



ANNUAL PROGRESS REPORT AND PERFORMANCE MONITORING REPORT

BARBEE MILL GROUNDWATER
REMEDIATION PROJECT

Renton, WA

Prepared for

Barbee Mill Co., Inc.

Project Number

25011

Date

2/26/2026

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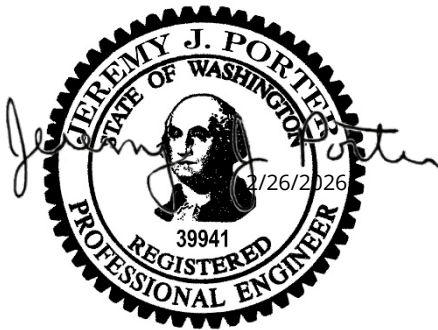
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1 Introduction

Black River Environmental (Black River) prepared this Progress Report and Performance Monitoring Report to evaluate the performance of cleanup actions implemented to address arsenic in groundwater at the Barbee Mill Site (Site). The Site includes portions of the following properties:

- The former Barbee Mill Property (Barbee Property), which is currently owned by individual residential homeowners and is located at 4101 Lake Washington Boulevard North in Renton, Washington.
- The Quendall Terminals Property (Quendall Property), located north of the Barbee Property, which includes aquatic lands owned by Lake Washington East, LLC, and formerly by Quendall Terminals.
- State-owned aquatic lands of Lake Washington, located west of the Barbee Property.

Cleanup actions at the Site are described in the draft Interim Action Design and Implementation Report (Aspect, 2010a) and include the following activities to address arsenic and petroleum in groundwater:

- Removing soil from the Site that exceeds Washington State Model Toxic Control Act (MTCA) Method A cleanup levels for arsenic and total petroleum hydrocarbons (TPH) and MTCA Method B cleanup levels for zinc and pentachlorophenol (PCP). The excavation of arsenic-contaminated soil was completed between January and May 2006, and a total of approximately 54,125 tons of soil was removed. The excavation of TPH- and PCP-impacted soil was completed in July 2006, and a total of 23 tons of soil was removed.
- Installing a Passive Attenuation Zone (PAZ) between February and April 2007 along the downgradient boundary of the Barbee Property to prevent arsenic above the Site-specific natural background level from migrating off the Barbee Property.
- Installing a Groundwater Extraction and Treatment (Pump-and-Treat) System upgradient of the PAZ to remove additional arsenic mass from groundwater to enhance performance of the PAZ. The system operated from June 2009 to August 2011.
- Installing a network of monitoring wells and piezometers to evaluate performance of the PAZ and Pump-and-Treat System. The monitoring well and piezometer network was installed in August 2007, and the well points were installed near the shoreline in January 2009.

A Site plan showing the layout of the PAZ, Pump-and-Treat System, and monitoring well network is provided on Figure 1. Groundwater monitoring at the Site is ongoing in accordance with the Performance Monitoring Plan (Aspect, 2010b).

The draft Remedial Investigation and Feasibility Study Report (RI/FS; Aspect and Geosyntec, 2024) describes the nature and extent of contamination at the Site, evaluates potential remedies, and identifies a final remedy for the Site. The Draft Cleanup Action Plan (DCAP) describes the selected remedy, including a compliance monitoring plan (Ecology, 2024). The draft RI/FS and DCAP were approved by the Washington State Department of Ecology (Ecology) for public review and were provided for public comment from August 25 through October 8, 2025. See Section 2 below.

This report was prepared in accordance with Agreed Order DE 5396 (AO) dated December 1, 2009, Amendment 1 dated December 16, 2010, and Amendment 2 dated May 30, 2012, between Barbee Mill Co., Inc., and Ecology (collectively, the AO). The AO requires annual progress reports as well as evaluation of remediation performance and reevaluation of restoration time frame on an annual basis. This Annual Progress Report and Performance Monitoring Report have been prepared as one combined deliverable, per the AO Schedule Change Request (Aspect 2020).

Performance of Site remedial actions through December 2024 were evaluated in the previous Performance Monitoring Report, covering the period from January to December 2024 (Aspect, 2025). This performance monitoring report:

- Includes a Site progress report for the period of January through December 2025.
- Documents the performance monitoring data collected through December 2025, evaluates the performance of the remedial actions by comparing monitoring data with remedial objectives, and updates the estimated Site restoration time frame.

The report is organized as follows:

- Section 2 – Progress Report
- Section 3 – Performance Monitoring
- Section 4 – Conclusions and Recommendations

2 Progress Report

This report covers work performed from January 1 to December 31, 2025, and includes the following information:

- Description of the work completed pursuant to the AO, including data collected.
- Summary of problems encountered and actions taken to rectify those problems.
- Projected work for 2026.

2.1 Work Completed and Data Collected

Site activities, collected data, communications with Ecology (including meetings and correspondence), and document submittals during the reporting period were as follows:

- The Annual Progress Report and Performance Monitoring Report (Aspect, 2025), covering the period from January 1 to December 31, 2024, was submitted to Ecology on February 27, 2025.
- On October 17, 2025, Ecology provided public comments received on the draft RI/FS.
- On October 27, 2025, Ecology provided public comments received on the DCAP.
- On November 13, 2025, Black River provided responses to Ecology regarding public comments on the draft RI/FS and DCAP.
- On December 2, 2025, Black River proposed (via email) and Ecology approved (via email) that the 2025 groundwater monitoring event would cover the wells proposed to be monitored in 2025 under the schedule in the DCAP, except for CMW-7, which has not been installed.
- On December 2, 2025, Ecology requested (via email) that the financial assurances cost estimate for 2026 be based upon the scope of work in the DCAP.
- On December 9, 2025, Black River submitted the 2026 financial assurances cost estimate to Ecology.
- On December 10, 2025, Ecology provided comments on the DCAP from the Department of Archaeology and Historic Preservation.
- On December 30, 2025, Black River completed the annual groundwater monitoring. Water levels were measured in 22 Site monitoring wells and piezometers, and groundwater samples were collected from 7 wells for analysis of dissolved arsenic. Monitoring results are discussed in Section 3.

2.2 Summary of Problems Encountered and Corrective Actions Taken

No problems were encountered during this reporting period.

2.3 Anticipated Work for 2026

It is anticipated that the draft Consent Decree (CD) will be finalized in 2026. Based on the Scope of Work for the draft CD, the following activities are anticipated to be conducted in 2026:

- Preparation of a Compliance Monitoring Plan (CMP) for Ecology review and approval;
- Installation of one monitoring well (CMW-7);
- Conducting a groundwater monitoring event in accordance with the Ecology-approved CMP. Groundwater monitoring is expected to be conducted in December 2026; and

- Submittal of estimated remedial action costs and proof of financial assurances to cover those costs.

3 Performance Monitoring

This section discusses the performance monitoring results for the PAZ and attenuation upgradient of the PAZ.

3.1 PAZ Groundwater Monitoring

PAZ performance is evaluated by monitoring groundwater and porewater around and downgradient of the PAZ. Our monitoring activities, results, and conclusions are provided below.

Groundwater monitoring for the PAZ was conducted on December 30, 2025 and included:

- Collecting groundwater samples from wells CMW-1, CMW-2D, CMW-4S/4D, and CMW-6 and analyzing for the following parameters:
 - Dissolved arsenic, to monitor effectiveness of the PAZ at capturing and removing arsenic from groundwater.
 - Field parameters (pH, conductivity, dissolved oxygen, and oxidation/reduction potential (ORP)) to evaluate changes to groundwater chemistry due to the PAZ.
- Measuring groundwater elevation at Site wells and piezometers PZ-1 and PZ-2, to estimate groundwater flow patterns.

The annual groundwater monitoring data is summarized in Table 1, and a summary of arsenic trends is included in Table 2. Arsenic concentrations and groundwater elevations at each sampling location from December 2025 are shown on Figures 2 and 3 for shallow and deep groundwater, respectively.

The objectives of the PAZ, installed in 2007, are to intercept the arsenic plume and reduce arsenic concentrations in groundwater to protect surface water. Groundwater monitoring data are evaluated relative to these objectives below.

3.1.1 Arsenic Plume Capture

The installed PAZ consisted of a 690-foot-long, 10- to 35-foot-wide mixture of granular iron filings and sand placed in a trench to intercept the arsenic-impacted groundwater plume (maximum depth of 22 feet at the time of installation). Arsenic in groundwater passing through the iron/sand mixture is immobilized by the iron and iron mineral precipitates. The PAZ alignment was based on arsenic concentrations in samples collected from multiple depths at 21 borings along the Barbee

Property boundary during the 2006 design investigation, as summarized in the draft Engineering Design Report (Aspect, 2006).

The PAZ's effectiveness at capturing arsenic in groundwater above the Site-specific natural background concentration is evaluated based on the arsenic concentrations at two monitoring wells (CMW-1, at the south end of the PAZ, and CMW-6, at the east end of the PAZ), and on the groundwater flow patterns for the Site (see Figure 2). Groundwater flow directions observed at the Site during the past sampling event are very similar to those reported in the previous performance monitoring report and do not exhibit significant seasonal variability. Groundwater monitoring at CMW-1 and CMW-6 indicate:

- Arsenic concentrations at CMW-1 increased after installation of the PAZ and exceed the Site-specific natural background concentration. Arsenic concentrations at CMW-1 have not exhibited an increasing or decreasing trend since 2018, and the concentration detected in December 2025 (68 µg/L) has declined compared to December 2024 (76 µg/L). The concentration does not exceed the remediation level (REL) identified in the DCAP of 150 µg/L, which is protective of surface water (Aspect, 2024b). As discussed in the previous progress report, porewater results from August 2021 indicate that dissolved arsenic in groundwater is not impacting surface water downgradient of CMW-1.
- Arsenic concentrations at CMW-6 increased up to 240 µg/L after installation of the PAZ, exceeding the Site-specific natural background. An overall downward trend has been observed since 2011. The concentration detected in December 2025 (120 µg/L) is below the REL.

The historical increases in arsenic concentrations at CMW-1 and CMW-6 are suspected to have resulted from radial flow from groundwater mounding within the permeable excavation backfill. Although arsenic concentrations at CMW-1 and CMW-6 exceed the Site-specific natural background, the removal of approximately 55,000 tons of arsenic-contaminated soil from the source area in 2006, and ongoing flushing of residual contamination upgradient of the PAZ, is expected to eventually reduce arsenic concentrations at CMW-1 and CMW-6 to below the background level.

3.1.2 PAZ Treatment Effectiveness

The PAZ is designed to reduce arsenic concentrations in groundwater flowing through it by at least 95 percent. Downgradient of the PAZ, arsenic concentrations are expected to decline gradually (i.e., attenuate) as residual arsenic in soil desorbs into the treated groundwater. Below, we evaluate the arsenic removal by the PAZ, the attenuation of arsenic downgradient of the PAZ, and the effect of the PAZ on groundwater chemistry.

3.1.2.1 Arsenic Removal

Arsenic removal by the PAZ is monitored at six monitoring wells constructed downgradient of the PAZ. Four shallow wells (CMW-2S, CMW-3, CMW-4S, and CMW-5) are screened near the water table, and two deeper wells (CMW-2D and CMW-4D) are located downgradient of the two deeper sections of the PAZ. Based on the surveyed coordinates for the wells and the PAZ, two of the shallow wells—CMW-3 and CMW-5—are located within 1 foot of the edge of the PAZ, while the other wells are located approximately 5 to 8 feet away from the edge of the PAZ.

Arsenic concentrations at PAZ monitoring wells are summarized in Table 1 and shown on Figure 4. Concentrations at three of the four shallow wells—CMW-2S, CMW-3, and CMW-5—have consistently been below the background level since the PAZ was installed. At these locations, the PAZ has removed 98 to 99.5 percent of arsenic from groundwater relative to initial concentrations. These wells are now monitored every other year with the next monitoring event scheduled for December 2026.

Arsenic concentrations at the fourth shallow well—CMW-4S—have dropped 99 percent (to 41 µg/L) compared to pre-remediation conditions. This concentration is above the Site-specific natural background of 16 µg/L, but below the REL. The concentration at CMW-4S is likely elevated due to arsenic desorbing from soil downgradient of the PAZ. A gradual decline in concentrations downgradient of the PAZ is consistent with the desorption and gradual flushing of residual arsenic on soil.

Data from the deep wells have shown the following:

- CMW-2D: Arsenic concentrations are 8 percent lower than before the PAZ was installed. Concentrations initially decreased sharply, then have gradually increased since the Pump-and-Treat System was shut down in August 2011. Arsenic concentrations at this well are protective of surface water based on historical groundwater/porewater evaluations as described in the RI/FS.
- CMW-4D: Arsenic concentrations have been reduced 94 percent as of December 2025. Concentrations varied considerably during operation of the Pump-and-Treat System, which was shut down in August 2011. Since 2014, arsenic concentrations have declined from 610 to 190 µg/L.

A slower response to PAZ treatment in the deeper system is not unexpected because groundwater flow in this unit is likely much slower than in the shallow unit, due to the presence of lower-permeability sandy silt, silt, and peat layers. Slower groundwater flow rates provide slower flushing of residual arsenic downgradient of the PAZ.

3.1.2.2 Attenuation Downgradient of the PAZ

Under the AO, attenuation of arsenic in groundwater downgradient of the PAZ is evaluated based on data at one monitoring well, BH-29A (located 180 feet downgradient of the PAZ), and two sediment well points, WP-1A (located 50 feet downgradient of the PAZ) and WP-8 (located 150 feet downgradient of the PAZ). Per communications with Ecology (see Section 2.1) and consistent with the schedule in the DCAP, these locations were not monitored in December 2025. Based on data collected through 2024, arsenic concentrations in groundwater downgradient of the PAZ are declining. For reference, trends in arsenic concentrations at WP-1A and WP-8 are shown on Figure 4.

The sediment well points, WP-1A and WP-8, are prone to damage from lake debris and boats; therefore, in the DCAP, an additional downgradient well is proposed at the shoreline to replace well point sampling locations. Following approval of the CMP, this monitoring well (CMW-7) will be installed on the Quendall Property to monitor attenuation downgradient of the PAZ in shallow groundwater between existing wells BH-29A and CMW-4S.

3.1.2.3 Effect of PAZ on Groundwater Chemistry

To determine the effect of the PAZ on groundwater chemistry, PAZ wells are monitored for field parameters including pH, temperature, conductivity, dissolved oxygen, and ORP. Field parameter data are summarized in Table 1. Field parameters measured at wells monitored in December 2025 were within the range of historical measurements at these wells.

As described in previous performance monitoring reports, the pH is slightly higher, and the conductivity is slightly lower downgradient of the PAZ compared to wells upgradient or cross-gradient of the PAZ. This data is consistent with the expected performance of the PAZ, in which ongoing reactions with the iron are expected to slightly raise the pH and remove dissolved minerals (consequently lowering the conductivity).

Based on the collected data, the PAZ is not adversely affecting groundwater chemistry. As summarized in Table 3, PAZ monitoring wells will be monitored in December 2026 for field parameters.

3.2 Attenuation of Arsenic Upgradient of the PAZ

The Pump-and-Treat System was designed to remove arsenic upgradient of the PAZ and became operational on June 3, 2009. The system was shut down on August 5, 2011, to evaluate the potential for arsenic concentrations in groundwater to increase (i.e., rebound) in the absence of pump-and-treat. As described in previous annual reports, average arsenic concentrations upgradient of the PAZ, as measured at extraction wells EW-1 through EW-8, have exhibited a declining trend since shut down of the Pump-and-Treat System.

Per communications with Ecology (see Section 2.1) and in accordance with the schedule in the DCAP, performance monitoring for groundwater upgradient of the PAZ in 2025 was completed by collecting water samples from extraction wells EW-2 and EW-8 for analysis of dissolved arsenic. Data from extraction wells are summarized in Table 1. Trends in arsenic concentrations at these wells are shown on Figure 5.

The data indicate the following since the Pump-and-Treat System was shut down in 2011:

- At four extraction wells (EW-5, EW-6, EW-7, and EW-8), arsenic concentrations have exhibited an overall decrease.
- Two wells (EW-1¹ and EW-3) have not exhibited a significant increasing or decreasing trend.
- Concentrations at EW-4 have been variable since 2011 and below Site-specific natural background since 2023.
- Concentrations initially increased at EW-2 and then became relatively stable from 2014 to 2021. From 2022 to 2025, concentrations were more variable. The December 2025 arsenic concentration of 180 µg/L is similar to pre-2022 concentrations.

Overall, arsenic concentrations upgradient of the PAZ indicate that rebound after shutdown of the Pump-and-Treat System has not occurred.

4 Conclusions and Recommendations

Site monitoring data indicate that remedial actions have greatly reduced Site arsenic concentrations. The PAZ is removing residual arsenic in groundwater migrating from the Barbee Property. Groundwater currently meets cleanup levels at the conditional point of compliance identified in the DCAP; therefore, the estimated restoration time frame is zero years.

Future monitoring will depend on confirmation of the selected final remedy and finalization of the compliance monitoring plan included in the DCAP. Until Ecology determines that Barbee Mill has completed the remedial activities required by the AO, monitoring will continue on an annual basis, in December, pending finalization of the CD. We anticipate that the next monitoring event and report will be conducted pursuant to the CD/DCAP. The groundwater monitoring schedule presented in the DCAP is provided in Table 3.

¹ EW-1 exhibited an anomalous increase in 2024 but does not exhibit a statistically significant trend. This well was not monitored in 2025 but will be added to the 2026 monitoring event.

References

Aspect Consulting, LLC (Aspect), 2006, Draft Engineering Design Report, Barbee Mill Groundwater Remediation, August 2, 2006.

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Aspect Consulting, LLC (Aspect), 2025, Annual Progress and Performance Monitoring Report, Barbee Mill Groundwater Remediation Project, February 27, 2025.

Report Limitations and Use Guidelines

This report was prepared exclusively for Barbee Mill Co., Inc. (Client) under the terms of our Agreement. No other party may rely on it without the prior written consent of Black River Environmental LLC (Black River). This limitation protects Black River from liability to third parties with whom no contractual relationship exists.

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If project conditions or property use change, or if you are unclear how these limitations apply, please contact Black River for clarification. Contact information is found on page 2 of this report, and at www.blackriverenvironmental.com.

TABLES

Table 1 - Groundwater Analytical Results

2025 Monitoring | Barbee Mill

		Metals	Field Parameters						Depth to Water in Feet	Groundwater Elevation in Feet
		Arsenic (filtered)	Temperature	Specific Conductivity	pH	Oxidation Reduction Potential (ORP)	Turbidity	Dissolved Oxygen		
			°C	µS/cm						
Barbee Mill Cleanup Level		16								
Shoreline Wells										
CMW-1	07/19/06	31	--	--	--	--	--	--	--	--
	08/30/07	33	--	--	--	--	--	--	4.63	18.12
	05/05/09	37	11.39	395	7.61	-45	18.8	0.46	3.58	19.17
	09/08/09	53	17	415	7.53	-421.3	0.46	0.39	4.61	18.14
	12/23/09	39	13.28	459	6.48	-77.1	9.48	0.09	5.36	17.39
	03/18/10	49	12.57	546	6.65	-81.7	0.89	0.09	4.45	18.3
	06/21/10	40	12.95	550	6.36	-314.9	2.16	2.16	3.55	19.2
	09/14/10	45	16.2	508	6.24	-26	1.77	0.19	4.57	18.18
	12/23/10	48	13.31	473	8.06	-1.7	3.21	0.32	4.99	17.76
	03/10/11	43	11.59	463	6.5	-25.1	--	0.69	--	--
	06/13/11	47	12.9	446.4	6.51	-99	11.6	2.18	3.53	19.22
	09/28/11	56	15.9	485.7	6.5	-141.6	0.64	1.13	4.73	18.02
	12/08/11	51	13.9	462.3	6.37	-111.2	1.61	1.73	5.19	17.56
	03/06/12	46	11.7	440.6	6.52	-129	0.35	--	4.79	17.96
	06/26/12	40	12.8	619.9	6.39	-99.5	1.86	1	3.36	19.39
	12/13/12	47	13.9	461.2	6.45	-118.8	0.69	0.11	4.88	17.87
	06/20/13	47	13.7	489.9	6.54	-112.2	3.7	0.1	3.74	19.01
	01/15/14	45	12.5	469.4	6.44	-114.7	1.7	0.25	5.16	17.59
	06/25/14	48	13.9	497.1	6.33	13.8	6.34	0.51	3.41	19.34
	12/10/14	54	14.1	500.7	6.56	-75.3	1.2	0.31	4.78	17.97
	06/12/15	47	13.5	506.9	6.37	-8.4	1.95	0.5	4.02	18.73
	12/29/15	58	13.1	485.5	6.58	-72.7	2.15	0.72	4.93	17.82
	06/08/16	45	14.4	451.7	6.59	-61.4	2.09	0.06	3.72	19.03
	12/29/16	62	13.2	406.5	6.47	-62.5	1.95	0.18	4.95	17.8
	12/28/17	60	12.5	408.5	6.5	-64.2	1.85	0.18	4.39	18.36
	12/27/18	67	12.8	469.5	6.4	-78.2	2	0.13	4.94	17.81
	12/30/19	63	12.8	473	6.24	96	<20	0.45	5.03	17.72
	03/18/21	64	11.4	408	6.51	-78	0.51	0.46	4.33	18.42
	01/06/22	70	12.1	423.6	6.33	-80.7	3.62	0.32	4.3	18.45
	01/06/23	64	11.87	348.07	6.47	43.7	1.28	0.13	4.68	18.07
	12/22/23	61.9	11.28	315.24	6.41	-40.1	1.22	0.14	4.9	17.85
	12/31/24	76	12.26	263.46	6.52	34.6	0.55	0.1	4.78	17.97
		12/30/25	68	13.8	411.2	6.24	-11.3	4.56	0.07	4.78
CMW-2S	05/23/06	120	--	--	--	--	--	--	--	--
	08/30/07	4.1	--	--	--	--	--	--	4.32	17.95
	05/05/09	1.7	--	--	--	--	--	--	3.28	18.99
	09/08/09	2.1	16.98	244	8.5	-408.1	0.54	0.08	4.52	17.75
	12/23/09	2.1	14.38	262	7.29	-96.9	3.04	0.12	5.11	17.16
	03/19/10	2.6	12.69	235	7.83	-163.9	0.42	0.2	4.1	18.17
	06/21/10	2	13.42	303	7.42	-343.4	2.71	0.46	3.28	18.99
	09/14/10	2.1	16.01	276	7.18	-90.5	2.1	0.06	4.42	17.85
	12/23/10	1.6	13.85	362	8.57	-33.5	4.78	0.21	4.95	17.32
	03/10/11	1.3	11.67	366	--	--	--	1.09	4.29	17.98
	06/13/11	3.2	12.6	418.9	7.38	-153.7	9.69	1.02	3.24	19.03
	09/28/11	2.3	15.2	399.8	7.46	-198.3	0.39	0.49	4.65	17.62
	12/08/11	1.9	14.8	466.5	7.25	-177.8	1.51	0.78	5.08	17.19
	03/06/12	1.6	12.2	440.2	7.27	-182.8	2.59	-	4.75	17.52
	06/26/12	2.3	12.8	635.8	7.09	-166.3	3.31	0.51	3.12	19.15
	12/13/12	2.2	14.8	455.5	7.21	-187.4	1.18	0.09	5.01	17.26
	06/20/13	2.1	13.6	454.2	7.28	-190.9	2.12	0.07	3.46	18.81
	01/15/14	1.5	13.6	450.3	7.26	-205.7	3.65	0.24	5.02	17.25
	06/25/14	2	14.3	504.8	7.1	-54.1	6.34	0.45	3.24	19.03
	12/10/14	1	14.3	470.7	7.26	-137.7	1.54	0.14	5.02	17.25
	06/12/15	1.5	13.8	548.9	7.23	-66.5	2.97	0.34	3.8	18.47
	12/29/15	1.2	12.8	568.6	7.3	-173	2.26	0.47	5.03	17.24
	01/22/16	--	--	--	--	--	--	--	7.53	14.74
	06/08/16	1.2	15.03	531	7.28	-152.9	--	0.06	3.53	18.74
	12/29/16	1.4	13.7	496.3	7.19	-166	2.47	0.07	5.01	17.26
	12/28/17	1.4	13.1	469.3	7.17	-158.4	3.03	0.17	5.03	17.24
	12/27/18	1.3	13.2	515.8	7.12	-172.9	12	0.07	5.05	17.22
	12/30/19	1.3	13.2	533	6.93	64	<20	0.34	5.13	17.14
	03/18/21	3.3	11.9	481.9	7.05	-164	1.13	0.31	4.2	18.07
	01/06/22	6.3	12.7	532.6	6.75	-137.5	4.38	0.22	4.77	17.5
	01/05/23	5.2	12.91	366.28	6.97	-108.9	2.18	0.05	5	17.27
	12/22/23	3.24	13.5	344.22	7.14	-140.1	2.33	0.09	4.6	17.67
	12/31/24	2.7	12.77	305.82	7.1	-137.2	3.16	0.07	4.99	17.28



Table 1 - Groundwater Analytical Results

2025 Monitoring | Barbee Mill

		Metals	Field Parameters						Depth to Water in Feet	Groundwater Elevation in Feet
		Arsenic (filtered) µg/L	Temperature	Specific Conductivity	pH	Oxidation Reduction Potential (ORP)	Turbidity	Dissolved Oxygen		
			°C	µS/cm	-	mV	NTU	mg/L		
Barbee Mill Cleanup Level		16								
CMW-2D	07/19/06	250	--	--	--	--	--	--	--	--
	08/30/07	33	--	--	--	--	--	--	3.99	18.21
	04/30/09	92	13.99	537	7.65	-16.3	4.89	0.57	3.29	18.91
	09/08/09	92	15.08	533	9.2	-394.7	2	0.36	4.2	18
	12/23/09	92	13.67	491	6.89	-75.9	2.95	0.26	4.81	17.39
	03/19/10	89	14.1	531	7.26	-106.9	0.52	0.29	3.79	18.41
	06/21/10	74	13.84	490	7.01	-372.3	2.99	0.93	3.02	19.18
	09/14/10	78	14.69	466	7.03	-84.1	6.29	0.07	4.13	18.07
	12/23/10	98	13.5	519	8.06	-13.8	2.48	0.24	4.56	17.64
	03/10/11	250	--	--	--	--	--	--	--	--
	03/11/11	99	12.95	513	9	-27.4	--	--	3.93	18.27
	06/13/11	90	13.6	506.4	7.06	-90.3	--	1.07	2.94	19.26
	09/28/11	89	14	539.1	7.16	-167	0.49	0.74	4.32	17.88
	12/08/11	110	13.7	559	6.94	-122.1	1.72	1.13	4.71	17.49
	03/06/12	120	13.3	575.6	7.04	-141.2	1.09	--	4.37	17.83
	06/26/12	120	13.2	769	6.9	-112.4	3.94	0.62	2.8	19.4
	12/13/12	150	13.8	618.1	6.91	-123.9	0.6	0.1	4.59	17.61
	06/20/13	160	13.7	561.9	6.93	-112.3	2.57	0.1	3.18	19.02
	01/15/14	140	13.7	552.1	6.9	-120.9	7.16	0.22	4.72	17.48
	06/25/14	140	14.5	577.5	6.78	-10.9	6.95	0.47	2.94	19.26
	12/10/14	140	13.9	522.6	6.92	-27.6	2.61	0.17	4.66	17.54
	06/12/15	170	14.4	608.8	6.9	-26.3	3.48	0.36	3.48	18.72
	12/29/15	190	13.3	597.1	7.05	-94.6	3.05	0.39	16.61	5.59
	01/22/16	--	--	--	--	--	--	--	16.67	5.53
	06/08/16	170	15.3	591.2	6.94	-40	--	0.08	3.52	18.68
	12/29/16	170	13.3	569.7	6.88	-84.7	2.37	0.22	4.59	17.61
	12/28/17	190	13.5	541.1	6.85	-79.2	1.3	0.2	4.6	17.6
	12/27/18	190	13.4	613.8	6.78	-76	4	0.12	4.64	17.56
	12/30/19	200	13.4	600	6.63	95	<20	0.7	4.77	17.43
	03/18/21	220	13.3	524.9	6.85	-72.1	7.38	0.17	3.92	18.28
	01/07/22	200	12.6	602.9	6.59	-57.2	3.61	0.27	3.99	18.21
	01/06/23	170	12.96	505.3	6.73	-25	2.76	0.19	4.46	17.74
	12/21/23	182	13.39	462.64	6.83	-43.4	1.74	0.14	5.06	17.14
	12/31/24	220	13.18	431.63	6.85	-75.3	1.56	0.13	4.52	17.68
	12/30/25	230	13.8	524	6.48	-4.8	22.8	0.12	4.52	17.68
CMW-3	07/19/06	110	--	--	--	--	--	--	--	--
	08/30/07	1.3	--	--	--	--	--	--	3.78	18.63
	04/30/09	1 U	11.88	82	9.67	36.8	7.95	0.13	2.32	20.09
	09/08/09	1.1	18.72	66	9.4	-308	2.45	0.65	4.02	18.39
	12/22/09	1 U	12.6	227	8.57	-250	1.6	0.09	4.02	18.39
	03/19/10	1 U	11.45	187	8.5	-202.7	0.51	-	3.61	18.8
	06/21/10	1 U	13.27	147	8.65	-373	3.01	0.35	2.77	19.64
	09/14/10	1 U	17.33	0.123	7.89	-107.1	2.38	0.03	4.01	18.4
	12/23/10	1 U	12.5	217	9.78	-89.9	3.13	0.16	3.8	18.61
	03/11/11	1 U	9.66	260	7.4	-	-	0.81	3.23	19.18
	06/13/11	1 U	12.2	216.4	8.87	-309.5	14.8	0.75	2.1	20.31
	09/28/11	2	16.5	231.9	8.82	-296.4	0.8	0.24	4	18.41
	12/08/11	1 U	13.4	286.4	8.55	-298.4	1.78	0.51	4.24	18.17
	03/06/12	1 U	10	323.6	8.34	-327	1.21	-	3.93	18.48
	06/26/12	1 U	13.1	333.6	8.4	-475.2	4.18	0.43	2.42	19.99
	12/13/12	1 U	13.7	288.2	8.44	-301.3	2.16	0.1	3.75	18.66
	06/20/13	1	13.8	337.8	8.2	-282	2.07	0.03	2.81	19.6
	01/15/14	1.3	11.8	489.6	8.21	-304.7	0.99	0.22	4.23	18.18
	06/25/14	1.5	14.7	524.6	7.91	-104.2	4.32	0.73	2.6	19.81
	12/10/14	1.5	13.9	550.3	7.86	-168.4	1.78	0.12	3.87	18.54
	06/12/15	1.5	13.9	420.3	7.98	-131.6	23.8	0.27	3.33	19.08
	12/29/15	1.6	12.2	511.8	7.77	-234.9	5.9	0.28	7.45	14.96
	01/22/16	--	--	--	--	--	--	--	7.49	14.92
	06/08/16	1.4	14.33	343.9	7.95	-220	7.95	0.07	3.13	19.28
	12/29/16	1.8	12.2	384.9	7.76	-216.1	2.16	0.04	3.98	18.43
	12/28/17	1.6	11.8	345.7	7.58	-195.7	2.52	0.1	4.04	18.37
	12/27/18	1.3	12.2	407.4	7.61	-223	3	0.06	4.11	18.3
	12/30/19	1.6	12	386	7.03	77.5	<20	0.7	4.23	18.18
	03/18/21	3.0 U	10.1	357.7	7.71	-248.8	3.41	0.12	3.52	18.89
	01/06/22	1.6	10.4	376.5	7.28	-186	6.68	0.2	2.96	19.45
	01/05/23	1.1	10.15	300.03	7.62	-153.2	4.01	0.04	3.51	18.9
	12/22/23	1.34	12.08	217.46	7.61	-204.6	14.3	0	4.04	18.37
	12/31/24	1	11.64	256.41	7.71	-196.2	1.74	0.05	3.86	18.55



Table 1 - Groundwater Analytical Results

2025 Monitoring | Barbee Mill

		Metals	Field Parameters						Depth to Water in Feet	Groundwater Elevation in Feet	
		Arsenic (filtered)	Temperature	Specific Conductivity	pH	Oxidation Reduction Potential (ORP)	Turbidity	Dissolved Oxygen			
			°C	µS/cm			-	mV			NTU
Barbee Mill Cleanup Level		16									
Inland Wells											
CMW-4S	07/19/06	4300	--	--	--	--	--	--	--	--	
	08/30/07	510	--	--	--	--	--	--	9.4	18.04	
	04/30/09	180	11.35	212	8.1	30.6	4.79	0.24	8.11	19.33	
	09/08/09	230	15.6	192	7.74	-413.2	7.8	0.31	9.57	17.87	
	12/22/09	210	11.82	300	6.58	-78.5	11.7	0.18	9.82	17.62	
	03/19/10	230	10.65	286	6.96	-73.8	4.4	0.04	9.03	18.41	
	06/21/10	200	12.11	220	6.26	-367.7	2.08	0.46	8.36	19.08	
	09/27/10	200	15.48	206	6.38	-39.3	11.7	0.19	9.47	17.97	
	12/23/10	190	11.63	275	8.48	-42.1	2.94	0.21	9.69	17.75	
	03/11/11	140	9.93	308	6.8	--	--	0.76	9.05	18.39	
	06/13/11	140	11.4	179.1	6.76	-89.2	11.8	1	8.24	19.2	
	09/28/11	170	14.6	172.8	6.89	-170.5	9.98	0.54	9.64	17.8	
	12/08/11	160	13.2	185.9	6.59	-106.2	4.65	0.93	10	17.44	
	03/06/12	130	10.3	263.1	6.68	-144.4	1.69	--	9.55	17.89	
	06/26/12	120	12.2	237.3	6.69	-458.7	4.42	0.69	8.09	19.35	
	12/13/12	120	13.1	254.1	6.6	-101.7	0.5	0.15	9.58	17.86	
	06/20/13	110	12.3	148.3	6.68	-80.7	5.22	0.06	8.47	18.97	
	01/15/14	25	12.1	304.4	6.67	-114.4	17.1	0.29	9.79	17.65	
	06/25/14	110	13.2	209.1	6.44	31	3.9	0.59	8.22	19.22	
	12/10/14	120	14	288.1	6.81	-30.1	2.02	0.2	9.52	17.92	
	06/12/15	110	13.2	196.7	6.81	-60.9	4.17	0.35	8.78	18.66	
	12/29/15	100	12.1	429.2	6.97	-107.6	2.58	0.25	11.72	15.72	
	06/08/16	89	14.08	261.2	6.92	-111.8	7.28	0.09	8.5	18.94	
	12/29/16	99	12.8	345.2	6.92	-101.3	3.28	0.13	9.63	17.81	
	12/28/17	86	12.5	252.4	6.81	-88.3	2	0.17	9.78	17.66	
	12/27/18	83	12.8	310	6.33	-31	4.5	0.19	9.79	17.65	
	12/30/19	79	12.2	337	6.54	-78	10	0.17	9.84	17.6	
	03/18/21	62	11.4	248.1	6.87	-100.9	0.5	0.12	9.04	18.4	
	01/06/22	93	12.2	158.9	6.49	-27.4	8.22	0.32	8.89	18.55	
	01/06/23	58	12.9	249.23	6.76	-66.7	3.45	0.09	9.35	18.09	
	12/21/23	51.2	13.33	127.93	6.95	-92.3	9.73	0.04	9.79	17.65	
	12/30/24	48	12.66	261.7	6.91	-75.8	4.61	0.14	9.55	17.89	
	12/30/25	41	13.6	262.6	6.61	-15	7.64	0.13	9.66	17.78	
CMW-4D	02/15/07	3,400	--	--	--	--	--	--	--	--	
	08/30/07	1,700	--	--	--	--	--	--	9.51	18.41	
	04/30/09	1,400	13.34	251	8.31	-25.7	2.45	0.12	8.2	19.72	
	09/08/09	420	14.54	225	8.24	-424.7	1.03	0.28	9.71	18.21	
	12/22/09	1,700	12.01	353	6.71	-86.7	3.52	0.26	10.16	17.76	
	03/19/10	910	12.58	320	7.11	-62.6	0.6	0.07	9.17	18.75	
	06/21/10	740	13	376	6.55	-374.6	2.71	0.42	8.56	19.36	
	09/27/10	320	14	393	7.03	-78.8	6.06	0.13	9.61	18.31	
	12/23/10	1,000	12.34	326	8.42	-57.3	3.96	0.2	9.77	18.15	
	03/11/11	910	11.77	256	6.4	--	--	1.51	9.23	18.69	
	06/13/11	580	12.6	222.2	6.96	-93	7.54	0.93	8.33	19.59	
	09/28/11	490	13.5	285.2	7.14	-164.3	3.71	0.57	9.72	18.2	
	12/08/11	660	12.4	246.7	6.81	-113.1	1.37	0.87	10.04	17.88	
	03/06/12	640	12	226.4	6.91	-141	0.84	--	9.72	18.2	
	06/26/12	510	12.5	283.8	6.39	-445.9	2.47	0.65	8.14	19.78	
	12/13/12	570	12.7	262.6	6.69	-88.3	0.5	0.12	9.39	18.2	
	06/20/13	370	12.9	196.6	7.02	-100.1	2.64	0.06	8.19	19.4	
	01/15/14	610	12.7	303.1	6.8	-113.7	2.16	0.27	9.6	17.99	
	06/25/14	340	13.5	259.9	6.64	25.3	6.07	0.65	7.95	19.64	
	12/10/14	530	13.3	289.7	6.97	-108.9	0.68	0.17	9.43	18.16	
	06/12/15	300	13.5	241.7	7.06	-68.4	4.99	0.3	8.54	19.05	
	12/29/15	460	12.9	272	7.03	-91.5	3.23	0.24	9.35	18.24	
	06/08/16	320	13.9	237.1	7	-102.1	2.87	0.04	8.24	19.35	
	12/29/16	400	12.9	261.6	6.93	-94.5	4.15	0.07	9.42	18.17	
	12/28/17	340	12.8	224.9	6.83	-70.5	0.95	0.17	9.46	18.13	
	12/27/18	300	12.5	268	6.05	40.1	2	0.19	9.45	18.14	
	12/30/19	280	12.6	287	6.45	-54.2	9	0.1	9.57	18.02	
	03/18/21	260	12.5	293.7	6.83	-108	0.05	0.12	8.76	18.83	
	01/06/22	250	13	319.8	6.54	-61.4	5.1	0.19	8.78	18.81	
	01/06/23	230	13.31	215.31	6.81	-75.2	1.27	6.19	9.13	18.46	
	12/21/23	216	13.05	123.75	6.88	-74.3	6.03	0.05	9.5	18.09	
	12/30/24	220	12.85	197.21	6.58	-60.9	3.54	0.07	9.36	18.23	
	12/30/25	190	13.1	302.6	6.44	-28.3	2.2	0.08	9.4	18.19	



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2025 Monitoring | Barbee Mill

		Metals	Field Parameters						Depth to Water in Feet	Groundwater Elevation in Feet
		Arsenic (filtered) µg/L	Temperature	Specific Conductivity	pH	Oxidation Reduction Potential (ORP)	Turbidity	Dissolved Oxygen		
			°C	µS/cm	-	mV	NTU	mg/L		
Barbee Mill Cleanup Level		16								
CMW-5	06/23/06	2900	--	--	--	--	--	--	--	--
	08/30/07	22	--	--	--	--	--	--	12.32	18.75
	05/05/09	6	11.84	191	8.27	32	3.68	0.33	10.87	20.2
	09/08/09	7.8	15.47	142	9.77	-357.7	2.5	0.23	12.72	18.35
	12/22/09	18	12.54	192	6.75	-62.3	3.09	0.26	12.56	18.51
	03/18/10	7	11.84	101	7.23	-139	1.57	0.04	12.03	19.04
	06/21/10	9.3	13.12	132	6.91	-395.7	2.98	0.52	11.34	19.73
	09/27/10	7.9	17.13	169	7.95	-113.1	7.4	0.07	12.65	18.42
	12/27/10	6.9	13.18	228	10.17	-42.2	0.8	0.17	12.09	18.98
	03/11/11	8.8	11.54	220	7	-	-	0.83	11.67	19.4
	06/14/11	5.1	12.5	266.9	8.73	-285.7	8.98	1.4	11.02	20.05
	09/29/11	6.2	15.1	314.4	8.8	-250.3	0.3	0.22	12.43	18.64
	12/09/11	5.3	14.5	441.6	8.39	-212.6	2.03	0.46	12.62	18.45
	03/07/12	4.1	12.31	535	7.44	-104.6	0.94	0.12	12.1	18.97
	06/26/12	3.4	13.1	632.1	7.35	-292.6	1.51	0.76	10.66	20.41
	12/13/12	3.4	14.4	464.2	7.24	-195.5	1.42	0.13	11.85	19.22
	06/21/13	2.4	13.1	414.6	7.41	-174.3	3.33	0.08	11.26	19.81
	01/14/14	3.3	14.2	474.6	7.3	-195	3.05	0.21	12.27	18.8
	06/26/14	1.8	13.6	485.6	6.7	2.8	5.13	1.14	11.08	19.99
	12/10/14	2.3	15.7	514.6	7.26	-158.2	1.24	0.15	11.93	19.14
	06/12/15	2.1	14.6	540	7.26	-84.1	4.33	0.29	11.69	19.38
	12/30/15	2.4	13.8	438.7	7.12	-129.8	63.2	0.81	11.86	19.21
	01/22/16	--	--	--	--	--	--	--	11.59	19.48
	06/08/16	1.6	14.13	461.9	7.26	-155.7	3.45	0.07	11.23	19.84
	12/28/16	1.6	13.6	373.3	7.46	-163.6	0.97	0.22	12.01	19.06
	12/28/17	1.6	14.2	343.3	7.25	-139	1.53	0.14	12.17	18.9
	12/27/18	1.2	14.5	457.6	7.11	-153.2	2	0.09	12.21	18.86
	12/30/19	1.5	12.23	14.2	6.92	-140.1	10	0.13	12.17	18.9
	03/19/21	3.0 U	12.2	392.5	7.23	-148.7	0.05	0.17	11.76	19.31
	01/06/22	1.0 U	12.7	316.3	7.05	-145.6	2.28	0.86	10.81	20.26
	01/05/23	2	13.86	174.39	7.42	-139.1	1.86	0.2	11.35	19.72
	12/22/23	1.29	12.15	191.98	7.34	-157.1	10.3	0.06	12.13	18.94
	12/30/24	1.7	13.72	299.41	7.13	-147.5	2.7	0.15	11.9	19.17
	12/30/25	--	--	--	--	--	--	--	11.99	19.08
CMW-6	06/05/06	23	--	--	--	--	--	--	--	--
	08/30/07	110	--	--	--	--	--	--	11.61	19.42
	05/01/09	210	13.03	439	8.74	-50.8	1.02	0.14	9.7	21.33
	09/08/09	210	15.12	434	7.25	-362.2	1.06	0.34	12.17	18.86
	12/23/09	220	12.44	534	6.55	-78.6	1.88	0.36	11.63	19.4
	03/18/10	230	12.5	618	6.69	-97.2	0.2	0.51	11.28	19.75
	06/21/10	200	13.43	542	6.36	-435.9	1.98	0.78	13.36	17.67
	09/15/10	210	15.3	478	7.14	-40.8	1.17	0.15	12.19	18.84
	12/27/10	240	12.6	533	9.19	-35.2	0.45	0.3	10.79	20.24
	03/11/11	180	12.25	535	6.4	--	--	1.81	10.56	20.47
	06/14/11	210	12.9	513.2	6.42	-51.5	9.68	2.39	10.1	20.93
	09/29/11	200	14.9	500.1	6.53	-122.3	0.27	0.73	11.47	19.56
	12/09/11	200	13.9	529.6	6.42	-90.8	1.97	1.66	11.42	19.61
	03/07/12	170	12.49	587	6.38	-35.8	0.29	0.32	10.87	20.16
	06/26/12	150	13.1	675	6.36	-104	0.82	1.84	11.57	19.46
	12/13/12	170	14.1	523.2	6.39	-82.1	0.61	0.16	10.35	20.68
	06/21/13	150	13.5	423	6.49	-58.1	2.18	0.16	13.85	17.18
	01/15/14	180	13.6	544.2	6.44	-73.6	2.29	0.44	11.04	19.99
	06/26/14	110	14.3	493.6	5.9	101.8	3.49	1.43	14.03	17
	12/10/14	170	14.7	515	6.54	-29.6	0.52	0.35	10.58	20.45
	06/11/15	120	16.1	498.1	6.53	-68.3	1	0.46	10.83	20.2
	12/30/15	160	14	485.1	6.66	-58.6	0.72	0.54	12.24	18.79
	06/08/16	110	15.6	469.9	6.57	-62.6	1.65	0.17	10.36	20.67
	12/28/16	150	14.1	447.1	6.64	-51.3	1.5	0.25	10.62	20.41
	12/28/17	150	13.3	414.3	6.51	-51.2	0.68	0.27	10	21.03
	12/27/18	130	14.1	498.4	6.4	-43	3	0.17	10.82	20.21
	12/30/19	140	14.2	464	6.29	-27.2	12	0.14	12.95	18.08
	03/19/21	140	14.64	251.9	6.59	-111.9	1.59	0.15	10.55	20.48
	01/07/22	150	14.01	232.2	6.63	-61.4	7.79	0.13	8.43	22.6
	01/06/23	140	14.64	251.9	6.59	-111.9	1.59	0.15	9.58	21.45
	12/21/23	139	14.01	232.2	6.63	-61.4	7.79	0.13	13.6	17.43
	12/30/24	160	13.52	332.3	6.37	43.3	2.89	0.19	14.07	16.96
	12/30/25	120	15	459.6	6.25	-11.8	2.14	0.09	10.47	20.56



Table 1 - Groundwater Analytical Results

2025 Monitoring | Barbee Mill

		Metals	Field Parameters						Depth to Water in Feet	Groundwater Elevation in Feet
			Arsenic (filtered)	Temperature	Specific Conductivity	pH	Oxidation Reduction Potential (ORP)	Turbidity		
		µg/L								
Barbee Mill Cleanup Level		16								
BH-29A	09/09/09	389	--	--	--	--	--	--	9.65	17.99
	12/23/09	400	--	--	--	--	--	--	9.91	17.73
	03/19/10	--	--	--	--	--	--	--	8.96	18.68
	06/22/10	--	--	--	--	--	--	--	8.29	19.35
	09/13/10	230	15.19	548	6.83	-105.6	4.76	0.06	9.52	18.12
	03/11/11	--	--	--	--	--	--	--	9.09	18.55
	06/14/11	--	--	--	--	--	--	--	8.17	19.47
	09/28/11	490	14.3	488.3	6.79	-159.9	6.66	0.9	9.63	18.01
	12/08/11	--	--	--	--	--	--	--	9.89	17.75
	03/06/12	--	--	--	--	--	--	--	9.53	18.11
	06/26/12	--	--	--	--	--	--	--	8	19.64
	12/13/12	370	12.5	465.2	6.71	-115.1	8.05	0.15	9.55	18.09
	06/20/13	--	--	--	--	--	--	--	8.44	19.2
	01/14/14	--	--	--	--	--	--	--	9.74	17.9
	06/25/14	230	14.7	484.5	6.54	-22.5	13.2	0.75	8.2	19.44
	12/10/14	260	14.1	483.5	6.7	-62.2	9.66	0.18	9.56	18.08
	06/11/15	--	--	--	--	--	--	--	8.77	18.87
	12/29/15	240	11.9	455.3	6.95	-59.9	2.67	0.27	9.45	18.19
	01/22/16	--	--	--	--	--	--	--	9.39	18.25
	06/08/16	--	--	--	--	--	--	--	8.45	19.19
	12/28/16	210	9.65	430.3	6.71	-75.9	1.27	0.32	9.64	18
	12/28/17	200	12.3	398.4	6.73	-74.5	2.42	0.21	9.67	17.97
	12/27/18	180	12.8	468.1	6.6	-80.9	14	0.13	9.71	17.93
	12/30/19	190	12.2	444.2	6.1	-29.2	<20	0.2	9.73	17.91
	11/09/20	110	--	--	--	--	--	--	--	--
	03/18/21	150	12	435	6.73	-79.4	7.17	0.96	9.05	18.59
	01/06/22	120	12.5	463.2	6.48	-58	4.9	0.24	8.97	18.67
	02/09/22	--	--	--	--	--	--	--	9.8	17.84
	01/05/23	150	12	334.06	6.75	-67.9	1.33	6.22	9.31	18.33
	12/22/23	110	12.35	352.79	6.7	-49.5	0.96	0.13	9.65	17.99
	12/30/24	120	12.32	418.22	6.74	-65.9	0.68	0.16	9.51	18.13
BH-31B	09/29/21	16	13.8	241.5	6.48	84.2	44.1	0.8	8.59	18.65
	01/06/22	30	11.6	555.8	6.68	-69.5	14.1	0.34	7.22	20.02
	02/09/22	30	12.4	510.2	7.07	-97.1	2.36	0.13	7.82	19.42
	01/05/23	12	12	373.07	7.08	-13.2	8.55	0.34	7.47	19.77
	12/22/23	29.4	11.4	437.87	7.07	-88.8	2.35	0.21	7.57	19.67
	12/30/24	32	12.26	516.02	7.06	-99.1	0.88	0.27	7.62	19.62
Inland Wells - Extraction Wells										
EW-1	06/03/09	12	--	--	--	--	--	--	--	--
	09/09/09	63	18.7	236	6.67	-119.3	-	10.16	6.86	19.95
	12/23/09	110	14.97	352	6.35	-58.1	-	0.05	10.12	16.69
	03/18/10	130	12.61	399	6.86	-72.8	-	0.6	7.08	19.73
	06/22/10	180	14.62	328	6.27	-440.8	4.47	0.85	5.76	21.05
	09/15/10	200	16.7	338	6.1	-15.2	-	0.26	6.93	19.88
	12/27/10	120	13.61	301	8.9	-25	-	0.17	6.74	20.07
	03/11/11	130	11.82	317	7.09	-9.9	4.29	0.49	6.51	20.3
	06/14/11	150	13.9	318.7	6.55	-80.5	82.1	2.03	5.8	21.01
	09/29/11	110	17.8	281.8	6.49	-143.9	8.49	0.55	6.67	20.14
	12/09/11	110	14.4	315.1	6.36	-75.5	12.9	1.24	7.19	19.62
	03/06/12	71	11.6	335	5.54	22.1	6.3	0.96	6.82	19.99
	06/26/12	76	14.9	457.2	6.34	-120.2	4.01	0.75	5.54	21.27
	12/14/12	70	14.5	354.1	6.32	-87.1	2.66	0.12	6.62	20.19
	06/21/13	100	14.8	357	6.51	-97.9	3.4	0.06	6.11	20.7
	01/14/14	74	13	348.5	6.41	-64.1	3.37	0.27	7.19	19.62
	06/26/14	80	15.4	389.6	6.17	52.6	7.28	0.71	5.81	21
	12/10/14	92	15.3	328.6	6.5	-54.2	2.27	0.17	6.72	20.09
	06/11/15	110	15.4	381.8	6.44	-42.7	4.12	0.52	6.4	20.41
	12/30/15	88	14.3	315.3	6.71	-69.6	44.2	0.22	6.73	20.08
	01/22/16	--	--	--	--	--	--	--	6.41	20.4
	06/09/16	90	15.57	372.8	6.48	-73.5	19.6	0.1	6.09	20.72
	12/29/16	73	13.9	284.4	6.54	-53	1.9	0.11	6.85	19.96
	12/28/17	71	13.9	227.4	6.52	-39.7	2.2	0.09	6.74	20.07
	12/27/18	73	14.4	265.1	6.45	-38.5	3.74	0.18	6.9	19.91
	12/30/19	74	14.2	264	6.25	96.9	8	1.01	6.9	19.91
	03/19/21	100	11.7	313.8	6.5	-55.4	12.5	0.23	6.46	20.35
	01/06/22	60	13.2	285.8	6.36	-13.6	2.28	0.2	5.37	21.44
	01/05/23	68	13.18	252.36	6.61	-49.1	1.78	0.08	6.05	20.76
	12/22/23	79.4	8.71	186.1	6.69	-66.1	3.9	0.04	6.76	20.05
	12/31/24	260	8.76	208.17	6.58	-45.2	0.23	0.1	6.61	20.2
	12/30/25	--	--	--	--	--	--	--	6.67	20.14



Table 1 - Groundwater Analytical Results

2025 Monitoring | Barbee Mill

		Metals	Field Parameters						Depth to Water in Feet	Groundwater Elevation in Feet
		Arsenic (filtered)	Temperature	Specific Conductivity	pH	Oxidation Reduction Potential (ORP)	Turbidity	Dissolved Oxygen		
		µg/L	°C	µS/cm	-	mV	NTU	mg/L		
Barbee Mill Cleanup Level		16								
EW-2	06/03/09	12	--	--	--	--	--	--	--	--
	09/09/09	100	18.58	273	5.85	-138.4	-	9.65	6.88	19.79
	12/23/09	140	14.94	362	6.4	-56.8	--	0.04	10.71	15.96
	03/18/10	--	13.07	417	6.89	-72.8	--	0.66	7.33	19.34
	06/22/10	150	16.06	279	6.39	-323.7	13.8	0.27	5.88	20.79
	09/15/10	190	17.5	416	6.42	-68.1	--	0.18	7.13	19.54
	12/27/10	180	12.32	321	2.97	-36.2	--	0.21	6.87	19.8
	03/11/11	31	9.88	264	7.35	-52.4	19.9	0.4	6.56	20.11
	06/14/11	130	14.2	356.4	6.54	-77.5	40.9	2.1	5.83	20.84
	09/29/11	45	20.4	285.6	6.59	-165.8	1.23	0.46	6.79	19.88
	12/09/11	170	13	420.8	6.36	-90.3	116	1.3	7.3	19.37
	03/06/12	67	9.93	299	6.34	7.8	1.13	0.98	6.89	19.78
	06/26/12	57	17.2	373.9	6.42	-265.1	1.4	0.7	5.54	21.13
	12/14/12	110	13	328	6.4	-76.5	3.01	0.19	6.75	19.92
	06/21/13	120	16.6	381.9	6.54	-94.6	2.61	0.06	6.21	20.46
	01/14/14	150	12.5	381.3	6.45	-65.4	3.94	0.6	7.32	19.35
	06/26/14	130	16	405	6.2	52.5	5.42	0.89	5.88	20.79
	12/09/14	210	14.5	423	6.51	-47.8	18	0.52	6.83	19.84
	06/11/15	190	15.9	436.1	6.47	-52.3	1.77	0.68	6.51	20.16
	12/30/15	190	13.3	400.3	6.68	-54.8	3.67	0.96	6.84	19.83
	06/09/16	180	15.22	436.8	6.5	-72.5	17	0.31	6.05	20.62
	12/29/16	160	13.4	367.9	6.66	-48.8	15.2	1.92	6.97	19.7
	12/28/17	110	12.3	237.6	6.53	-30.9	12.5	1.01	6.82	19.85
	12/27/18	150	13.6	358.9	6.52	-54.2	4.65	1.35	7.02	19.65
	12/31/19	160	13.4	381	6.28	108.1	13	1.07	7.01	19.66
	03/19/21	170	11.6	362.7	6.47	-76.7	27.7	0.16	6.61	20.06
	01/07/22	50	9.3	306.6	6.43	-18.4	3.86	1.21	5.35	21.32
	01/05/23	120	12.6	268.71	6.73	-64.1	1.58	1.51	6.04	20.63
	12/22/23	178	8.62	256.93	6.72	-88.1	1	0.09	6.9	19.77
	12/31/24	330	8.81	209.01	6.65	-64.6	0.34	0.08	6.65	20.02
	12/30/25	180	11.8	341.8	6.06	-32.7	18.3	0.39	6.87	19.8
EW-3	09/09/09	150	18.11	458	6.49	-214.7	--	8.28	7.67	19.1
	12/23/09	130	14.23	358	6.37	-39.9	--	0.06	7.11	19.66
	03/18/10	1900	13.29	414	6.87	-81.2	--	0.96	8.14	18.63
	06/22/10	97	15.83	515	6.48	-379.3	11.6	0.5	6.67	20.1
	09/15/10	7.7	17.29	467	6.81	-62.7	--	0.07	7.92	18.85
	12/27/10	130	11.14	0.361	8.28	-20	--	0.2	7.56	19.21
	03/11/11	23	11.19	288	7.15	-16.2	5.85	0.26	7.25	19.52
	06/14/11	140	14.2	469.5	6.55	-101.2	9.83	1.99	6.57	20.2
	09/29/11	27	18.4	380.6	6.58	-138.9	1.1	0.49	7.6	19.17
	12/09/11	180	12.8	502.4	6.39	-97.6	1.99	1.43	8	18.77
	03/07/12	190	11.5	510	6.47	-54.8	0.51	0.25	7.65	19.12
	06/26/12	130	15.1	546.7	6.35	-100.6	1.51	1.61	6.18	20.59
	12/14/12	200	13.1	481.7	6.44	-103.3	1.88	0.14	7.44	19.33
	06/20/13	200	14.3	459.3	6.59	-94.9	2.65	0.07	6.9	19.87
	01/14/14	180	12.6	457	6.48	-67.7	1.14	0.15	7.96	18.81
	06/26/14	160	15.9	475.6	6.24	24.1	6.19	0.83	6.63	20.14
	12/09/14	250	14.7	471.4	6.57	-65.3	2.92	0.16	7.52	19.25
	06/11/15	210	16.2	486.6	6.53	-59.4	3.76	0.39	7.21	19.56
	12/30/15	260	13.1	435.1	6.75	-83.1	19.8	0.38	7.53	19.24
	01/22/16	--	--	--	--	--	--	--	7.14	19.63
	06/08/16	200	15.56	452.7	6.58	-78.4	10.9	0.05	6.88	19.89
	12/29/16	240	12.6	399.7	6.62	19	9.17	0.22	7.62	19.15
	12/28/17	240	12.8	344.5	6.54	-64.7	4.55	0.13	7.54	19.23
	12/27/18	92	13.2	368	6.13	3.5	19	0.17	7.68	19.09
	12/30/19	220	13.1	407	6.31	-57.8	9	0.12	7.68	19.09
	03/19/21	190	12	373.7	6.5	-80.1	7.6	0.15	7.3	19.47
	01/06/22	59	9.4	305.7	6.35	43.1	77.5	1.07	5.94	20.83
	01/05/23	11	11.86	195.91	6.98	69.3	84.2	0.23	6.63	20.14
	12/22/23	174	12.34	203.48	6.75	-76.6	2.1	0.12	7.55	19.22
	12/31/24	51	11.67	241.32	6.59	17.8	3.73	0.18	7.33	19.44
	12/30/25	--	--	--	--	--	--	--	7.48	19.29

Table 1 - Groundwater Analytical Results

2025 Monitoring | Barbee Mill

		Metals	Field Parameters						Depth to Water in Feet	Groundwater Elevation in Feet
		Arsenic (filtered)	Temperature	Specific Conductivity	pH	Oxidation Reduction Potential (ORP)	Turbidity	Dissolved Oxygen		
		µg/L	°C	µS/cm	-	mV	NTU	mg/L		
Barbee Mill Cleanup Level		16								
EW-4	09/09/09	14	15.59	384	9.06	-315	17	1.6	8.38	19.27
	12/23/09	10	13.23	368	7.96	-125.6	2.64	0.09	8.37	19.28
	03/18/10	11	13.15	349	7.75	-112.2	0.99	0.57	7.88	19.77
	06/22/10	13	14	305	8.01	-338.9	4.14	0.32	6.67	20.98
	09/15/10	76	16.39	424	7.5	-94.1	3.56	0.04	8.34	19.31
	12/27/10	26	12.53	351	10.08	47.6	0.9	0.21	7.34	20.31
	03/11/11	27	11.77	295	7.51	-8.1	3.85	0.17	--	--
	06/14/11	12	13.5	327.4	8.03	-110.9	8.9	0.55	6.48	21.17
	09/29/11	25	16	471.9	7.67	-161.3	0.92	0.27	7.64	20.01
	12/09/11	12	13.2	534	7.5	-99.6	4.71	0.67	7.89	19.76
	03/07/12	5.7	11.21	426	7.6	-49	0.72	0.3	7.39	20.26
	06/26/12	6.8	13.7	580.5	7.53	-125.2	0.6	0.72	5.95	21.7
	12/14/12	3.4	13.4	574.3	7.34	-47.3	2.95	0.22	6.94	20.71
	06/20/13	11	14.7	457.3	7.42	-108.1	3.78	0.16	6.81	20.84
	01/14/14	61	13.1	470.2	7.05	-132.7	3.09	0.17	7.77	19.88
	06/26/14	12	15.8	461.9	7.02	42.7	5.48	0.78	6.52	21.13
	12/09/14	160	15.2	483.1	6.79	-53.4	2.26	0.19	7.32	20.33
	06/11/15	13	17.3	441.9	7.2	-67.9	2.39	0.46	7.19	20.46
	12/30/15	35	12.6	527.5	7.23	-84.2	1.67	0.44	6.12	21.53
	01/22/16	--	--	--	--	--	--	--	6.56	21.09
	06/08/16	14	16.56	459.8	7.22	-106.8	1.23	0.16	6.67	20.98
	12/29/16	23	12.4	496.4	7.21	-91.8	4.89	0.15	7.24	20.41
	12/28/17	31	12.2	431.5	7.09	-58.1	9	0.24	7.31	20.34
	12/27/18	32	13.1	517	6.68	4.3	1.7	0.15	7.45	20.2
	12/30/19	81	12.8	479	6.61	105	10	0.31	7.43	20.22
	03/19/21	110	12.6	371.2	6.65	-56.7	14.7	0.14	7.26	20.39
	01/06/22	52	12.6	453.5	6.82	-51.7	12.6	0.28	4.48	23.17
	01/05/23	41	12.95	343.58	7.03	21.9	11	0.005	6.32	21.33
	12/22/23	14.4	12.42	421.81	7.14	-32.8	12.6	0.14	7.34	20.31
	12/30/24	1.0 U	12.11	480.65	7.22	8.7	23.6	0.49	7.07	20.58
	12/30/25	--	--	--	--	--	--	--	7.2	20.45
EW-5	09/09/09	39	17.73	277	6.82	-223.2	--	8.25	8.05	20.29
	12/23/09	44	14.35	270	6.34	-4.4	--	0.21	8.98	19.36
	03/18/10	84	12.09	282	6.96	-91.9	--	0.96	8.36	19.98
	06/22/10	62	13.44	246	6.42	-402.1	13	0.27	7.28	21.06
	09/15/10	29	18.3	297	6.5	-21.8	--	4.61	9.24	19.1
	12/27/10	55	10.08	399	9.03	32.4	--	5.76	7.86	20.48
	03/11/11	70	9.1	309	6.91	19.4	--	6.62	7.74	20.6
	06/14/11	260	17.9	661	6.92	-152.1	214	1.88	6.99	21.35
	09/29/11	1400	20.4	789	7.58	-312.8	>1000	0.34	8.34	20
	12/09/11	520	10.7	468.7	6.76	-138.9	224	1.06	8.28	20.06
	03/06/12	250	10.53	453	6.38	-7	34.8	1.01	7.79	20.55
	06/26/12	220	15.1	382.1	6.57	-305	10.1	0.64	6.5	21.84
	12/14/12	220	13.3	448.4	6.38	-67.5	57.1	0.26	7.14	21.2
	06/21/13	160	15.6	279.3	6.68	-70.3	4.86	0.17	7.34	21
	01/14/14	97	12.4	383.8	6.4	-25.1	12.4	0.61	8.01	20.33
	06/26/14	140	15.9	265	6.34	56.7	9	0.77	7.02	21.32
	12/09/14	130	14	404.3	6.54	-29.6	2.72	0.72	7.53	20.81
	06/11/15	160	16.4	370.3	6.54	-64	3.31	0.67	7.69	20.65
	12/30/15	160	14.1	390.5	6.7	-32.7	3.54	0.21	6.95	21.39
	01/22/16	--	--	--	--	--	--	--	6.42	21.92
	06/09/16	85	15.44	230.1	6.73	-53.6	6.13	0.06	6.89	21.45
	12/29/16	81	13.4	319.8	6.5	-38.5	15.9	0.09	7.35	20.99
	12/28/17	86	13.1	286.1	6.52	0.1	3.86	1.18	7.4	20.94
	12/27/18	24	13	330.9	6.57	4.4	3.01	0.9	7.47	20.87
	12/30/19	110	12.8	382	6.25	115.8	12	0.79	7.28	21.06
	03/19/21	37	11.9	290.9	6.66	-15.3	12.5	0.27	7.36	20.98
	01/07/22	17	11.6	217	6.62	-20	2.87	1.32	4.51	23.83
	01/05/23	30	11.6	123.37	6.98	-67.4	2.84	0.19	5.98	22.36
	12/22/23	30.1	8.83	90.38	6.71	-51.3	2.15	0.04	7.22	21.12
	12/31/24	74	8.8	94.73	6.41	-22.3	0.39	0.39	6.95	21.39
	12/30/25	--	--	--	--	--	--	--	7.1	21.24



Table 1 - Groundwater Analytical Results

2025 Monitoring | Barbee Mill

		Metals	Field Parameters						Depth to Water in Feet	Groundwater Elevation in Feet
		Arsenic (filtered)	Temperature	Specific Conductivity	pH	Oxidation Reduction Potential (ORP)	Turbidity	Dissolved Oxygen		
		µg/L	°C	µS/cm	-	mV	NTU	mg/L		
Barbee Mill Cleanup Level		16								
EW-6	09/09/09	360	18.61	312	6.71	-300.2	-	0.81	11.15	17.46
	12/23/09	230	14.96	322	6.35	-24.5	-	0.07	9.25	19.36
	03/18/10	1900	11.17	248	6.83	-50	-	5.05	8.62	19.99
	06/22/10	190	15.06	270	6.6	-469.8	6.08	0.2	7.97	20.64
	09/15/10	180	17.61	310					11.31	17.3
	12/27/10	170	13.16	380	8.54	24.9	-	0.21	8.12	20.49
	03/11/11	64	9.15	297	6.9	42.1	60.5	3.81	8.06	20.55
	06/14/11	390	14.2	430	6.52	-83.8	77.2	1.88	7.23	21.38
	09/29/11	500	17.5	391.4	6.61	-160.2	11.2	0.63	8.56	20.05
	12/09/11	190	13.9	388.6	6.3	-45.3	3.8	1.35	8.5	20.11
	03/06/12	200	11.72	468	6.33	10.1	1.07	0.78	8.02	20.59
	06/26/12	170	14.8	613.9	6.36	-364.3	1.14	1.08	6.74	21.87
	12/14/12	110	13.9	412.9	6.5	-47.5	1.54	0.24	7.37	21.24
	06/21/13	140	15.5	416.9	6.6	24.4	2.03	0.06	7.56	21.05
	01/14/14	81	12.8	338.9	6.35	-30.3	0.59	0.15	8.24	20.37
	06/26/14	120	16.5	456.2	6.25	63.1	4.4	0.53	7.25	21.36
	12/09/14	150	15.1	459.4	6.52	-25.8	0.35	0.19	7.81	20.8
	06/11/15	150	16.3	439.3	6.47	-66	0.66	0.4	7.93	20.68
	12/30/15	130	14	343.2	6.78	-41.5	2.05	0.21	7.19	21.42
	01/22/16	--	--	--	--	--	--	--	6.67	21.94
	06/09/16	100	15.85	300.3	6.61	-44.9	4.08	0.05	7.21	21.4
	12/29/16	110	11.4	340.5	6.58	-15.1	7.33	0.21	7.58	21.03
	12/28/17	92	13.3	316.09	6.51	-19.8	1.2	0.15	7.64	20.97
	12/27/18	91	11.7	290	6.43	-4	3	0.1	7.75	20.86
	12/30/19	69	13.2	267	6.28	119	9	0.3	7.52	21.09
	03/19/21	56	11.8	323.2	6.63	-36.1	33.1	0.14	7.62	20.99
	01/06/22	65	10.3	312.8	6.47	-21	6.89	0.3	4.77	23.84
	01/05/23	38	11.73	191.77	6.78	-70.2	4.29	0.36	6.28	22.33
	12/22/23	56.5	8.47	156.47	6.49	9.6	2.64	0.25	7.48	21.13
	12/31/24	93	9.02	131.26	6.4	-1.9	0.31	0.07	7.23	21.38
	12/30/25	--	--	--	--	--	--	--	7.37	21.24
EW-7	09/09/09	300	17.88	354	6.87	-308.7	--	1.05	9.61	19.05
	12/23/09	350	14.82	431	6.37	-45.6	--	0.1	9.32	19.34
	03/18/10	260	11.68	352	6.91	-61.1	--	2.45	8.65	20.01
	06/22/10	200	13.89	323	6.32	-357.9	2.43	0.26	7.64	21.02
	09/15/10	830	16.86	401	6.41	7.6	--	0.2	9.63	19.03
	12/27/10	240	13.94	447	8.42	16	--	0.14	8.19	20.47
	03/11/11	130	10.4	420	6.97	33.3	22	0.59	8.07	20.59
	06/14/11	410	13.5	450.1	6.63	-99.4	13.3	1.95	7.3	21.36
	09/29/11	320	17.2	475.9	6.44	-156.9	1.15	0.82	8.65	20.01
	12/09/11	180	13.9	503.1	6.37	-65.4	1.75	1.4	8.61	20.05
	03/06/12	81	11.42	508	6.47	16.3	0.52	1.71	8.13	20.53
	06/26/12	150	14.8	692	6.48	-360.1	0.59	1	6.81	21.85
	12/14/12	36	13.6	476.4	6.84	-43.1	1.02	0.85	7.46	21.2
	06/21/13	100	15.7	499.5	6.74	35.8	2.23	0.12	7.63	21.03
	01/14/14	41	12.7	368.1	6.63	-29.4	0.55	0.97	8.32	20.34
	06/26/14	150	15.5	473.1	6.27	68.5	5.24	0.68	7.34	21.32
	12/09/14	76	15.1	470.4	6.64	-4.4	0.33	0.3	7.92	20.74
	06/11/15	170	16.6	462.4	6.51	-72.4	4.18	0.44	8.01	20.65
	12/30/15	35	14	381.5	7.04	-30	4.64	0.73	7.28	21.38
	01/22/16	--	--	--	--	--	--	--	6.74	21.92
	06/09/16	43	15.51	407.1	6.69	-30.7	3.8	0.07	7.25	21.41
	12/29/16	31	13.7	355.8	6.82	-18.2	7.12	0.42	7.68	20.98
	12/28/17	16	13.1	299.4	6.79	3.9	1.52	1.44	7.72	20.94
	12/27/18	22	11.3	330	6.78	-1.5	2.5	0.24	7.79	20.87
	12/30/19	26	11.2	281	6.52	12.5	16	0.25	7.59	21.07
	03/19/21	4.7	11.5	335.4	6.87	32.8	0	0.29	7.71	20.95
	01/06/22	8.1	12.2	414.4	6.98	-19.5	1.99	3.97	4.86	23.8
	01/05/23	8.4	11.94	311.22	7.24	-7.6	1.28	2.78	6.3	22.36
	12/22/23	9.63	12.17	169.93	7.1	-23.3	2.93	0.32	7.59	21.07
	12/31/24	8	7.33	147.48	6.93	9.9	2.11	0.29	7.28	21.38
	12/30/25	--	--	--	--	--	--	--	7.42	21.24



Table 1 - Groundwater Analytical Results

2025 Monitoring | Barbee Mill

		Metals	Field Parameters							Depth to Water in Feet	Groundwater Elevation in Feet
		Arsenic (filtered)	Temperature	Specific Conductivity	pH	Oxidation Reduction Potential (ORP)	Turbidity	Dissolved Oxygen			
		µg/L	°C	µS/cm	-	mV	NTU	mg/L			
Barbee Mill Cleanup Level		16									
EW-8	06/03/09	560	--	--	--	--	--	--	--	--	
	09/09/09	750	16.46	350	7.58	-106.4	--	9.25	10.11	18.77	
	12/23/09	610	13.86	384	6.52	-70.3	--	0.2	10.36	18.52	
	03/18/10	--	11.28	317	6.97	-35.1	--	9.22	9.37	19.51	
	06/22/10	360	15.06	318	6.59	-300.2	2.14	0.23	8.49	20.39	
	09/15/10	290	17.73	339	6.49	-32.4	--	1.6	9.93 3	18.95	
	12/27/10	810	11.08	397	8.9	7.7	--	2.33	9.16	19.72	
	03/11/11	670	10.18	454	7.16	-6.8	6.4	3.19	8.95	19.93	
	06/14/11	460	14.3	417.3	6.56	-76.1	12.1	1.77	8.24	20.64	
	09/29/11	490	16.2	433.8	6.54	-165.2	0.67	0.77	9.54	19.34	
	12/09/11	530	13.4	439.6	6.38	-84.6	2.37	1.33	9.74	19.14	
	03/06/12	510	11.89	532	6.38	-21.5	1.15	1.62	9.28	19.6	
	06/26/12	370	14.3	632	6.38	-337.9	1.03	1	8	20.88	
	12/14/12	470	13.6	451.3	6.43	-65.9	0.93	0.26	8.84	20.04	
	06/21/13	380	14.9	419	6.54	-69.1	2.19	0.04	8.59	20.29	
	01/14/14	540	12.8	338.9	6.35	-30.3	0.59	0.15	9.55	19.33	
	06/26/14	390	15.3	477.4	6.28	60.3	8.72	0.38	8.35	20.53	
	12/09/14	550	15	470.9	6.65	17.6	--	0.3	9.12	19.76	
	06/11/15	440	16.2	498.7	6.52	-71.8	2.19	0.4	8.99	19.89	
	12/30/15	550	14	408.9	6.74	-41.1	2.93	0.19	8.97	19.91	
	06/09/16	420	16.16	448.7	6.56	-61.8	14.9	0.04	8.51	20.37	
	12/29/16	450	13.5	392.8	6.5	-24.6	3.18	0.1	9.17	19.71	
	12/28/17	390	13.2	343	6.57	-26.2	2.07	0.08	9.28	19.6	
	12/27/18	390	13.6	391	6.55	-45	2.7	0.1	9.38	19.5	
	12/31/19	390	13.5	397	6.32	128	7	0.3	9.28	19.6	
	03/19/21	380	12	343.5	6.58	-60.1	28.4	0.15	9.03	19.85	
	01/07/22	350	11.6	266.9	6.41	-15	10.7	0.3	7.45	21.43	
	01/05/23	240	13.7	214.41	6.82	-67.5	1.37	0.14	8.31	20.57	
	12/22/23	248	8.64	180.34	6.53	3.6	2.76	0.09	9.26	19.62	
	12/31/24	260	8.9	146.88	6.41	5.4	0.19	0.05	9.08	19.8	
	12/30/25	370	11.1	341.7	6.14	-16.5	9.61	0.22	9.09	19.79	

Notes

Arsenic cleanup level is based on site-specific natural background concentration in groundwater, as presented in the DCAP.

Bold = data collected during this reporting period

Highlighted cells indicate exceedance of cleanup level

U = not detected at indicated reporting limit

Blue italics indicates baseline sample data from a location closest to current sample location, as follows:

existing location	baseline location
CMW-1	AZ-16
CMW-2S	AZ-3
CMW-2D	AZ-18
CMW-3	RMW-01
CMW-4S	AZ-5
CMW-4D	HCMW-01D
CMW-5	AZ-11
CMW-6	AZ-9
WP-1A	WP-1B
PW-CMW-2	PW-M
PW-CMW-3	PW-N
PW-CMW-4	PW-WP1B

Table 2 - Arsenic Monitoring Summary

2025 Monitoring | Barbee Mill

Well	Location	Arsenic Concentration December 2025 (ug/L)	Arsenic Trend Since Pump & Treat Shutdown (8/2011)
<i>Wells evaluating effectiveness of capturing arsenic in groundwater</i>			
CMW-1	South end of PAZ	68	Increasing since pump & treat shut down but no significant trend since 2018.
CMW-6	East end of PAZ	120	Decreasing.
<i>Wells evaluating effectiveness of treating arsenic in groundwater</i>			
CMW-2S	West of PAZ, shallow	--	Below background level since PAZ installed.
CMW-3	West of PAZ shallow	--	Below background level since PAZ installed.
CMW-4S	North of PAZ, shallow	41	Decreasing. Declined 99% since PAZ installed but still above background level. May be elevated due to As desorbing from soil downgradient of PAZ.
CMW-5	North of PAZ, shallow	--	Below background level since PAZ installed.
CMW-2D	West of PAZ, deep	230	Increasing since pump & treat shut down but some fluctuation since 2021.
CMW-4D	North of PAZ, deep	190	Decreasing since pump & treat shut down. Seasonal variation.
<i>Wells evaluating attenuation of arsenic downgradient of PAZ</i>			
BH-29A	Monitoring well 180 ft downgradient (north) of PAZ, shallow	--	Decreasing.
BH-31B	Monitoring well 200 ft downgradient (northeast) of PAZ, deep	--	Installed in 2021. Overall no trend.
WP-1A	Sediment well point 50 ft downgradient (north) of PAZ, 2 ft below mudline	--	Below background level. Declined 98% since PAZ installed. Seasonal variation.
WP-8	Sediment well point 150 ft downgradient (north) of PAZ, 2 ft below mudline	--	Decreasing trend. Declined 81% since May 2009.
<i>Wells evaluating long-term trends upgradient of PAZ</i>			
EW-1	Upgradient of PAZ	--	Overall no trend.
EW-2	Upgradient of PAZ	180	Increasing since pump & treat shut down, with relative stability from 2014 to 2025, with increase to 330 ug/l in 2024.
EW-3	Upgradient of PAZ	--	Overall no trend.
EW-4	Upgradient of PAZ	--	Variable. Decreased below background level in 2023.
EW-5	Upgradient of PAZ	--	Decreasing.
EW-6	Upgradient of PAZ	--	Decreasing.
EW-7	Upgradient of PAZ	--	Decreasing, below background level since 2021.
EW-8	Upgradient of PAZ	370	Decreasing.

Notes

The site-specific natural background concentration is 16 ug/L

MW - monitoring well

PAZ - passive attenuation zone

Arsenic trends evaluated using Mann-Kendall test.

Table 3 - Groundwater Monitoring Schedule

2025 Monitoring | Barbee Mill

Well	Year									
	2025	2026	2027	2028	2029	2030	2032	2034	2036	2046
Shoreline Wells										
CMW-1	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As
CMW-2S	WL	A -As	WL	A -As	WL	A -As	WL	A -As	WL	WL
CMW-2D	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As
CMW-3	WL	A -As	WL	A -As	WL	A -As	WL	A -As	WL	WL
CMW-7	--	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As	WL
Inland Wells										
BH-29A	WL	A -As	WL	A -As	WL	A -As	WL	A -As	WL	WL
BH-31B	WL	A -As	WL	A -As	WL	A -As	WL	A -As	WL	WL
CMW-4S	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As
CMW-4D	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As
CMW-5	WL	A -As	WL	A -As	WL	A -As	WL	A -As	WL	WL
CMW-6	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As
EW-1	WL	A -As ¹	WL	WL	WL	WL	WL	WL	WL	WL
EW-2	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As	WL
EW-3	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL
EW-4	WL	A -As	WL	A -As	WL	A -As	WL	A -As	WL	WL
EW-5	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL
EW-6	WL	A -As	WL	A -As	WL	A -As	WL	A -As	WL	WL
EW-7	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL
EW-8	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As	A -As
PZ-1	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL
PZ-2	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL

Notes

1) EW-1 exhibited an anomalous increase in 2024 but does not exhibit a statistically significant trend. This well was not monitored in 2025 but will be added to the 2026 monitoring event.

In the DCAP, CMW -7 is proposed to be installed on the Quendall Property to provide a shoreline monitoring point of shallow groundwater between existing wells BH-29A and CMW-4S.

WL Monitored for water levels only

A Annual

Annual monitoring will be performed in December.

Field parameters (temperature, conductivity, pH, dissolved oxygen, ORP) and water levels collected during each monitoring event.

The monitoring program may be reevaluated, based on the collected data, in annual monitoring reports.

As Analysis for Dissolved Arsenic (field filtered) by EPA Method 6020.

FIGURES



Legend

Quendall Site Monitoring Well

- Shallow Monitoring Well
- Deep Monitoring Well

Shallow Alluvium Wells

- Wellpoint
- Extraction Well
- PAZ Performance Monitoring Well
- Peizometer

Remediation System Utility

Arsenic-Contaminated Soil Excavation Area

Passive Attenuation Zone

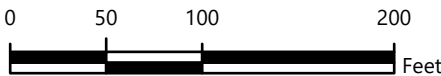
Barbee Property Line

Quendall Property Line

King County Parcels

Note:

Barbee Property refers to the former Barbee Mill Property, which now includes multiple tax parcels owned by individual homeowners and street rights-of-way.
The Quendall Property refers to the former Quendall Terminals Property, which is now owned by Lake Washington East LLC and includes five current tax parcels, portions of three of which are shown.



Site Layout

Barbee Mill Site
Performance Monitoring Report
Renton, Washington



Feb-2026

PROJECT NO.
25011

BY:
DC / PM

REVISED BY:
DC

FIGURE NO.

1



Legend

Quendall Site Monitoring Well

- Shallow Monitoring Well
- Deep Monitoring Well

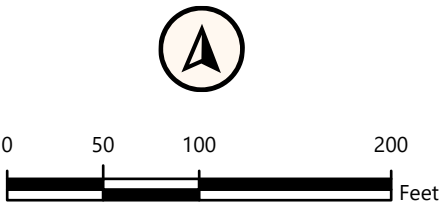
Shallow Alluvium Wells

- Wellpoint
- Extraction Well
- PAZ Performance Monitoring Well
- Peizometer

- Shallow Groundwater Contour
- Remediation System Utility
- Arsenic-Contaminated Soil Excavation Area
- Passive Attenuation Zone
- Barbee Property Line
- Quendall Property Line
- King County Parcels

EW-2 ← Sample ID
180 ← Arsenic Concentration
19.8 ft ← Groundwater Elevation

Note:
Red indicates dissolved arsenic concentration in exceedance of the 16 ug/L screening level.



Summary of Shallow Arsenic Monitoring Data - December 2025

Barbee Mill Site
Performance Monitoring Report
Renton, Washington



Feb-2026
PROJECT NO.
25011

BY:
DC / PM
REVISED BY:
DC

FIGURE NO.
2



Legend

Quendall Site Monitoring Well

- Shallow Monitoring Well
- Deep Monitoring Well

Shallow Alluvium Wells

- Wellpoint
- Extraction Well
- PAZ Performance Monitoring Well
- Peizometer

Remediation System Utility

Arsenic-Contaminated Soil Excavation Area

Passive Attenuation Zone

Barbee Property Line

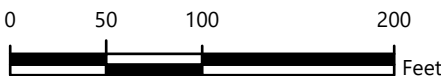
Quendall Property Line

King County Parcels

EW-2 ← Sample ID
180 ← Arsenic Concentration
19.8 ft ← Groundwater Elevation

Note:

Red indicates dissolved arsenic concentration in exceedance of the 16 ug/L screening level.



**Summary of Deep Arsenic
Monitoring Data - December 2025**

Barbee Mill Site
Performance Monitoring Report
Renton, Washington



Feb-2026

PROJECT NO.
25011

BY:
DC / PM

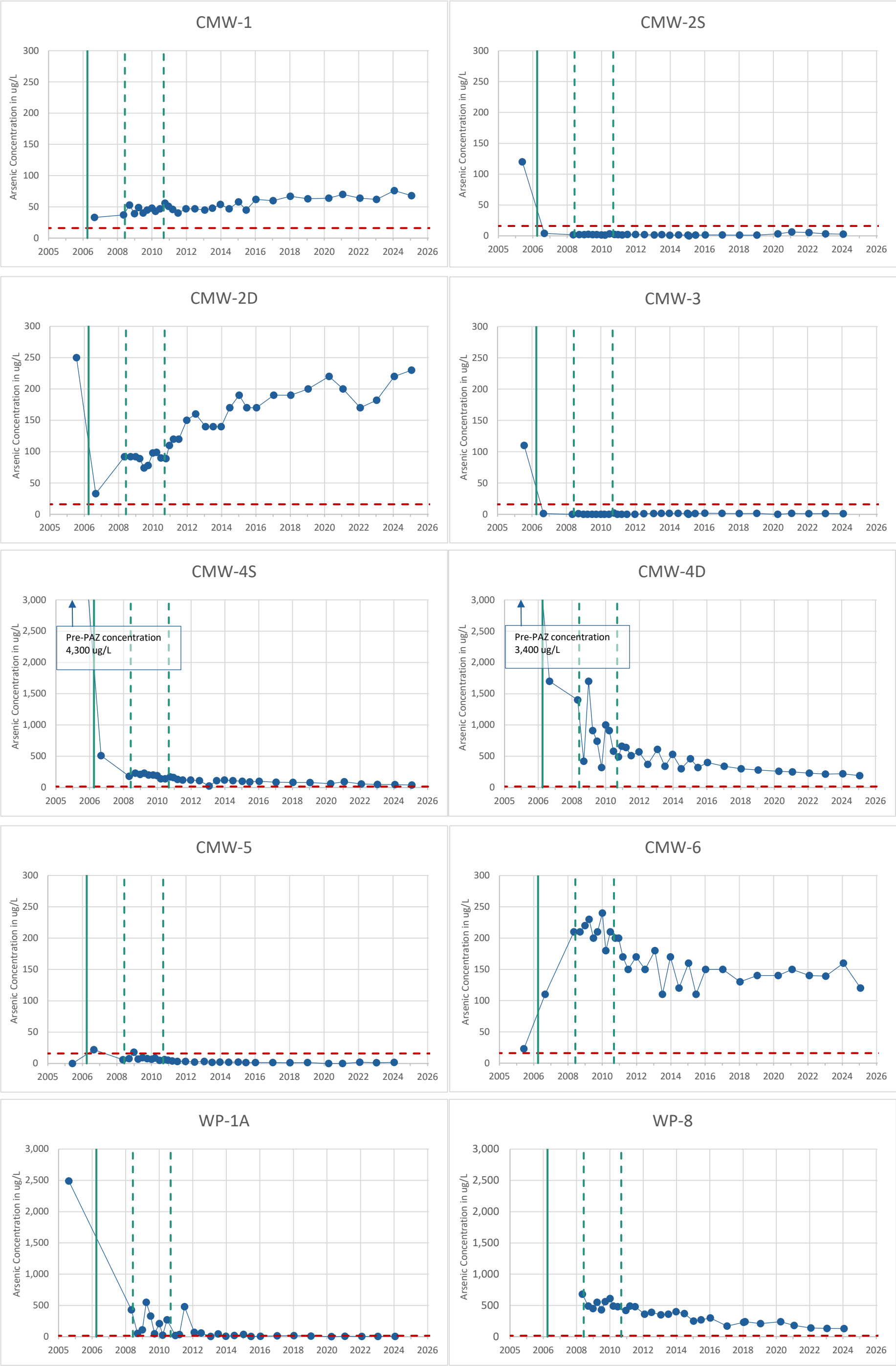
REVISED BY:
DC

FIGURE NO.

3

Figure 4 - Trends in Arsenic Concentrations in Groundwater Monitoring Wells

Performance Monitoring Report | Barbee Mill



Notes:

Red dashed line represents Site-specific natural background for dissolved arsenic (16ug/L).
Solid green line represents PAZ installation, and dashed green lines represent startup and shutdown of groundwater pump and treat system.



Figure 5 - Trends in Arsenic Concentrations in Groundwater Extractions Wells

Performance Monitoring Report | Barbee Mill



Notes:

Red dashed line represents Site-specific natural background for dissolved arsenic (16ug/L).

Solid green line represents PAZ installation, and dashed green lines represent startup and shutdown of groundwater pump and treat system.



APPENDIX A

LABORATORY CERTIFICATES OF ANALYSIS

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Elizabeth Webber-Bruya
Ann Webber-Bruya
Michael Erdahl
Vineta Mills
Eric Young

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

January 6, 2025

Andrew Yonkofski, Project Manager
Black River Environmental
26311 NE Valley St #141
Duvall, WA 98019

Dear Mr Yonkofski:

Included are the results from the testing of material submitted on December 30, 2025 from the Barbee Mill 25011, F&BI 512499 project. There are 11 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
BRV0106R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 30, 2025 by Friedman & Bruya, Inc. from the Black River Environmental Barbee Mill 25011, F&BI 512499 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Black River Environmental</u>
512499 -01	EW-2-251230
512499 -02	EW-8-251230
512499 -03	CMW-2D-251230
512499 -04	CMW-4D-251230
512499 -05	CMW-4S-251230
512499 -06	CMW-6-251230
512499 -07	CMW-1-251230

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client Sample ID:	EW-2-251230	Client:	Black River Environmental
Date Received:	12/30/25	Project:	Barbee Mill 25011
Date Extracted:	12/31/25	Lab ID:	512499-01 x10
Date Analyzed:	01/02/26	Data File:	512499-01 x10.187
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	180
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client Sample ID:	EW-8-251230	Client:	Black River Environmental
Date Received:	12/30/25	Project:	Barbee Mill 25011
Date Extracted:	12/31/25	Lab ID:	512499-02 x10
Date Analyzed:	01/02/26	Data File:	512499-02 x10.214
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	370
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client Sample ID:	CMW-2D-251230	Client:	Black River Environmental
Date Received:	12/30/25	Project:	Barbee Mill 25011
Date Extracted:	12/31/25	Lab ID:	512499-03 x10
Date Analyzed:	01/02/26	Data File:	512499-03 x10.215
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	230
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client Sample ID:	CMW-4D-251230	Client:	Black River Environmental
Date Received:	12/30/25	Project:	Barbee Mill 25011
Date Extracted:	12/31/25	Lab ID:	512499-04
Date Analyzed:	12/31/25	Data File:	512499-04.225
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	190
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client Sample ID:	CMW-4S-251230	Client:	Black River Environmental
Date Received:	12/30/25	Project:	Barbee Mill 25011
Date Extracted:	12/31/25	Lab ID:	512499-05
Date Analyzed:	12/31/25	Data File:	512499-05.270
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	41
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client Sample ID:	CMW-6-251230	Client:	Black River Environmental
Date Received:	12/30/25	Project:	Barbee Mill 25011
Date Extracted:	12/31/25	Lab ID:	512499-06
Date Analyzed:	12/31/25	Data File:	512499-06.285
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	120
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client Sample ID:	CMW-1-251230	Client:	Black River Environmental
Date Received:	12/30/25	Project:	Barbee Mill 25011
Date Extracted:	12/31/25	Lab ID:	512499-07
Date Analyzed:	12/31/25	Data File:	512499-07.286
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	68
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client Sample ID:	Method Blank	Client:	Black River Environmental
Date Received:	Not Applicable	Project:	Barbee Mill 25011
Date Extracted:	12/31/25	Lab ID:	I5-1189 mb
Date Analyzed:	12/31/25	Data File:	I5-1189 mb.160
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	<1
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/06/26

Date Received: 12/30/25

Project: Barbee Mill 25011, F&BI 512499

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 512499-01 x10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	183	46 b	136 b	75-125	99 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	88	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported between the method detection limit and the lowest calibration point. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

518499

SAMPLE CHAIN OF CUSTODY

12/30/25 L3

Report To A. VonkoffskiCompany Black River Environmental

Address _____

City, State, ZIP _____

Phone 404-313-3188 Email andrew@blackriverenv.comPage # 1 of 1

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Archive samples☐ OtherDefault: Dispose after 30 days

SAMPLERS (signature)

PROJECT NAME

Barbee Mill

PO

25011

REMARKS

INVOICE TO

ARProject specific RLS? - Yes / No

ANALYSES REQUESTED

NWTPH-Dx
NWTPH-Gx
BTEX EPA 8021
NWTPH-HCID
VOCs EPA 8260
PAHs EPA 8270
PCBs EPA 8082
<u>Dissolved A</u>
<u>EPA 6010</u>

Notes

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	EPA 6010	Notes
EW-2-251230	01	12/30/25	0828	Grw	1									<u>All samples</u>
EW-8-251230	02		0850	Grw	1									<u>Field filtered w/ 0.45 um filter</u>
CMW-2D-251230	03		1005	Grw	1									
CMW-4D-251230	04		1043	Grw	1									
CMW-4S-251230	05		1131	Grw	1									
CMW-6-251230	06		1205	Grw	1									
CMW-1-251230	07		1242	Grw	1									

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: [Signature]Received by: [Signature]Andrew VonkoffskiBlack River12/30/2514:19

Relinquished by:

John PhelanFB I12/30/2514:19

Received by:

John PhelanSamples received at4:00

Friedman & Bruya, Inc.
5500 4th Ave S.
Seattle WA 98108
(206) 285-8282
office@friedmanandbruya.com

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 512499 CLIENT Black River INITIALS/ AP
DATE: 12/30/25

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature

4 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?

☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO

*or other representative documents, letters, and/or shipping memos

Initials/ AP
Date: 12/30/25

Number of days samples have been sitting prior to receipt at laboratory 0 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes ☐ No		☐ Not on COC/label
Date Sampled	☒ Yes ☐ No		☐ Not on COC/label
Time Sampled	☒ Yes ☐ No		☐ Not on COC/label
# of Containers	☒ Yes ☐ No		
Relinquished	☒ Yes ☐ No		
Requested analysis	☒ Yes ☐ On Hold		

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters** _____ Number of unused TO17 tubes _____

**Fill out Green manifolds billing sheet



Black River Environmental, LLC

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Duvall, Washington

425-725-3832

www.blackriverenvironmental.com