Date & Time:                    |

|                             |
|-----------------------------|
| Received by:<br>(Signature) |
| Printed Name:               |
| Company:                    |
| Date & Time:                |

|                |             |
|----------------|-------------|
| Page: <b>1</b> | of <b>2</b> |
|----------------|-------------|

|                         |              |
|-------------------------|--------------|
| Date:<br><b>6/12/25</b> | Ice Present? |
|-------------------------|--------------|

|                             |                                       |
|-----------------------------|---------------------------------------|
| No. of Coolers:<br><b>3</b> | Cooler Temps:<br><b>0.8, 2.8, 1.3</b> |
|-----------------------------|---------------------------------------|

| Analysis Requested |     |                  |                  |                  |                  |                  |                  | Notes/Comments |
|--------------------|-----|------------------|------------------|------------------|------------------|------------------|------------------|----------------|
| As, Pb, Sb, V, K   | TDS | As, Pb, Sb, V, K | As, Pb, Sb, V, K | As, Pb, Sb, V, K | As, Pb, Sb, V, K | As, Pb, Sb, V, K | As, Pb, Sb, V, K |                |



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

**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, notwithstanding 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.

|                                 |                        |
|---------------------------------|------------------------|
| ARI Assigned Number:<br>25F0353 | Turn-around Requested: |
|---------------------------------|------------------------|

Client Contact: Gary Zimmerman, Darilyn Espirita

|                                          |           |
|------------------------------------------|-----------|
| Client Project #:<br>US-WF-31406578.8318 | Samplers: |
|------------------------------------------|-----------|

|                  |                 |
|------------------|-----------------|
| Date:<br>6/12/25 | Ice<br>Present? |
|------------------|-----------------|

No. of Coolers: 3 Cooler Temps: 0.8, 2.8, 31



| Analysis Requested | Notes/Comments |
|--------------------|----------------|
|--------------------|----------------|

|                                      |  |
|--------------------------------------|--|
|                                      |  |
|                                      |  |
|                                      |  |
|                                      |  |
| Dissolved Metals<br>As, Pb, Sb, V, K |  |
| TDS                                  |  |
| Total metals<br>As, Pb, Sb, V, K     |  |

|                                                                                                                                                     |                                                                                                                     |                                                                                                                  |                                 |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------|
| Comments/Special Instructions<br>Please Include PO, PN, and<br>TASK ID on all invoices<br>PO: P119363us001<br>PN: us-wsp-31406578-8318<br>Task: 300 | Relinquished by:<br>(Signature)  | Received by:<br>(Signature)  | Relinquished by:<br>(Signature) | Received by:<br>(Signature) |
|                                                                                                                                                     | Printed Name:<br>Andrew WSP                                                                                         | Printed Name:<br>Sydny Acevedo                                                                                   | Printed Name:                   | Printed Name:               |
|                                                                                                                                                     | Company:<br>WSP                                                                                                     | Company:<br>AR LLC                                                                                               | Company:                        | Company:                    |
|                                                                                                                                                     | Date & Time:<br>6/12/25 1630                                                                                        | Date & Time:<br>6/12/25 1630                                                                                     | Date & Time:                    | Date & Time:                |

**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.  
840 HOWE STREET, #1000  
VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID               | Laboratory ID | Matrix | Date Sampled      | Date Received     |
|-------------------------|---------------|--------|-------------------|-------------------|
| MW-1A-0625              | 25F0259-01    | Water  | 11-Jun-2025 09:45 | 12-Jun-2025 16:30 |
| MW-2A-0625              | 25F0259-02    | Water  | 11-Jun-2025 10:40 | 12-Jun-2025 16:30 |
| MW-3A-0625              | 25F0259-03    | Water  | 09-Jun-2025 11:30 | 12-Jun-2025 16:30 |
| MW-4A-0625              | 25F0259-04    | Water  | 09-Jun-2025 14:40 | 12-Jun-2025 16:30 |
| MW-5A-0625              | 25F0259-05    | Water  | 11-Jun-2025 13:05 | 12-Jun-2025 16:30 |
| MW-6A-0625              | 25F0259-06    | Water  | 11-Jun-2025 12:05 | 12-Jun-2025 16:30 |
| MW-7A-0625              | 25F0259-07    | Water  | 10-Jun-2025 13:40 | 12-Jun-2025 16:30 |
| MW-8A-0625              | 25F0259-08    | Water  | 10-Jun-2025 12:00 | 12-Jun-2025 16:30 |
| MW-9A-0625              | 25F0259-09    | Water  | 09-Jun-2025 15:45 | 12-Jun-2025 16:30 |
| MW-10A-0625             | 25F0259-10    | Water  | 09-Jun-2025 12:35 | 12-Jun-2025 16:30 |
| Infiltration Ponds-0625 | 25F0259-11    | Water  | 11-Jun-2025 13:25 | 12-Jun-2025 16:30 |
| Infiltration Ponds-0625 | 25F0259-12    | Water  | 11-Jun-2025 13:25 | 12-Jun-2025 16:30 |
| Still Well-0625         | 25F0259-13    | Water  | 11-Jun-2025 14:00 | 12-Jun-2025 16:30 |
| Interceptor Trench-0625 | 25F0259-14    | Water  | 09-Jun-2025 13:35 | 12-Jun-2025 16:30 |
| MW-35A-0625             | 25F0259-15    | Water  | 11-Jun-2025 13:30 | 12-Jun-2025 16:30 |
| MW-35A-0625             | 25F0259-16    | Water  | 11-Jun-2025 13:30 | 12-Jun-2025 16:30 |
| MW-45A-0625             | 25F0259-17    | Water  | 11-Jun-2025 10:45 | 12-Jun-2025 16:30 |
| MW-99-1-0625            | 25F0259-18    | Water  | 11-Jun-2025 14:30 | 12-Jun-2025 16:30 |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

## Work Order Case Narrative

**Client:** WSP USA, Inc.  
**Project:** Ravensdale  
**Work Order:** 25F0259

### Sample receipt

Samples as listed on the preceding page were received 12-Jun-2025 16:30 under ARI work order 25F0259. For details regarding sample receipt, please refer to the Cooler Receipt Form.

### Total and Dissolved Metals - EPA Method 200.8

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.

### Total and Dissolved Metals - EPA Method 6010D

The sample(s) were digested 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 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.



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale

Project Manager: Accounts Payable

**Reported:**

25-Jul-2025 13:08

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

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



WORK ORDER

25F0259

Client: WSP USA, Inc.

Project Manager: Kelly Bottem

Project: Ravensdale

Project Number: Ravensdale

|              |                          |    |      |
|--------------|--------------------------|----|------|
| 25F0259-16 A | HDPE NM, 250mL HNO3 (FF) | 22 | PASS |
| 25F0259-17 A | HDPE NM, 1000 mL         |    |      |
| 25F0259-17 B | HDPE NM, 250mL HNO3      | 22 | PASS |
| 25F0259-18 A | HDPE NM, 1000 mL         |    |      |
| 25F0259-18 B | HDPE NM, 250mL HNO3      | 22 | PASS |

ES  
Preservation Confirmed By

6/12/25  
Date



WORK ORDER

25F0259

Client: WSP USA, Inc.

Project Manager: Kelly Bottem

Project: Ravensdale

Project Number: Ravensdale

Preservation Confirmation

| Container ID | Container Type           | pH           | pH Paper Lot#: <u>N000119</u> |
|--------------|--------------------------|--------------|-------------------------------|
| 25F0259-01 A | HDPE NM, 1000 mL         |              |                               |
| 25F0259-01 B | HDPE NM, 250mL HNO3      | <u>&lt;2</u> | <u>Pass</u>                   |
| 25F0259-02 A | HDPE NM, 1000 mL         |              |                               |
| 25F0259-02 B | HDPE NM, 250mL HNO3      | <u>&lt;2</u> | <u>Pass</u>                   |
| 25F0259-03 A | HDPE NM, 1000 mL         |              |                               |
| 25F0259-03 B | HDPE NM, 250mL HNO3      | <u>&lt;2</u> | <u>Pass</u>                   |
| 25F0259-04 A | HDPE NM, 1000 mL         |              |                               |
| 25F0259-04 B | HDPE NM, 1000 mL         |              |                               |
| 25F0259-04 C | HDPE NM, 1000 mL         |              |                               |
| 25F0259-04 D | HDPE NM, 250mL HNO3      | <u>&lt;2</u> | <u>Pass</u>                   |
| 25F0259-04 E | HDPE NM, 250mL HNO3      | <u>↓</u>     | <u>↓</u>                      |
| 25F0259-04 F | HDPE NM, 250mL HNO3      | <u>↓</u>     | <u>↓</u>                      |
| 25F0259-05 A | HDPE NM, 1000 mL         |              |                               |
| 25F0259-05 B | HDPE NM, 250mL HNO3      | <u>&lt;2</u> | <u>Pass</u>                   |
| 25F0259-06 A | HDPE NM, 1000 mL         |              |                               |
| 25F0259-06 B | HDPE NM, 250mL HNO3      | <u>&lt;2</u> | <u>Pass</u>                   |
| 25F0259-07 A | HDPE NM, 1000 mL         |              |                               |
| 25F0259-07 B | HDPE NM, 250mL HNO3      | <u>&lt;2</u> | <u>Pass</u>                   |
| 25F0259-08 A | HDPE NM, 1000 mL         |              |                               |
| 25F0259-08 B | HDPE NM, 250mL HNO3      | <u>&lt;2</u> | <u>Pass</u>                   |
| 25F0259-09 A | HDPE NM, 1000 mL         |              |                               |
| 25F0259-09 B | HDPE NM, 250mL HNO3      | <u>&lt;2</u> | <u>Pass</u>                   |
| 25F0259-10 A | HDPE NM, 1000 mL         |              |                               |
| 25F0259-10 B | HDPE NM, 250mL HNO3      | <u>&lt;2</u> | <u>Pass</u>                   |
| 25F0259-11 A | HDPE NM, 1000 mL         |              |                               |
| 25F0259-11 B | HDPE NM, 250mL HNO3      | <u>&lt;2</u> | <u>Pass</u>                   |
| 25F0259-12 A | HDPE NM, 250mL HNO3 (FF) | <u>&lt;2</u> | <u>Pass</u>                   |
| 25F0259-13 A | HDPE NM, 1000 mL         |              |                               |
| 25F0259-13 B | HDPE NM, 250mL HNO3      | <u>&lt;2</u> | <u>Pass</u>                   |
| 25F0259-14 A | HDPE NM, 1000 mL         |              |                               |
| 25F0259-15 A | HDPE NM, 1000 mL         |              |                               |
| 25F0259-15 B | HDPE NM, 250mL HNO3      | <u>&lt;2</u> | <u>Pass</u>                   |



# 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: 25F0259

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 1630 0.8 2.8 1.3 \_\_\_\_\_

Temp Gun ID#: 8117

Was a temperature blank included in the cooler? \_\_\_\_\_

YES (NO)

Were coolers received between 0°- 6° (°C) \_\_\_\_\_

(YES) NO

Was sufficient ice used (if appropriate)? \_\_\_\_\_

NA (YES) NO

Cooler Accepted by: SA Date: 6/12/25 Time: 1630

*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: ES Date: 6/12/25 Time: 1700 Labels checked by: ES

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

**Additional Notes, Discrepancies, & Resolutions:**

By: \_\_\_\_\_

Date: \_\_\_\_\_



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-1A-0625**  
**25F0259-01 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/11/2025 09:45

Instrument: ICPMS1 Analyst: HAL

Analyzed: 06/25/2025 19:05

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25F0259-01 B 02

Preparation Batch: BNF0472

Sample Size: 25 mL

Prepared: 06/25/2025

Final Volume: 25 mL

| Analyte     | CAS Number | Dilution | Detection | Reporting | Result | Units | Notes |
|-------------|------------|----------|-----------|-----------|--------|-------|-------|
|             |            |          | Limit     | Limit     |        |       |       |
| Arsenic UCT | 7440-38-2  | 5        | 0.500     | 1.00      | 1.16   | ug/L  | D     |
| Lead        | 7439-92-1  | 5        | 0.500     | 1.00      | ND     | ug/L  | U     |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-1A-0625**  
**25F0259-01 (Water)**

**Metals and Metallic Compounds**

Method: EPA 6010D  
Instrument: ICP3 Analyst: MCB

Sampled: 06/11/2025 09:45

Analyzed: 06/19/2025 18:55

Sample Preparation: Preparation Method: TWC EPA 3010A  
Preparation Batch: BNF0360  
Prepared: 06/19/2025

Sample Size: 25 mL  
Final Volume: 25 mL

Extract ID: 25F0259-01 B 01

| Analyte   | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Potassium | 7440-09-7  | 1        | 0.250           | 0.500           | 14.8   | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-1A-0625**  
**25F0259-01 (Water)**

**Wet Chemistry**

Method: SM 2540 C-11

Sampled: 06/11/2025 09:45

Instrument: BAL2 Analyst: AG

Analyzed: 06/13/2025 13:32

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0259-01

Preparation Batch: BNF0271

Sample Size: 100 mL

Prepared: 06/13/2025

Final Volume: 200 mL

| Analyte          | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Dissolved Solids |            | 1        | 10              | 10              | 374    | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-1A-0625**  
**25F0259-01RE1 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/11/2025 09:45

Instrument: ICPMS1 Analyst: HAL

Analyzed: 06/27/2025 02:56

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25F0259-01RE1 B 03

Preparation Batch: BNF0472

Sample Size: 25 mL

Prepared: 06/25/2025

Final Volume: 25 mL

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony | 7440-36-0  | 5        | 0.750           | 1.00            | 0.775  | ug/L  | J, D  |
| Vanadium | 7440-62-2  | 5        | 0.500           | 1.00            | 0.805  | ug/L  | J, D  |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-2A-0625**  
**25F0259-02 (Water)**

**Metals and Metallic Compounds**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Method: EPA 200.8               | Sampled: 06/11/2025 10:40             |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 06/25/2025 19:10            |
| Sample Preparation:             | Preparation Method: REN - EPA 3010A M |
|                                 | Preparation Batch: BNF0472            |
|                                 | Prepared: 06/25/2025                  |
|                                 | Sample Size: 25 mL                    |
|                                 | Final Volume: 25 mL                   |
|                                 | Extract ID: 25F0259-02 B 02           |

| Analyte     | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT | 7440-38-2  | 5        | 0.500           | 1.00            | 1.08   | ug/L  | D     |
| Lead        | 7439-92-1  | 5        | 0.500           | 1.00            | ND     | ug/L  | U     |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-2A-0625**  
**25F0259-02 (Water)**

**Metals and Metallic Compounds**

Method: EPA 6010D  
Instrument: ICP3 Analyst: MCB

Sampled: 06/11/2025 10:40

Analyzed: 06/19/2025 18:58

Sample Preparation: Preparation Method: TWC EPA 3010A  
Preparation Batch: BNF0360  
Prepared: 06/19/2025

Sample Size: 25 mL  
Final Volume: 25 mL

Extract ID: 25F0259-02 B 01

| Analyte   | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Potassium | 7440-09-7  | 1        | 0.250           | 0.500           | 20.9   | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-2A-0625**  
**25F0259-02 (Water)**

**Wet Chemistry**

Method: SM 2540 C-11  
Instrument: BAL2 Analyst: AG

Sampled: 06/11/2025 10:40

Analyzed: 06/13/2025 13:32

Sample Preparation: Preparation Method: No Prep Wet Chem  
Preparation Batch: BNF0271 Sample Size: 100 mL  
Prepared: 06/13/2025 Final Volume: 200 mL

Extract ID: 25F0259-02

| Analyte          | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Dissolved Solids |            | 1        | 10              | 10              | 353    | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-2A-0625**  
**25F0259-02RE1 (Water)**

**Metals and Metallic Compounds**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Method: EPA 200.8               | Sampled: 06/11/2025 10:40             |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 06/27/2025 03:01            |
| Sample Preparation:             | Preparation Method: REN - EPA 3010A M |
|                                 | Preparation Batch: BNF0472            |
|                                 | Prepared: 06/25/2025                  |
|                                 | Sample Size: 25 mL                    |
|                                 | Final Volume: 25 mL                   |
|                                 | Extract ID: 25F0259-02RE1 B 02        |

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony | 7440-36-0  | 5        | 0.750           | 1.00            | 0.840  | ug/L  | J, D  |
| Vanadium | 7440-62-2  | 5        | 0.500           | 1.00            | 0.895  | ug/L  | J, D  |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-3A-0625**  
**25F0259-03 (Water)**

**Metals and Metallic Compounds**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Method: EPA 200.8               | Sampled: 06/09/2025 11:30             |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 06/25/2025 19:15            |
| Sample Preparation:             | Preparation Method: REN - EPA 3010A M |
|                                 | Preparation Batch: BNF0472            |
|                                 | Prepared: 06/25/2025                  |
|                                 | Sample Size: 25 mL                    |
|                                 | Final Volume: 25 mL                   |
|                                 | Extract ID: 25F0259-03 B 02           |

| Analyte     | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT | 7440-38-2  | 5        | 0.500           | 1.00            | 12.8   | ug/L  | D     |
| Lead        | 7439-92-1  | 5        | 0.500           | 1.00            | 0.575  | ug/L  | J, D  |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-3A-0625**  
**25F0259-03 (Water)**

**Metals and Metallic Compounds**

Method: EPA 6010D  
Instrument: ICP3 Analyst: MCB

Sampled: 06/09/2025 11:30

Analyzed: 06/19/2025 19:01

Sample Preparation: Preparation Method: TWC EPA 3010A  
Preparation Batch: BNF0360  
Prepared: 06/19/2025

Sample Size: 25 mL

Final Volume: 25 mL

Extract ID: 25F0259-03 B 01

| Analyte   | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Potassium | 7440-09-7  | 1        | 0.250           | 0.500           | 101    | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-3A-0625**  
**25F0259-03 (Water)**

**Wet Chemistry**

Method: SM 2540 C-11

Sampled: 06/09/2025 11:30

Instrument: BAL2 Analyst: AG

Analyzed: 06/13/2025 13:32

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0259-03

Preparation Batch: BNF0271

Sample Size: 100 mL

Prepared: 06/13/2025

Final Volume: 200 mL

| Analyte          | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Dissolved Solids |            | 1        | 10              | 10              | 631    | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-3A-0625**  
**25F0259-03RE1 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/09/2025 11:30

Instrument: ICPMS1 Analyst: HAL

Analyzed: 06/27/2025 03:06

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25F0259-03RE1 B 02

Preparation Batch: BNF0472

Sample Size: 25 mL

Prepared: 06/25/2025

Final Volume: 25 mL

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony | 7440-36-0  | 5        | 0.750           | 1.00            | 2.75   | ug/L  | D     |
| Vanadium | 7440-62-2  | 5        | 0.500           | 1.00            | 0.745  | ug/L  | J, D  |



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840 HOWE STREET, #1000  
VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-4A-0625**  
**25F0259-04 (Water)**

**Metals and Metallic Compounds**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Method: EPA 200.8               | Sampled: 06/09/2025 14:40             |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 06/25/2025 19:30            |
| Sample Preparation:             | Preparation Method: REN - EPA 3010A M |
|                                 | Preparation Batch: BNF0472            |
|                                 | Prepared: 06/25/2025                  |
|                                 | Sample Size: 25 mL                    |
|                                 | Final Volume: 25 mL                   |
|                                 | Extract ID: 25F0259-04 F 02           |

| Analyte     | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT | 7440-38-2  | 5        | 0.500           | 1.00            | ND     | ug/L  | U     |
| Lead        | 7439-92-1  | 5        | 0.500           | 1.00            | ND     | ug/L  | U     |



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840 HOWE STREET, #1000  
VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-4A-0625**  
**25F0259-04 (Water)**

**Metals and Metallic Compounds**

Method: EPA 6010D  
Instrument: ICP3 Analyst: MCB

Sampled: 06/09/2025 14:40

Analyzed: 06/19/2025 19:04

Sample Preparation: Preparation Method: TWC EPA 3010A  
Preparation Batch: BNF0360  
Prepared: 06/19/2025

Sample Size: 25 mL  
Final Volume: 25 mL

Extract ID: 25F0259-04 F 01

| Analyte   | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Potassium | 7440-09-7  | 1        | 0.250           | 0.500           | 0.831  | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-4A-0625**  
**25F0259-04 (Water)**

**Wet Chemistry**

Method: SM 2540 C-11

Sampled: 06/09/2025 14:40

Instrument: BAL2 Analyst: AG

Analyzed: 06/13/2025 13:32

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0259-04

Preparation Batch: BNF0271

Sample Size: 100 mL

Prepared: 06/13/2025

Final Volume: 200 mL

| Analyte          | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Dissolved Solids |            | 1        | 10              | 10              | 270    | mg/L  |       |



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840 HOWE STREET, #1000  
VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-4A-0625**  
**25F0259-04RE1 (Water)**

**Metals and Metallic Compounds**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Method: EPA 200.8               | Sampled: 06/09/2025 14:40             |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 06/27/2025 02:16            |
| Sample Preparation:             | Preparation Method: REN - EPA 3010A M |
|                                 | Preparation Batch: BNF0472            |
|                                 | Prepared: 06/25/2025                  |
|                                 | Sample Size: 25 mL                    |
|                                 | Final Volume: 25 mL                   |
|                                 | Extract ID: 25F0259-04RE1 F 02        |

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony | 7440-36-0  | 5        | 0.750           | 1.00            | ND     | ug/L  | U     |
| Vanadium | 7440-62-2  | 5        | 0.500           | 1.00            | 0.580  | ug/L  | J, D  |



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840 HOWE STREET, #1000  
VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-5A-0625**  
**25F0259-05 (Water)**

**Metals and Metallic Compounds**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Method: EPA 200.8               | Sampled: 06/11/2025 13:05             |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 06/25/2025 19:20            |
| Sample Preparation:             | Preparation Method: REN - EPA 3010A M |
|                                 | Preparation Batch: BNF0472            |
|                                 | Prepared: 06/25/2025                  |
|                                 | Sample Size: 25 mL                    |
|                                 | Final Volume: 25 mL                   |
|                                 | Extract ID: 25F0259-05 B 02           |

| Analyte     | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT | 7440-38-2  | 5        | 0.500           | 1.00            | 2.01   | ug/L  | D     |
| Lead        | 7439-92-1  | 5        | 0.500           | 1.00            | ND     | ug/L  | U     |



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VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-5A-0625**  
**25F0259-05 (Water)**

**Metals and Metallic Compounds**

Method: EPA 6010D  
Instrument: ICP3 Analyst: MCB

Sampled: 06/11/2025 13:05

Analyzed: 06/19/2025 19:26

Sample Preparation: Preparation Method: TWC EPA 3010A  
Preparation Batch: BNF0360  
Prepared: 06/19/2025

Sample Size: 25 mL  
Final Volume: 25 mL

Extract ID: 25F0259-05 B 01

| Analyte   | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Potassium | 7440-09-7  | 1        | 0.250           | 0.500           | 203    | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-5A-0625**  
**25F0259-05 (Water)**

**Wet Chemistry**

Method: SM 2540 C-11  
Instrument: BAL2 Analyst: AG

Sampled: 06/11/2025 13:05

Analyzed: 06/13/2025 13:32

Sample Preparation: Preparation Method: No Prep Wet Chem  
Preparation Batch: BNF0271 Sample Size: 75 mL  
Prepared: 06/13/2025 Final Volume: 200 mL

Extract ID: 25F0259-05

| Analyte          | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Dissolved Solids |            | 1        | 13              | 13              | 727    | mg/L  |       |



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VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-5A-0625**  
**25F0259-05RE1 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/11/2025 13:05

Instrument: ICPMS1 Analyst: HAL

Analyzed: 06/27/2025 03:11

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25F0259-05RE1 B 02

Preparation Batch: BNF0472

Sample Size: 25 mL

Prepared: 06/25/2025

Final Volume: 25 mL

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony | 7440-36-0  | 5        | 0.750           | 1.00            | 3.22   | ug/L  | D     |
| Vanadium | 7440-62-2  | 5        | 0.500           | 1.00            | 0.985  | ug/L  | J, D  |



WSP USA, Inc.  
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VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-6A-0625**  
**25F0259-06 (Water)**

**Metals and Metallic Compounds**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Method: EPA 200.8               | Sampled: 06/11/2025 12:05             |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 06/25/2025 19:25            |
| Sample Preparation:             | Preparation Method: REN - EPA 3010A M |
|                                 | Preparation Batch: BNF0472            |
|                                 | Prepared: 06/25/2025                  |
|                                 | Sample Size: 25 mL                    |
|                                 | Final Volume: 25 mL                   |
|                                 | Extract ID: 25F0259-06 B 02           |

| Analyte     | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT | 7440-38-2  | 5        | 0.500           | 1.00            | 1.42   | ug/L  | D     |
| Lead        | 7439-92-1  | 5        | 0.500           | 1.00            | ND     | ug/L  | U     |



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VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-6A-0625**  
**25F0259-06 (Water)**

**Metals and Metallic Compounds**

Method: EPA 6010D  
Instrument: ICP3 Analyst: MCB

Sampled: 06/11/2025 12:05

Analyzed: 06/19/2025 19:29

Sample Preparation: Preparation Method: TWC EPA 3010A  
Preparation Batch: BNF0360  
Prepared: 06/19/2025

Sample Size: 25 mL  
Final Volume: 25 mL

Extract ID: 25F0259-06 B 01

| Analyte   | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Potassium | 7440-09-7  | 1        | 0.250           | 0.500           | 245    | mg/L  |       |



WSP USA, Inc.  
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VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-6A-0625**  
**25F0259-06 (Water)**

**Wet Chemistry**

Method: SM 2540 C-11  
Instrument: BAL2 Analyst: AG

Sampled: 06/11/2025 12:05

Analyzed: 06/13/2025 13:32

Sample Preparation: Preparation Method: No Prep Wet Chem  
Preparation Batch: BNF0271 Sample Size: 75 mL  
Prepared: 06/13/2025 Final Volume: 200 mL

Extract ID: 25F0259-06

| Analyte          | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Dissolved Solids |            | 1        | 13              | 13              | 731    | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-6A-0625**  
**25F0259-06RE1 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/11/2025 12:05

Instrument: ICPMS1 Analyst: HAL

Analyzed: 06/27/2025 03:17

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25F0259-06RE1 B 02

Preparation Batch: BNF0472

Sample Size: 25 mL

Prepared: 06/25/2025

Final Volume: 25 mL

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony | 7440-36-0  | 5        | 0.750           | 1.00            | 3.59   | ug/L  | D     |
| Vanadium | 7440-62-2  | 5        | 0.500           | 1.00            | 0.620  | ug/L  | J, D  |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-7A-0625**  
**25F0259-07 (Water)**

**Metals and Metallic Compounds**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Method: EPA 200.8               | Sampled: 06/10/2025 13:40             |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 06/25/2025 20:27            |
| Sample Preparation:             | Preparation Method: REN - EPA 3010A M |
|                                 | Preparation Batch: BNF0472            |
|                                 | Prepared: 06/25/2025                  |
|                                 | Sample Size: 25 mL                    |
|                                 | Final Volume: 25 mL                   |
|                                 | Extract ID: 25F0259-07 B 03           |

| Analyte     | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT | 7440-38-2  | 5        | 0.500           | 1.00            | 1.64   | ug/L  | D     |
| Lead        | 7439-92-1  | 5        | 0.500           | 1.00            | ND     | ug/L  | U     |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-7A-0625**  
**25F0259-07 (Water)**

**Metals and Metallic Compounds**

Method: EPA 6010D  
Instrument: ICP3 Analyst: MCB

Sampled: 06/10/2025 13:40

Analyzed: 06/19/2025 19:32

Sample Preparation: Preparation Method: TWC EPA 3010A  
Preparation Batch: BNF0360  
Prepared: 06/19/2025

Sample Size: 25 mL  
Final Volume: 25 mL

Extract ID: 25F0259-07 B 01

| Analyte   | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Potassium | 7440-09-7  | 1        | 0.250           | 0.500           | 39.6   | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-7A-0625**  
**25F0259-07 (Water)**

**Wet Chemistry**

Method: SM 2540 C-11

Sampled: 06/10/2025 13:40

Instrument: BAL2 Analyst: AG

Analyzed: 06/13/2025 13:32

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0259-07

Preparation Batch: BNF0271

Sample Size: 100 mL

Prepared: 06/13/2025

Final Volume: 200 mL

| Analyte          | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Dissolved Solids |            | 1        | 10              | 10              | 401    | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-7A-0625**  
**25F0259-07RE1 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/10/2025 13:40

Instrument: ICPMS1 Analyst: HAL

Analyzed: 06/27/2025 03:22

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25F0259-07RE1 B 02

Preparation Batch: BNF0472

Sample Size: 25 mL

Prepared: 06/25/2025

Final Volume: 25 mL

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony | 7440-36-0  | 5        | 0.750           | 1.00            | 0.950  | ug/L  | J, D  |
| Vanadium | 7440-62-2  | 5        | 0.500           | 1.00            | 1.09   | ug/L  | D     |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-8A-0625**  
**25F0259-08 (Water)**

**Metals and Metallic Compounds**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Method: EPA 200.8               | Sampled: 06/10/2025 12:00             |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 06/25/2025 20:32            |
| Sample Preparation:             | Preparation Method: REN - EPA 3010A M |
|                                 | Preparation Batch: BNF0472            |
|                                 | Prepared: 06/25/2025                  |
|                                 | Sample Size: 25 mL                    |
|                                 | Final Volume: 25 mL                   |
|                                 | Extract ID: 25F0259-08 B 03           |

| Analyte     | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT | 7440-38-2  | 5        | 0.500           | 1.00            | 4.55   | ug/L  | D     |
| Lead        | 7439-92-1  | 5        | 0.500           | 1.00            | ND     | ug/L  | U     |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-8A-0625**  
**25F0259-08 (Water)**

**Metals and Metallic Compounds**

|                               |                                   |
|-------------------------------|-----------------------------------|
| Method: EPA 6010D             | Sampled: 06/10/2025 12:00         |
| Instrument: ICP3 Analyst: MCB | Analyzed: 06/19/2025 19:35        |
| Sample Preparation:           | Preparation Method: TWC EPA 3010A |
|                               | Preparation Batch: BNF0360        |
|                               | Prepared: 06/19/2025              |
|                               | Sample Size: 25 mL                |
|                               | Final Volume: 25 mL               |
|                               | Extract ID: 25F0259-08 B 01       |

| Analyte   | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Potassium | 7440-09-7  | 1        | 0.250           | 0.500           | 116    | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-8A-0625**  
**25F0259-08 (Water)**

**Wet Chemistry**

Method: SM 2540 C-11  
Instrument: BAL2 Analyst: AG

Sampled: 06/10/2025 12:00

Analyzed: 06/13/2025 13:32

Sample Preparation: Preparation Method: No Prep Wet Chem  
Preparation Batch: BNF0271 Sample Size: 100 mL  
Prepared: 06/13/2025 Final Volume: 200 mL

Extract ID: 25F0259-08

| Analyte          | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Dissolved Solids |            | 1        | 10              | 10              | 487    | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-8A-0625**  
**25F0259-08RE1 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8  
Instrument: ICPMS1 Analyst: HAL

Sampled: 06/10/2025 12:00

Analyzed: 06/27/2025 03:27

Sample Preparation: Preparation Method: REN - EPA 3010A M  
Preparation Batch: BNF0472  
Prepared: 06/25/2025

Sample Size: 25 mL

Final Volume: 25 mL

Extract ID: 25F0259-08RE1 B 02

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony | 7440-36-0  | 5        | 0.750           | 1.00            | 3.11   | ug/L  | D     |
| Vanadium | 7440-62-2  | 5        | 0.500           | 1.00            | 2.57   | ug/L  | D     |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-9A-0625**  
**25F0259-09 (Water)**

**Metals and Metallic Compounds**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Method: EPA 200.8               | Sampled: 06/09/2025 15:45             |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 06/25/2025 20:37            |
| Sample Preparation:             | Preparation Method: REN - EPA 3010A M |
|                                 | Preparation Batch: BNF0472            |
|                                 | Prepared: 06/25/2025                  |
|                                 | Sample Size: 25 mL                    |
|                                 | Final Volume: 25 mL                   |
|                                 | Extract ID: 25F0259-09 B 03           |

| Analyte     | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT | 7440-38-2  | 5        | 0.500           | 1.00            | ND     | ug/L  | U     |
| Lead        | 7439-92-1  | 5        | 0.500           | 1.00            | 1.76   | ug/L  | D     |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-9A-0625**  
**25F0259-09 (Water)**

**Metals and Metallic Compounds**

Method: EPA 6010D  
Instrument: ICP3 Analyst: MCB

Sampled: 06/09/2025 15:45

Analyzed: 06/19/2025 19:38

Sample Preparation: Preparation Method: TWC EPA 3010A  
Preparation Batch: BNF0360  
Prepared: 06/19/2025

Sample Size: 25 mL  
Final Volume: 25 mL

Extract ID: 25F0259-09 B 01

| Analyte   | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Potassium | 7440-09-7  | 1        | 0.250           | 0.500           | 2.28   | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-9A-0625**  
**25F0259-09 (Water)**

**Wet Chemistry**

Method: SM 2540 C-11

Sampled: 06/09/2025 15:45

Instrument: BAL2 Analyst: AG

Analyzed: 06/13/2025 13:32

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0259-09

Preparation Batch: BNF0271

Sample Size: 100 mL

Prepared: 06/13/2025

Final Volume: 200 mL

| Analyte          | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Dissolved Solids |            | 1        | 10              | 10              | 318    | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-9A-0625**  
**25F0259-09RE1 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8  
Instrument: ICPMS1 Analyst: HAL

Sampled: 06/09/2025 15:45

Analyzed: 06/27/2025 03:32

Sample Preparation: Preparation Method: REN - EPA 3010A M  
Preparation Batch: BNF0472  
Prepared: 06/25/2025

Sample Size: 25 mL

Final Volume: 25 mL

Extract ID: 25F0259-09RE1 B 02

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony | 7440-36-0  | 5        | 0.750           | 1.00            | ND     | ug/L  | U     |
| Vanadium | 7440-62-2  | 5        | 0.500           | 1.00            | 0.740  | ug/L  | J, D  |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-10A-0625**  
**25F0259-10 (Water)**

**Metals and Metallic Compounds**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Method: EPA 200.8               | Sampled: 06/09/2025 12:35             |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 06/25/2025 20:42            |
| Sample Preparation:             | Preparation Method: REN - EPA 3010A M |
|                                 | Preparation Batch: BNF0472            |
|                                 | Prepared: 06/25/2025                  |
|                                 | Sample Size: 25 mL                    |
|                                 | Final Volume: 25 mL                   |
|                                 | Extract ID: 25F0259-10 B 03           |

| Analyte     | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT | 7440-38-2  | 5        | 0.500           | 1.00            | ND     | ug/L  | U     |
| Lead        | 7439-92-1  | 5        | 0.500           | 1.00            | ND     | ug/L  | U     |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-10A-0625**  
**25F0259-10 (Water)**

**Metals and Metallic Compounds**

Method: EPA 6010D  
Instrument: ICP3 Analyst: MCB

Sampled: 06/09/2025 12:35

Analyzed: 06/19/2025 19:41

Sample Preparation: Preparation Method: TWC EPA 3010A  
Preparation Batch: BNF0360  
Prepared: 06/19/2025

Sample Size: 25 mL

Final Volume: 25 mL

Extract ID: 25F0259-10 B 01

| Analyte   | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Potassium | 7440-09-7  | 1        | 0.250           | 0.500           | 0.758  | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-10A-0625**  
**25F0259-10 (Water)**

**Wet Chemistry**

Method: SM 2540 C-11  
Instrument: BAL2 Analyst: AG

Sampled: 06/09/2025 12:35

Analyzed: 06/13/2025 13:32

Sample Preparation: Preparation Method: No Prep Wet Chem  
Preparation Batch: BNF0271 Sample Size: 200 mL  
Prepared: 06/13/2025 Final Volume: 200 mL

Extract ID: 25F0259-10

| Analyte          | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Dissolved Solids |            | 1        | 5               | 5               | 107    | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-10A-0625**  
**25F0259-10RE1 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/09/2025 12:35

Instrument: ICPMS1 Analyst: HAL

Analyzed: 06/27/2025 03:37

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25F0259-10RE1 B 02

Preparation Batch: BNF0472

Sample Size: 25 mL

Prepared: 06/25/2025

Final Volume: 25 mL

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony | 7440-36-0  | 5        | 0.750           | 1.00            | ND     | ug/L  | U     |
| Vanadium | 7440-62-2  | 5        | 0.500           | 1.00            | 0.710  | ug/L  | J, D  |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**Infiltration Ponds-0625**  
**25F0259-11 (Water)**

**Metals and Metallic Compounds**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Method: EPA 200.8               | Sampled: 06/11/2025 13:25             |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 06/25/2025 20:47            |
| Sample Preparation:             | Preparation Method: REN - EPA 3010A M |
|                                 | Preparation Batch: BNF0472            |
|                                 | Prepared: 06/25/2025                  |
|                                 | Sample Size: 25 mL                    |
|                                 | Final Volume: 25 mL                   |
|                                 | Extract ID: 25F0259-11 B 03           |

| Analyte     | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT | 7440-38-2  | 5        | 0.500           | 1.00            | 13.9   | ug/L  | D     |
| Lead        | 7439-92-1  | 5        | 0.500           | 1.00            | 0.905  | ug/L  | J, D  |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**Infiltration Ponds-0625**  
**25F0259-11 (Water)**

**Metals and Metallic Compounds**

Method: EPA 6010D

Sampled: 06/11/2025 13:25

Instrument: ICP3 Analyst: MCB

Analyzed: 06/19/2025 18:46

Sample Preparation:

Preparation Method: TWC EPA 3010A

Extract ID: 25F0259-11 B 01

Preparation Batch: BNF0360

Sample Size: 25 mL

Prepared: 06/19/2025

Final Volume: 25 mL

| Analyte   | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Potassium | 7440-09-7  | 5        | 1.25            | 2.50            | 790    | mg/L  | D     |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**Infiltration Ponds-0625**  
**25F0259-11 (Water)**

**Wet Chemistry**

Method: SM 2540 C-11

Sampled: 06/11/2025 13:25

Instrument: BAL2 Analyst: AG

Analyzed: 06/13/2025 13:32

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0259-11

Preparation Batch: BNF0271

Sample Size: 50 mL

Prepared: 06/13/2025

Final Volume: 200 mL

| Analyte          | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Dissolved Solids |            | 1        | 20              | 20              | 2080   | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**Infiltration Ponds-0625**  
**25F0259-11RE1 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/11/2025 13:25

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/03/2025 01:06

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25F0259-11RE1 B 02

Preparation Batch: BNF0472

Sample Size: 25 mL

Prepared: 06/25/2025

Final Volume: 25 mL

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony | 7440-36-0  | 5        | 0.750           | 1.00            | 8.50   | ug/L  | D     |
| Vanadium | 7440-62-2  | 5        | 0.500           | 1.00            | 0.700  | ug/L  | J, D  |



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840 HOWE STREET, #1000  
VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**Infiltration Ponds-0625**  
**25F0259-12 (Water)**

**Metals and Metallic Compounds (dissolved)**

|                                                            |                             |
|------------------------------------------------------------|-----------------------------|
| Method: EPA 200.8                                          | Sampled: 06/11/2025 13:25   |
| Instrument: ICPMS1 Analyst: HAL                            | Analyzed: 07/03/2025 01:26  |
| Sample Preparation:                                        | Extract ID: 25F0259-12 A 01 |
| Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix |                             |
| Preparation Batch: BNF0534                                 | Sample Size: 25 mL          |
| Prepared: 06/27/2025                                       | Final Volume: 25 mL         |

| Analyte             | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony, Dissolved | 7440-36-0  | 5        | 0.750           | 1.00            | 8.34   | ug/L  | D     |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**Infiltration Ponds-0625**  
**25F0259-12RE1 (Water)**

**Metals and Metallic Compounds (dissolved)**

Method: EPA 200.8

Sampled: 06/11/2025 13:25

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/14/2025 19:32

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix  
Preparation Batch: BNG0218 Sample Size: 25 mL  
Prepared: 07/14/2025 Final Volume: 25 mL

Extract ID: 25F0259-12RE1 A 03

| Analyte                | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT, Dissolved | 7440-38-2  | 5        | 0.500           | 1.00            | 13.7   | ug/L  | D     |
| Vanadium, Dissolved    | 7440-62-2  | 5        | 0.500           | 1.00            | 0.660  | ug/L  | J, D  |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**Infiltration Ponds-0625**  
**25F0259-12RE1 (Water)**

**Metals and Metallic Compounds (dissolved)**

Method: EPA 6010D  
Instrument: ICP3 Analyst: SH

Sampled: 06/11/2025 13:25

Analyzed: 07/01/2025 20:38

Sample Preparation: Preparation Method: WMN (No Prep) Sample Size: 25 mL  
Preparation Batch: BNF0517 Final Volume: 25 mL  
Prepared: 06/26/2025 Extract ID: 25F0259-12RE1 A 01

| Analyte              | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Potassium, Dissolved | 7440-09-7  | 4        | 1.00            | 2.00            | 776    | mg/L  | D     |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**Infiltration Ponds-0625**  
**25F0259-12RE3 (Water)**

**Metals and Metallic Compounds (dissolved)**

Method: EPA 200.8

Sampled: 06/11/2025 13:25

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/24/2025 04:56

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix  
Preparation Batch: BNG0416 Sample Size: 25 mL  
Prepared: 07/22/2025 Final Volume: 25 mL

Extract ID: 25F0259-12RE3 A 05

| Analyte         | CAS Number | Dilution | Detection | Reporting | Result | Units | Notes |
|-----------------|------------|----------|-----------|-----------|--------|-------|-------|
|                 |            |          | Limit     | Limit     |        |       |       |
| Lead, Dissolved | 7439-92-1  | 1        | 0.100     | 0.200     | 0.508  | ug/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**Still Well-0625**  
**25F0259-13 (Water)**

**Metals and Metallic Compounds**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Method: EPA 200.8               | Sampled: 06/11/2025 14:00             |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 06/25/2025 20:52            |
| Sample Preparation:             | Preparation Method: REN - EPA 3010A M |
|                                 | Preparation Batch: BNF0472            |
|                                 | Prepared: 06/25/2025                  |
|                                 | Sample Size: 25 mL                    |
|                                 | Final Volume: 25 mL                   |
|                                 | Extract ID: 25F0259-13 B 03           |

| Analyte     | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT | 7440-38-2  | 5        | 0.500           | 1.00            | 42.7   | ug/L  | D     |
| Lead        | 7439-92-1  | 5        | 0.500           | 1.00            | 0.570  | ug/L  | J, D  |



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840 HOWE STREET, #1000  
VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**Still Well-0625**  
**25F0259-13 (Water)**

**Metals and Metallic Compounds**

Method: EPA 6010D  
Instrument: ICP3 Analyst: MCB

Sampled: 06/11/2025 14:00

Analyzed: 06/19/2025 18:49

Sample Preparation: Preparation Method: TWC EPA 3010A  
Preparation Batch: BNF0360  
Prepared: 06/19/2025

Sample Size: 25 mL  
Final Volume: 25 mL

Extract ID: 25F0259-13 B 01

| Analyte   | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Potassium | 7440-09-7  | 5        | 1.25            | 2.50            | 408    | mg/L  | D     |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**Still Well-0625**  
**25F0259-13 (Water)**

**Wet Chemistry**

Method: SM 2540 C-11  
Instrument: BAL2 Analyst: AG

Sampled: 06/11/2025 14:00

Analyzed: 06/13/2025 13:32

Sample Preparation: Preparation Method: No Prep Wet Chem  
Preparation Batch: BNF0271 Sample Size: 10 mL  
Prepared: 06/13/2025 Final Volume: 200 mL

Extract ID: 25F0259-13

| Analyte          | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Dissolved Solids |            | 1        | 100             | 100             | 1450   | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**Still Well-0625**  
**25F0259-13RE1 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/11/2025 14:00

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/03/2025 01:11

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25F0259-13RE1 B 02

Preparation Batch: BNF0472

Sample Size: 25 mL

Prepared: 06/25/2025

Final Volume: 25 mL

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony | 7440-36-0  | 5        | 0.750           | 1.00            | 23.2   | ug/L  | D     |
| Vanadium | 7440-62-2  | 5        | 0.500           | 1.00            | 2.49   | ug/L  | D     |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**Interceptor Trench-0625**  
**25F0259-14 (Water)**

**Wet Chemistry**

Method: SM 2540 C-11  
Instrument: BAL2 Analyst: AG

Sampled: 06/09/2025 13:35

Analyzed: 06/13/2025 13:32

Sample Preparation: Preparation Method: No Prep Wet Chem  
Preparation Batch: BNF0271 Sample Size: 100 mL  
Prepared: 06/13/2025 Final Volume: 200 mL

Extract ID: 25F0259-14

| Analyte          | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Dissolved Solids |            | 1        | 10              | 10              | 354    | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-35A-0625**  
**25F0259-15 (Water)**

**Metals and Metallic Compounds**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Method: EPA 200.8               | Sampled: 06/11/2025 13:30             |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 06/25/2025 21:15            |
| Sample Preparation:             | Preparation Method: REN - EPA 3010A M |
|                                 | Preparation Batch: BNF0472            |
|                                 | Prepared: 06/25/2025                  |
|                                 | Sample Size: 25 mL                    |
|                                 | Final Volume: 25 mL                   |
|                                 | Extract ID: 25F0259-15 B 03           |

| Analyte     | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT | 7440-38-2  | 5        | 0.500           | 1.00            | 13.3   | ug/L  | D     |
| Lead        | 7439-92-1  | 5        | 0.500           | 1.00            | 0.890  | ug/L  | J, D  |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-35A-0625**  
**25F0259-15 (Water)**

**Metals and Metallic Compounds**

Method: EPA 6010D  
Instrument: ICP3 Analyst: MCB

Sampled: 06/11/2025 13:30

Analyzed: 06/19/2025 18:53

Sample Preparation: Preparation Method: TWC EPA 3010A  
Preparation Batch: BNF0360  
Prepared: 06/19/2025

Sample Size: 25 mL  
Final Volume: 25 mL

Extract ID: 25F0259-15 B 01

| Analyte   | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Potassium | 7440-09-7  | 5        | 1.25            | 2.50            | 735    | mg/L  | D     |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-35A-0625**  
**25F0259-15 (Water)**

**Wet Chemistry**

Method: SM 2540 C-11

Sampled: 06/11/2025 13:30

Instrument: BAL2 Analyst: AG

Analyzed: 06/13/2025 13:32

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0259-15

Preparation Batch: BNF0271

Sample Size: 50 mL

Prepared: 06/13/2025

Final Volume: 200 mL

| Analyte          | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Dissolved Solids |            | 1        | 20              | 20              | 2090   | mg/L  |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-35A-0625**  
**25F0259-15RE1 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/11/2025 13:30

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/03/2025 01:16

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25F0259-15RE1 B 02

Preparation Batch: BNF0472

Sample Size: 25 mL

Prepared: 06/25/2025

Final Volume: 25 mL

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony | 7440-36-0  | 5        | 0.750           | 1.00            | 8.14   | ug/L  | D     |
| Vanadium | 7440-62-2  | 5        | 0.500           | 1.00            | 0.675  | ug/L  | J, D  |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-35A-0625**  
**25F0259-16 (Water)**

**Metals and Metallic Compounds (dissolved)**

|                                                            |                             |
|------------------------------------------------------------|-----------------------------|
| Method: EPA 200.8                                          | Sampled: 06/11/2025 13:30   |
| Instrument: ICPMS1 Analyst: HAL                            | Analyzed: 07/03/2025 02:25  |
| Sample Preparation:                                        | Extract ID: 25F0259-16 A 01 |
| Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix |                             |
| Preparation Batch: BNF0534                                 | Sample Size: 25 mL          |
| Prepared: 06/27/2025                                       | Final Volume: 25 mL         |

| Analyte             | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony, Dissolved | 7440-36-0  | 5        | 0.750           | 1.00            | 8.77   | ug/L  | D     |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-35A-0625**  
**25F0259-16RE1 (Water)**

**Metals and Metallic Compounds (dissolved)**

|                                 |                                                            |
|---------------------------------|------------------------------------------------------------|
| Method: EPA 200.8               | Sampled: 06/11/2025 13:30                                  |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 07/14/2025 19:58                                 |
| Sample Preparation:             | Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix |
|                                 | Preparation Batch: BNG0218                                 |
|                                 | Prepared: 07/14/2025                                       |
|                                 | Sample Size: 25 mL                                         |
|                                 | Final Volume: 25 mL                                        |
|                                 | Extract ID: 25F0259-16RE1 A 01                             |

| Analyte                | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT, Dissolved | 7440-38-2  | 5        | 0.500           | 1.00            | 13.5   | ug/L  | D     |
| Vanadium, Dissolved    | 7440-62-2  | 5        | 0.500           | 1.00            | 0.660  | ug/L  | J, D  |



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840 HOWE STREET, #1000  
VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-35A-0625**  
**25F0259-16RE1 (Water)**

**Metals and Metallic Compounds (dissolved)**

Method: EPA 6010D  
Instrument: ICP3 Analyst: SH

Sampled: 06/11/2025 13:30

Analyzed: 07/01/2025 20:35

Sample Preparation: Preparation Method: WMN (No Prep) Sample Size: 25 mL  
Preparation Batch: BNF0517 Final Volume: 25 mL  
Prepared: 06/26/2025 Extract ID: 25F0259-16RE1 A 01

| Analyte              | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Potassium, Dissolved | 7440-09-7  | 4        | 1.00            | 2.00            | 754    | mg/L  | D     |



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Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-35A-0625**  
**25F0259-16RE3 (Water)**

**Metals and Metallic Compounds (dissolved)**

Method: EPA 200.8

Sampled: 06/11/2025 13:30

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/24/2025 05:01

Sample Preparation: Preparation Method: REN EPA 600/4-79-020 4.1.4 HNO3 matrix  
Preparation Batch: BNG0416 Sample Size: 25 mL  
Prepared: 07/22/2025 Final Volume: 25 mL

Extract ID: 25F0259-16RE3 A 05

| Analyte         | CAS Number | Dilution | Detection | Reporting | Result | Units | Notes |
|-----------------|------------|----------|-----------|-----------|--------|-------|-------|
|                 |            |          | Limit     | Limit     |        |       |       |
| Lead, Dissolved | 7439-92-1  | 1        | 0.100     | 0.200     | 0.516  | ug/L  |       |



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Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-45A-0625**  
**25F0259-17 (Water)**

**Metals and Metallic Compounds**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Method: EPA 200.8               | Sampled: 06/11/2025 10:45             |
| Instrument: ICPMS1 Analyst: HAL | Analyzed: 06/25/2025 21:20            |
| Sample Preparation:             | Preparation Method: REN - EPA 3010A M |
|                                 | Preparation Batch: BNF0472            |
|                                 | Prepared: 06/25/2025                  |
|                                 | Sample Size: 25 mL                    |
|                                 | Final Volume: 25 mL                   |
|                                 | Extract ID: 25F0259-17 B 03           |

| Analyte     | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT | 7440-38-2  | 5        | 0.500           | 1.00            | 1.08   | ug/L  | D     |
| Lead        | 7439-92-1  | 5        | 0.500           | 1.00            | ND     | ug/L  | U     |



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VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-45A-0625**  
**25F0259-17 (Water)**

**Metals and Metallic Compounds**

Method: EPA 6010D  
Instrument: ICP3 Analyst: MCB

Sampled: 06/11/2025 10:45

Analyzed: 06/19/2025 19:44

Sample Preparation: Preparation Method: TWC EPA 3010A  
Preparation Batch: BNF0360  
Prepared: 06/19/2025

Sample Size: 25 mL

Final Volume: 25 mL

Extract ID: 25F0259-17 B 01

| Analyte   | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Potassium | 7440-09-7  | 1        | 0.250           | 0.500           | 21.7   | mg/L  |       |



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840 HOWE STREET, #1000  
VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-45A-0625**  
**25F0259-17 (Water)**

**Wet Chemistry**

Method: SM 2540 C-11

Sampled: 06/11/2025 10:45

Instrument: BAL2 Analyst: AG

Analyzed: 06/13/2025 13:32

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0259-17

Preparation Batch: BNF0271

Sample Size: 100 mL

Prepared: 06/13/2025

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.  
840 HOWE STREET, #1000  
VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-45A-0625**  
**25F0259-17RE1 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/11/2025 10:45

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/03/2025 01:21

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25F0259-17RE1 B 02

Preparation Batch: BNF0472

Sample Size: 25 mL

Prepared: 06/25/2025

Final Volume: 25 mL

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony | 7440-36-0  | 5        | 0.750           | 1.00            | 0.885  | ug/L  | J, D  |
| Vanadium | 7440-62-2  | 5        | 0.500           | 1.00            | 0.790  | ug/L  | J, D  |



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840 HOWE STREET, #1000  
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Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-99-1-0625**  
**25F0259-18 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/11/2025 14:30

Instrument: ICPMS1 Analyst: HAL

Analyzed: 06/25/2025 21:25

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25F0259-18 B 03

Preparation Batch: BNF0472

Sample Size: 25 mL

Prepared: 06/25/2025

Final Volume: 25 mL

| Analyte     | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Arsenic UCT | 7440-38-2  | 5        | 0.500           | 1.00            | ND     | ug/L  | U     |
| Lead        | 7439-92-1  | 5        | 0.500           | 1.00            | 0.745  | ug/L  | J, D  |



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VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-99-1-0625**  
**25F0259-18 (Water)**

**Metals and Metallic Compounds**

Method: EPA 6010D  
Instrument: ICP3 Analyst: MCB

Sampled: 06/11/2025 14:30

Analyzed: 06/19/2025 19:47

Sample Preparation: Preparation Method: TWC EPA 3010A  
Preparation Batch: BNF0360  
Prepared: 06/19/2025

Sample Size: 25 mL  
Final Volume: 25 mL

Extract ID: 25F0259-18 B 01

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



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VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**MW-99-1-0625**  
**25F0259-18 (Water)**

### Wet Chemistry

Method: SM 2540 C-11

Sampled: 06/11/2025 14:30

Instrument: BAL2 Analyst: AG

Analyzed: 06/13/2025 13:32

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 25F0259-18

Preparation Batch: BNF0271

Sample Size: 200 mL

Prepared: 06/13/2025

Final Volume: 200 mL

| Analyte          | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Dissolved Solids |            | 1        | 5               | 5               | ND     | mg/L  | U     |



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VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

**MW-99-1-0625**  
**25F0259-18RE1 (Water)**

**Metals and Metallic Compounds**

Method: EPA 200.8

Sampled: 06/11/2025 14:30

Instrument: ICPMS1 Analyst: HAL

Analyzed: 07/03/2025 02:10

Sample Preparation:

Preparation Method: REN - EPA 3010A M

Extract ID: 25F0259-18RE1 B 02

Preparation Batch: BNF0472

Sample Size: 25 mL

Prepared: 06/25/2025

Final Volume: 25 mL

| Analyte  | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|----------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Antimony | 7440-36-0  | 5        | 0.750           | 1.00            | ND     | ug/L  | U     |
| Vanadium | 7440-62-2  | 5        | 0.500           | 1.00            | ND     | ug/L  | U     |



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VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

Analysis by: Analytical Resources, LLC

### Metals and Metallic Compounds - Quality Control

#### Batch BNF0360 - EPA 6010D in Water

Instrument: ICP3 Analyst: MCB

| QC Sample/Analyte                                                           | Result | Detection Limit | Reporting Limit | Units | Spike Level                                                          | Source Result | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|-----------------------------------------------------------------------------|--------|-----------------|-----------------|-------|----------------------------------------------------------------------|---------------|------|-------------|------|-----------|-------|
| <b>Blank (BNF0360-BLK1)</b>                                                 |        |                 |                 |       | Prepared: 19-Jun-2025 Analyzed: 19-Jun-2025 18:01                    |               |      |             |      |           |       |
| Potassium                                                                   | ND     | 0.250           | 0.500           | mg/L  |                                                                      |               |      |             |      |           | U     |
| <b>LCS (BNF0360-BS1)</b>                                                    |        |                 |                 |       | Prepared: 19-Jun-2025 Analyzed: 19-Jun-2025 18:03                    |               |      |             |      |           |       |
| Potassium                                                                   | 10.5   | 0.250           | 0.500           | mg/L  | 10.0                                                                 |               | 105  | 80-120      |      |           |       |
| <b>Duplicate (BNF0360-DUP1)</b>                                             |        |                 |                 |       | Source: 25F0259-04 Prepared: 19-Jun-2025 Analyzed: 19-Jun-2025 19:07 |               |      |             |      |           |       |
| Potassium                                                                   | 0.881  | 0.250           | 0.500           | mg/L  |                                                                      | 0.831         |      |             | 5.80 | 20        |       |
| <b>Matrix Spike (BNF0360-MS1)</b>                                           |        |                 |                 |       | Source: 25F0259-04 Prepared: 19-Jun-2025 Analyzed: 19-Jun-2025 19:10 |               |      |             |      |           |       |
| Potassium                                                                   | 11.7   | 0.250           | 0.500           | mg/L  | 10.0                                                                 | 0.831         | 108  | 75-125      |      |           |       |
| Recovery limits for target analytes in MS/MSD QC samples are advisory only. |        |                 |                 |       |                                                                      |               |      |             |      |           |       |
| <b>Matrix Spike Dup (BNF0360-MSD1)</b>                                      |        |                 |                 |       | Source: 25F0259-04 Prepared: 19-Jun-2025 Analyzed: 19-Jun-2025 19:13 |               |      |             |      |           |       |
| Potassium                                                                   | 11.5   | 0.250           | 0.500           | mg/L  | 10.0                                                                 | 0.831         | 106  | 75-125      | 1.61 | 20        |       |
| Recovery limits for target analytes in MS/MSD QC samples are advisory only. |        |                 |                 |       |                                                                      |               |      |             |      |           |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

**Analysis by: Analytical Resources, LLC**

**Metals and Metallic Compounds - Quality Control**

**Batch BNF0472 - 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 |
|-----------------------------------------------------------------------------|---------|--------|-----------------|-----------------|-------|-------------------------------------------------------------------------|---------------|------|-------------|------|-----------|-------|
| <b>Blank (BNF0472-BLK1)</b>                                                 |         |        |                 |                 |       | Prepared: 25-Jun-2025 Analyzed: 25-Jun-2025 17:42                       |               |      |             |      |           |       |
| 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     |
| <b>Blank (BNF0472-BLK2)</b>                                                 |         |        |                 |                 |       | Prepared: 25-Jun-2025 Analyzed: 26-Jun-2025 17:46                       |               |      |             |      |           |       |
| 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     |
| <b>LCS (BNF0472-BS1)</b>                                                    |         |        |                 |                 |       | Prepared: 25-Jun-2025 Analyzed: 25-Jun-2025 17:47                       |               |      |             |      |           |       |
| Antimony                                                                    | 121     | 22.6   | 0.150           | 0.200           | ug/L  | 25.0                                                                    |               | 90.5 | 85-115      |      |           |       |
| Arsenic UCT                                                                 | 75a UCT | 25.5   | 0.100           | 0.200           | ug/L  | 25.0                                                                    |               | 102  | 85-115      |      |           |       |
| Lead                                                                        | 208     | 26.8   | 0.100           | 0.200           | ug/L  | 25.0                                                                    |               | 107  | 85-115      |      |           |       |
| <b>LCS (BNF0472-BS2)</b>                                                    |         |        |                 |                 |       | Prepared: 25-Jun-2025 Analyzed: 26-Jun-2025 17:51                       |               |      |             |      |           |       |
| Antimony                                                                    | 121     | 23.1   | 0.150           | 0.200           | ug/L  | 25.0                                                                    |               | 92.3 | 85-115      |      |           |       |
| Arsenic UCT                                                                 | 75a UCT | 25.4   | 0.100           | 0.200           | ug/L  | 25.0                                                                    |               | 102  | 85-115      |      |           |       |
| Lead                                                                        | 208     | 25.9   | 0.100           | 0.200           | ug/L  | 25.0                                                                    |               | 103  | 85-115      |      |           |       |
| Vanadium                                                                    | 51a     | 22.2   | 0.100           | 0.200           | ug/L  | 25.0                                                                    |               | 88.8 | 85-115      |      |           |       |
| <b>Duplicate (BNF0472-DUP1)</b>                                             |         |        |                 |                 |       | Source: 25F0259-04 Prepared: 25-Jun-2025 Analyzed: 25-Jun-2025 19:35    |               |      |             |      |           |       |
| Arsenic UCT                                                                 | 75a UCT | ND     | 0.500           | 1.00            | ug/L  |                                                                         | ND            |      |             | 20   |           | U     |
| Lead                                                                        | 208     | ND     | 0.500           | 1.00            | ug/L  |                                                                         | ND            |      |             | 20   |           | U     |
| <b>Duplicate (BNF0472-DUP2)</b>                                             |         |        |                 |                 |       | Source: 25F0259-04RE1 Prepared: 25-Jun-2025 Analyzed: 27-Jun-2025 02:21 |               |      |             |      |           |       |
| Antimony                                                                    | 121     | ND     | 0.750           | 1.00            | ug/L  |                                                                         | ND            |      |             | 20   |           | U     |
| Vanadium                                                                    | 51a     | 0.620  | 0.500           | 1.00            | ug/L  |                                                                         | 0.580         |      |             | 6.67 | 20        | J, D  |
| <b>Matrix Spike (BNF0472-MS1)</b>                                           |         |        |                 |                 |       | Source: 25F0259-04 Prepared: 25-Jun-2025 Analyzed: 25-Jun-2025 19:39    |               |      |             |      |           |       |
| Arsenic UCT                                                                 | 75a UCT | 26.2   | 0.500           | 1.00            | ug/L  | 25.0                                                                    | ND            | 105  | 75-125      |      |           | D     |
| Lead                                                                        | 208     | 27.1   | 0.500           | 1.00            | ug/L  | 25.0                                                                    | ND            | 108  | 75-125      |      |           | D     |
| Recovery limits for target analytes in MS/MSD QC samples are advisory only. |         |        |                 |                 |       |                                                                         |               |      |             |      |           |       |
| <b>Matrix Spike (BNF0472-MS2)</b>                                           |         |        |                 |                 |       | Source: 25F0259-04RE1 Prepared: 25-Jun-2025 Analyzed: 27-Jun-2025 02:26 |               |      |             |      |           |       |
| Antimony                                                                    | 121     | 22.1   | 0.750           | 1.00            | ug/L  | 25.0                                                                    | ND            | 88.5 | 75-125      |      |           | D     |
| Vanadium                                                                    | 51a     | 20.9   | 0.500           | 1.00            | ug/L  | 25.0                                                                    | 0.580         | 81.5 | 75-125      |      |           | D     |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

Analysis by: Analytical Resources, LLC

### Metals and Metallic Compounds - Quality Control

#### Batch BNF0472 - 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 |
|-------------------|---------|--------|-----------------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|-------------------|---------|--------|-----------------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

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

|                                        |         |      |                           |      |      |                       |    |     |                             |      |    |   |
|----------------------------------------|---------|------|---------------------------|------|------|-----------------------|----|-----|-----------------------------|------|----|---|
| <b>Matrix Spike Dup (BNF0472-MSD1)</b> |         |      | <b>Source: 25F0259-04</b> |      |      | Prepared: 25-Jun-2025 |    |     | Analyzed: 25-Jun-2025 19:44 |      |    |   |
| Arsenic UCT                            | 75a UCT | 25.7 | 0.500                     | 1.00 | ug/L | 25.0                  | ND | 103 | 75-125                      | 2.29 | 20 | D |
| Lead                                   | 208     | 26.2 | 0.500                     | 1.00 | ug/L | 25.0                  | ND | 105 | 75-125                      | 3.51 | 20 | D |

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

|                                        |     |      |                              |      |      |                       |       |      |                             |      |    |   |
|----------------------------------------|-----|------|------------------------------|------|------|-----------------------|-------|------|-----------------------------|------|----|---|
| <b>Matrix Spike Dup (BNF0472-MSD2)</b> |     |      | <b>Source: 25F0259-04RE1</b> |      |      | Prepared: 25-Jun-2025 |       |      | Analyzed: 27-Jun-2025 02:31 |      |    |   |
| Antimony                               | 121 | 22.0 | 0.750                        | 1.00 | ug/L | 25.0                  | ND    | 88.1 | 75-125                      | 0.48 | 20 | D |
| Vanadium                               | 51a | 20.6 | 0.500                        | 1.00 | ug/L | 25.0                  | 0.580 | 80.1 | 75-125                      | 1.69 | 20 | D |

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



WSP USA, Inc.

840 HOWE STREET, #1000

VANCOUVER BRITISH COLUMBIA, V6Z 2M1

Project: Ravensdale

Project Number: Ravensdale

Project Manager: Accounts Payable

Reported:

25-Jul-2025 13:08

Analysis by: Analytical Resources, LLC

### Metals and Metallic Compounds (dissolved) - Quality Control

#### Batch BNF0517 - EPA 6010D in Water

Instrument: ICP3 Analyst: SH

| QC Sample/Analyte           | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level                                    | Source<br>Result | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|-----------------------------|--------|--------------------|--------------------|-------|---------------------------------------------------|------------------|----------------|-----|--------------|-------|
| <b>Blank (BNF0517-BLK1)</b> |        |                    |                    |       | Prepared: 26-Jun-2025 Analyzed: 01-Jul-2025 18:44 |                  |                |     |              |       |
| Potassium, Dissolved        | ND     | 0.250              | 0.500              | mg/L  |                                                   |                  |                |     |              | U     |
| <b>LCS (BNF0517-BS1)</b>    |        |                    |                    |       | Prepared: 26-Jun-2025 Analyzed: 01-Jul-2025 18:47 |                  |                |     |              |       |
| Potassium, Dissolved        | 11.8   | 0.253              | 0.505              | mg/L  | 10.0                                              | 118              | 80-120         |     |              |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNF0534 - EPA 200.8 in Water

Instrument: ICPMS1 Analyst: HAL

| QC Sample/Analyte           | Isotope | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level                                    | Source<br>Result | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|-----------------------------|---------|--------|--------------------|--------------------|-------|---------------------------------------------------|------------------|----------------|-----|--------------|-------|
| <b>Blank (BNF0534-BLK1)</b> |         |        |                    |                    |       | Prepared: 27-Jun-2025 Analyzed: 03-Jul-2025 00:56 |                  |                |     |              |       |
| Antimony, Dissolved         | 121     | ND     | 0.150              | 0.200              | ug/L  |                                                   |                  |                |     |              | U     |
| <b>LCS (BNF0534-BS1)</b>    |         |        |                    |                    |       | Prepared: 27-Jun-2025 Analyzed: 03-Jul-2025 01:01 |                  |                |     |              |       |
| Antimony, Dissolved         | 121     | 23.5   | 0.150              | 0.200              | ug/L  | 25.0                                              | 93.8             | 85-115         |     |              |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

Analysis by: Analytical Resources, LLC

### Metals and Metallic Compounds (dissolved) - Quality Control

#### Batch BNG0218 - 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 |
|-----------------------------------------------------------------------------|---------|---------------------------------------------------|-----------------|---------------------------------------------------|-------|-------------|---------------|------|-------------|-------|-----------|-------|
| <b>Blank (BNG0218-BLK1)</b>                                                 |         | Prepared: 14-Jul-2025 Analyzed: 14-Jul-2025 18:38 |                 |                                                   |       |             |               |      |             |       |           |       |
| Arsenic UCT, Dissolved                                                      | 75a UCT | ND                                                | 0.100           | 0.200                                             | ug/L  |             |               |      |             |       |           | U     |
| Vanadium, Dissolved                                                         | 51a     | ND                                                | 0.100           | 0.200                                             | ug/L  |             |               |      |             |       |           | U     |
| <b>LCS (BNG0218-BS1)</b>                                                    |         | Prepared: 14-Jul-2025 Analyzed: 14-Jul-2025 18:43 |                 |                                                   |       |             |               |      |             |       |           |       |
| Arsenic UCT, Dissolved                                                      | 75a UCT | 28.1                                              | 0.100           | 0.200                                             | ug/L  | 25.0        |               | 112  | 85-115      |       |           |       |
| Vanadium, Dissolved                                                         | 51a     | 28.6                                              | 0.100           | 0.200                                             | ug/L  | 25.0        |               | 115  | 85-115      |       |           |       |
| <b>Duplicate (BNG0218-DUP1)</b>                                             |         | <b>Source: 25F0259-16RE1</b>                      |                 | Prepared: 14-Jul-2025 Analyzed: 14-Jul-2025 20:03 |       |             |               |      |             |       |           |       |
| Arsenic UCT, Dissolved                                                      | 75a UCT | 13.5                                              | 0.500           | 1.00                                              | ug/L  |             | 13.5          |      |             | 0.22  | 20        | D     |
| <b>Matrix Spike (BNG0218-MS1)</b>                                           |         | <b>Source: 25F0259-16RE1</b>                      |                 | Prepared: 14-Jul-2025 Analyzed: 14-Jul-2025 20:08 |       |             |               |      |             |       |           |       |
| Arsenic UCT, Dissolved                                                      | 75a UCT | 44.3                                              | 0.500           | 1.00                                              | ug/L  | 25.0        | 13.5          | 123  | 75-125      |       |           | D     |
| Recovery limits for target analytes in MS/MSD QC samples are advisory only. |         |                                                   |                 |                                                   |       |             |               |      |             |       |           |       |
| <b>Matrix Spike Dup (BNG0218-MSD1)</b>                                      |         | <b>Source: 25F0259-16RE1</b>                      |                 | Prepared: 14-Jul-2025 Analyzed: 14-Jul-2025 20:13 |       |             |               |      |             |       |           |       |
| Arsenic UCT, Dissolved                                                      | 75a UCT | 38.6                                              | 0.500           | 1.00                                              | ug/L  | 25.0        | 13.5          | 100  | 75-125      | 13.80 | 20        | D     |
| Recovery limits for target analytes in MS/MSD QC samples are advisory only. |         |                                                   |                 |                                                   |       |             |               |      |             |       |           |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds (dissolved) - Quality Control

Batch BNG0416 - 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 |
|-------------------------------|---------|--------|-----------------|-----------------|-------|---------------------------------------------------|---------------|------|-------------|------|-----------|-------|
| <b>Blank (BNG0416-BLK1)</b>   |         |        |                 |                 |       | Prepared: 22-Jul-2025 Analyzed: 22-Jul-2025 16:49 |               |      |             |      |           |       |
| Lead, Dissolved               | 208     | ND     | 0.100           | 0.200           | ug/L  |                                                   |               |      |             |      |           | U     |
| <b>LCS (BNG0416-BS1)</b>      |         |        |                 |                 |       | Prepared: 22-Jul-2025 Analyzed: 23-Jul-2025 17:15 |               |      |             |      |           |       |
| Lead, Dissolved               | 208     | 21.4   | 0.100           | 0.200           | ug/L  | 25.0                                              |               | 85.5 | 85-115      |      |           |       |
| <b>LCS Dup (BNG0416-BSD1)</b> |         |        |                 |                 |       | Prepared: 22-Jul-2025 Analyzed: 22-Jul-2025 16:59 |               |      |             |      |           |       |
| Lead, Dissolved               | 208     | 21.4   | 0.100           | 0.200           | ug/L  | 25.0                                              |               | 85.6 | 85-115      | 0.13 | 20        |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNF0271 - SM 2540 C-11 in Water

Instrument: BAL2 Analyst: AG

| QC Sample/Analyte               | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level                                                       | Source<br>Result | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|--------------------|-------|----------------------------------------------------------------------|------------------|----------------|------|--------------|-------|
| <b>Blank (BNF0271-BLK1)</b>     |        |                    |                    |       | Prepared: 13-Jun-2025 Analyzed: 13-Jun-2025 13:32                    |                  |                |      |              |       |
| Dissolved Solids                | ND     | 5                  | 5                  | mg/L  |                                                                      |                  |                |      |              | U     |
| <b>LCS (BNF0271-BS1)</b>        |        |                    |                    |       | Prepared: 13-Jun-2025 Analyzed: 13-Jun-2025 13:32                    |                  |                |      |              |       |
| Dissolved Solids                | 481    | 10                 | 10                 | mg/L  | 500                                                                  |                  | 96.2 90-110    |      |              |       |
| <b>Duplicate (BNF0271-DUP1)</b> |        |                    |                    |       | Source: 25F0259-04 Prepared: 13-Jun-2025 Analyzed: 13-Jun-2025 13:32 |                  |                |      |              |       |
| Dissolved Solids                | 272    | 10                 | 10                 | mg/L  |                                                                      | 270              |                | 0.74 | 20           |       |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

Reported:  
25-Jul-2025 13:08

## 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         | 07/31/2025 |
| WA-DW    | Ecology - Drinking Water                                         | C558         | 07/31/2025 |



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

Project: Ravensdale  
Project Number: Ravensdale  
Project Manager: Accounts Payable

**Reported:**  
25-Jul-2025 13:08

### 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                                                                                                                             |
| E    | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)                        |
| 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.                                                                                                 |
| L    | Analyte concentration is $\leq 5$ times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD                               |
| 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** South Pond - 0625

**Sampling Location** Surface Water Monitoring Point

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

**Type of Sampler** Grab

**Date** June 9, 2025 **Time** 12:55

**Media** Surface Water **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 ft BTOC (June 9, 2025 12:55); Well total depth at N/A

Screen Interval: N/A

Pump Intake: N/A

**Sample Description** DRY-NO SAMPLE TAKEN

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

| Aliquot Amount | Analysis | Container | Preservation |
|----------------|----------|-----------|--------------|
| -              |          | HDPE      |              |

## SAMPLE INTEGRITY DATA SHEET

Well ID South Pond

Date 06/09/2025

Time Begin Purge 12:35

Time Collect Sample 12:55

| Water Level<br>(ft bmp) | Time | pH | Cond.<br>(uS/cm) | Temp<br>(°C) | DO<br>(mg/L) | ORP<br>(rel mV) | Turbidity<br>(NTU) |
|-------------------------|------|----|------------------|--------------|--------------|-----------------|--------------------|
|                         |      |    |                  |              |              |                 |                    |

Comments:

Flow Rate: \_\_\_\_\_ mL/min

DRY-NO SAMPLE TAKEN

Sampler 

Date June 9, 2025

Supervisor \_\_\_\_\_

Date \_\_\_\_\_

## SAMPLE INTEGRITY DATA SHEET

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

**Site Location** Ravensdale, WA

**Sample ID** Weir or Constructed Wetlands - 0625

**Sampling Location** Monitoring Well

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

**Type of Sampler** Grab

**Date** June 9, 2025 **Time** 13:15

**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 ft BTOC (June 9, 2025 13:15); Well total depth at N/A

Screen Interval: N/A

Pump Intake: N/A

**Sample Description** DRY-NO SAMPLE TAKEN

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

| Aliquot Amount | Analysis | Container | Preservation |
|----------------|----------|-----------|--------------|
| -              |          | HDPE      |              |

## SAMPLE INTEGRITY DATA SHEET

Well ID \_\_\_\_\_ Weir or Constructed Wetlands \_\_\_\_\_

Date 06/09/2025

Time Begin Purge 15:34

Time Collect Sample 13:15

| Water Level<br>(ft bmp) | Time | pH | Cond.<br>(uS/cm) | Temp<br>(°C) | DO<br>(mg/L) | ORP<br>(rel mV) | Turbidity<br>(NTU) |
|-------------------------|------|----|------------------|--------------|--------------|-----------------|--------------------|
|                         |      |    |                  |              |              |                 |                    |

Comments:

Flow Rate: \_\_\_\_\_ mL/min

DRY-NO SAMPLE TAKEN

Sampler 

Date June 9, 2025

Supervisor \_\_\_\_\_

Date \_\_\_\_\_

## SAMPLE INTEGRITY DATA SHEET

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

**Site Location** Ravensdale, WA

**Sample ID** MW-7A - 0625

**Sampling Location** Monitoring Well

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

**Type of Sampler** Peristaltic Pump, Grab

**Date** June 9, 2025 **Time** 13:40

**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 14.1 ft BTOC (June 10, 2025 12:45); 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 06/10/2025

Time Begin Purge 13:05

Time Collect Sample 13:40

| Water Level<br>(ft bmp) | Time  | pH   | Cond.<br>(uS/cm) | Temp<br>(°C) | DO<br>(mg/L) | ORP<br>(rel mV) | Turbidity<br>(NTU) |
|-------------------------|-------|------|------------------|--------------|--------------|-----------------|--------------------|
| 14.12                   | 13:10 | 6.92 | 772              | 12.8         | 3.03         | 87.3            | 19.6               |
| 14.12                   | 13:15 | 6.94 | 761              | 12.4         | 2.05         | 85.1            | 18.5               |
| 14.12                   | 13:20 | 6.95 | 758              | 12.2         | 1.73         | 82.9            | 7.73               |
| 14.12                   | 13:25 | 6.95 | 757              | 12.1         | 1.52         | 81.3            | 5.13               |
| 14.12                   | 13:30 | 6.95 | 755              | 12           | 1.41         | 80.3            | 2.82               |
| 14.12                   | 13:35 | 6.95 | 755              | 12           | 1.38         | 79.8            | 1.98               |

Comments:

Flow Rate: 160 mL/min

Sampler 

Date June 10, 2025

Supervisor \_\_\_\_\_

Date \_\_\_\_\_

## SAMPLE INTEGRITY DATA SHEET

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

**Site Location** Ravensdale, WA

**Sample ID** Still Well - 0625

**Sampling Location** Monitoring Well

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

**Type of Sampler** Peristaltic Pump

**Date** June 11, 2025 **Time** 14:00

**Media** Groundwater **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 (June 11, 2025 13:58); 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         |
| 1-1000 mL      | Total Dissolved Solids | HDPE      | N/A          |

## SAMPLE INTEGRITY DATA SHEET

Well ID Still Well

Date 06/11/2025

Time Begin Purge 13:58

Time Collect Sample 14:00

| Water Level<br>(ft bmp) | Time  | pH    | Cond.<br>(uS/cm) | Temp<br>(°C) | DO<br>(mg/L) | ORP<br>(rel mV) | Turbidity<br>(NTU) |
|-------------------------|-------|-------|------------------|--------------|--------------|-----------------|--------------------|
|                         | 14:00 | 12.54 | 7,004            | 16.1         | 0.91         | -124            | 4.67               |

Comments:

Flow Rate: \_\_\_\_\_ mL/min

Sampler 

Date June 11, 2025

Supervisor \_\_\_\_\_

Date \_\_\_\_\_

## SAMPLE INTEGRITY DATA SHEET

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

**Site Location** Ravensdale, WA

**Sample ID** Infiltration Ponds / MW-35A - 0625

**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** June 11, 2025 **Time** 13:23

**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 ft BTOC (June 11, 2025 13:25); 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 |
|----------------|----------|-----------|--------------|
| -              |          | HDPE      |              |

## SAMPLE INTEGRITY DATA SHEET

Well ID Infiltration Ponds / MW-35A

Date 06/11/2025

Time Begin Purge 13:25

Time Collect Sample 13:23

| Water Level<br>(ft bmp) | Time  | pH   | Cond.<br>(uS/cm) | Temp<br>(°C) | DO<br>(mg/L) | ORP<br>(rel mV) | Turbidity<br>(NTU) |
|-------------------------|-------|------|------------------|--------------|--------------|-----------------|--------------------|
|                         | 13:25 | 8.24 | 3,272            | 19.9         | 7.09         | 61.1            | 3.75               |

Comments:

Flow Rate: \_\_\_\_\_ mL/min

Sampler 

Date June 11, 2025

Supervisor \_\_\_\_\_

Date \_\_\_\_\_

## SAMPLE INTEGRITY DATA SHEET

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

**Site Location** Ravensdale, WA

**Sample ID** MW-5A - 0625

**Sampling Location** Monitoring Well

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

**Type of Sampler** Bladder Pump (non-dedicated), Grab

**Date** June 11, 2025 **Time** 13:05

**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 32.35 ft BTOC (June 11, 2025 12:15); 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         |
| 2-1000 mL      | Total Dissolved Solids | HDPE      | N/A          |

## SAMPLE INTEGRITY DATA SHEET

Well ID MW-5A

Date 06/11/2025

Time Begin Purge 12:18

Time Collect Sample 13:05

| Water Level<br>(ft bmp) | Time  | pH   | Cond.<br>(uS/cm) | Temp<br>(°C) | DO<br>(mg/L) | ORP<br>(rel mV) | Turbidity<br>(NTU) |
|-------------------------|-------|------|------------------|--------------|--------------|-----------------|--------------------|
| 32.22                   | 12:25 | 7.5  | 2,021            | 9.9          | 0.66         | 69.7            | 1.99               |
| 32.25                   | 12:30 | 7.49 | 1,991            | 9.9          | 0.59         | 58.4            | 0.81               |
| 32.25                   | 12:35 | 7.51 | 1,579            | 9.9          | 2.52         | 63.7            | 1.27               |
| 32.22                   | 12:40 | 7.39 | 1,341            | 9.9          | 4.44         | 76.5            | 0.76               |
| 32.24                   | 12:45 | 7.34 | 1,268            | 9.9          | 5.26         | 83.9            | 0.59               |
| 32.25                   | 12:50 | 7.33 | 1,252            | 10           | 5.55         | 87.1            | 0.44               |
| 32.26                   | 12:55 | 7.32 | 1,240            | 10           | 5.72         | 89.5            | 0.41               |
| 32.24                   | 13:00 | 7.31 | 1,229            | 10.1         | 5.8          | 91.2            | 0.27               |

Comments:

Flow Rate: 200 mL/min

Sampler 

Date June 11, 2025

Supervisor \_\_\_\_\_

Date \_\_\_\_\_



## SAMPLE INTEGRITY DATA SHEET

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

**Site Location** Ravensdale, WA

**Sample ID** MW-6A - 0625

**Sampling Location** Monitoring Well

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

**Type of Sampler** Bladder Pump (non-dedicated)

**Date** June 11, 2025 **Time** 12:05

**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 30.06 ft BTOC (June 11, 2025 11:09); 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         |
| 1-1000 mL      | Total Dissolved Solids | HDPE      | N/A          |

## SAMPLE INTEGRITY DATA SHEET

Well ID MW-6A

Date 06/11/2025

Time Begin Purge 11:12

Time Collect Sample 12:05

| Water Level<br>(ft bmp) | Time  | pH   | Cond.<br>(uS/cm) | Temp<br>(°C) | DO<br>(mg/L) | ORP<br>(rel mV) | Turbidity<br>(NTU) |
|-------------------------|-------|------|------------------|--------------|--------------|-----------------|--------------------|
| 30.65                   | 11:15 | 7.54 | 1,009            | 9.6          | 6.96         | 88.7            | 7.17               |
| 31.03                   | 11:20 | 7.5  | 1,009            | 9.5          | 6.81         | 89.4            | 4.64               |
| 31.3                    | 11:25 | 7.49 | 1,036            | 9.4          | 6.83         | 90.7            | 4.30               |
| 31.4                    | 11:30 | 7.48 | 1,057            | 9.3          | 6.98         | 92.3            | 3.60               |
| 31.5                    | 11:35 | 7.47 | 1,087            | 9.4          | 7.05         | 92.3            | 2.56               |
| 31.45                   | 11:40 | 7.47 | 1,112            | 9.4          | 6.89         | 93.3            | 1.64               |
| 31.6                    | 11:45 | 7.47 | 1,153            | 9.4          | 6.93         | 94.2            | 1.39               |
| 31.5                    | 11:50 | 7.49 | 1,177            | 9.5          | 6.84         | 91.5            | 1.24               |
| 31.35                   | 11:55 | 7.49 | 1,194            | 9.5          | 6.83         | 91.0            | 1.43               |
| 31.4                    | 12:00 | 7.5  | 1,203            | 9.5          | 6.8          | 92.0            | 0.84               |

Comments:

Flow Rate: 200 mL/min

Sampler 

Date June 11, 2025

Supervisor \_\_\_\_\_

Date \_\_\_\_\_



## SAMPLE INTEGRITY DATA SHEET

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

**Site Location** Ravensdale, WA

**Sample ID** MW-2A / MW-45A - 0625

**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** June 11, 2025 **Time** 10:40

**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 28.34 ft BTOC (June 11, 2025 10:06); 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         |



## SAMPLE INTEGRITY DATA SHEET

Well ID MW-2A / MW-45A

Date 06/11/2025

Time Begin Purge 10:09

Time Collect Sample 10:40

| Water Level<br>(ft bmp) | Time  | pH   | Cond.<br>(uS/cm) | Temp<br>(°C) | DO<br>(mg/L) | ORP<br>(rel mV) | Turbidity<br>(NTU) |
|-------------------------|-------|------|------------------|--------------|--------------|-----------------|--------------------|
| 28.34                   | 10:15 | 6.9  | 629              | 9.5          | 7.79         | 113.0           | 6.03               |
| 28.34                   | 10:20 | 6.84 | 629              | 9.5          | 7.75         | 118.0           | 3.10               |
| 28.23                   | 10:25 | 6.83 | 629              | 9.5          | 7.75         | 120.1           | 1.83               |
| 28.25                   | 10:30 | 6.8  | 630              | 9.5          | 7.74         | 122.3           | 1.70               |
| 28.3                    | 10:35 | 6.79 | 632              | 9.6          | 7.72         | 122.5           | 1.55               |

Comments:

Flow Rate: \_\_\_\_\_ mL/min

MW-45A-0625 sampled at 1045

Sampler 

Date June 11, 2025

Supervisor \_\_\_\_\_

Date \_\_\_\_\_

## SAMPLE INTEGRITY DATA SHEET

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

**Site Location** Ravensdale, WA

**Sample ID** MW-1A - 0625

**Sampling Location** Monitoring Well

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

**Type of Sampler** Bladder Pump (non-dedicated)

**Date** June 11, 2025 **Time** 09:45

**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 34.45 ft BTOC (June 11, 2025 9:00); 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 |
|----------------|------------------------|-----------|--------------|
| 1-250 mL       | Total Metals           | HDPE      | HNO3         |
| 1-1000 mL      | Total Dissolved Solids | HDPE      | N/A          |

## SAMPLE INTEGRITY DATA SHEET

Well ID MW-1A

Date 06/11/2025

Time Begin Purge 09:10

Time Collect Sample 09:45

| Water Level<br>(ft bmp) | Time  | pH   | Cond.<br>(uS/cm) | Temp<br>(°C) | DO<br>(mg/L) | ORP<br>(rel mV) | Turbidity<br>(NTU) |
|-------------------------|-------|------|------------------|--------------|--------------|-----------------|--------------------|
| 34.45                   | 09:15 | 6.63 | 769              | 9.7          | 1.13         | 22.0            | 4.25               |
| 34.46                   | 09:20 | 6.56 | 725              | 9.7          | 6.18         | 70.6            | 3.08               |
| 34.46                   | 09:25 | 6.59 | 700              | 9.8          | 7.86         | 99.9            |                    |
| 34.46                   | 09:30 | 6.64 | 697              | 9.8          | 8.14         | 107.5           | 1.33               |
| 34.46                   | 09:35 | 6.68 | 695              | 9.8          | 8.22         | 111.6           | 1.12               |
| 34.46                   | 09:40 | 6.71 | 695              | 9.7          | 8.28         | 114.3           | 0.75               |

Comments:

Flow Rate: 300 mL/min

Sampler 

Date June 11, 2025

Supervisor \_\_\_\_\_

Date \_\_\_\_\_

## SAMPLE INTEGRITY DATA SHEET

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

**Site Location** Ravensdale, WA

**Sample ID** MW-9A - 0625

**Sampling Location** Monitoring Well

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

**Type of Sampler** Peristaltic Pump, Grab

**Date** June 9, 2025 **Time** 15:45

**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 4.37 ft BTOC (June 9, 2025 15:09; 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         |
| 1-1000 mL      | Total Dissolved Solids | HDPE      | N/A          |

## SAMPLE INTEGRITY DATA SHEET

Well ID MW-9A

Date 06/09/2025

Time Begin Purge 15:11

Time Collect Sample 15:45

| Water Level<br>(ft bmp) | Time  | pH   | Cond.<br>(uS/cm) | Temp<br>(°C) | DO<br>(mg/L) | ORP<br>(rel mV) | Turbidity<br>(NTU) |
|-------------------------|-------|------|------------------|--------------|--------------|-----------------|--------------------|
| 5.57                    | 15:15 | 7.05 | 594              | 12.7         | 2.13         | 81.4            | 2.83               |
| 6.39                    | 15:20 | 7.05 | 592              | 12.8         | 1.48         | 81.3            | 2.44               |
| 6.91                    | 15:25 | 6.98 | 569              | 13.4         | 1.64         | 85.3            | 1.98               |
| 7.34                    | 15:30 | 6.95 | 546              | 13.4         | 1.87         | 87.1            | 3.98               |
| 7.79                    | 15:35 | 6.96 | 550              | 13           | 1.86         | 88.4            | 4.25               |
| 8.15                    | 15:40 | 6.96 | 558              | 13           | 1.73         | 90.8            | 0.82               |

Comments:

Flow Rate: 200 mL/min

Sampler 

Date June 9, 2025

Supervisor \_\_\_\_\_

Date \_\_\_\_\_

## SAMPLE INTEGRITY DATA SHEET

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

**Site Location** Ravensdale, WA

**Sample ID** MW-4A - 0625

**Sampling Location** Monitoring Well

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

**Type of Sampler** Peristaltic Pump, Grab

**Date** June 9, 2025 **Time** 14:40

**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 6.24 ft BTOC (June 9, 2025 13:53); 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         |
| 1-1000 mL      | Total Metals | HDPE      | HNO3         |

## SAMPLE INTEGRITY DATA SHEET

Well ID MW-4A

Date 06/09/2025

Time Begin Purge 13:53

Time Collect Sample 14:40

| Water Level<br>(ft bmp) | Time  | pH   | Cond.<br>(uS/cm) | Temp<br>(°C) | DO<br>(mg/L) | ORP<br>(rel mV) | Turbidity<br>(NTU) |
|-------------------------|-------|------|------------------|--------------|--------------|-----------------|--------------------|
| 6.53                    | 14:05 | 6.73 | 646              | 12.9         | 0.73         | 87.7            | 1.34               |
| 6.55                    | 14:10 | 6.7  | 637              | 13.1         | 0.35         | 92.1            | 2.60               |
| 6.54                    | 14:15 | 6.6  | 592              | 12.7         | 0.28         | 89.6            | 2.61               |
| 6.55                    | 14:20 | 6.57 | 561              | 13.2         | 0.37         | 84.7            | 1.80               |
| 6.55                    | 14:25 | 6.54 | 506              | 13.1         | 0.72         | 85.5            | 1.24               |
| 6.55                    | 14:30 | 6.53 | 504              | 13.3         | 0.7          | 82.7            | 0.98               |
| 6.55                    | 14:35 | 6.52 | 505              | 13.4         | 0.63         | 79.4            | 2.62               |

Comments:

Flow Rate: 300 mL/min

Sampler 

Date June 9, 2025

Supervisor \_\_\_\_\_

Date \_\_\_\_\_

## SAMPLE INTEGRITY DATA SHEET

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

**Site Location** Ravensdale, WA

**Sample ID** Interceptor Trench - 0625

**Sampling Location** Surface Water Monitoring Point

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

**Type of Sampler** Grab

**Date** June 9, 2025 **Time** 13:35

**Media** Surface Water **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 (June 9, 2025 13:35); 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 |
|----------------|------------------------|-----------|--------------|
| 1-1000 mL      | Total Dissolved Solids | HDPE      | N/A          |

## SAMPLE INTEGRITY DATA SHEET

Well ID \_\_\_\_\_ Interceptor Trench \_\_\_\_\_

Date 06/09/2025

Time Begin Purge 13:35

Time Collect Sample 13:35

| Water Level<br>(ft bmp) | Time  | pH   | Cond.<br>(uS/cm) | Temp<br>(°C) | DO<br>(mg/L) | ORP<br>(rel mV) | Turbidity<br>(NTU) |
|-------------------------|-------|------|------------------|--------------|--------------|-----------------|--------------------|
| 0                       | 13:35 | 7.75 | 627              | 12.2         | 9.67         | -77.9           | 15.9               |

Comments:

Flow Rate: \_\_\_\_\_ mL/min

25 seconds for 450 ml

Sampler 

Date June 9, 2025

Supervisor \_\_\_\_\_

Date \_\_\_\_\_

## SAMPLE INTEGRITY DATA SHEET

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

**Site Location** Ravensdale, WA

**Sample ID** MW-10A - 0625

**Sampling Location** Monitoring Well

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

**Type of Sampler** Peristaltic Pump

**Date** June 9, 2025 **Time** 12:40

**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 9.25 ft BTOC (June 9, 2025 11:54); 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         |
| 1-1000 mL      | Total Dissolved Solids | HDPE      | N/A          |

## SAMPLE INTEGRITY DATA SHEET

Well ID MW-10A

Date 06/09/2025

Time Begin Purge 23:57

Time Collect Sample 12:40

| Water Level<br>(ft bmp) | Time  | pH   | Cond.<br>(uS/cm) | Temp<br>(°C) | DO<br>(mg/L) | ORP<br>(rel mV) | Turbidity<br>(NTU) |
|-------------------------|-------|------|------------------|--------------|--------------|-----------------|--------------------|
| 11                      | 12:05 | 7.1  | 186              | 12.6         | 8.12         | 69.0            | 2.04               |
| 11.49                   | 12:10 | 7.04 | 185              | 13.3         | 8.05         | 76.1            | 4.99               |
| 11.19                   | 12:15 | 7    | 183              | 12.7         | 8.28         | 83.5            | 1.99               |
| 12.15                   | 12:20 | 6.93 | 181              | 12.5         | 8.19         | 95.2            | 1.57               |
| 12.45                   | 12:25 | 6.9  | 180              | 12.6         | 8.23         | 103.1           | 1.96               |
| 12.8                    | 12:30 | 6.88 | 178              | 12.6         | 8.29         | 107.8           | 1.91               |
| 13.21                   | 12:35 | 6.88 | 176              | 13.2         | 8.27         | 106.7           |                    |

Comments:

Flow Rate: 200 mL/min

Sampler 

Date June 9, 2025

Supervisor \_\_\_\_\_

Date \_\_\_\_\_

## SAMPLE INTEGRITY DATA SHEET

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

**Site Location** Ravensdale, WA

**Sample ID** MW-3A - 0625

**Sampling Location** Monitoring Well

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

**Type of Sampler** Peristaltic Pump

**Date** June 9, 2025 **Time** 11:35

**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 7.55 ft BTOC (June 9, 2025 10:39); 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 |
|----------------|------------------------|-----------|--------------|
| 1-250 mL       | Total Metals           | HDPE      | HNO3         |
| 1-1000 mL      | Total Dissolved Solids | HDPE      | N/A          |



## SAMPLE INTEGRITY DATA SHEET

Well ID MW-3A

Date 06/09/2025

Time Begin Purge 10:43

Time Collect Sample 11:35

| Water Level<br>(ft bmp) | Time  | pH   | Cond.<br>(uS/cm) | Temp<br>(°C) | DO<br>(mg/L) | ORP<br>(rel mV) | Turbidity<br>(NTU) |
|-------------------------|-------|------|------------------|--------------|--------------|-----------------|--------------------|
| 8.41                    | 10:50 | 6.91 | 1,273            | 12.1         | 0.6          | -55.5           | 9.52               |
| 8.7                     | 10:55 | 7.09 | 1,256            | 12.2         | 0.34         | -54.1           | 7.46               |
| 8.93                    | 11:00 | 7.09 | 1,236            | 12           | 0.29         | -42.2           | 2.32               |
| 9.27                    | 11:05 | 7.09 | 1,186            | 11.8         | 0.24         | -45.0           | 2.05               |
| 9.53                    | 11:10 | 7.11 | 1,113            | 11.8         | 0.23         | -48.6           | 4.00               |
| 9.88                    | 11:15 | 7.31 | 971              | 12.1         | 0.23         | -50.4           | 5.91               |
| 10.12                   | 11:20 | 7.25 | 986              | 12.4         | 0.29         | -64.2           | 3.20               |
| 10.4                    | 11:25 | 7.22 | 1,001            | 12.3         | 0.34         | -64.4           | 2.75               |
| 10.53                   | 11:30 | 7.18 | 1,015            | 12.7         | 0.37         | -61.2           | 2.80               |

Comments:

Flow Rate: 200 mL/min

Sampler 

Date June 9, 2025

Supervisor \_\_\_\_\_

Date \_\_\_\_\_



## SAMPLE INTEGRITY DATA SHEET

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

**Site Location** Ravensdale, WA

**Sample ID** MW-8A - 0625

**Sampling Location** Monitoring Well

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

**Type of Sampler** Peristaltic Pump

**Date** June 10, 2025 **Time** 11:25

**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 23.52 ft BTOC (June 10, 2025 11:25); 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 |
|----------------|------------------------|-----------|--------------|
| 1-250 mL       | Total Metals           | HDPE      | HNO3         |
| 1-1000 mL      | Total Dissolved Solids | HDPE      | N/A          |

## SAMPLE INTEGRITY DATA SHEET

Well ID MW-8A

Date 06/10/2025

Time Begin Purge 10:43

Time Collect Sample 11:28

| Water Level<br>(ft bmp) | Time  | pH   | Cond.<br>(uS/cm) | Temp<br>(°C) | DO<br>(mg/L) | ORP<br>(rel mV) | Turbidity<br>(NTU) |
|-------------------------|-------|------|------------------|--------------|--------------|-----------------|--------------------|
| 23.55                   | 11:30 | 6.9  | 1,043            | 11           | 1.18         | 8.0             | 1.76               |
| 23.55                   | 11:35 | 7.21 | 979              | 10.6         | 1.89         | 8.4             | 4.85               |
| 23.55                   | 11:40 | 7.16 | 954              | 10.7         | 2.36         | 32.4            | 6.48               |
| 23.55                   | 11:45 | 7.18 | 944              | 10.5         | 2.48         | 43.4            | 1.65               |
| 23.55                   | 11:50 | 7.2  | 941              | 10.4         | 2.51         | 49.3            | 0.93               |
| 23.55                   | 11:55 | 7.21 | 940              | 10.6         | 2.5          | 51.7            | 1.11               |

Comments:

Flow Rate: 130 mL/min

Sampler 

Date June 10, 2025

Supervisor \_\_\_\_\_

Date \_\_\_\_\_

