



REGION 10
SEATTLE, WA 98101

October 6, 2025

TECHNICAL MEMORANDUM

SUBJECT: Porewater Sampling Results
McCormick & Baxter Superfund Site
Portland, OR

FROM: Kathleen Emory, Environmental Engineer

TO: Anne Christopher, RPM

Introduction

The McCormick & Baxter Superfund Site is a former wood treating facility, which operated from 1944 – 1991. It is located on the east bank of the Willamette River in Portland, Oregon. Although located within the Portland Harbor Superfund Site, McCormick & Baxter Superfund Site is a separate Superfund site. The remedy selected in the Record of Decision (ROD) includes a subsurface barrier wall, soil cap and sediment cap. The sediment cap is of particular interest for this technical memo and was designed to eliminate risks to human health and the environment, such as direct contact with contaminated sediment by fish and crayfish. The September 2021 Five-Year Review stated that there was a buckling issue with the articulated concrete block (ACB) that armors the sediment cap in Willamette Cove. The sediment cap area is divided into twelve grid cells called compliance monitoring areas that determine where porewater samples are collected: one sample per compliance monitoring area. Figure 1 depicts the 12 grid cells and the corresponding porewater sample for the 2021 Five Year Review.

EPA collected porewater and surface water samples in February 2025. In addition to analyzing for contaminants of concern (COCs), EPA recorded water quality parameters (pH, dissolved organic carbon (DOC), temperature) and analyzed for calcium, magnesium, sodium, sulfate, potassium, chloride, and alkalinity because they were needed for the Biotic Ligand Model to determine the bioavailability of copper. EPA's aquatic life freshwater quality criteria for copper is based on the Biotic Ligand Model. The Biotic Ligand Model predicts the bioavailability of metals in receiving waters for various water chemistry conditions (<https://www.windwardenv.com/>). This was calculated for one surface water sample.

Objective

This porewater sampling event will conclude whether the sediment cap is still functioning as designed despite the buckling of the ACB in Willamette Cove through evaluating COC concentrations in porewater. Data collected in this event will be compared to existing data to examine remedy protectiveness and better understand current conditions.

Sampling Activities

In February 2025, the sampling team collected porewater samples from the sediment cap and surface water samples from the Willamette River. Ten porewater samples were collected from locations where buckling of the ACB was observed and an additional porewater sample from each grid cell was collected along the rest of the shoreline. Two collocated surface water samples were also collected during this sampling effort. The exact sample locations are shown in Figure 2. Samples were collected during low tide to the extent possible in order to ensure that porewater was representative of groundwater and not surface water. Table 1 contains the timing of high and low tide during the sampling event. The push point piezometer was driven into the cap through gaps in the ACB, through the gravel layer, Geotextile membrane, armoring rock, and into the sand layer for sub-armor porewater sample collection. A YSI ProDSS measured water quality parameters of the porewater and surface water at each sample location to help determine that the porewater was groundwater and not surface water. For example groundwater typically has lower conductivity, dissolved oxygen, and oxidation reduction potential than surface water. Surface water samples were collected at the top of the water column. Water quality parameter results are presented in Table 2.

Results

Table 3 contains the data that is discussed in the following subsections.

Metals

Arsenic, copper and chromium were not detected in any sample (porewater or surface water). Zinc was detected at a maximum concentration of 12 µg/L, less than the 1996 ambient water quality criteria (AWQC) of 110 µg/L and the current aquatic life AWQC of 36 µg/L. The Biotic Ligand Model calculated current copper AWQC is 7.6 µg/L and was consistent across model runs that used Site-specific and recommended regional water parameters. The Site-specific model run used data from the surface water location MB-SW-12.

PAHs

Acenaphthene, fluoranthene, and naphthalene were detected in both surface water and porewater at concentrations less than their respective 1996 AWQC and current AWQC. Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) were calculated as a benzo(a)pyrene-equivalent concentration using the EPA potency equivalency fractions. The carcinogenic PAHs are benzo(a)anthracene, benzo(a)pyrene, benzo(g,h,i)perylene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, and indeno(1,2,3-cd)pyrene results. Non-detects were treated as zeros. cPAHs were detected in three samples at two sampling locations (surface water at location 1 and porewater at location 16) with concentrations of 0.03 µg/L, not exceeding the 1996 or current AWQC.

PCP

Pentachlorophenol was not detected.

Conclusions

Water Quality Parameters

Surface and porewater water quality parameters were compared at collocated sample locations. Surface water typically has a positive oxidation-reduction potential (ORP), while within Willamette Cove ORP in porewater tended to be negative in this sampling event. At sample location 8 the surface water ORP was negative. This may indicate that sample location 8 is a groundwater seep. The potential for the buckling to cause a seep at location 8 should be investigated further as recommended below. ORP measurements in surface and porewater are shown on Figure 3.

Sample location 1 was located on the edge of the ACB, which may be why water quality parameters such as ORP were similar between the surface water and porewater at that location. Another reason for these similarities is that the samples were collected close to high tide, so it is possible that the porewater sample was surface water instead of the intended groundwater. Surface water temperature exceeded that of porewater at locations 1, 11, and 13. These results are shown on Figure 4.

Sampling locations 11 through 16 are along the Willamette River (Figure 2). Porewater parameters appear more like surface water at locations 11 through 15, while the porewater sample at location 16 appears to be groundwater. Sample locations 11 through 15 are along the river where the barrier wall is present, location 16 is upgradient of the barrier wall relative to groundwater flow. Based on these results, it appears that the barrier wall is performing as designed by impeding the flow of groundwater to the river. Samples from locations 11 and 13 were collected after high tide, which may also explain the porewater exhibiting surface water quality values. Samples from locations 12, 14, and 15 were collected at low tide and therefor support the barrier wall is impeding groundwater flow to the river.

Sub-armor Porewater

A comparison of the maximum detected concentrations of acenaphthene and fluoranthene between 2010 and 2025 is presented in Table 4. Although the maximum detected concentrations increased between 2010 and 2025, all results were less than their respective 1996 or current AWQC.

Recommendations

The sediment cap is performing as designed and protective of human health and the environment. However, further investigation at sampling location 8 is needed to confirm whether there is a groundwater seep at that location. A groundwater seep, if present, should continue to be monitored for protectiveness of human health and the environment. If future investigations show that the sediment cap is not protective of human health and the environment due to a seep and/or ACB buckling, then sediment cap will need to be repaired so that it continues to be protective.

As part of the Sediment Cap Operation and Maintenance, the buckles in the sediment cap should continue to be monitored and the cap repaired as needed to ensure that it is still at design thickness and continues to be protective.

Table 1

Date	High Tide		Low Tide	
	Time	Feet NAVD	Time	Feet NAVD
2/10/2025	1459	10.04	1005	7.76
2/11/2025	1548	10.00	1116	7.71
2/12/2025	1634	9.96	1211	7.67

Table 2

Location	Latitude	Longitude	Water Type	Date	Time	DO (mg/L)	ORP (mV)	SEC mS/cm	Turbidity (NTU)	pH	Temp (C)	Notes
MB-PW-01	45.58004	-122.74446	PW	2/10/2025	1410	1.2	141.9	55	3.95	6.55	4.8	Edge of ACB, Willamette Cove Buckling Areas
MB-SW-01	45.58004	-122.74446	SW	2/10/2025	1429	12.7	82.8	57.2	5.58	7.57	6.5	Edge of ACB, Willamette Cove Buckling Areas
MB-PW-02	45.5791	-122.74536	PW	2/11/2025	1045	0	-117.3	0.228	5.92	6.73	6.4	Willamette Cove Buckling Areas
	45.5791	-122.74536	SW	2/11/2025	930	12.9	280	0.091	15.5	7.04	4.6	Willamette Cove Buckling Areas
MB-PW-03	45.47902	-122.74548	PW	2/11/2025	1022	0	-104.9	0.381	2.64	6.7	7.4	Willamette Cove Buckling Areas
	45.47902	-122.74548	SW	2/11/2025	1030	13.5	106.1	0.091	5.3	7.17	4.4	Willamette Cove Buckling Areas
MB-PW-04	45.57898	-122.74547	PW	2/11/2025	1114	1.6	-87.2	0.127	3.4	7.07	5.2	Willamette Cove Buckling Areas
	45.57898	-122.74547	SW	2/11/2025	1144	13	137.8	0.071	5.05	7.23	4.5	Willamette Cove Buckling Areas
MB-PW-05	45.57992	-122.7447	PW	2/11/2025	1211	0	-136.9	0.788	3.83	6.91	5.7	Willamette Cove Buckling Areas
	45.57992	-122.7447	SW	2/11/2025	1140	13.1	36.8	0.095	6.2	7.27	5.1	Willamette Cove Buckling Areas
MB-PW-06	45.57962	-122.74487	PW	2/11/2025	1306	0	-116.4	0.506	1.5	6.95	7.7	Willamette Cove Buckling Areas
	45.57962	-122.74487	SW	2/11/2025	1248	13.5	51	0.107	5.5	7.5	6.7	Willamette Cove Buckling Areas

Location	Latitude	Longitude	Water Type	Date	Time	DO (mg/L)	ORP (mV)	SEC mS/cm	Turbidity (NTU)	pH	Temp (C)	Notes
MB-PW-07	45.57958	-122.74492	PW	2/11/2025	1259	0	-127.1	0.622	1.1	6.85	7.8	Willamette Cove Buckling Areas
	45.57958	-122.74492	SW	2/11/2025	1252	13.4	40.1	0.131	5.75	7.19	6.2	Willamette Cove Buckling Areas
MB-PW-08	45.57949	-122.74499	PW	2/12/2025	1425	0	-83.1	0.52	1.18	6.77	9.1	Willamette Cove Buckling Areas, potential seep
	45.57949	-122.74499	SW	2/12/2025	1422	11.7	-30	0.173	4.85	7.36	6.3	Willamette Cove Buckling Areas , potential seep
MB-PW-09	45.57941	-122.74506	PW	2/12/2025	1359	0	-89.2	0.394	3.75	6.73	7.9	Willamette Cove Buckling Areas
	45.57941	-122.74506	SW	2/12/2025	1342	13.2	99.4	0.104	33.24	7.12	6.4	Willamette Cove Buckling Areas
MB-PW-10	45.57935	-122.74516	PW	2/12/2025	1348	0	-97.3	0.4	1.06	6.64	8.4	Willamette Cove Buckling Areas
	45.57935	-122.74516	SW	2/12/2025	1329	13.5	125.7	0.103	4.71	7.14	6	Willamette Cove Buckling Areas
MB-PW-11	45.57836	-122.74519	PW	2/10/2025	1558	12.8	138.7	0.088	87.63	6.97	5.3	Willamette side
	45.57836	-122.74519	SW	2/10/2025	1622	13.1	120.9	.089	8.63	7.46	5.5	Willamette side
MB-PW-12	45.57813	-122.74476	PW	2/11/2025	851	5	263.1	0.096	5.92	6.91	5.3	Willamette side
MB-SW-12	45.57813	-122.74476	SW	2/11/2025	913	12.9	175.3	0.094	8.25	7.34	4.1	Willamette side
MB-PW-13	45.5778	-122.74327	PW	2/10/2025	1618	12.9	206.6	0.103	11.79	6.96	5.3	Willamette side
	45.5778	-122.74327	SW	2/10/2025	1627	13.1	198.6	0.093	9.7	7.2	6	Willamette side
MB-PW-14	45.57771	-122.74184	PW	2/12/2025	933	11.2	264.5	0.089	8.14	6.62	4.1	Willamette side

Location	Latitude	Longitude	Water Type	Date	Time	DO (mg/L)	ORP (mV)	SEC mS/cm	Turbidity (NTU)	pH	Temp (C)	Notes
	45.57771	-122.74184	SW	2/12/2025	905	Nd	287.2	0.094	13.44	7.24	2.9	Willamette side
MB-PW-15	45.57738	-122.74087	PW	2/11/2025	1019	10.3	271	0.093	7.08	6.61	5.8	Willamette side
	45.57738	-122.74087	SW	2/11/2025	1033	13.2	237.7	0.097	6	7.05	5.2	Willamette side
MB-PW-16	45.57656	-122.73927	PW	2/12/2025	1126	0	-23.4	0.215	12	6.03	8.4	Willamette side
	45.57656	-122.73927	SW	2/12/2025	1105	13.1	141.5	0.107	11.6	6.67	6.6	Willamette side

Table 3

Sample #	Location	Filtered	PCP (µg/L)	cPAH (µg/L)	Arsenic (µg/L)	Chromium III (µg/L)	Copper (µg/L)	Zinc (µg/L)	Acenaphthene (µg/L)	Fluoranthene (µg/L)	Naphthalene (µg/L)
1996 AWQCs			13 ^A	0.031 ^H	190	210	12	110	520	54	620
Current AWQCs			0.3 ^H		150 ^A 2100 ^H	24 ^A	7.6	36 ^A 2,600,000 ^H	520 ^A 99 ^H	14 ^H	
Detection Limits			0.1	0.0189	25	5	5	5	0.025	0.025	0.025
25074000	MB-PW-01	N	ND	ND					0.026	0.026	0.026
25074001	MB-PW-01	Y			ND	ND	ND	ND			
25074002	MB-PW-01	N	ND	ND	ND	ND	ND	ND	76	0.39	0.027
25074003	MB-PW-02	Y			ND	ND	ND	ND			
25074004	MB-PW-03	N	ND	ND	ND	ND	ND	ND	39	0.026	0.026
25074005	MB-PW-03	Y			ND	ND	ND	6.6			
25074006	MB-PW-04	N	ND	ND	ND	ND	ND	ND	9.1	0.023	0.025
25074007	MB-PW-04	Y			ND	ND	ND	ND			
25074008	MB-PW-05	N	ND	ND	ND	ND	ND	8.8	ND	ND	ND
25074009	MB-PW-05	Y			ND	ND	ND	7.5			
25074010	MB-PW-06	N	ND	ND	ND	ND	ND	ND	0.058	ND	ND
25074011	MB-PW-06	Y			ND	ND	ND	5.3			
25074012	MB-PW-07	N	ND	ND	ND	ND	ND	ND	ND	ND	ND
25074013	MB-PW-07	Y			ND	ND	ND	5.2			
25074014	MB-PW-08	N	ND	ND	ND	ND	ND	ND	0.026	0.026	0.026
25074015	MB-PW-08	Y			ND	ND	ND	ND			
25074016	MB-PW-09	N	ND	ND	ND	ND	ND	ND	0.035	0.027	0.027
25074017	MB-PW-09	Y			ND	ND	ND	6.2			
25074018	MB-PW-10	N	ND	ND	ND	ND	ND	6.1	ND	0.026	0.026
25074019	MB-PW-10	Y			ND	ND	ND	6			
25074020	MB-PW-11	N	ND	ND					0.026	0.026	0.026
25074021	MB-PW-11	Y			ND	ND	ND	ND			
25074022	MB-PW-12	N	ND	ND	ND	ND	ND	9.1	0.028	0.028	0.028
25074023	MB-PW-12	Y			ND	ND	ND	5.4			

Sample #	Location	Filtered	PCP (µg/L)	cPAH (µg/L)	Arsenic (µg/L)	Chromium III (µg/L)	Copper (µg/L)	Zinc (µg/L)	Acenaphthene (µg/L)	Fluoranthene (µg/L)	Naphthalene (µg/L)
1996 AWQCs			13 ^A	0.031 ^H	190	210	12	110	520	54	620
Current AWQCs			0.3 ^H		150 ^A 2100 ^H	24 ^A	7.6	36 ^A 2,600,000 ^H	520 ^A 99 ^H	14 ^H	
Detection Limits			0.1	0.0189	25	5	5	5	0.025	0.025	0.025
25074024	MB-PW-13	N	ND	ND					ND	ND	ND
25074025	MB-PW-13	Y			ND	ND	ND	ND			
25074026	MB-PW-14	N	ND	ND	ND	ND	ND	ND	0.026	0.026	0.026
25074027	MB-PW-14	Y			ND	ND	ND	ND			
25074028	MB-PW-15	N	ND	ND	ND	ND	ND	12	ND	ND	
25074029	MB-PW-15	Y			ND	ND	ND	5.7			
25074030	MB-PW-16	N	ND	0.03	ND	ND	ND	6.9	56	0.8	0.2
25074031	MB-PW-16	Y			ND	ND	ND	ND			
25074032	MB-PW-16	N	ND	0.03	ND	ND	ND	7.1	58	0.82	0.22
25074033	MB-PW-16	Y			ND	ND	ND	5.8			
25074034	Blank PW	N	ND	ND	ND	ND	ND	ND	ND	ND	ND
25074035	Blank PW	Y			ND	ND	ND	ND			
25074036	MB-SW-01	N	ND	0.03					0.027	0.065	0.027
25074037	MB-SW-01	Y			ND	ND	ND	ND			
25074038	MB-SW-12	N	ND	ND	ND	ND	ND	ND	0.027	0.027	0.027
25074039	MB-SW-12	Y			ND	ND	ND	ND			
25074040	MB-SW-12	N	ND						0.027	0.027	0.027
25074041	MB-SW-12	Y			ND	ND	ND	ND			

A = Aquatic Life AWQC
 H = Human Health AWQC
 ND = non detect

Table 4

Contaminant	2010 Maximum Detection (µg/L)	2025 Maximum Detection (µg/L)
Arsenic	35.4	ND
Chromium	0.43	ND
Copper	2.3	ND
Zinc	15.7	12
PCP	0.32	ND
Acenaphthene	61.5	76
Fluoranthene	0.46	0.82
Naphthalene	16.1	0.22

ND = non detect

Figure 1: Compliance Monitoring Areas



Figure 2: February 2025 Porewater and Surface Water Locations



Figure 3: Oxidation Reduction Potential in Porewater and Surface Water

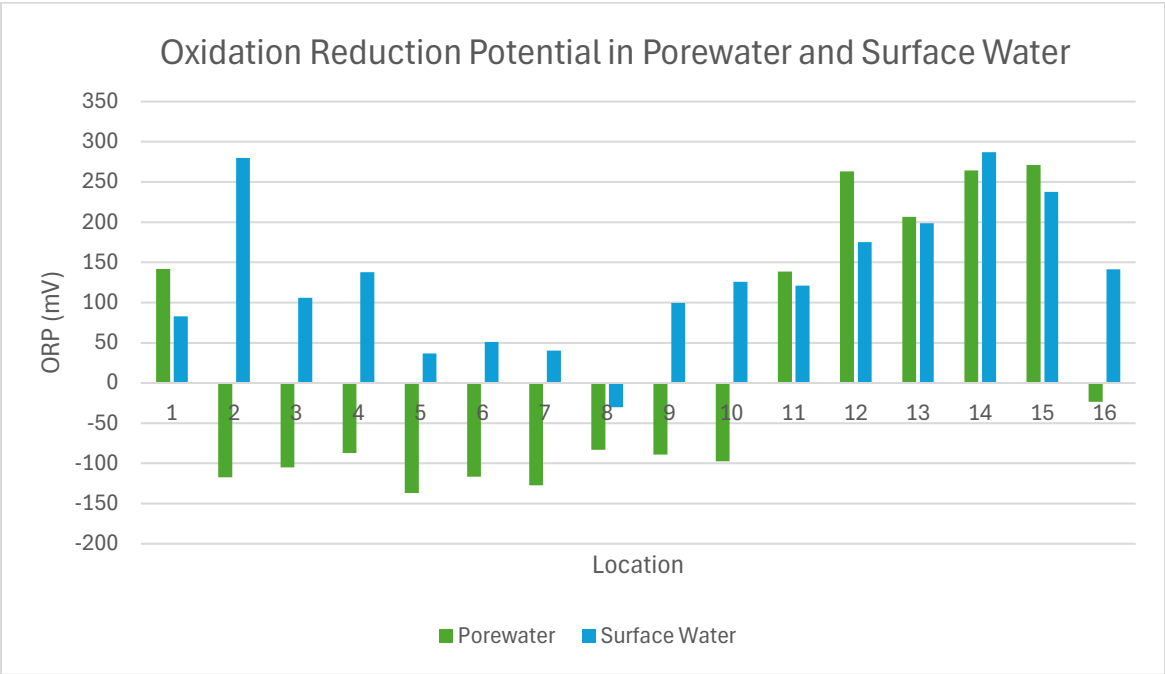
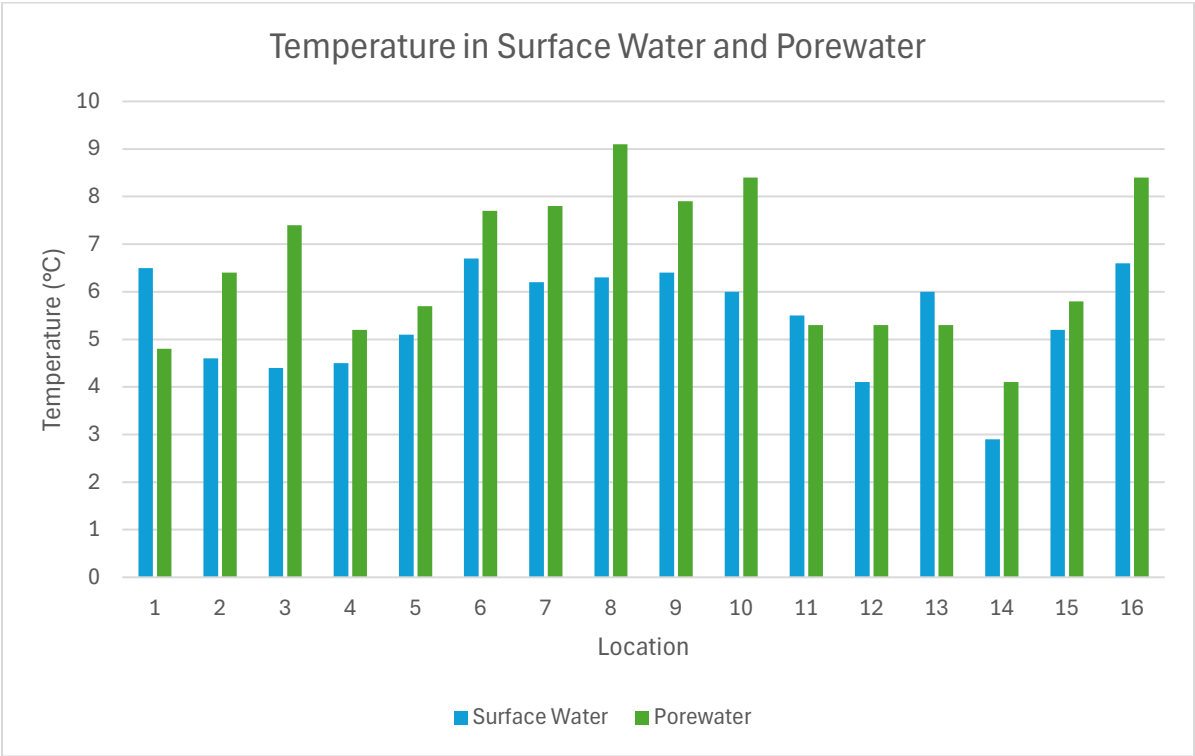


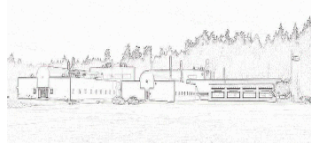
Figure 4: Temperature in Surface Water and Porewater



Attachments

1. Raw Data
 - a. Metals
 - b. Anions
 - c. PAH
 - d. TOC
 - e. Alkalinity
 - f. PCP
2. Total cPAH Calculation
3. Biotic Ligand Model Output
4. Porewater Sampling Logs
5. YSI Calibration Records
6. Sampling photos

1. Raw Data



US EPA Region 10 Laboratory

Multi-Analyte Final Report



Project Code : SFP-214A

Site : McCORMICK & BAXTER: Porewater Sampling

Contact : Anne Christopher

Account : 2025T10P000FD210P9LA00

Sample : 25074001

Information : 1

Matrix : Flt. Porewater

Collected : 2/10/2025 2:20:00PM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	8190	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	2720	ug/L		3/ 4/25	2
7440097	Potassium	1600	ug/L		3/ 4/25	2
7440235	Sodium	4220	ug/L		3/ 4/25	2
7440666	Zinc	5.0	ug/L	U	3/ 4/25	2

Sample : 25074002

Information : 2

Matrix : Porewater

Collected : 2/11/2025 9:50:00AM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	15200	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	5200	ug/L		3/ 4/25	2
7440097	Potassium	2300	ug/L		3/ 4/25	2
7440235	Sodium	11000	ug/L		3/ 4/25	2
7440666	Zinc	5.0	ug/L	U	3/ 4/25	2

Sample : 25074003

Information : 2

Matrix : Flt. Porewater

Collected : 2/11/2025 10:05:00AM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	15600	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	5340	ug/L		3/ 4/25	2
7440097	Potassium	2400	ug/L		3/ 4/25	2
7440235	Sodium	11400	ug/L		3/ 4/25	2
7440666	Zinc	5.0	ug/L	U	3/ 4/25	2

Sample : 25074004

Information : 3

Matrix : Porewater

Collected : 2/11/2025 10:35:00AM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	30800	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	10700	ug/L		3/ 4/25	2
7440097	Potassium	3840	ug/L		3/ 4/25	2
7440235	Sodium	13500	ug/L		3/ 4/25	2
7440666	Zinc	5.0	ug/L	U	3/ 4/25	2

Sample : 25074005

Information : 3

Matrix : Flt. Porewater

Collected : 2/11/2025 10:40:00AM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	31300	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	10800	ug/L		3/ 4/25	2
7440097	Potassium	3940	ug/L		3/ 4/25	2
7440235	Sodium	13800	ug/L		3/ 4/25	2
7440666	Zinc	6.6	ug/L		3/ 4/25	2

Sample : 25074006

Information : 4

Matrix : Porewater

Collected : 2/11/2025 11:15:00AM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	8570	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	3530	ug/L		3/ 4/25	2
7440097	Potassium	1300	ug/L		3/ 4/25	2
7440235	Sodium	5390	ug/L		3/ 4/25	2
7440666	Zinc	5.0	ug/L	U	3/ 4/25	2

Sample : 25074007

Information : 4

Matrix : Flt. Porewater

Collected : 2/11/2025 11:15:00AM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	8580	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	3490	ug/L		3/ 4/25	2
7440097	Potassium	1300	ug/L		3/ 4/25	2
7440235	Sodium	5430	ug/L		3/ 4/25	2
7440666	Zinc	5.0	ug/L	U	3/ 4/25	2

Sample : 25074008

Information : 5

Matrix : Porewater

Collected : 2/11/2025 12:15:00PM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	77000	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	23800	ug/L		3/ 4/25	2
7440097	Potassium	14000	ug/L		3/ 4/25	2
7440235	Sodium	10900	ug/L		3/ 4/25	2
7440666	Zinc	8.8	ug/L		3/ 4/25	2

Sample : 25074009

Information : 5

Matrix : Flt. Porewater

Collected : 2/11/2025 12:15:00PM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	77500	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	23900	ug/L		3/ 4/25	2
7440097	Potassium	14200	ug/L		3/ 4/25	2
7440235	Sodium	11000	ug/L		3/ 4/25	2
7440666	Zinc	7.5	ug/L		3/ 4/25	2

Sample : 25074010

Information : 6

Matrix : Porewater

Collected : 2/11/2025 1:10:00PM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	45200	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	21200	ug/L		3/ 4/25	2
7440097	Potassium	5240	ug/L		3/ 4/25	2
7440235	Sodium	9800	ug/L		3/ 4/25	2
7440666	Zinc	5.0	ug/L	U	3/ 4/25	2

Sample : 25074011

Information : 6

Matrix : Flt. Porewater

Collected : 2/11/2025 1:15:00PM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	45900	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	21400	ug/L		3/ 4/25	2
7440097	Potassium	5320	ug/L		3/ 4/25	2
7440235	Sodium	9910	ug/L		3/ 4/25	2
7440666	Zinc	5.3	ug/L		3/ 4/25	2

Sample : 25074012

Information : 7

Matrix : Porewater

Collected : 2/11/2025 1:05:00PM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	56200	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	26600	ug/L		3/ 4/25	2
7440097	Potassium	4670	ug/L		3/ 4/25	2
7440235	Sodium	11600	ug/L		3/ 4/25	2
7440666	Zinc	5.0	ug/L	U	3/ 4/25	2

Sample : 25074013

Information : 7

Matrix : Flt. Porewater

Collected : 2/11/2025 1:10:00PM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	56500	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	26800	ug/L		3/ 4/25	2
7440097	Potassium	4720	ug/L		3/ 4/25	2
7440235	Sodium	11600	ug/L		3/ 4/25	2
7440666	Zinc	5.2	ug/L		3/ 4/25	2

Sample : 25074014

Information : 8

Matrix : Porewater

Collected : 2/12/2025 2:25:00PM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	47700	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	23100	ug/L		3/ 4/25	2
7440097	Potassium	4300	ug/L		3/ 4/25	2
7440235	Sodium	10400	ug/L		3/ 4/25	2
7440666	Zinc	5.0	ug/L	U	3/ 4/25	2

Sample : 25074015

Information : 8

Matrix : Flt. Porewater

Collected : 2/12/2025 2:25:00PM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	48200	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	23300	ug/L		3/ 4/25	2
7440097	Potassium	4330	ug/L		3/ 4/25	2
7440235	Sodium	10500	ug/L		3/ 4/25	2
7440666	Zinc	5.0	ug/L	U	3/ 4/25	2

Sample : 25074016

Information : 9

Matrix : Porewater

Collected : 2/12/2025 1:59:00PM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	34200	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	16100	ug/L		3/ 4/25	2
7440097	Potassium	3730	ug/L		3/ 4/25	2
7440235	Sodium	9250	ug/L		3/ 4/25	2
7440666	Zinc	5.0	ug/L	U	3/ 4/25	2

Sample : 25074017

Information : 9

Matrix : Flt. Porewater

Collected : 2/12/2025 1:59:00PM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	34100	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	16100	ug/L		3/ 4/25	2
7440097	Potassium	3700	ug/L		3/ 4/25	2
7440235	Sodium	9250	ug/L		3/ 4/25	2
7440666	Zinc	6.2	ug/L		3/ 4/25	2

Sample : 25074018

Information : 10

Matrix : Porewater

Collected : 2/12/2025 1:29:00PM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	29300	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	12800	ug/L		3/ 4/25	2
7440097	Potassium	2700	ug/L		3/ 4/25	2
7440235	Sodium	11900	ug/L		3/ 4/25	2
7440666	Zinc	6.1	ug/L		3/ 4/25	2

Sample : 25074019

Information : 10

Matrix : Flt. Porewater

Collected : 2/12/2025 1:29:00PM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	29300	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	12700	ug/L		3/ 4/25	2
7440097	Potassium	2700	ug/L		3/ 4/25	2
7440235	Sodium	11800	ug/L		3/ 4/25	2
7440666	Zinc	6.0	ug/L		3/ 4/25	2

Sample : 25074021

Information : 11

Matrix : Flt. Porewater

Collected : 2/10/2025 4:05:00PM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	9150	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	1810	ug/L		3/ 5/25	2
7440097	Potassium	700	ug/L	U	3/ 5/25	2
7440235	Sodium	5240	ug/L		3/ 5/25	2
7440666	Zinc	5.0	ug/L	U	3/ 5/25	2

Sample : 25074022

Information : 12

Matrix : Porewater

Collected : 2/11/2025 8:55:00AM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	10300	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	1730	ug/L		3/ 5/25	2
7440097	Potassium	900	ug/L		3/ 5/25	2
7440235	Sodium	5330	ug/L		3/ 5/25	2
7440666	Zinc	9.1	ug/L		3/ 5/25	2

Sample : 25074023

Information : 12

Matrix : Flt. Porewater

Collected : 2/11/2025 9:00:00AM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	10300	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	1670	ug/L		3/ 5/25	2
7440097	Potassium	880	ug/L		3/ 5/25	2
7440235	Sodium	5350	ug/L		3/ 5/25	2
7440666	Zinc	5.4	ug/L		3/ 5/25	2

Sample : 25074025

Information : 13

Matrix : Flt. Porewater

Collected : 2/10/2025 4:25:00PM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	11100	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	2040	ug/L		3/ 5/25	2
7440097	Potassium	770	ug/L		3/ 5/25	2
7440235	Sodium	5360	ug/L		3/ 5/25	2
7440666	Zinc	5.0	ug/L	U	3/ 5/25	2

Sample : 25074026

Information : 14

Matrix : Porewater

Collected : 2/12/2025 9:33:00AM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	9630	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	1670	ug/L		3/ 5/25	2
7440097	Potassium	730	ug/L		3/ 5/25	2
7440235	Sodium	4860	ug/L		3/ 5/25	2
7440666	Zinc	5.0	ug/L	U	3/ 5/25	2

Sample : 25074027

Information : 14

Matrix : Flt. Porewater

Collected : 2/12/2025 9:33:00AM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	9550	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	1640	ug/L		3/ 5/25	2
7440097	Potassium	710	ug/L		3/ 5/25	2
7440235	Sodium	4840	ug/L		3/ 5/25	2
7440666	Zinc	5.0	ug/L	U	3/ 5/25	2

Sample : 25074028

Information : 15

Matrix : Porewater

Collected : 2/12/2025 10:25:00AM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	10300	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	1810	ug/L		3/ 5/25	2
7440097	Potassium	1000	ug/L		3/ 5/25	2
7440235	Sodium	5060	ug/L		3/ 5/25	2
7440666	Zinc	12	ug/L		3/ 5/25	2

Sample : 25074029

Information : 15

Matrix : Flt. Porewater

Collected : 2/12/2025 10:30:00AM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	9530	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	1560	ug/L		3/ 5/25	2
7440097	Potassium	900	ug/L		3/ 5/25	2
7440235	Sodium	4900	ug/L		3/ 5/25	2
7440666	Zinc	5.7	ug/L		3/ 5/25	2

Sample : 25074030

Information : 16

Matrix : Porewater

Collected : 2/12/2025 11:26:00AM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	15500	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	7350	ug/L		3/ 5/25	2
7440097	Potassium	1900	ug/L		3/ 5/25	2
7440235	Sodium	4000	ug/L		3/ 5/25	2
7440666	Zinc	6.9	ug/L		3/ 5/25	2

Sample : 25074031

Information : 16

Matrix : Flt. Porewater

Collected : 2/12/2025 11:26:00AM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	15500	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	7320	ug/L		3/ 5/25	2
7440097	Potassium	1900	ug/L		3/ 5/25	2
7440235	Sodium	3940	ug/L		3/ 5/25	2
7440666	Zinc	5.0	ug/L	U	3/ 5/25	2

Sample : 25074032

Information : 16

Matrix : Porewater

Collected : 2/12/2025 11:26:00AM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	15100	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	7160	ug/L		3/ 5/25	2
7440097	Potassium	1850	ug/L		3/ 5/25	2
7440235	Sodium	3890	ug/L		3/ 5/25	2
7440666	Zinc	7.1	ug/L		3/ 5/25	2

Sample : 25074033

Information : 16

Matrix : Flt. Porewater

Collected : 2/12/2025 11:26:00AM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	15300	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	7230	ug/L		3/ 5/25	2
7440097	Potassium	1900	ug/L		3/ 5/25	2
7440235	Sodium	3940	ug/L		3/ 5/25	2
7440666	Zinc	5.8	ug/L		3/ 5/25	2

Sample : 25074034**Information :** blank**Matrix :** Porewater**Collected :** 2/11/2025 2:00:00PM**Parameter :** ICP-AES**Fraction :** Total**Prep Method:** 200.2 - Metals, total recoverable, water, soil, EMSL-CIN**Analysis Method:** 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)**Weight Basis :** N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	50	ug/L	U	3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	50	ug/L	U	3/ 5/25	2
7440097	Potassium	700	ug/L	U	3/ 5/25	2
7440235	Sodium	100	ug/L	U	3/ 5/25	2
7440666	Zinc	5.0	ug/L	U	3/ 5/25	2

Sample : 25074035**Information :** blank**Matrix :** Flt. Porewater**Collected :** 2/11/2025 2:00:00PM**Parameter :** ICP-AES**Fraction :** Dissolved**Prep Method:** 200.2 - Metals, total recoverable, water, soil, EMSL-CIN**Analysis Method:** 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)**Weight Basis :** N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	50	ug/L	U	3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	50	ug/L	U	3/ 5/25	2
7440097	Potassium	700	ug/L	U	3/ 5/25	2
7440235	Sodium	100	ug/L	U	3/ 5/25	2
7440666	Zinc	5.0	ug/L	U	3/ 5/25	2

Sample : 25074037

Information : 1 SW

Matrix : Filtered

Collected : 2/10/2025 2:40:00PM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	7930	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	2640	ug/L		3/ 5/25	2
7440097	Potassium	860	ug/L		3/ 5/25	2
7440235	Sodium	5440	ug/L		3/ 5/25	2
7440666	Zinc	5.0	ug/L	U	3/ 5/25	2

Sample : 25074038

Information : 12 SW

Matrix : Water

Collected : 2/11/2025 9:15:00AM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	8180	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	2760	ug/L		3/ 5/25	2
7440097	Potassium	890	ug/L		3/ 5/25	2
7440235	Sodium	5370	ug/L		3/ 5/25	2
7440666	Zinc	5.0	ug/L	U	3/ 5/25	2

Sample : 25074039

Information : 12 SW

Matrix : Filtered

Collected : 2/11/2025 9:25:00AM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	7890	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	2600	ug/L		3/ 5/25	2
7440097	Potassium	830	ug/L		3/ 5/25	2
7440235	Sodium	5300	ug/L		3/ 5/25	2
7440666	Zinc	5.0	ug/L	U	3/ 5/25	2

Sample : 25074041

Information : 12 SW-FD

Matrix : Filtered

Collected : 2/11/2025 9:45:00AM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	7900	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	2600	ug/L		3/ 5/25	2
7440097	Potassium	820	ug/L		3/ 5/25	2
7440235	Sodium	5310	ug/L		3/ 5/25	2
7440666	Zinc	5.0	ug/L	U	3/ 5/25	2

Sample : 25074002 Sample Duplicate

Information : 2

Matrix : Porewater

Collected : 2/11/2025 9:50:00AM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	15400	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	5280	ug/L		3/ 4/25	2
7440097	Potassium	2300	ug/L		3/ 4/25	2
7440235	Sodium	11200	ug/L		3/ 4/25	2
7440666	Zinc	5.0	ug/L	U	3/ 4/25	2

Sample : 25074003 Sample Duplicate

Information : 2

Matrix : Flt. Porewater

Collected : 2/11/2025 10:05:00AM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	14900	ug/L		3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	5100	ug/L		3/ 4/25	2
7440097	Potassium	2300	ug/L		3/ 4/25	2
7440235	Sodium	10900	ug/L		3/ 4/25	2
7440666	Zinc	5.0	ug/L	U	3/ 4/25	2

Sample : 25074037 Sample Duplicate

Information : 1 SW

Matrix : Filtered

Collected : 2/10/2025 2:40:00PM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	7890	ug/L		3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	2630	ug/L		3/ 5/25	2
7440097	Potassium	850	ug/L		3/ 5/25	2
7440235	Sodium	5410	ug/L		3/ 5/25	2
7440666	Zinc	5.0	ug/L	U	3/ 5/25	2

Sample : 25074002 Matrix Spike

Information : 2

Matrix : Porewater

Collected : 2/11/2025 9:50:00AM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
7440382	Arsenic	100	%Rec		3/ 4/25	2
7440702	Calcium	98	%Rec		3/ 4/25	2
7440473	Chromium	96	%Rec		3/ 4/25	2
7440508	Copper	99	%Rec		3/ 4/25	2
7439954	Magnesium	96	%Rec		3/ 4/25	2
7440097	Potassium	96	%Rec		3/ 4/25	2
7440235	Sodium	97	%Rec		3/ 4/25	2
7440666	Zinc	99	%Rec		3/ 4/25	2

Sample : 25074003 Matrix Spike**Information :** 2**Matrix :** Flt. Porewater**Collected :** 2/11/2025 10:05:00AM**Parameter :** ICP-AES**Fraction :** Dissolved**Prep Method:** 200.2 - Metals, total recoverable, water, soil, EMSL-CIN**Analysis Method:** 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)**Weight Basis :** N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
7440382	Arsenic	105	%Rec		3/ 4/25	2
7440702	Calcium	91	%Rec		3/ 4/25	2
7440473	Chromium	98	%Rec		3/ 4/25	2
7440508	Copper	102	%Rec		3/ 4/25	2
7439954	Magnesium	93	%Rec		3/ 4/25	2
7440097	Potassium	94	%Rec		3/ 4/25	2
7440235	Sodium	92	%Rec		3/ 4/25	2
7440666	Zinc	102	%Rec		3/ 4/25	2

Sample : 25074037 Matrix Spike**Information :** 1 SW**Matrix :** Filtered**Collected :** 2/10/2025 2:40:00PM**Parameter :** ICP-AES**Fraction :** Dissolved**Prep Method:** 200.2 - Metals, total recoverable, water, soil, EMSL-CIN**Analysis Method:** 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)**Weight Basis :** N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
7440382	Arsenic	106	%Rec		3/ 5/25	2
7440702	Calcium	97	%Rec		3/ 5/25	2
7440473	Chromium	102	%Rec		3/ 5/25	2
7440508	Copper	107	%Rec		3/ 5/25	2
7439954	Magnesium	97	%Rec		3/ 5/25	2
7440097	Potassium	101	%Rec		3/ 5/25	2
7440235	Sodium	99	%Rec		3/ 5/25	2
7440666	Zinc	106	%Rec		3/ 5/25	2

Sample : 25074002 Matrix Spike#2

Information : 2

Matrix : Porewater

Collected : 2/11/2025 9:50:00AM

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
7440382	Arsenic	102	%Rec		3/ 4/25	2
7440702	Calcium	101	%Rec		3/ 4/25	2
7440473	Chromium	99	%Rec		3/ 4/25	2
7440508	Copper	101	%Rec		3/ 4/25	2
7439954	Magnesium	98	%Rec		3/ 4/25	2
7440097	Potassium	97	%Rec		3/ 4/25	2
7440235	Sodium	100	%Rec		3/ 4/25	2
7440666	Zinc	101	%Rec		3/ 4/25	2

Sample : 25074003 Matrix Spike#2

Information : 2

Matrix : Flt. Porewater

Collected : 2/11/2025 10:05:00AM

Parameter : ICP-AES

Fraction : Dissolved

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
7440382	Arsenic	102	%Rec		3/ 4/25	2
7440702	Calcium	94	%Rec		3/ 4/25	2
7440473	Chromium	99	%Rec		3/ 4/25	2
7440508	Copper	100	%Rec		3/ 4/25	2
7439954	Magnesium	95	%Rec		3/ 4/25	2
7440097	Potassium	95	%Rec		3/ 4/25	2
7440235	Sodium	94	%Rec		3/ 4/25	2
7440666	Zinc	100	%Rec		3/ 4/25	2

Sample : 25074037 Matrix Spike#2**Information :** 1 SW**Matrix :** Filtered**Collected :** 2/10/2025 2:40:00PM**Parameter :** ICP-AES**Fraction :** Dissolved**Prep Method:** 200.2 - Metals, total recoverable, water, soil, EMSL-CIN**Analysis Method:** 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)**Weight Basis :** N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
7440382	Arsenic	108	%Rec		3/ 5/25	2
7440702	Calcium	98	%Rec		3/ 5/25	2
7440473	Chromium	108	%Rec		3/ 5/25	2
7440508	Copper	108	%Rec		3/ 5/25	2
7439954	Magnesium	98	%Rec		3/ 5/25	2
7440097	Potassium	101	%Rec		3/ 5/25	2
7440235	Sodium	100	%Rec		3/ 5/25	2
7440666	Zinc	107	%Rec		3/ 5/25	2

Sample : IW022425ABL Blank**Information :** Blank**Matrix :** Liquid**Parameter :** ICP-AES**Fraction :** Total**Prep Method:** 200.2 - Metals, total recoverable, water, soil, EMSL-CIN**Analysis Method:** 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)**Weight Basis :** N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 4/25	2
7440702	Calcium	50	ug/L	U	3/ 4/25	2
7440473	Chromium	5.0	ug/L	U	3/ 4/25	2
7440508	Copper	5.0	ug/L	U	3/ 4/25	2
7439954	Magnesium	50	ug/L	U	3/ 4/25	2
7440097	Potassium	700	ug/L	U	3/ 4/25	2
7440235	Sodium	100	ug/L	U	3/ 4/25	2
7440666	Zinc	5.0	ug/L	U	3/ 4/25	2

Sample : IW022525ABL Blank**Information :** Blank**Matrix :** Liquid**Parameter :** ICP-AES**Fraction :** Total**Prep Method:** 200.2 - Metals, total recoverable, water, soil, EMSL-CIN**Analysis Method:** 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)**Weight Basis :** N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
7440382	Arsenic	25	ug/L	U	3/ 5/25	2
7440702	Calcium	50	ug/L	U	3/ 5/25	2
7440473	Chromium	5.0	ug/L	U	3/ 5/25	2
7440508	Copper	5.0	ug/L	U	3/ 5/25	2
7439954	Magnesium	50	ug/L	U	3/ 5/25	2
7440097	Potassium	700	ug/L	U	3/ 5/25	2
7440235	Sodium	100	ug/L	U	3/ 5/25	2
7440666	Zinc	5.0	ug/L	U	3/ 5/25	2

Sample : IW022425AL1 Lab Control Std**Information :** Lab Control Standard**Matrix :** Liquid**Parameter :** ICP-AES**Fraction :** Total**Prep Method:** 200.2 - Metals, total recoverable, water, soil, EMSL-CIN**Analysis Method:** 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)**Weight Basis :** N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
7440382	Arsenic	101	%Rec		3/ 4/25	2
7440702	Calcium	99	%Rec		3/ 4/25	2
7440473	Chromium	101	%Rec		3/ 4/25	2
7440508	Copper	99	%Rec		3/ 4/25	2
7439954	Magnesium	97	%Rec		3/ 4/25	2
7440097	Potassium	97	%Rec		3/ 4/25	2
7440235	Sodium	99	%Rec		3/ 4/25	2
7440666	Zinc	101	%Rec		3/ 4/25	2

Sample : IW022525AL1 Lab Control Std

Information : Lab Control Standard

Matrix : Liquid

Parameter : ICP-AES

Fraction : Total

Prep Method: 200.2 - Metals, total recoverable, water, soil, EMSL-CIN

Analysis Method: 200.7 - ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy (22 elements)

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
7440382	Arsenic	101	%Rec		3/ 5/25	2
7440702	Calcium	99	%Rec		3/ 5/25	2
7440473	Chromium	108	%Rec		3/ 5/25	2
7440508	Copper	99	%Rec		3/ 5/25	2
7439954	Magnesium	98	%Rec		3/ 5/25	2
7440097	Potassium	101	%Rec		3/ 5/25	2
7440235	Sodium	101	%Rec		3/ 5/25	2
7440666	Zinc	101	%Rec		3/ 5/25	2



US EPA Region 10 Laboratory



Multi-Sample Final Report

Project Code : SFP-214A

Site : McCORMICK & BAXTER: Porewater Sampling

Contact : Anne Christopher

Account : 2025T10P000FD210P9LA00

Parameter(s): Anions

Analyte: 16887006 - Chloride

Weight Basis : N/A

Prep Method(s): 300.0 - Inorganic Anions, Ion Chromatography

Analytical Method: 300.0 - Inorganic Anions, Ion Chromatography

Target Analyte Results:

Sample	Information	Lab Matrix	Result	Unit	Qual.	Analysis Date	Dilution
25074001 sam	1	Flt. Porewater	5.08	mg/L		2/18/25	2
25074023 sam	12	Flt. Porewater	4.31	mg/L		2/15/25	1
25074035 sam	blank	Flt. Porewater	0.060	mg/L	U	2/14/25	1
25074037 sam	1 SW	Filtered	5.28	mg/L		2/18/25	2
25074039 sam	12 SW	Filtered	5.25	mg/L		2/14/25	1
25074041 sam	12 SW-FD	Filtered	5.25	mg/L		2/14/25	1
25074001 du	1	Flt. Porewater	5.06	mg/L		2/18/25	2
25074037 du	1 SW	Filtered	5.29	mg/L		2/18/25	2
IW021425ABL blk	Blank	Filtered	0.060	mg/L	U	2/14/25	1
IW021825ABL blk	Blank	Filtered	0.060	mg/L	U	2/18/25	1

Spiked Compounds:

Sample	Information	Lab Matrix	Result	Unit	Qual.	Analysis Date	Dilution
25074001 ms	1	Flt. Porewater	98	%Rec		2/18/25	2
25074037 ms	1 SW	Filtered	97	%Rec		2/18/25	2
25074001 msd	1	Flt. Porewater	98	%Rec		2/18/25	2
25074037 msd	1 SW	Filtered	96	%Rec		2/18/25	2
IW021425AL1 lcs	Lab Control Standard	Filtered	100	%Rec		2/14/25	1
IW021825AL1 lcs	Lab Control Standard	Filtered	98	%Rec		2/18/25	1

Analyte: 14808798 - Sulfate

Weight Basis : N/A

Prep Method(s): 300.0 - Inorganic Anions, Ion Chromatography

Analytical Method: 300.0 - Inorganic Anions, Ion Chromatography

Target Analyte Results:

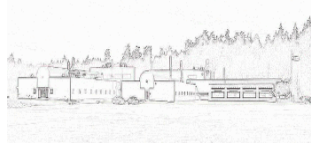
Sample	Information	Lab Matrix	Result	Unit	Qual.	Analysis Date	Dilution
25074001 sam	1	Flt. Porewater	3.12	mg/L		2/15/25	1
25074023 sam	12	Flt. Porewater	3.30	mg/L		2/15/25	1
25074035 sam	blank	Flt. Porewater	0.30	mg/L	U	2/14/25	1
25074037 sam	1 SW	Filtered	3.80	mg/L		2/14/25	1
25074039 sam	12 SW	Filtered	3.90	mg/L		2/14/25	1

Target Analyte Results (cont.):

Sample	Information	Lab Matrix	Result	Unit	Qual.	Analysis Date	Dilution
25074041 sam	12 SW-FD	Filtered	3.91	mg/L		2/14/25	1
25074001 du	1	Filt. Porewater	3.11	mg/L		2/15/25	1
25074037 du	1 SW	Filtered	3.79	mg/L		2/14/25	1
IW021425ABL blk	Blank	Filtered	0.30	mg/L	U	2/14/25	1

Spiked Compounds:

Sample	Information	Lab Matrix	Result	Unit	Qual.	Analysis Date	Dilution
25074001 ms	1	Filt. Porewater	101	%Rec		2/15/25	1
25074037 ms	1 SW	Filtered	100	%Rec		2/14/25	1
25074001 msd	1	Filt. Porewater	101	%Rec		2/15/25	1
25074037 msd	1 SW	Filtered	101	%Rec		2/14/25	1
IW021425AL1 lcs	Lab Control Standard	Filtered	100	%Rec		2/14/25	1



US EPA Region 10 Laboratory

Multi-Analyte Final Report



Project Code : SFP-214A

Site : McCORMICK & BAXTER: Porewater Sampling

Contact : Anne Christopher

Account : 2025T10P000FD210P9LA00

Sample : 25074000

Information : 1

Matrix : Porewater

Collected : 2/10/2025 2:15:00PM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.026	ug/L	U	2/18/25	1
83329	Acenaphthene	0.026	ug/L	U	2/18/25	1
208968	Acenaphthylene	0.026	ug/L	U	2/18/25	1
120127	Anthracene	0.026	ug/L	UJ	2/18/25	1
56553	Benzo(a)anthracene	0.026	ug/L	U	2/18/25	1
50328	Benzo(a)pyrene	0.026	ug/L	UJ	2/18/25	1
191242	Benzo(g,h,i)perylene	0.026	ug/L	UJ	2/18/25	1
205992	Benzo[b]Fluoranthene	0.026	ug/L	UJ	2/18/25	1
207089	Benzo[k]fluoranthene	0.026	ug/L	UJ	2/18/25	1
218019	Chrysene	0.026	ug/L	U	2/18/25	1
53703	Dibenzo[a,h]anthracene	0.026	ug/L	UJ	2/18/25	1
206440	Fluoranthene	0.026	ug/L	U	2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	0.026	ug/L	UJ	2/18/25	1
91203	Naphthalene	0.026	ug/L	U	2/18/25	1
90120	Naphthalene, 1-methyl-	0.026	ug/L	U	2/18/25	1
91576	Naphthalene, 2-methyl-	0.026	ug/L	U	2/18/25	1
85018	Phenanthrene	0.026	ug/L	UJ	2/18/25	1
129000	Pyrene	0.026	ug/L	U	2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	79	%Rec		2/18/25	1
1719068	Anthracene-D10	26	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	35	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	90	%Rec		2/18/25	1
1718521	D10-Pyrene	60	%Rec		2/18/25	1

Sample : 25074002

Information : 2

Matrix : Porewater

Collected : 2/11/2025 9:50:00AM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	52	ug/L		2/19/25	20
83329	Acenaphthene	76	ug/L		2/19/25	20
208968	Acenaphthylene	0.49	ug/L		2/18/25	1
120127	Anthracene	0.42	ug/L		2/18/25	1
56553	Benzo(a)anthracene	0.027	ug/L	U	2/18/25	1
50328	Benzo(a)pyrene	0.027	ug/L	U	2/18/25	1
191242	Benzo(g,h,i)perylene	0.027	ug/L	U	2/18/25	1
205992	Benzo[b]Fluoranthene	0.027	ug/L	U	2/18/25	1
207089	Benzo[k]fluoranthene	0.027	ug/L	U	2/18/25	1
218019	Chrysene	0.027	ug/L	U	2/18/25	1
53703	Dibenzo[a,h]anthracene	0.027	ug/L	U	2/18/25	1
206440	Fluoranthene	0.39	ug/L		2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	0.027	ug/L	U	2/18/25	1
91203	Naphthalene	0.027	ug/L	U	2/18/25	1
90120	Naphthalene, 1-methyl-	0.027	ug/L	U	2/18/25	1
91576	Naphthalene, 2-methyl-	0.027	ug/L	U	2/18/25	1
85018	Phenanthrene	1.3	ug/L		2/18/25	1
129000	Pyrene	0.40	ug/L		2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	79	%Rec		2/18/25	1
1719068	Anthracene-D10	86	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	106	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	96	%Rec		2/18/25	1
1718521	D10-Pyrene	86	%Rec		2/18/25	1

Sample : 25074004

Information : 3

Matrix : Porewater

Collected : 2/11/2025 10:35:00AM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.026	ug/L	U	2/18/25	1
83329	Acenaphthene	39	ug/L		2/19/25	20
208968	Acenaphthylene	0.25	ug/L		2/18/25	1
120127	Anthracene	0.14	ug/L		2/18/25	1
56553	Benzo(a)anthracene	0.026	ug/L	U	2/18/25	1
50328	Benzo(a)pyrene	0.026	ug/L	U	2/18/25	1
191242	Benzo(g,h,i)perylene	0.026	ug/L	U	2/18/25	1
205992	Benzo[b]Fluoranthene	0.026	ug/L	U	2/18/25	1
207089	Benzo[k]fluoranthene	0.026	ug/L	U	2/18/25	1
218019	Chrysene	0.026	ug/L	U	2/18/25	1
53703	Dibenzo[a,h]anthracene	0.026	ug/L	U	2/18/25	1
206440	Fluoranthene	0.026	ug/L	U	2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	0.026	ug/L	U	2/18/25	1
91203	Naphthalene	0.026	ug/L	U	2/18/25	1
90120	Naphthalene, 1-methyl-	0.40	ug/L		2/18/25	1
91576	Naphthalene, 2-methyl-	0.026	ug/L	U	2/18/25	1
85018	Phenanthrene	0.044	ug/L		2/18/25	1
129000	Pyrene	0.11	ug/L		2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	84	%Rec		2/18/25	1
1719068	Anthracene-D10	87	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	104	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	90	%Rec		2/18/25	1
1718521	D10-Pyrene	84	%Rec		2/18/25	1

Sample : 25074006

Information : 4

Matrix : Porewater

Collected : 2/11/2025 11:15:00AM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.023	ug/L	U	2/18/25	1
83329	Acenaphthene	9.1	ug/L		2/18/25	1
208968	Acenaphthylene	0.036	ug/L		2/18/25	1
120127	Anthracene	0.015	ug/L	J	2/18/25	1
56553	Benzo(a)anthracene	0.023	ug/L	U	2/18/25	1
50328	Benzo(a)pyrene	0.023	ug/L	U	2/18/25	1
191242	Benzo(g,h,i)perylene	0.023	ug/L	U	2/18/25	1
205992	Benzo[b]Fluoranthene	0.023	ug/L	U	2/18/25	1
207089	Benzo[k]fluoranthene	0.023	ug/L	U	2/18/25	1
218019	Chrysene	0.023	ug/L	U	2/18/25	1
53703	Dibenzo[a,h]anthracene	0.023	ug/L	U	2/18/25	1
206440	Fluoranthene	0.023	ug/L	U	2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	0.023	ug/L	U	2/18/25	1
91203	Naphthalene	0.025	ug/L	U	2/18/25	1
90120	Naphthalene, 1-methyl-	0.023	ug/L	U	2/18/25	1
91576	Naphthalene, 2-methyl-	0.023	ug/L	U	2/18/25	1
85018	Phenanthrene	0.023	ug/L	U	2/18/25	1
129000	Pyrene	0.013	ug/L	J	2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	87	%Rec		2/18/25	1
1719068	Anthracene-D10	91	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	111	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	92	%Rec		2/18/25	1
1718521	D10-Pyrene	91	%Rec		2/18/25	1

Sample : 25074008

Information : 5

Matrix : Porewater

Collected : 2/11/2025 12:15:00PM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.023	ug/L	U	2/18/25	1
83329	Acenaphthene	0.021	ug/L	J	2/18/25	1
208968	Acenaphthylene	0.023	ug/L	U	2/18/25	1
120127	Anthracene	0.035	ug/L		2/18/25	1
56553	Benzo(a)anthracene	0.023	ug/L	U	2/18/25	1
50328	Benzo(a)pyrene	0.023	ug/L	U	2/18/25	1
191242	Benzo(g,h,i)perylene	0.023	ug/L	U	2/18/25	1
205992	Benzo[b]Fluoranthene	0.023	ug/L	U	2/18/25	1
207089	Benzo[k]fluoranthene	0.023	ug/L	U	2/18/25	1
218019	Chrysene	0.023	ug/L	U	2/18/25	1
53703	Dibenzo[a,h]anthracene	0.023	ug/L	U	2/18/25	1
206440	Fluoranthene	0.023	ug/L	U	2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	0.023	ug/L	U	2/18/25	1
91203	Naphthalene	0.023	ug/L	U	2/18/25	1
90120	Naphthalene, 1-methyl-	0.023	ug/L	U	2/18/25	1
91576	Naphthalene, 2-methyl-	0.023	ug/L	U	2/18/25	1
85018	Phenanthrene	0.023	ug/L	U	2/18/25	1
129000	Pyrene	0.023	ug/L	U	2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	76	%Rec		2/18/25	1
1719068	Anthracene-D10	84	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	106	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	83	%Rec		2/18/25	1
1718521	D10-Pyrene	86	%Rec		2/18/25	1

Sample : 25074010

Information : 6

Matrix : Porewater

Collected : 2/11/2025 1:10:00PM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.023	ug/L	U	2/18/25	1
83329	Acenaphthene	0.058	ug/L		2/18/25	1
208968	Acenaphthylene	0.023	ug/L	U	2/18/25	1
120127	Anthracene	0.077	ug/L		2/18/25	1
56553	Benzo(a)anthracene	0.023	ug/L	U	2/18/25	1
50328	Benzo(a)pyrene	0.023	ug/L	U	2/18/25	1
191242	Benzo(g,h,i)perylene	0.023	ug/L	U	2/18/25	1
205992	Benzo[b]Fluoranthene	0.023	ug/L	U	2/18/25	1
207089	Benzo[k]fluoranthene	0.023	ug/L	U	2/18/25	1
218019	Chrysene	0.023	ug/L	U	2/18/25	1
53703	Dibenzo[a,h]anthracene	0.023	ug/L	U	2/18/25	1
206440	Fluoranthene	0.023	ug/L	U	2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	0.023	ug/L	U	2/18/25	1
91203	Naphthalene	0.023	ug/L	U	2/18/25	1
90120	Naphthalene, 1-methyl-	0.023	ug/L	U	2/18/25	1
91576	Naphthalene, 2-methyl-	0.023	ug/L	U	2/18/25	1
85018	Phenanthrene	0.023	ug/L	U	2/18/25	1
129000	Pyrene	0.023	ug/L	U	2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	92	%Rec		2/18/25	1
1719068	Anthracene-D10	86	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	103	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	93	%Rec		2/18/25	1
1718521	D10-Pyrene	86	%Rec		2/18/25	1

Sample : 25074012

Information : 7

Matrix : Porewater

Collected : 2/11/2025 1:05:00PM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.023	ug/L	U	2/18/25	1
83329	Acenaphthene	0.023	ug/L	U	2/18/25	1
208968	Acenaphthylene	0.023	ug/L	U	2/18/25	1
120127	Anthracene	0.085	ug/L		2/18/25	1
56553	Benzo(a)anthracene	0.023	ug/L	U	2/18/25	1
50328	Benzo(a)pyrene	0.023	ug/L	U	2/18/25	1
191242	Benzo(g,h,i)perylene	0.023	ug/L	U	2/18/25	1
205992	Benzo[b]Fluoranthene	0.023	ug/L	U	2/18/25	1
207089	Benzo[k]fluoranthene	0.023	ug/L	U	2/18/25	1
218019	Chrysene	0.023	ug/L	U	2/18/25	1
53703	Dibenzo[a,h]anthracene	0.023	ug/L	U	2/18/25	1
206440	Fluoranthene	0.023	ug/L	U	2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	0.023	ug/L	U	2/18/25	1
91203	Naphthalene	0.023	ug/L	U	2/18/25	1
90120	Naphthalene, 1-methyl-	0.023	ug/L	U	2/18/25	1
91576	Naphthalene, 2-methyl-	0.023	ug/L	U	2/18/25	1
85018	Phenanthrene	0.023	ug/L	U	2/18/25	1
129000	Pyrene	0.023	ug/L	U	2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	79	%Rec		2/18/25	1
1719068	Anthracene-D10	84	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	106	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	85	%Rec		2/18/25	1
1718521	D10-Pyrene	86	%Rec		2/18/25	1

Sample : 25074014

Information : 8

Matrix : Porewater

Collected : 2/12/2025 2:25:00PM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.026	ug/L	U	2/18/25	1
83329	Acenaphthene	0.026	ug/L	U	2/18/25	1
208968	Acenaphthylene	0.026	ug/L	U	2/18/25	1
120127	Anthracene	0.042	ug/L		2/18/25	1
56553	Benzo(a)anthracene	0.026	ug/L	U	2/18/25	1
50328	Benzo(a)pyrene	0.026	ug/L	U	2/18/25	1
191242	Benzo(g,h,i)perylene	0.026	ug/L	U	2/18/25	1
205992	Benzo[b]Fluoranthene	0.026	ug/L	U	2/18/25	1
207089	Benzo[k]fluoranthene	0.026	ug/L	U	2/18/25	1
218019	Chrysene	0.026	ug/L	U	2/18/25	1
53703	Dibenzo[a,h]anthracene	0.026	ug/L	U	2/18/25	1
206440	Fluoranthene	0.026	ug/L	U	2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	0.026	ug/L	U	2/18/25	1
91203	Naphthalene	0.026	ug/L	U	2/18/25	1
90120	Naphthalene, 1-methyl-	0.026	ug/L	U	2/18/25	1
91576	Naphthalene, 2-methyl-	0.026	ug/L	U	2/18/25	1
85018	Phenanthrene	0.026	ug/L	U	2/18/25	1
129000	Pyrene	0.026	ug/L	U	2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	89	%Rec		2/18/25	1
1719068	Anthracene-D10	85	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	102	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	90	%Rec		2/18/25	1
1718521	D10-Pyrene	85	%Rec		2/18/25	1

Sample : 25074016

Information : 9

Matrix : Porewater

Collected : 2/12/2025 1:59:00PM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.027	ug/L	U	2/19/25	1
83329	Acenaphthene	0.035	ug/L		2/19/25	1
208968	Acenaphthylene	0.027	ug/L	U	2/19/25	1
120127	Anthracene	0.054	ug/L		2/19/25	1
56553	Benzo(a)anthracene	0.027	ug/L	U	2/19/25	1
50328	Benzo(a)pyrene	0.027	ug/L	U	2/19/25	1
191242	Benzo(g,h,i)perylene	0.027	ug/L	U	2/19/25	1
205992	Benzo[b]Fluoranthene	0.027	ug/L	U	2/19/25	1
207089	Benzo[k]fluoranthene	0.027	ug/L	U	2/19/25	1
218019	Chrysene	0.027	ug/L	U	2/19/25	1
53703	Dibenzo[a,h]anthracene	0.027	ug/L	U	2/19/25	1
206440	Fluoranthene	0.027	ug/L	U	2/19/25	1
193395	Indeno(1,2,3-cd)pyrene	0.027	ug/L	U	2/19/25	1
91203	Naphthalene	0.027	ug/L	U	2/19/25	1
90120	Naphthalene, 1-methyl-	0.027	ug/L	U	2/19/25	1
91576	Naphthalene, 2-methyl-	0.027	ug/L	U	2/19/25	1
85018	Phenanthrene	0.027	ug/L	U	2/19/25	1
129000	Pyrene	0.027	ug/L	U	2/19/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	99	%Rec		2/19/25	1
1719068	Anthracene-D10	93	%Rec		2/19/25	1
63466717	Benzo[a]pyrene-D12	109	%Rec		2/19/25	1
81103799	D10-Fluorene (SS)	101	%Rec		2/19/25	1
1718521	D10-Pyrene	91	%Rec		2/19/25	1

Sample : 25074018

Information : 10

Matrix : Porewater

Collected : 2/12/2025 1:29:00PM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.026	ug/L	U	2/19/25	1
83329	Acenaphthene	0.018	ug/L	J	2/19/25	1
208968	Acenaphthylene	0.026	ug/L	U	2/19/25	1
120127	Anthracene	0.029	ug/L		2/19/25	1
56553	Benzo(a)anthracene	0.026	ug/L	U	2/19/25	1
50328	Benzo(a)pyrene	0.026	ug/L	U	2/19/25	1
191242	Benzo(g,h,i)perylene	0.026	ug/L	U	2/19/25	1
205992	Benzo[b]Fluoranthene	0.026	ug/L	U	2/19/25	1
207089	Benzo[k]fluoranthene	0.026	ug/L	U	2/19/25	1
218019	Chrysene	0.026	ug/L	U	2/19/25	1
53703	Dibenzo[a,h]anthracene	0.026	ug/L	U	2/19/25	1
206440	Fluoranthene	0.026	ug/L	U	2/19/25	1
193395	Indeno(1,2,3-cd)pyrene	0.026	ug/L	U	2/19/25	1
91203	Naphthalene	0.026	ug/L	U	2/19/25	1
90120	Naphthalene, 1-methyl-	0.026	ug/L	U	2/19/25	1
91576	Naphthalene, 2-methyl-	0.026	ug/L	U	2/19/25	1
85018	Phenanthrene	0.012	ug/L	J	2/19/25	1
129000	Pyrene	0.026	ug/L	U	2/19/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	97	%Rec		2/19/25	1
1719068	Anthracene-D10	90	%Rec		2/19/25	1
63466717	Benzo[a]pyrene-D12	109	%Rec		2/19/25	1
81103799	D10-Fluorene (SS)	98	%Rec		2/19/25	1
1718521	D10-Pyrene	90	%Rec		2/19/25	1

Sample : 25074020

Information : 11

Matrix : Porewater

Collected : 2/10/2025 4:00:00PM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.026	ug/L	U	2/19/25	1
83329	Acenaphthene	0.026	ug/L	U	2/19/25	1
208968	Acenaphthylene	0.026	ug/L	U	2/19/25	1
120127	Anthracene	0.026	ug/L	U	2/19/25	1
56553	Benzo(a)anthracene	0.026	ug/L	U	2/19/25	1
50328	Benzo(a)pyrene	0.026	ug/L	U	2/19/25	1
191242	Benzo(g,h,i)perylene	0.026	ug/L	U	2/19/25	1
205992	Benzo[b]Fluoranthene	0.026	ug/L	U	2/19/25	1
207089	Benzo[k]fluoranthene	0.026	ug/L	U	2/19/25	1
218019	Chrysene	0.026	ug/L	U	2/19/25	1
53703	Dibenzo[a,h]anthracene	0.026	ug/L	U	2/19/25	1
206440	Fluoranthene	0.026	ug/L	U	2/19/25	1
193395	Indeno(1,2,3-cd)pyrene	0.026	ug/L	U	2/19/25	1
91203	Naphthalene	0.026	ug/L	U	2/19/25	1
90120	Naphthalene, 1-methyl-	0.026	ug/L	U	2/19/25	1
91576	Naphthalene, 2-methyl-	0.026	ug/L	U	2/19/25	1
85018	Phenanthrene	0.026	ug/L	U	2/19/25	1
129000	Pyrene	0.026	ug/L	U	2/19/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	92	%Rec		2/19/25	1
1719068	Anthracene-D10	90	%Rec		2/19/25	1
63466717	Benzo[a]pyrene-D12	104	%Rec		2/19/25	1
81103799	D10-Fluorene (SS)	96	%Rec		2/19/25	1
1718521	D10-Pyrene	87	%Rec		2/19/25	1

Sample : 25074022

Information : 12

Matrix : Porewater

Collected : 2/11/2025 8:55:00AM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.028	ug/L	U	2/19/25	1
83329	Acenaphthene	0.028	ug/L	U	2/19/25	1
208968	Acenaphthylene	0.028	ug/L	U	2/19/25	1
120127	Anthracene	0.028	ug/L	U	2/19/25	1
56553	Benzo(a)anthracene	0.028	ug/L	U	2/19/25	1
50328	Benzo(a)pyrene	0.028	ug/L	U	2/19/25	1
191242	Benzo(g,h,i)perylene	0.028	ug/L	U	2/19/25	1
205992	Benzo[b]Fluoranthene	0.028	ug/L	U	2/19/25	1
207089	Benzo[k]fluoranthene	0.028	ug/L	U	2/19/25	1
218019	Chrysene	0.028	ug/L	U	2/19/25	1
53703	Dibenzo[a,h]anthracene	0.028	ug/L	U	2/19/25	1
206440	Fluoranthene	0.028	ug/L	U	2/19/25	1
193395	Indeno(1,2,3-cd)pyrene	0.028	ug/L	U	2/19/25	1
91203	Naphthalene	0.028	ug/L	U	2/19/25	1
90120	Naphthalene, 1-methyl-	0.028	ug/L	U	2/19/25	1
91576	Naphthalene, 2-methyl-	0.028	ug/L	U	2/19/25	1
85018	Phenanthrene	0.028	ug/L	U	2/19/25	1
129000	Pyrene	0.028	ug/L	U	2/19/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	88	%Rec		2/19/25	1
1719068	Anthracene-D10	92	%Rec		2/19/25	1
63466717	Benzo[a]pyrene-D12	109	%Rec		2/19/25	1
81103799	D10-Fluorene (SS)	97	%Rec		2/19/25	1
1718521	D10-Pyrene	90	%Rec		2/19/25	1

Sample : 25074024

Information : 13

Matrix : Porewater

Collected : 2/10/2025 4:20:00PM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.023	ug/L	U	2/19/25	1
83329	Acenaphthene	0.023	ug/L	U	2/19/25	1
208968	Acenaphthylene	0.023	ug/L	U	2/19/25	1
120127	Anthracene	0.023	ug/L	U	2/19/25	1
56553	Benzo(a)anthracene	0.023	ug/L	U	2/19/25	1
50328	Benzo(a)pyrene	0.023	ug/L	U	2/19/25	1
191242	Benzo(g,h,i)perylene	0.023	ug/L	U	2/19/25	1
205992	Benzo[b]Fluoranthene	0.023	ug/L	U	2/19/25	1
207089	Benzo[k]fluoranthene	0.023	ug/L	U	2/19/25	1
218019	Chrysene	0.023	ug/L	U	2/19/25	1
53703	Dibenzo[a,h]anthracene	0.023	ug/L	U	2/19/25	1
206440	Fluoranthene	0.023	ug/L	U	2/19/25	1
193395	Indeno(1,2,3-cd)pyrene	0.023	ug/L	U	2/19/25	1
91203	Naphthalene	0.023	ug/L	U	2/19/25	1
90120	Naphthalene, 1-methyl-	0.023	ug/L	U	2/19/25	1
91576	Naphthalene, 2-methyl-	0.023	ug/L	U	2/19/25	1
85018	Phenanthrene	0.023	ug/L	U	2/19/25	1
129000	Pyrene	0.023	ug/L	U	2/19/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	88	%Rec		2/19/25	1
1719068	Anthracene-D10	90	%Rec		2/19/25	1
63466717	Benzo[a]pyrene-D12	105	%Rec		2/19/25	1
81103799	D10-Fluorene (SS)	93	%Rec		2/19/25	1
1718521	D10-Pyrene	90	%Rec		2/19/25	1

Sample : 25074026

Information : 14

Matrix : Porewater

Collected : 2/12/2025 9:33:00AM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.026	ug/L	U	2/19/25	1
83329	Acenaphthene	0.026	ug/L	U	2/19/25	1
208968	Acenaphthylene	0.026	ug/L	U	2/19/25	1
120127	Anthracene	0.026	ug/L	U	2/19/25	1
56553	Benzo(a)anthracene	0.026	ug/L	U	2/19/25	1
50328	Benzo(a)pyrene	0.026	ug/L	U	2/19/25	1
191242	Benzo(g,h,i)perylene	0.026	ug/L	U	2/19/25	1
205992	Benzo[b]Fluoranthene	0.026	ug/L	U	2/19/25	1
207089	Benzo[k]fluoranthene	0.026	ug/L	U	2/19/25	1
218019	Chrysene	0.026	ug/L	U	2/19/25	1
53703	Dibenzo[a,h]anthracene	0.026	ug/L	U	2/19/25	1
206440	Fluoranthene	0.026	ug/L	U	2/19/25	1
193395	Indeno(1,2,3-cd)pyrene	0.026	ug/L	U	2/19/25	1
91203	Naphthalene	0.026	ug/L	U	2/19/25	1
90120	Naphthalene, 1-methyl-	0.026	ug/L	U	2/19/25	1
91576	Naphthalene, 2-methyl-	0.026	ug/L	U	2/19/25	1
85018	Phenanthrene	0.026	ug/L	U	2/19/25	1
129000	Pyrene	0.026	ug/L	U	2/19/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	86	%Rec		2/19/25	1
1719068	Anthracene-D10	83	%Rec		2/19/25	1
63466717	Benzo[a]pyrene-D12	99	%Rec		2/19/25	1
81103799	D10-Fluorene (SS)	90	%Rec		2/19/25	1
1718521	D10-Pyrene	82	%Rec		2/19/25	1

Sample : 25074028

Information : 15

Matrix : Porewater

Collected : 2/12/2025 10:25:00AM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.023	ug/L	U	2/19/25	1
83329	Acenaphthene	0.023	ug/L	U	2/19/25	1
208968	Acenaphthylene	0.023	ug/L	U	2/19/25	1
120127	Anthracene	0.023	ug/L	U	2/19/25	1
56553	Benzo(a)anthracene	0.023	ug/L	U	2/19/25	1
50328	Benzo(a)pyrene	0.023	ug/L	U	2/19/25	1
191242	Benzo(g,h,i)perylene	0.023	ug/L	U	2/19/25	1
205992	Benzo[b]Fluoranthene	0.023	ug/L	U	2/19/25	1
207089	Benzo[k]fluoranthene	0.023	ug/L	U	2/19/25	1
218019	Chrysene	0.023	ug/L	U	2/19/25	1
53703	Dibenzo[a,h]anthracene	0.023	ug/L	U	2/19/25	1
206440	Fluoranthene	0.023	ug/L	U	2/19/25	1
193395	Indeno(1,2,3-cd)pyrene	0.023	ug/L	U	2/19/25	1
91203	Naphthalene	0.023	ug/L	U	2/19/25	1
90120	Naphthalene, 1-methyl-	0.023	ug/L	U	2/19/25	1
91576	Naphthalene, 2-methyl-	0.023	ug/L	U	2/19/25	1
85018	Phenanthrene	0.023	ug/L	U	2/19/25	1
129000	Pyrene	0.023	ug/L	U	2/19/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	59	%Rec		2/19/25	1
1719068	Anthracene-D10	82	%Rec		2/19/25	1
63466717	Benzo[a]pyrene-D12	103	%Rec		2/19/25	1
81103799	D10-Fluorene (SS)	73	%Rec		2/19/25	1
1718521	D10-Pyrene	91	%Rec		2/19/25	1

Sample : 25074030

Information : 16

Matrix : Porewater

Collected : 2/12/2025 11:26:00AM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	32	ug/L		2/19/25	20
83329	Acenaphthene	56	ug/L		2/19/25	20
208968	Acenaphthylene	0.47	ug/L		2/19/25	1
120127	Anthracene	0.46	ug/L		2/19/25	1
56553	Benzo(a)anthracene	0.031	ug/L		2/19/25	1
50328	Benzo(a)pyrene	0.026	ug/L	U	2/19/25	1
191242	Benzo(g,h,i)perylene	0.026	ug/L	U	2/19/25	1
205992	Benzo[b]Fluoranthene	0.026	ug/L	U	2/19/25	1
207089	Benzo[k]fluoranthene	0.026	ug/L	U	2/19/25	1
218019	Chrysene	0.032	ug/L		2/19/25	1
53703	Dibenzo[a,h]anthracene	0.026	ug/L	U	2/19/25	1
206440	Fluoranthene	0.80	ug/L		2/19/25	1
193395	Indeno(1,2,3-cd)pyrene	0.026	ug/L	U	2/19/25	1
91203	Naphthalene	0.20	ug/L		2/19/25	1
90120	Naphthalene, 1-methyl-	4.5	ug/L		2/19/25	1
91576	Naphthalene, 2-methyl-	0.026	ug/L	U	2/19/25	1
85018	Phenanthrene	0.18	ug/L		2/19/25	1
129000	Pyrene	0.44	ug/L		2/19/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	84	%Rec		2/19/25	1
1719068	Anthracene-D10	91	%Rec		2/19/25	1
63466717	Benzo[a]pyrene-D12	110	%Rec		2/19/25	1
81103799	D10-Fluorene (SS)	91	%Rec		2/19/25	1
1718521	D10-Pyrene	88	%Rec		2/19/25	1

Sample : 25074032

Information : 16

Matrix : Porewater

Collected : 2/12/2025 11:26:00AM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	34	ug/L		2/19/25	20
83329	Acenaphthene	58	ug/L		2/19/25	20
208968	Acenaphthylene	0.51	ug/L		2/19/25	1
120127	Anthracene	0.48	ug/L		2/19/25	1
56553	Benzo(a)anthracene	0.030	ug/L		2/19/25	1
50328	Benzo(a)pyrene	0.026	ug/L	U	2/19/25	1
191242	Benzo(g,h,i)perylene	0.026	ug/L	U	2/19/25	1
205992	Benzo[b]Fluoranthene	0.026	ug/L	U	2/19/25	1
207089	Benzo[k]fluoranthene	0.026	ug/L	U	2/19/25	1
218019	Chrysene	0.034	ug/L		2/19/25	1
53703	Dibenzo[a,h]anthracene	0.026	ug/L	U	2/19/25	1
206440	Fluoranthene	0.82	ug/L		2/19/25	1
193395	Indeno(1,2,3-cd)pyrene	0.026	ug/L	U	2/19/25	1
91203	Naphthalene	0.22	ug/L		2/19/25	1
90120	Naphthalene, 1-methyl-	4.8	ug/L		2/19/25	1
91576	Naphthalene, 2-methyl-	0.026	ug/L	U	2/19/25	1
85018	Phenanthrene	0.19	ug/L		2/19/25	1
129000	Pyrene	0.44	ug/L		2/19/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	84	%Rec		2/19/25	1
1719068	Anthracene-D10	91	%Rec		2/19/25	1
63466717	Benzo[a]pyrene-D12	110	%Rec		2/19/25	1
81103799	D10-Fluorene (SS)	91	%Rec		2/19/25	1
1718521	D10-Pyrene	86	%Rec		2/19/25	1

Sample : 25074034

Information : blank

Matrix : Porewater

Collected : 2/11/2025 2:00:00PM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.023	ug/L	U	2/19/25	1
83329	Acenaphthene	0.023	ug/L	U	2/19/25	1
208968	Acenaphthylene	0.023	ug/L	U	2/19/25	1
120127	Anthracene	0.023	ug/L	U	2/19/25	1
56553	Benzo(a)anthracene	0.023	ug/L	U	2/19/25	1
50328	Benzo(a)pyrene	0.023	ug/L	U	2/19/25	1
191242	Benzo(g,h,i)perylene	0.023	ug/L	U	2/19/25	1
205992	Benzo[b]Fluoranthene	0.023	ug/L	U	2/19/25	1
207089	Benzo[k]fluoranthene	0.023	ug/L	U	2/19/25	1
218019	Chrysene	0.023	ug/L	U	2/19/25	1
53703	Dibenzo[a,h]anthracene	0.023	ug/L	U	2/19/25	1
206440	Fluoranthene	0.023	ug/L	U	2/19/25	1
193395	Indeno(1,2,3-cd)pyrene	0.023	ug/L	U	2/19/25	1
91203	Naphthalene	0.023	ug/L	U	2/19/25	1
90120	Naphthalene, 1-methyl-	0.023	ug/L	U	2/19/25	1
91576	Naphthalene, 2-methyl-	0.023	ug/L	U	2/19/25	1
85018	Phenanthrene	0.023	ug/L	U	2/19/25	1
129000	Pyrene	0.023	ug/L	U	2/19/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	89	%Rec		2/19/25	1
1719068	Anthracene-D10	89	%Rec		2/19/25	1
63466717	Benzo[a]pyrene-D12	106	%Rec		2/19/25	1
81103799	D10-Fluorene (SS)	94	%Rec		2/19/25	1
1718521	D10-Pyrene	86	%Rec		2/19/25	1

Sample : 25074036

Information : 1 SW

Matrix : Water

Collected : 2/10/2025 2:35:00PM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.027	ug/L	U	2/18/25	1
83329	Acenaphthene	0.027	ug/L	U	2/18/25	1
208968	Acenaphthylene	0.027	ug/L	U	2/18/25	1
120127	Anthracene	0.027	ug/L	U	2/18/25	1
56553	Benzo(a)anthracene	0.026	ug/L	J	2/18/25	1
50328	Benzo(a)pyrene	0.021	ug/L	J	2/18/25	1
191242	Benzo(g,h,i)perylene	0.015	ug/L	J	2/18/25	1
205992	Benzo[b]Fluoranthene	0.032	ug/L		2/18/25	1
207089	Benzo[k]fluoranthene	0.027	ug/L	U	2/18/25	1
218019	Chrysene	0.026	ug/L	J	2/18/25	1
53703	Dibenzo[a,h]anthracene	0.027	ug/L	U	2/18/25	1
206440	Fluoranthene	0.065	ug/L		2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	0.016	ug/L	J	2/18/25	1
91203	Naphthalene	0.027	ug/L	U	2/18/25	1
90120	Naphthalene, 1-methyl-	0.027	ug/L	U	2/18/25	1
91576	Naphthalene, 2-methyl-	0.027	ug/L	U	2/18/25	1
85018	Phenanthrene	0.057	ug/L		2/18/25	1
129000	Pyrene	0.046	ug/L		2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	86	%Rec		2/18/25	1
1719068	Anthracene-D10	77	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	99	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	91	%Rec		2/18/25	1
1718521	D10-Pyrene	88	%Rec		2/18/25	1

Sample : 25074038

Information : 12 SW

Matrix : Water

Collected : 2/11/2025 9:15:00AM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.027	ug/L	U	2/19/25	1
83329	Acenaphthene	0.027	ug/L	U	2/19/25	1
208968	Acenaphthylene	0.027	ug/L	U	2/19/25	1
120127	Anthracene	0.027	ug/L	U	2/19/25	1
56553	Benzo(a)anthracene	0.027	ug/L	U	2/19/25	1
50328	Benzo(a)pyrene	0.027	ug/L	U	2/19/25	1
191242	Benzo(g,h,i)perylene	0.027	ug/L	U	2/19/25	1
205992	Benzo[b]Fluoranthene	0.027	ug/L	U	2/19/25	1
207089	Benzo[k]fluoranthene	0.027	ug/L	U	2/19/25	1
218019	Chrysene	0.027	ug/L	U	2/19/25	1
53703	Dibenzo[a,h]anthracene	0.027	ug/L	U	2/19/25	1
206440	Fluoranthene	0.027	ug/L	U	2/19/25	1
193395	Indeno(1,2,3-cd)pyrene	0.027	ug/L	U	2/19/25	1
91203	Naphthalene	0.027	ug/L	U	2/19/25	1
90120	Naphthalene, 1-methyl-	0.027	ug/L	U	2/19/25	1
91576	Naphthalene, 2-methyl-	0.027	ug/L	U	2/19/25	1
85018	Phenanthrene	0.027	ug/L	U	2/19/25	1
129000	Pyrene	0.027	ug/L	U	2/19/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	94	%Rec		2/19/25	1
1719068	Anthracene-D10	83	%Rec		2/19/25	1
63466717	Benzo[a]pyrene-D12	109	%Rec		2/19/25	1
81103799	D10-Fluorene (SS)	94	%Rec		2/19/25	1
1718521	D10-Pyrene	92	%Rec		2/19/25	1

Sample : 25074040**Information :** 12 SW-FD**Matrix :** Water**Collected :** 2/11/2025 9:30:00AM**Parameter :** PAH**Prep Method:** 3535A - Solid Phase Extraction**Analysis Method:** 8270E-SIM - Semivolatiles by GC/MS-SIM Mode**Weight Basis :** Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.027	ug/L	U	2/19/25	1
83329	Acenaphthene	0.027	ug/L	U	2/19/25	1
208968	Acenaphthylene	0.027	ug/L	U	2/19/25	1
120127	Anthracene	0.027	ug/L	U	2/19/25	1
56553	Benzo(a)anthracene	0.027	ug/L	U	2/19/25	1
50328	Benzo(a)pyrene	0.027	ug/L	U	2/19/25	1
191242	Benzo(g,h,i)perylene	0.027	ug/L	U	2/19/25	1
205992	Benzo[b]Fluoranthene	0.027	ug/L	U	2/19/25	1
207089	Benzo[k]fluoranthene	0.027	ug/L	U	2/19/25	1
218019	Chrysene	0.027	ug/L	U	2/19/25	1
53703	Dibenzo[a,h]anthracene	0.027	ug/L	U	2/19/25	1
206440	Fluoranthene	0.027	ug/L	U	2/19/25	1
193395	Indeno(1,2,3-cd)pyrene	0.027	ug/L	U	2/19/25	1
91203	Naphthalene	0.027	ug/L	U	2/19/25	1
90120	Naphthalene, 1-methyl-	0.027	ug/L	U	2/19/25	1
91576	Naphthalene, 2-methyl-	0.027	ug/L	U	2/19/25	1
85018	Phenanthrene	0.027	ug/L	U	2/19/25	1
129000	Pyrene	0.027	ug/L	U	2/19/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	86	%Rec		2/19/25	1
1719068	Anthracene-D10	80	%Rec		2/19/25	1
63466717	Benzo[a]pyrene-D12	104	%Rec		2/19/25	1
81103799	D10-Fluorene (SS)	91	%Rec		2/19/25	1
1718521	D10-Pyrene	91	%Rec		2/19/25	1

Sample : 25074002 Matrix Spike

Information : 2

Matrix : Porewater

Collected : 2/11/2025 9:50:00AM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
208968	Acenaphthylene	67	%Rec		2/18/25	1
120127	Anthracene	82	%Rec		2/18/25	1
56553	Benzo(a)anthracene	108	%Rec		2/18/25	1
50328	Benzo(a)pyrene	104	%Rec		2/18/25	1
191242	Benzo(g,h,i)perylene	95	%Rec		2/18/25	1
205992	Benzo[b]Fluoranthene	95	%Rec		2/18/25	1
207089	Benzo[k]fluoranthene	103	%Rec		2/18/25	1
218019	Chrysene	88	%Rec		2/18/25	1
53703	Dibenzo[a,h]anthracene	129	%Rec		2/18/25	1
206440	Fluoranthene	94	%Rec		2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	120	%Rec		2/18/25	1
91203	Naphthalene	76	%Rec		2/18/25	1
90120	Naphthalene, 1-methyl-	77	%Rec		2/18/25	1
91576	Naphthalene, 2-methyl-	72	%Rec		2/18/25	1
85018	Phenanthrene	75	%Rec		2/18/25	1
129000	Pyrene	79	%Rec		2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	75	%Rec		2/18/25	1
1719068	Anthracene-D10	81	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	104	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	86	%Rec		2/18/25	1
1718521	D10-Pyrene	84	%Rec		2/18/25	1

Sample : 25074036 Matrix Spike

Information : 1 SW

Matrix : Water

Collected : 2/10/2025 2:35:00PM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
86737	9H-Fluorene	86	%Rec		2/18/25	1
83329	Acenaphthene	79	%Rec		2/18/25	1
208968	Acenaphthylene	81	%Rec		2/18/25	1
120127	Anthracene	80	%Rec		2/18/25	1
56553	Benzo(a)anthracene	98	%Rec		2/18/25	1
50328	Benzo(a)pyrene	93	%Rec		2/18/25	1
191242	Benzo(g,h,i)perylene	86	%Rec		2/18/25	1
205992	Benzo[b]Fluoranthene	89	%Rec		2/18/25	1
207089	Benzo[k]fluoranthene	99	%Rec		2/18/25	1
218019	Chrysene	85	%Rec		2/18/25	1
53703	Dibenzo[a,h]anthracene	121	%Rec		2/18/25	1
206440	Fluoranthene	91	%Rec		2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	110	%Rec		2/18/25	1
91203	Naphthalene	74	%Rec		2/18/25	1
90120	Naphthalene, 1-methyl-	77	%Rec		2/18/25	1
91576	Naphthalene, 2-methyl-	76	%Rec		2/18/25	1
85018	Phenanthrene	84	%Rec		2/18/25	1
129000	Pyrene	75	%Rec		2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	81	%Rec		2/18/25	1
1719068	Anthracene-D10	74	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	95	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	86	%Rec		2/18/25	1
1718521	D10-Pyrene	81	%Rec		2/18/25	1

Sample : 25074002 Matrix Spike#2

Information : 2

Matrix : Porewater

Collected : 2/11/2025 9:50:00AM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
208968	Acenaphthylene	69	%Rec		2/18/25	1
120127	Anthracene	82	%Rec		2/18/25	1
56553	Benzo(a)anthracene	106	%Rec		2/18/25	1
50328	Benzo(a)pyrene	104	%Rec		2/18/25	1
191242	Benzo(g,h,i)perylene	98	%Rec		2/18/25	1
205992	Benzo[b]Fluoranthene	94	%Rec		2/18/25	1
207089	Benzo[k]fluoranthene	102	%Rec		2/18/25	1
218019	Chrysene	88	%Rec		2/18/25	1
53703	Dibenzo[a,h]anthracene	132	%Rec		2/18/25	1
206440	Fluoranthene	94	%Rec		2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	123	%Rec		2/18/25	1
91203	Naphthalene	77	%Rec		2/18/25	1
90120	Naphthalene, 1-methyl-	77	%Rec		2/18/25	1
91576	Naphthalene, 2-methyl-	72	%Rec		2/18/25	1
85018	Phenanthrene	74	%Rec		2/18/25	1
129000	Pyrene	80	%Rec		2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	74	%Rec		2/18/25	1
1719068	Anthracene-D10	81	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	106	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	84	%Rec		2/18/25	1
1718521	D10-Pyrene	85	%Rec		2/18/25	1

Sample : 25074036 Matrix Spike#2

Information : 1 SW

Matrix : Water

Collected : 2/10/2025 2:35:00PM

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
86737	9H-Fluorene	83	%Rec		2/18/25	1
83329	Acenaphthene	75	%Rec		2/18/25	1
208968	Acenaphthylene	78	%Rec		2/18/25	1
120127	Anthracene	84	%Rec		2/18/25	1
56553	Benzo(a)anthracene	108	%Rec		2/18/25	1
50328	Benzo(a)pyrene	103	%Rec		2/18/25	1
191242	Benzo(g,h,i)perylene	96	%Rec		2/18/25	1
205992	Benzo[b]Fluoranthene	99	%Rec		2/18/25	1
207089	Benzo[k]fluoranthene	107	%Rec		2/18/25	1
218019	Chrysene	93	%Rec		2/18/25	1
53703	Dibenzo[a,h]anthracene	135	%Rec		2/18/25	1
206440	Fluoranthene	98	%Rec		2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	124	%Rec		2/18/25	1
91203	Naphthalene	71	%Rec		2/18/25	1
90120	Naphthalene, 1-methyl-	74	%Rec		2/18/25	1
91576	Naphthalene, 2-methyl-	73	%Rec		2/18/25	1
85018	Phenanthrene	88	%Rec		2/18/25	1
129000	Pyrene	81	%Rec		2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	80	%Rec		2/18/25	1
1719068	Anthracene-D10	78	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	105	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	84	%Rec		2/18/25	1
1718521	D10-Pyrene	88	%Rec		2/18/25	1

Sample : 103W021325BL1 Blank

Information : Blank

Matrix : Liquid

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.025	ug/L	U	2/18/25	1
83329	Acenaphthene	0.025	ug/L	U	2/18/25	1
208968	Acenaphthylene	0.025	ug/L	U	2/18/25	1
120127	Anthracene	0.025	ug/L	U	2/18/25	1
56553	Benzo(a)anthracene	0.025	ug/L	U	2/18/25	1
50328	Benzo(a)pyrene	0.025	ug/L	U	2/18/25	1
191242	Benzo(g,h,i)perylene	0.025	ug/L	U	2/18/25	1
205992	Benzo[b]Fluoranthene	0.025	ug/L	U	2/18/25	1
207089	Benzo[k]fluoranthene	0.025	ug/L	U	2/18/25	1
218019	Chrysene	0.025	ug/L	U	2/18/25	1
53703	Dibenzo[a,h]anthracene	0.025	ug/L	U	2/18/25	1
206440	Fluoranthene	0.025	ug/L	U	2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	0.025	ug/L	U	2/18/25	1
91203	Naphthalene	0.0092	ug/L	J	2/18/25	1
90120	Naphthalene, 1-methyl-	0.025	ug/L	U	2/18/25	1
91576	Naphthalene, 2-methyl-	0.025	ug/L	U	2/18/25	1
85018	Phenanthrene	0.025	ug/L	U	2/18/25	1
129000	Pyrene	0.025	ug/L	U	2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	78	%Rec		2/18/25	1
1719068	Anthracene-D10	87	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	106	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	92	%Rec		2/18/25	1
1718521	D10-Pyrene	91	%Rec		2/18/25	1

Sample : 103W021325BL2 Blank

Information : Blank

Matrix : Liquid

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
86737	9H-Fluorene	0.025	ug/L	U	2/18/25	1
83329	Acenaphthene	0.025	ug/L	U	2/18/25	1
208968	Acenaphthylene	0.025	ug/L	U	2/18/25	1
120127	Anthracene	0.025	ug/L	U	2/18/25	1
56553	Benzo(a)anthracene	0.025	ug/L	U	2/18/25	1
50328	Benzo(a)pyrene	0.025	ug/L	U	2/18/25	1
191242	Benzo(g,h,i)perylene	0.025	ug/L	U	2/18/25	1
205992	Benzo[b]Fluoranthene	0.025	ug/L	U	2/18/25	1
207089	Benzo[k]fluoranthene	0.025	ug/L	U	2/18/25	1
218019	Chrysene	0.025	ug/L	U	2/18/25	1
53703	Dibenzo[a,h]anthracene	0.025	ug/L	U	2/18/25	1
206440	Fluoranthene	0.025	ug/L	U	2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	0.025	ug/L	U	2/18/25	1
91203	Naphthalene	0.011	ug/L	J	2/18/25	1
90120	Naphthalene, 1-methyl-	0.025	ug/L	U	2/18/25	1
91576	Naphthalene, 2-methyl-	0.025	ug/L	U	2/18/25	1
85018	Phenanthrene	0.025	ug/L	U	2/18/25	1
129000	Pyrene	0.025	ug/L	U	2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	82	%Rec		2/18/25	1
1719068	Anthracene-D10	84	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	98	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	93	%Rec		2/18/25	1
1718521	D10-Pyrene	88	%Rec		2/18/25	1

Sample : 103W021325L1 Lab Control Std

Information : Lab Control Standard

Matrix : Liquid

Parameter : PAH

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8270E-SIM - Semivolatiles by GC/MS-SIM Mode

Weight Basis : Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
86737	9H-Fluorene	92	%Rec		2/18/25	1
83329	Acenaphthene	81	%Rec		2/18/25	1
208968	Acenaphthylene	73	%Rec		2/18/25	1
120127	Anthracene	95	%Rec		2/18/25	1
56553	Benzo(a)anthracene	112	%Rec		2/18/25	1
50328	Benzo(a)pyrene	110	%Rec		2/18/25	1
191242	Benzo(g,h,i)perylene	106	%Rec		2/18/25	1
205992	Benzo[b]Fluoranthene	103	%Rec		2/18/25	1
207089	Benzo[k]fluoranthene	109	%Rec		2/18/25	1
218019	Chrysene	98	%Rec		2/18/25	1
53703	Dibenzo[a,h]anthracene	139	%Rec		2/18/25	1
206440	Fluoranthene	105	%Rec		2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	131	%Rec		2/18/25	1
91203	Naphthalene	72	%Rec		2/18/25	1
90120	Naphthalene, 1-methyl-	75	%Rec		2/18/25	1
91576	Naphthalene, 2-methyl-	73	%Rec		2/18/25	1
85018	Phenanthrene	94	%Rec		2/18/25	1
129000	Pyrene	87	%Rec		2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	78	%Rec		2/18/25	1
1719068	Anthracene-D10	92	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	110	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	96	%Rec		2/18/25	1
1718521	D10-Pyrene	91	%Rec		2/18/25	1

Sample : 103W021325L3 Lab Control Std**Information :** Lab Control Standard**Matrix :** Liquid**Parameter :** PAH**Prep Method:** 3535A - Solid Phase Extraction**Analysis Method:** 8270E-SIM - Semivolatiles by GC/MS-SIM Mode**Weight Basis :** Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
86737	9H-Fluorene	84	%Rec		2/18/25	1
83329	Acenaphthene	75	%Rec		2/18/25	1
208968	Acenaphthylene	71	%Rec		2/18/25	1
120127	Anthracene	90	%Rec		2/18/25	1
56553	Benzo(a)anthracene	108	%Rec		2/18/25	1
50328	Benzo(a)pyrene	108	%Rec		2/18/25	1
191242	Benzo(g,h,i)perylene	104	%Rec		2/18/25	1
205992	Benzo[b]Fluoranthene	103	%Rec		2/18/25	1
207089	Benzo[k]fluoranthene	105	%Rec		2/18/25	1
218019	Chrysene	96	%Rec		2/18/25	1
53703	Dibenzo[a,h]anthracene	133	%Rec		2/18/25	1
206440	Fluoranthene	102	%Rec		2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	126	%Rec		2/18/25	1
91203	Naphthalene	67	%Rec		2/18/25	1
90120	Naphthalene, 1-methyl-	69	%Rec		2/18/25	1
91576	Naphthalene, 2-methyl-	68	%Rec		2/18/25	1
85018	Phenanthrene	89	%Rec		2/18/25	1
129000	Pyrene	86	%Rec		2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	74	%Rec		2/18/25	1
1719068	Anthracene-D10	86	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	104	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	86	%Rec		2/18/25	1
1718521	D10-Pyrene	89	%Rec		2/18/25	1

Sample : 103W021325L2 Lab Control Std#2**Information :** Lab Control Standard Dup.**Matrix :** Liquid**Parameter :** PAH**Prep Method:** 3535A - Solid Phase Extraction**Analysis Method:** 8270E-SIM - Semivolatiles by GC/MS-SIM Mode**Weight Basis :** Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
86737	9H-Fluorene	89	%Rec		2/18/25	1
83329	Acenaphthene	79	%Rec		2/18/25	1
208968	Acenaphthylene	73	%Rec		2/18/25	1
120127	Anthracene	93	%Rec		2/18/25	1
56553	Benzo(a)anthracene	113	%Rec		2/18/25	1
50328	Benzo(a)pyrene	110	%Rec		2/18/25	1
191242	Benzo(g,h,i)perylene	106	%Rec		2/18/25	1
205992	Benzo[b]Fluoranthene	103	%Rec		2/18/25	1
207089	Benzo[k]fluoranthene	110	%Rec		2/18/25	1
218019	Chrysene	98	%Rec		2/18/25	1
53703	Dibenzo[a,h]anthracene	139	%Rec		2/18/25	1
206440	Fluoranthene	103	%Rec		2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	131	%Rec		2/18/25	1
91203	Naphthalene	70	%Rec		2/18/25	1
90120	Naphthalene, 1-methyl-	73	%Rec		2/18/25	1
91576	Naphthalene, 2-methyl-	72	%Rec		2/18/25	1
85018	Phenanthrene	91	%Rec		2/18/25	1
129000	Pyrene	88	%Rec		2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	77	%Rec		2/18/25	1
1719068	Anthracene-D10	90	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	110	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	93	%Rec		2/18/25	1
1718521	D10-Pyrene	93	%Rec		2/18/25	1

Sample : 103W021325L4 Lab Control Std#2**Information :** Lab Control Standard Dup.**Matrix :** Liquid**Parameter :** PAH**Prep Method:** 3535A - Solid Phase Extraction**Analysis Method:** 8270E-SIM - Semivolatiles by GC/MS-SIM Mode**Weight Basis :** Unspecified

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
86737	9H-Fluorene	75	%Rec		2/18/25	1
83329	Acenaphthene	69	%Rec		2/18/25	1
208968	Acenaphthylene	65	%Rec		2/18/25	1
120127	Anthracene	82	%Rec		2/18/25	1
56553	Benzo(a)anthracene	105	%Rec		2/18/25	1
50328	Benzo(a)pyrene	104	%Rec		2/18/25	1
191242	Benzo(g,h,i)perylene	101	%Rec		2/18/25	1
205992	Benzo[b]Fluoranthene	100	%Rec		2/18/25	1
207089	Benzo[k]fluoranthene	101	%Rec		2/18/25	1
218019	Chrysene	91	%Rec		2/18/25	1
53703	Dibenzo[a,h]anthracene	131	%Rec		2/18/25	1
206440	Fluoranthene	95	%Rec		2/18/25	1
193395	Indeno(1,2,3-cd)pyrene	123	%Rec		2/18/25	1
91203	Naphthalene	62	%Rec		2/18/25	1
90120	Naphthalene, 1-methyl-	63	%Rec		2/18/25	1
91576	Naphthalene, 2-methyl-	62	%Rec		2/18/25	1
85018	Phenanthrene	81	%Rec		2/18/25	1
129000	Pyrene	81	%Rec		2/18/25	1
Surrogate Compounds:						
93951974	Acenaphthylene-D8	69	%Rec		2/18/25	1
1719068	Anthracene-D10	80	%Rec		2/18/25	1
63466717	Benzo[a]pyrene-D12	102	%Rec		2/18/25	1
81103799	D10-Fluorene (SS)	79	%Rec		2/18/25	1
1718521	D10-Pyrene	85	%Rec		2/18/25	1



US EPA Region 10 Laboratory



Multi-Sample Final Report

Project Code : SFP-214A

Site : McCORMICK & BAXTER: Porewater Sampling

Contact : Anne Christopher

Account : 2025T10P000FD210P9LA00

Parameter(s): TOC

Analyte: *90081 - Non-Purgeable Organic Carbon (NPOC)

Weight Basis : N/A

Prep Method(s): SM5310B - Total Organic Carbon, Combustion-Infrared Method, Standard Methods

Analytical Method: SM5310B - Total Organic Carbon, Combustion-Infrared Method, Standard Methods

Target Analyte Results:

Sample	Information	Lab Matrix	Result	Unit	Qual.	Analysis Date	Dilution
25074001 sam	1	Flt. Porewater	2.88	mg/L		2/14/25	1
25074023 sam	12	Flt. Porewater	1.0	mg/L	U	2/14/25	1
25074035 sam	blank	Flt. Porewater	1.0	mg/L	U	2/14/25	1
25074037 sam	1 SW	Filtered	2.33	mg/L		2/14/25	1
25074039 sam	12 SW	Filtered	1.30	mg/L		2/14/25	1
25074041 sam	12 SW-FD	Filtered	1.18	mg/L		2/14/25	1
25074001 du	1	Flt. Porewater	2.89	mg/L		2/14/25	1
25074037 du	1 SW	Filtered	2.35	mg/L		2/14/25	1
IW021325BBL blk	Blank	Filtered	1.0	mg/L	U	2/14/25	1

Spiked Compounds:

Sample	Information	Lab Matrix	Result	Unit	Qual.	Analysis Date	Dilution
25074001 ms	1	Flt. Porewater	101	%Rec		2/14/25	1
25074037 ms	1 SW	Filtered	101	%Rec		2/14/25	1
25074001 msd	1	Flt. Porewater	100	%Rec		2/14/25	1
25074037 msd	1 SW	Filtered	100	%Rec		2/14/25	1
IW021325BL1 lcs	Lab Control Standard	Filtered	96	%Rec		2/14/25	1



US EPA Region 10 Laboratory

Multi-Sample Final Report



Project Code : SFP-214A

Site : McCORMICK & BAXTER: Porewater Sampling

Contact : Anne Christopher

Account : 2025T10P000FD210P9LA00

Parameter(s): Alkalinity

Analyte: *90004 - Alkalinity as CaCO₃

Weight Basis : N/A

Prep Method(s): SM2320B - Alkalinity, Titration Method, Standard Methods

Analytical Method: SM2320B - Alkalinity, Titration Method, Standard Methods

Target Analyte Results:

Sample	Information	Lab Matrix	Result	Unit	Qual.	Analysis Date	Dilution
25074001 sam	1	Flt. Porewater	32.6	mg/L		2/20/25	1
25074023 sam	12	Flt. Porewater	33.8	mg/L		2/20/25	1
25074035 sam	blank	Flt. Porewater	5.0	mg/L	U	2/20/25	1
25074037 sam	1 SW	Filtered	30.2	mg/L		2/20/25	1
25074039 sam	12 SW	Filtered	30.3	mg/L		2/20/25	1
25074041 sam	12 SW-FD	Filtered	29.8	mg/L		2/20/25	1
25074001 du	1	Flt. Porewater	32.2	mg/L		2/20/25	1
25074037 du	1 SW	Filtered	29.7	mg/L		2/20/25	1
IW022025ABL blk	Blank	Liquid	5.0	mg/L	U	2/20/25	1

Spiked Compounds:

Sample	Information	Lab Matrix	Result	Unit	Qual.	Analysis Date	Dilution
25074001 ms	1	Flt. Porewater	97	%Rec		2/20/25	1
25074037 ms	1 SW	Filtered	96	%Rec		2/20/25	1
25074001 msd	1	Flt. Porewater	97	%Rec		2/20/25	1
25074037 msd	1 SW	Filtered	99	%Rec		2/20/25	1
IW022025AL1 lcs	Lab Control Standard	Liquid	104	%Rec		2/20/25	1



US EPA Region 10 Laboratory



Multi-Analyte Final Report

Project Code : SFP-214A

Site : McCORMICK & BAXTER: Porewater Sampling

Contact : Anne Christopher

Account : 2025T10P000FD210P9LA00

Sample : 25074000

Information : 1

Matrix : Porewater

Collected : 2/10/2025 2:15:00PM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.083	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	93	%Rec		2/20/25	1

Sample : 25074002

Information : 2

Matrix : Porewater

Collected : 2/11/2025 9:50:00AM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.085	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	80	%Rec		2/20/25	1

Sample : 25074004

Information : 3

Matrix : Porewater

Collected : 2/11/2025 10:35:00AM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.082	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	95	%Rec		2/20/25	1

Sample : 25074006

Information : 4

Matrix : Porewater

Collected : 2/11/2025 11:15:00AM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.074	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	102	%Rec		2/20/25	1

Sample : 25074008

Information : 5

Matrix : Porewater

Collected : 2/11/2025 12:15:00PM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.074	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	99	%Rec		2/20/25	1

Sample : 25074010

Information : 6

Matrix : Porewater

Collected : 2/11/2025 1:10:00PM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.074	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	99	%Rec		2/20/25	1

Sample : 25074012

Information : 7

Matrix : Porewater

Collected : 2/11/2025 1:05:00PM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.078	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	94	%Rec		2/20/25	1

Sample : 25074014

Information : 8

Matrix : Porewater

Collected : 2/12/2025 2:25:00PM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.083	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	94	%Rec		2/20/25	1

Sample : 25074016

Information : 9

Matrix : Porewater

Collected : 2/12/2025 1:59:00PM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.086	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	96	%Rec		2/20/25	1

Sample : 25074018

Information : 10

Matrix : Porewater

Collected : 2/12/2025 1:29:00PM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.083	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	100	%Rec		2/20/25	1

Sample : 25074020

Information : 11

Matrix : Porewater

Collected : 2/10/2025 4:00:00PM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.083	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	101	%Rec		2/20/25	1

Sample : 25074022

Information : 12

Matrix : Porewater

Collected : 2/11/2025 8:55:00AM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.090	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	97	%Rec		2/20/25	1

Sample : 25074024

Information : 13

Matrix : Porewater

Collected : 2/10/2025 4:20:00PM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.074	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	105	%Rec		2/20/25	1

Sample : 25074026

Information : 14

Matrix : Porewater

Collected : 2/12/2025 9:33:00AM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.082	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	87	%Rec		2/20/25	1

Sample : 25074028

Information : 15

Matrix : Porewater

Collected : 2/12/2025 10:25:00AM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.074	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	97	%Rec		2/20/25	1

Sample : 25074030

Information : 16

Matrix : Porewater

Collected : 2/12/2025 11:26:00AM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.083	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	90	%Rec		2/20/25	1

Sample : 25074032

Information : 16

Matrix : Porewater

Collected : 2/12/2025 11:26:00AM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.083	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	81	%Rec		2/20/25	1

Sample : 25074034

Information : blank

Matrix : Porewater

Collected : 2/11/2025 2:00:00PM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.074	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	96	%Rec		2/20/25	1

Sample : 25074036

Information : 1 SW

Matrix : Water

Collected : 2/10/2025 2:35:00PM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.086	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	96	%Rec		2/20/25	1

Sample : 25074038

Information : 12 SW

Matrix : Water

Collected : 2/11/2025 9:15:00AM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.086	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	100	%Rec		2/20/25	1

Sample : 25074040**Information :** 12 SW-FD**Matrix :** Water**Collected :** 2/11/2025 9:30:00AM**Parameter :** PCP**Fraction :** N/A**Prep Method:** 3535A - Solid Phase Extraction**Analysis Method:** 8041A - Phenols by GC/ECD**Weight Basis :** N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.085	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	110	%Rec		2/20/25	1

Sample : 25074002 Matrix Spike**Information :** 2**Matrix :** Porewater**Collected :** 2/11/2025 9:50:00AM**Parameter :** PCP**Fraction :** N/A**Prep Method:** 3535A - Solid Phase Extraction**Analysis Method:** 8041A - Phenols by GC/ECD**Weight Basis :** N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
87865	Pentachlorophenol	90	%Rec		2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	87	%Rec		2/20/25	1

Sample : 25074036 Matrix Spike**Information :** 1 SW**Matrix :** Water**Collected :** 2/10/2025 2:35:00PM**Parameter :** PCP**Fraction :** N/A**Prep Method:** 3535A - Solid Phase Extraction**Analysis Method:** 8041A - Phenols by GC/ECD**Weight Basis :** N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
87865	Pentachlorophenol	91	%Rec		2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	97	%Rec		2/20/25	1

Sample : 25074002 Matrix Spike#2

Information : 2

Matrix : Porewater

Collected : 2/11/2025 9:50:00AM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
87865	Pentachlorophenol	84	%Rec		2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	82	%Rec		2/20/25	1

Sample : 25074036 Matrix Spike#2

Information : 1 SW

Matrix : Water

Collected : 2/10/2025 2:35:00PM

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
87865	Pentachlorophenol	92	%Rec		2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	97	%Rec		2/20/25	1

Sample : 103W021325BL1 Blank

Information : Blank

Matrix : Liquid

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.080	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	89	%Rec		2/20/25	1

Sample : 103W021325BL2 Blank

Information : Blank

Matrix : Liquid

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
87865	Pentachlorophenol	0.080	ug/L	U	2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	93	%Rec		2/20/25	1

Sample : 103W021325L1 Lab Control Std

Information : Lab Control Standard

Matrix : Liquid

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
87865	Pentachlorophenol	93	%Rec		2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	103	%Rec		2/20/25	1

Sample : 103W021325L3 Lab Control Std

Information : Lab Control Standard

Matrix : Liquid

Parameter : PCP

Fraction : N/A

Prep Method: 3535A - Solid Phase Extraction

Analysis Method: 8041A - Phenols by GC/ECD

Weight Basis : N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
87865	Pentachlorophenol	99	%Rec		2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	109	%Rec		2/20/25	1

Sample : 103W021325L2 Lab Control Std#2**Information :** Lab Control Standard Dup.**Matrix :** Liquid**Parameter :** PCP**Fraction :** N/A**Prep Method:** 3535A - Solid Phase Extraction**Analysis Method:** 8041A - Phenols by GC/ECD**Weight Basis :** N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
87865	Pentachlorophenol	94	%Rec		2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	107	%Rec		2/20/25	1

Sample : 103W021325L4 Lab Control Std#2**Information :** Lab Control Standard Dup.**Matrix :** Liquid**Parameter :** PCP**Fraction :** N/A**Prep Method:** 3535A - Solid Phase Extraction**Analysis Method:** 8041A - Phenols by GC/ECD**Weight Basis :** N/A

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
87865	Pentachlorophenol	86	%Rec		2/20/25	1
Surrogate Compounds:						
118796	Phenol, 2,4,6-tribromo	97	%Rec		2/20/25	1

2. cPAH Calculation

Benzo(a)anthracene	0.1
Benzo(a)pyrene	1
Benzo(b)fluoranthene	0.1
Benzo(k)fluoranthene	0.01
Chrysene	0.001
Dibenzo(a,h)anthracene	1
Indeno(1,2,3-cd)pyrene	0.1

Sample	Total cPAH
25074030	0.03
25074032	0.03
25074036	0.03

3. Biotic Ligand Model Output

Ver 3.41.2.12g, build 2015-10-12		
C:\Program Files (x86)\Biotic Ligand Model - Research Mode\Model\CuOH		
C:\Users\BNICKEL\OneDrive - Environmental Protection Agency (EPA)\GD		
/S C:\USERS\BNICKEL\ONEDRIVE - ENVIRONMENTAL PROTECTION A		
Site Label	Sample Label	Final Acute Value
		(FAV), ug/L
"KE_Willamette "	"Surface Water 12 "	7.58

5%le_10-11-07.dat		
WS_Manager\K_Emorey_Willamette_BLM.blm		
AGENCY (EPA)\GDWS_MANAGER\K_EMORY_WILLAMETTE_BLM.SCR,		
CMC	CCC	Cu
(CMC=FAV/2), ug/L	(CCC=FAV/ACR), ug/L	ug/L
3.79	2.35	5.00

/W /QQ /VER3.41 /O3 /K1 /L				
Acute Toxic Units	Chronic Toxic	Censored Flag		
(Acute TU=Cu/CMC)	(Chronic TU=	(0 = quantified, 1 = BDL)		
1.32	2.13	0.00		

4. Porewater Sampling Logs

POC
Ground Water Sampling Log

Site Name: ~~MCCORMICK & BARTON~~
Well Depth(Ft-BTOC¹):

Well #: MB-SW-01 Date: 2/10/25
Screen Interval(Ft): 16-22" 2:15 PM
-4001 14:20

Well Dia.: —

Casing Material: SS Sampling Device: Peristaltic
PUMP PT

Pump placement(Ft from TOC²):

Measuring Point: —

Water level (static)(Ft): —

Water level (pumping)(Ft): —

Pump rate(Liter/min): 455 mL/min

Sampling Personnel: Brent Richmond
JES SANJCH

Other info: (such as sample numbers, weather conditions and field notes)

SUNNY, COLD = 46°F

Water Quality Indicator Parameters

Time	Pumping rates (L/Min)	Water level (ft)	DO (mg/L)	ORP (mv)	SEC ³	Turb. (NTU)	pH	Temp. (C°)	Volume pumped (L)
1355	0.55	—	1.5	174.1	54.7	15.13	6.80	4.7	
1358			1.0	170.3	54.6	15.28	6.74	4.7	
1401			1.0	161.3	54.5	12.90	6.67	4.7	
1404	0.55		1.1	153.0	54.4	5.08	6.66	4.7	
1407			1.2	147.8	54.6	4.50	6.65	4.7	
1410			1.2	141.9	55.0	3.95	6.65	4.9	
14:29			12.7	82.8	57.2	5.58	7.57	6.5	

Type of Samples collected:

Table continues on back, if needed

SW YSI [-4036 total
-4037 dissolved]

Sample #'s

TIME

Stabilization Criteria

GBS location

45.58004 -122.74446

25074000 1415
2574001 1420
2574036 1435
2574037 1440

D.O. +/- 0.3 mg/l
Turb. +/- 10%
S.C. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

1 casing volume was:

Total volume purged prior to sample collection:

¹BTOC-Below Top of Casing

²TOC-Top of Casing

³Specific Electrical Conductance

Ground Water Sampling Log

Site Name: McCormick & Boster Well #: M13-PN-02 Date: 2/11/25
 Well Depth(Ft-BTOC¹): Screen Interval(Ft): 16" - 20"
 Well Dia.: Casing Material: Sampling Device: Peristaltic

Pump placement(Ft from TOC²):

Measuring Point: Water level (static)(Ft):

Water level (pumping)(Ft): Pump rate(Liter/min): 0.40

Sampling Personnel: Brent Richmond, Meghan Dunn

Other info: (such as sample numbers, weather conditions and field notes)

Sunny

Water Quality Indicator Parameters

Time	Pumping rates (L/Min)	Water level (ft)	DO (mg/L)	ORP (mv)	SEC ³ 115 / cm	Turb. (NTU)	pH	Temp. (C°)	Volume pumped (L)
1037 450			0.4	-108.0	0.227	33.48	6.68	6.0	
1041			-0.1	-112.7	0.228	8.18	6.72	6.4	
1045			-0.2	-117.3	0.228	5.92	6.73	6.4	
451 → 0930 SW			12.9	280	0.091	15.5	7.04	4.6	

Type of Samples collected:

Table continues on back, if needed

GPS location 45.57910

-122.74536

Sample Time
 25074002 - Tot. 0950
 25074003 - Diss. 10:05

Stabilization Criteria

D.O. +/- 0.3 mg/l
 Turb. +/- 10%
 S.C. +/- 3%
 ORP +/- 10 mV
 pH +/- 0.1 unit

1 casing volume was:

Total volume purged prior to sample collection:

¹BTOC-Below Top of Casing

²TOC-Top of Casing

³Specific Electrical Conductance

Ground Water Sampling Log

Site Name: *McCormick & Baxter*
Well Depth(Ft-BTOC¹):

Well #: *MB - PJ - 03*
Screen Interval(Ft):

Date: *2/11/25*

Well Dia.:

Casing Material:

Sampling Device: *Peristaltic Pump*

Pump placement(Ft from TOC²):

Measuring Point:

Water level (static)(Ft):

Water level (pumping)(Ft):

Pump rate(Liter/min): *0.5 L/min or 500 ml/min*

Sampling Personnel:

Other info: (such as sample numbers, weather conditions and field notes)

2' x 5' of ACB missing

Water Quality Indicator Parameters

Time	Pumping rates (L/Min)	Water level (ft)	DO (mg/L)	ORP (mv)	SEC ³	Turb. (NTU)	pH	Temp. (C°)	Volume pumped (L)
1007	.5/min		0.4	-84.2	0.382	3.46	6.65	7.5	
1010			0.1	-92.9	0.382	5.45	6.67	7.4	
1013			-0.0	-98.0	0.382	3.58	6.68	7.5	
1016			-0.1	-101.1	0.382	2.86	6.69	7.6	
1019			-0.1	-105.7	0.581	2.70	6.70	7.5	
1022			-0.1	-104.9	0.381	2.64	6.70	7.4	
1030			13.5	106.1	0.091	5.3	7.17	4.4	

Type of Samples collected:

25074004 Total PW 1035
25074005 Dissolved PW 1040

Table continues on back, if needed

Stabilization Criteria

D.O. +/- 0.3 mg/l
Turb. +/- 10%
S.C. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

In a 1 foot amp of ACB
902

1035 45.57876 -122.74548

1 casing volume was:

Total volume purged prior to sample collection:

¹BTOC-Below Top of Casing

²TOC-Top of Casing

³Specific Electrical Conductance

Ground Water Sampling Log

Site Name: *McComaz + Baxter*
Well Depth(Ft-BTOC¹):

Well #: *MJB PW 04*
Screen Interval(Ft):

Date: *2/11/25*

Well Dia.:

Casing Material:

Sampling Device: *peristaltic pump*

Pump placement(Ft from TOC²):

Measuring Point:

Water level (static)(Ft):

Water level (pumping)(Ft):

Pump rate(Liter/min): *0.304*

Sampling Personnel: *Ted Januch*

Other info: (such as sample numbers, weather conditions and field notes)

SUNNY ~40°F 1' GAP IN ACB

Water Quality Indicator Parameters

Time	Pumping rates (L/Min)	Water level (ft)	DO (mg/L)	ORP (mv)	SEC ³	Turb. (NTU)	pH	Temp. (C°)	Volume pumped (L)
<i>1058</i>			<i>3.3</i>	<i>-85</i>	<i>0.145</i>	<i>16.42</i>	<i>7.10</i>	<i>5.2</i>	
<i>1101</i>			<i>2.0</i>	<i>-86.8</i>	<i>0.127</i>	<i>4.38</i>	<i>7.10</i>	<i>5.2</i>	
<i>1103</i>			<i>1.7</i>	<i>-87.3</i>	<i>0.127</i>	<i>4.70</i>	<i>7.08</i>	<i>5.2</i>	
<i>1114</i>			<i>1.6</i>	<i>-87.2</i>	<i>0.127</i>	<i>4.34</i>	<i>7.07</i>	<i>5.2</i>	
<i>SW 1144</i>			<i>13.0</i>	<i>137.8</i>	<i>0.091</i>	<i>5.05</i>	<i>7.23</i>	<i>4.9</i>	

Type of Samples collected:

Table continues on back, if needed

1115 25074006 - PW - ~~diff~~ ^{ms} tot

1115 25074007 - PW diss ✓

45, 57898, -122.74547

1 casing volume was:

Total volume purged prior to sample collection:

¹BTOC-Below Top of Casing

²TOC-Top of Casing

³Specific Electrical Conductance

Stabilization Criteria

D.O. +/- 0.3 mg/l
Turb. +/- 10%
S.C. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

Ground Water Sampling Log

Site Name: McClellan - Baxter
Well Depth(Ft-BTOC¹):

Well #: MB-PJ-05
Screen Interval(Ft): 16-20"

Date: 2/11/25

Well Dia.:

Casing Material:

Sampling Device:

Peristaltic

Pump placement(Ft from TOC²):

Measuring Point:

Water level (static)(Ft):

Water level (pumping)(Ft):

Pump rate(Liter/min): 340 mL/min

Sampling Personnel:

Other info: (such as sample numbers, weather conditions and field notes)

Sound ~ 40"

SAND is very loose

NO DUNDING ~ 1 foot

Water Quality Indicator Parameters

Time	Pumping rates (L/Min)	Water level (ft)	DO (mg/L)	ORP (mv)	SEC ³ $\frac{mS}{cm}$	Turb. (NTU)	pH	Temp. (C°)	Volume pumped (L)
1203			0.9	-102.6	0.795	6.02	6.85	5.7	
1206			0.1	-123.9	0.793	3.22	6.88	5.9	
1211			0.0	-136.9	0.788	3.73	6.91	5.7	
1140			13.1	36.8	0.095	6.2	7.27	5.1	

Type of Samples collected:

Table continues on back, if needed

GPS LOCATION 45.57992
-122.74470

SAMPLE # TIME
25074008 - ht - 12:15
25074009 - diss - 12:15

Stabilization Criteria

D.O. +/- 0.3 mg/l
Turb. +/- 10%
S.C. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

1 casing volume was:

Total volume purged prior to sample collection:

¹BTOC-Below Top of Casing

²TOC-Top of Casing

³Specific Electrical Conductance

Ground Water Sampling Log

Site Name: *McCormick & Barker*
Well Depth(Ft-BTOC¹):

Well #: *MB-PW-06*
Screen Interval(Ft):

Date: *2/11/25*

16'-20''

Well Dia.:

Casing Material:

Sampling Device:

Pump placement(Ft from TOC²):

Peristaltic

Measuring Point:

Water level (static)(Ft):

Water level (pumping)(Ft):

Pump rate(Liter/min): *340 mL/min*

Sampling Personnel: *Brent Richmond*

Other info: (such as sample numbers, weather conditions and field notes)

Sunny 40° E

Small Buckle

3' x 2" x 6" H.

Water Quality Indicator Parameters

Time	Pumping rates (L/Min)	Water level (ft)	DO (mg/L)	ORP (mv)	SEC ³ MS/cm	Turb. (NTU)	pH	Temp. (C°)	Volume pumped (L)
<i>1256</i>			<i>6.9</i>	<i>-91.5</i>	<i>0.505</i>	<i>1.5</i>	<i>7.6</i>	<i>7.7</i>	
<i>1259</i>			<i>0.1</i>	<i>-108.8</i>	<i>0.506</i>	<i>2.2</i>	<i>6.97</i>	<i>7.7</i>	
<i>1303</i>			<i>0.0</i>	<i>-114.1</i>	<i>0.506</i>	<i>2.7</i>	<i>6.96</i>	<i>7.9</i>	
<i>1306</i>			<i>0.0</i>	<i>-116.4</i>	<i>0.506</i>	<i>1.5</i>	<i>6.95</i>	<i>7.7</i>	
<i>12:48</i>			<i>13.5</i>	<i>51.0</i>	<i>0.107</i>	<i>5.5</i>	<i>7.50</i>	<i>4.7</i>	

YSE SW

Type of Samples collected:

Table continues on back, if needed

GPS LOCATION *45.57942*
-122.74487

SAMPLE TIME
1310 24074010
1315 24074011

Stabilization Criteria

D.O. +/- 0.3 mg/l
Turb. +/- 10%
S.C. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

1 casing volume was:

Total volume purged prior to sample collection:

¹BTOC-Below Top of Casing

²TOC-Top of Casing

³Specific Electrical Conductance

Ground Water Sampling Log

Site Name: McCormick + Baxter
Well Depth(Ft-BTOC¹):

Well #: MB-PW-07
Screen Interval(Ft):

Date: 2/11/25

Well Dia.:

Casing Material:

Sampling Device: Peristaltic Pump

Pump placement(Ft from TOC²):

Measuring Point:

Water level (static)(Ft):

Water level (pumping)(Ft):

Pump rate(Liter/min): 0.50

Sampling Personnel: Ted Januch

Other info: (such as sample numbers, weather conditions and field notes)

Water Quality Indicator Parameters

Time	Pumping rates (L/Min)	Water level (ft)	DO (mg/L)	ORP (mv)	SEC ³	Turb. (NTU)	pH	Temp. (C°)	Volume pumped (L)
12:50	.5		1.3	-104.5	0.620	2.14	6.78	7.8	
12:53			0.1	-120.3	0.622	1.46	6.83	7.8	
12:56			-0.0	-124.2	0.622	1.2f	6.84	7.8	
12:59			-0.1	-127.1	0.622	1.10	6.85	7.8	
SW 12:52			13.4	40.1	0.131	5.75	7.19	6.2	

Type of Samples collected:

Table continues on back, if needed

GPS 45.57958
-122.74492

Sample #
25074012 - total 13:05
25074013 - dissolved 13:10

Stabilization Criteria

D.O. +/- 0.3 mg/l
Turb. +/- 10%
S.C. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

1 casing volume was:

Total volume purged prior to sample collection:

¹BTOC-Below Top of Casing

²TOC-Top of Casing

³Specific Electrical Conductance

Ground Water Sampling Log

Site Name: McCormick's Baxter
Well Depth (Ft-BTOC¹):

Well #: MB PW-08
Screen Interval (Ft):

Date: 2/12/25

Well Dia.:

Casing Material:

Sampling Device:

Pump placement (Ft from TOC²):

Measuring Point:

Water level (static) (Ft):

Water level (pumping) (Ft):

Pump rate (Liter/min):

410.11/min

Sampling Personnel:

Other info: (such as sample numbers, weather conditions and field notes)

Bottle

Water Quality Indicator Parameters

Time	Pumping rates (L/Min)	Water level (ft)	DO (mg/L)	ORP (mv)	SEC ³	Turb. (NTU)	pH	Temp. (C°)	Volume pumped (L)
2:13			1.0	-53.7	0.517	7.34	6.78	9.2	
2:16			.2	-70.5	0.518	1.86	6.79	9.0	
2:19			0.0	-75.9	0.518	2.36	6.78	9.1	
2:22			-0.1	-80.1	0.519	1.55	6.78	9.1	
2:25			-0.2	-83.1	0.520	1.18	6.77	9.1	
2:22			11.7	-30.0	0.173	4.85	7.36	6.3	

Type of Samples collected:

Table continues on back, if needed

GPS 45.57949, -122.74499

Sample # 25074014
25074015

Stabilization Criteria

D.O. +/- 0.3 mg/l
Turb. +/- 10%
S.C. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

1 casing volume was:

Total volume purged prior to sample collection:

¹BTOC-Below Top of Casing

²TOC-Top of Casing

³Specific Electrical Conductance

SW
w/ other
75%

Ground Water Sampling Log

Loc 9

Site Name: McCormick: Baxter
Well Depth (Ft-BTOC¹):

Well #: MB PW-09
Screen Interval (Ft):

Date: 2/12/25

Well Dia.:

Casing Material:

Sampling Device:

Pump placement (Ft from TOC²):

Measuring Point:

Water level (static) (Ft):

Water level (pumping) (Ft):

Pump rate (Liter/min):

310 ml/min

Sampling Personnel:

Other info: (such as sample numbers, weather conditions and field notes)

Water Quality Indicator Parameters

Time	Pumping rates (L/Min)	Water level (ft)	DO (mg/L)	ORP (mv)	SEC ³	Turb. (NTU)	pH	Temp. (C°)	Volume pumped (L)
1:47			1.3	-102.0	0.370	5.32	6.68	8.1	
1:51			0.3	-76.9	0.392	1.82	6.70	8.2	
1:53			0	-84.3	0.393	1.54	6.72	8.3	
1:56			-0.1	-87.0	0.374	2.52	6.73	8.1	
1:57			-0.1	-89.2	0.394	3.75	6.73	7.9	
1:42			13.2	99.4	0.104	33.24	7.12	6.4	

Type of Samples collected:

Table continues on back, if needed

GPS: 45.57941
-122.74506

Sample # 25074016
25074017

Stabilization Criteria

D.O. +/- 0.3 mg/l
Turb. +/- 10%
S.C. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

1 casing volume was:

Total volume purged prior to sample collection:

¹BTOC-Below Top of Casing

²TOC-Top of Casing

³Specific Electrical Conductance

Ground Water Sampling Log

Site Name: *McCormick & Baxter* Well #: *MB-PW-10* Date: *2/12/2025*
 Well Depth(Ft-BTOC¹): Screen Interval(Ft):

Well Dia.: Casing Material: Sampling Device:
Peristaltic

Pump placement(Ft from TOC²):

Measuring Point: Water level (static)(Ft):

Water level (pumping)(Ft): Pump rate(Liter/min):

Sampling Personnel: *Jed Januch, Kathleen Emory, Annie Christopher*

Other info: (such as sample numbers, weather conditions and field notes)

Sunny & Cold

Water Quality Indicator Parameters

Time	Pumping rates (L/Min)	Water level (ft)	DO (mg/L)	ORP (mv)	SEC ³	Turb. (NTU)	pH	Temp. (C°)	Volume pumped (L)
<i>13:33</i>	<i>310 L/min</i>		<i>2.6</i>	<i>-36.9</i>	<i>0.385</i>	<i>1.57</i>	<i>6.52</i>	<i>8.4</i>	
<i>13:36</i>			<i>0.3</i>	<i>-72.9</i>	<i>0.398</i>	<i>1.13</i>	<i>6.59</i>	<i>8.6</i>	
<i>13:39</i>			<i>0.0</i>	<i>-85.4</i>	<i>.399</i>	<i>1.07</i>	<i>6.62</i>	<i>8.4</i>	
<i>13:42</i>			<i>-0.1</i>	<i>-91.4</i>	<i>.399</i>	<i>1.00</i>	<i>6.63</i>	<i>8.4</i>	
<i>13:45</i>			<i>-0.2</i>	<i>-94.8</i>	<i>.399</i>	<i>1.07</i>	<i>6.64</i>	<i>8.4</i>	
<i>13:48</i>			<i>-0.2</i>	<i>-97.3</i>	<i>.400</i>	<i>1.06</i>	<i>6.64</i>	<i>8.4</i>	
<i>13:49 SW</i>			<i>13.5</i>	<i>125.7</i>	<i>0.103</i>	<i>4.71</i>	<i>7.14</i>	<i>6</i>	

Type of Samples collected:

Table continues on back, if needed

SW *25074018*
25074019

GPS: 45.57935 - 122.74516

Stabilization Criteria

D.O. +/- 0.3 mg/l
 Turb. +/- 10%
 S.C. +/- 3%
 ORP +/- 10 mV
 pH +/- 0.1 unit

1 casing volume was:

Total volume purged prior to sample collection:

¹BTOC-Below Top of Casing

²TOC-Top of Casing

³Specific Electrical Conductance

Ground Water Sampling Log

Site Name: *McCormick + Baxter*
Well Depth (Ft-BTOC¹):

Well #: *M8-PW-11*
Screen Interval (Ft):
16' - 22'

Date: *2/10/25*

Well Dia.:

Casing Material:

Sampling Device: *Peristaltic*

Pump placement (Ft from TOC²):

Measuring Point:

Water level (static) (Ft):

Water level (pumping) (Ft):

Pump rate (Liter/min): *312 mL/min*

Sampling Personnel: *SCJ JANUET, Meghan Dunn*

Other info: (such as sample numbers, weather conditions and field notes)

SUNNY CLOUD 40°F

Water Quality Indicator Parameters

SEC was recorded instead of SEC from 751 initially

Time	Pumping rates (L/Min)	Water level (ft)	DO (mg/L)	ORP (mv)	SEC ³	Turb. (NTU)	pH	Temp. (C°)	Volume pumped (L)
15:40			12.6	106.9	<i>MD 55.0</i> <i>0.088</i>	21.52	7.12	5.3	
15:43			12.6	117.2	<i>0.088</i> <i>55.0</i>	19.29	7.01	5.3	
15:48			12.8	129.2	0.088	20.54	6.98	5.3	
15:51			12.8	132.8	0.088	73.	6.97	5.3	
15:55			12.7	135.7	0.088	64	6.98	5.3	
15:58			12.8	138.7	0.088	87.63	6.97	5.3	
16:22			13.1	120.9	0.089	8.63	7.46	5.5	

Type of Samples collected:

Table continues on back, if needed

GPS location

45.57836, -122.74519

Sample #

25074020 - Tot 16:00

25074021 - Dissolved

16:05

Stabilization Criteria

D.O. +/- 0.3 mg/l
Turb. +/- 10%
S.C. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

1 casing volume was:

Total volume purged prior to sample collection:

¹BTOC-Below Top of Casing

²TOC-Top of Casing

³Specific Electrical Conductance

Ground Water Sampling Log

Site Name: *McCormick + Baxter*
Well Depth(Ft-BTOC¹):

Well #: *M6-12*
Screen Interval(Ft):

Date: *2/11/25*

Well Dia.:

Casing Material:

Sampling Device: *peristaltic Pump*

Pump placement(Ft from TOC²):

Measuring Point:

Water level (static)(Ft):

Water level (pumping)(Ft):

Pump rate(Liter/min):

Sampling Personnel: *Jed Jannich*

50.308

Meghan Dunn

Other info: (such as sample numbers, weather conditions and field notes) *Sunny, cold*

GPS 45,57813, -122.74476

Water Quality Indicator Parameters

Time	Pumping rates (L/Min)	Water level (ft)	DO (mg/L)	ORP (mv)	SEC ³	Turb. (NTU)	pH	Temp. (C°)	Volume pumped (L)
<i>08:44</i>			<i>5.6</i>	<i>280.3</i>	<i>0.096</i>	<i>11.30</i>	<i>6.89</i>	<i>5.3</i>	
<i>8:47</i>			<i>5.2</i>	<i>272.4</i>	<i>0.096</i>	<i>7.92</i>	<i>6.89</i>	<i>5.3</i>	
<i>08:56</i>			<i>5.0</i>	<i>263.1</i>	<i>0.096</i>	<i>5.92</i>	<i>6.91</i>	<i>5.3</i>	
<i>SW 09:13</i>			<i>12.9</i>	<i>175.3</i>	<i>0.097</i>	<i>8.25</i>	<i>7.34</i>	<i>4.1</i>	

Type of Samples collected:

Table continues on back, if needed

PW-Total - 25074022 - 08:55 PHT + tot metals

PW-Diss - 25074023 - 08:55 NO 09:00

PW-Total - 25074038 - 09:15

SW-Diss - 25074039 - 09:00 09:25

SW-Tot - Field Dp - 25074040 - 09:30

1 casing volume was: SW-Diss - Field Dp - 25074041 09:35

Total volume purged prior to sample collection:

¹BTOC-Below Top of Casing

²TOC-Top of Casing

³Specific Electrical Conductance

Stabilization Criteria

D.O. +/- 0.3 mg/l
Turb. +/- 10%
S.C. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

PW = porewater

SW = surface water

Ground Water Sampling Log

Site Name: *McCormick & Dexter* Well #: *WB-PW-13* Date: *2/10/25*
 Well Depth(Ft-BTOC¹): Screen Interval(Ft):
16' - 22'
 Well Dia.: Casing Material: Sampling Device: *Peristaltic*

Pump placement(Ft from TOC²):

Measuring Point: Water level (static)(Ft):

Water level (pumping)(Ft): Pump rate(Liter/min): *640 L/min*

Sampling Personnel: *Brent R. Quinn*

Other info: (such as sample numbers, weather conditions and field notes)

Cloudy, wind x 40°

Water Quality Indicator Parameters

Time	Pumping rates (L/Min)	Water level (ft)	DO (mg/L)	ORP (mv)	SEC ³ <i>ns/cm</i>	Turb. (NTU)	pH	Temp. (C°)	Volume pumped (L)
<i>1609</i>			<i>12.9</i>	<i>210.1</i>	<i>0.104</i>	<i>12.6</i>	<i>6.99</i>	<i>5.3</i>	
<i>1612</i>			<i>12.9</i>	<i>209.3</i>	<i>0.104</i>	<i>14.4</i>	<i>6.96</i>	<i>5.3</i>	
<i>1615</i>			<i>12.9</i>	<i>208.0</i>	<i>0.103</i>	<i>11.80</i>	<i>6.95</i>	<i>5.3</i>	
<i>1618</i>			<i>12.9</i>	<i>206.6</i>	<i>0.103</i>	<i>11.79</i>	<i>6.96</i>	<i>5.3</i>	
<i>455 SURFACE water</i> <i>1627</i>			<i>13.1</i>	<i>198.6</i>	<i>0.093</i>	<i>9.70</i>	<i>7.20</i>	<i>6.0</i>	

Type of Samples collected:

Table continues on back, if needed

GPS LOCATION
45.57780°
-122.74327

SAMPLES *T.M.C.*
25074024 Total 1620
25074025 Dissolved 1625

Stabilization Criteria

D.O. +/- 0.3 mg/l
 Turb. +/- 10%
 S.C. +/- 3%
 ORP +/- 10 mV
 pH +/- 0.1 unit

1 casing volume was:
 Total volume purged prior to sample collection:

¹BTOC-Below Top of Casing

²TOC-Top of Casing

³Specific Electrical Conductance

Ground Water Sampling Log

Site Name: *McLennan & Butler* Well #: *MB-RW-14* Date: *2/12/25*
 Well Depth(Ft-BTOC¹): Screen Interval(Ft):

Well Dia.: Casing Material: Sampling Device: *peristaltic Pump*

Pump placement(Ft from TOC²):

Measuring Point: Water level (static)(Ft):

Water level (pumping)(Ft): Pump rate(Liter/min):

Sampling Personnel: *Isid Jamb*

Other info: (such as sample numbers, weather conditions and field notes)

Water Quality Indicator Parameters

Time	Pumping rates (L/Min)	Water level (ft)	DO (mg/L)	ORP (mv)	SEC ³	Turb. (NTU)	pH	Temp. (C°)	Volume pumped (L)
<i>0905</i>	<i>40L/min</i>		<i>12.5</i>	<i>20</i>	<i>0.09</i>	<i>13.44</i>	<i>7.24</i>	<i>2.9</i>	
<i>0919</i>			<i>11.4</i>	<i>264.8</i>	<i>0.088</i>	<i>4.86</i>	<i>6.74</i>	<i>4.0</i>	
<i>0922</i>			<i>11.2</i>	<i>270.4</i>	<i>0.088</i>	<i>4.58</i>	<i>6.65</i>	<i>4.1</i>	
<i>0925</i>			<i>11.2</i>	<i>267.8</i>	<i>0.088</i>	<i>5.83</i>	<i>6.63</i>	<i>4.2</i>	
<i>0930</i>			<i>11.2</i>	<i>264.1</i>	<i>0.089</i>	<i>25.38</i>	<i>6.62</i>	<i>4.3</i>	
<i>0933</i>			<i>11.2</i>	<i>264.5</i>	<i>0.089</i>	<i>8.14</i>	<i>6.62</i>	<i>4.1</i>	
<i>0905</i>	<i>40L/min</i>			<i>287.2</i>	<i>0.094</i>	<i>13.44</i>	<i>7.24</i>	<i>2.9</i>	

Type of Samples collected:

Table continues on back, if needed

Sample # *5* *25074026*
25074027 ✓

Stabilization Criteria

D.O. +/- 0.3 mg/l
 Turb. +/- 10%
 S.C. +/- 3%
 ORP +/- 10 mV
 pH +/- 0.1 unit

GPS *45.57771 -122 74184*

1 casing volume was:
 Total volume purged prior to sample collection:

¹BTOC-Below Top of Casing

²TOC-Top of Casing

³Specific Electrical Conductance

Ground Water Sampling Log

Site Name: McCormick & Baxter Well #: PMB-PW-15 Date: 2/11/25
 Well Depth(Ft-BTOC¹): _____ Screen Interval(Ft): 20-24"

Well Dia.: _____ Casing Material: _____ Sampling Device: Prestalitc

Pump placement(Ft from TOC²): _____

Measuring Point: _____ Water level (static)(Ft): 3

Water level (pumping)(Ft): _____ Pump rate(Liter/min): 300 mL/min

Sampling Personnel: _____

Other info: (such as sample numbers, weather conditions and field notes)

SUNNY COOL ~ ~~NOV~~ SUST FINE LIND 50' AWAY
35°F

Water Quality Indicator Parameters

Time	Pumping rates (L/Min)	Water level (ft)	DO (mg/L)	ORP (mv)	SEC ³	Turb. (NTU)	pH	Temp. (C°)	Volume pumped (L)
1010			10.4	289.6	0.093	45.5	6.67	6.0	
1013			10.3	287.9	0.093	15.5	6.62	5.9	
1016			10.3	275.6	0.093	8.4	6.60	5.9	
1019			10.3	271.0	0.093	7.08	6.61	5.8	
<u>SW4SI 10:33</u>			13.2	237.7	0.097	6.0	7.65	5.2	

Type of Samples collected: _____

Table continues on back, if needed

GPS 45.57733
-122.74087

24074028 1025
24074029 1030

Stabilization Criteria

D.O. +/- 0.3 mg/l
 Turb. +/- 10%
 S.C. +/- 3%
 ORP +/- 10 mV
 pH +/- 0.1 unit

1 casing volume was: _____

Total volume purged prior to sample collection: _____

¹BTOC-Below Top of Casing

²TOC-Top of Casing

³Specific Electrical Conductance

Ground Water Sampling Log

Site Name: *McCormick & Baxter* Well #: *MB-FW-16* Date: *2/12/25*
 Well Depth(Ft-BTOC¹): Screen Interval(Ft):

Well Dia.: Casing Material: Sampling Device:

Pump placement(Ft from TOC²):

Measuring Point: Water level (static)(Ft):

Water level (pumping)(Ft): Pump rate(Liter/min): *300 ml/min*

Sampling Personnel:

Other info: (such as sample numbers, weather conditions and field notes)

Water Quality Indicator Parameters

Time	Pumping rates (L/Min)	Water level (ft)	DO (mg/L)	ORP (mv)	SEC ³	Turb. (NTU)	pH	Temp. (C°)	Volume pumped (L)
<i>1111</i>			<i>0.4</i>	<i>-3.2</i>	<i>0.203</i>	<i>87.51</i>	<i>5.97</i>	<i>8.0</i>	
<i>1114</i>			<i>-0.0</i>	<i>-12.8</i>	<i>0.207</i>	<i>64.70</i>	<i>5.99</i>	<i>8.2</i>	
<i>1117</i>			<i>0.0</i>	<i>-18.3</i>	<i>0.211</i>	<i>52.0</i>	<i>6.00</i>	<i>8.2</i>	
<i>1120</i>			<i>0.8</i>	<i>-16.3</i>	<i>0.213</i>	<i>18.17</i>	<i>6.05</i>	<i>8.3</i>	
<i>1123</i>			<i>0.0</i>	<i>-19.5</i>	<i>0.214</i>	<i>11.9</i>	<i>6.02</i>	<i>8.3</i>	
<i>1126</i>			<i>0.0</i>	<i>-23.4</i>	<i>0.215</i>	<i>12.0</i>	<i>6.63</i>	<i>8.4</i>	
<i>1105</i>			<i>13.1</i>	<i>141.5</i>	<i>0.107</i>	<i>11.6</i>	<i>6.67</i>	<i>6.6</i>	

Type of Samples collected:

Table continues on back, if needed

24074030
24074031
24074032
24074033

GRS 45.57656 - 122.73927

1 casing volume was:
 Total volume purged prior to sample collection:

¹BTOC-Below Top of Casing

²TOC-Top of Casing

³Specific Electrical Conductance

Stabilization Criteria

D.O. +/- 0.3 mg/l
 Turb. +/- 10%
 S.C. +/- 3%
 ORP +/- 10 mV
 pH +/- 0.1 unit

5. YSI Calibration Records

ATTACHMENT A - YSI PRODSS CALIBRATION RECORD

Use Form or instrument logbook to record the following:

Date of Calibration: 2/10/25 Operator: Brent Richmond

Instrument Serial Number: 188101260 Software Revision: —

Handheld EPA Property # SB 6338 Cable Model Number: 626910-4

Temperature Reading 18.6 °C Temperature Accurate: YN

True Barometric Pressure at time of calibration 773.6

Record the following data and calibration values:

Name	Manufacturer	Lot	Expiration	Cal Value	Post Cal Value	Confidence check reading	Drift Reading
Example Buffer	Xyz, Corp.	ABC123		4.01	4.03	4.02	4.04
Conductivity				1030 18.8°C	1030	7386	1024
Conductivity Secondary standards check						7645 7910 @ 22°C	
pH 7	Fondriest	46F1173		7.03 19.1°C	7.03	7.09	6.95
pH 4	Fondriest	46F1023		4.00 19.1	4.00	7.08 7.10	3.98
pH 10	Fondriest	46F1169		10.07 18.9°C	10.07		9.88
pH Secondary standard check							

Name	Manufacturer	Lot	Expiration	Cal Value	Post Cal Value	Confidence check reading	Drift Reading
ORP	Han	A4191	7/25	214.4 219.1	214.4		222.2
ORP Secondary standard check						231 233	
DO saturated column or water bath	Rea 2/11	844076	7.9 Temp	20.5	101%		103%
DO Zero	CAL 2/10			0 102.4 212.7%	0 102.4%		0.5 19.05 87%
DO check or recalibration							
Turbidity 0	YSI 6020	24A2400 8655	11/25	0	0		19.05
Turbidity 126	YSI 60736	24A2400 8342	11/25	124.0	124.0		119.5
Turbidity 1000	YSI 6074	2332400 5523	9/24	1010	1010		968.81
Turbidity 12.7 Secondary standard check				12.3 13.6			
Algae				12.7			
Algae check or Recal							
Confidence solution	YSI 5580	24022	5/29/26				

NOTES:

Recal on 2/12
CSD
DO
PH/ORP

ATTACHMENT A - YSI PRODSS CALIBRATION RECORD

Use Form or instrument logbook to record the following:

Date of Calibration: 2/10/25 Operator: Brent R. Chm.

Instrument Serial Number: 20203181 Software Revision: -

Handheld EPA Property # A 95474 Cable Model Number: C26910-00

Temperature Reading 13.2 Temperature Accurate: Y

True Barometric Pressure at time of calibration 773.6

Record the following data and calibration values:

Name	Manufacturer	Lot	Expiration	Cal Value	Post Cal Value	Confidence check reading	Drift Reading
Example Buffer	Xyz, Corp.	ABC123		4.01	4.03	4.02	4.04
Conductivity	YSI 3167	244100 295	2/1/26	213.4 μ S	213.3	7.610	0.993
Conductivity Secondary standards check						7.990	
pH 7	Fondriest	46F1173	6/26	7.03 218.3 μ S	7.03	7.23	7.11
pH 4	Fondriest	46H0223	3/26	4.00 18.8 μ S	4.00	7.10	4.09
pH 10	Fondriest	46F1169	6/26	10.08 17.7 μ S	10.08		10.16
pH Secondary standard check							

Name	Manufacturer	Lot	Expiration	Cal Value	Post Cal Value	Confidence check reading	Drift Reading
ORP	HACH	A4191	7/25	213.9 18.8°C	123.9	225	215.8
ORP Secondary standard check						230 225	
DO saturated column or water bath	CAL 2/10/25			102% 17.5°C	102%	231	101%
DO Zero	Recal 2/11/25	26 768.1	20.6°C	101%			103%
DO check or recalibration							
Turbidity 0	YSI 6080	24A2400 8655	1/25	0	0		-0.15 19.05
Turbidity 126	YSI 6073R	24A2400 8342	1/25	124.0	124.0		129.5
Turbidity 1000	YSI 6074	2352400 5523	9/24	1010	1010		1174.5
Turbidity 12.7 Secondary standard check	YSI 6072	24A2400 8035	1/25			12.7 13.9	
Algae						11.7	
Algae check or Recal							
Confidence solution	YSI 5580 24E2C	5/29/26					

NOTES:

6. Sampling Photos



