

November 25, 2024

Mr. John Rapp **Toxics Cleanup Program** Washington State Department of Ecology Northwest Regional Office 15700 Dayton Avenue North Shoreline, Washington 98133

SUBJECT: YEAR 5 ANNUAL REPORT

Wesmar Company, Inc. Site (Ballard Blocks II Property)

1401 and 1451 Northwest 46th Street, Seattle,

Washington Project No. 1249-001-06

Dear Mr. Rapp:

On behalf of Block at Ballard II, LLC, SoundEarth Strategies, Inc. (SoundEarth) has prepared this subgrade drainage groundwater monitoring report to provide a summary of the results for the Year 5 (2024) annual groundwater monitoring event performed in March 2024 at the former Wesmar Company, Inc. Site, which is located at 1401 and 1451 Northwest 46th Street in Seattle, Washington (the Site), and is also identified as the Ballard Blocks II property (Figure 1).

Operation and monitoring of the permanent subgrade drainage water treatment system associated with the completed redevelopment of the Site began in October 2019. The work for the Year 5 annual monitoring event was performed pursuant to the requirements of First Amended Consent Decree No. DE 10-2-21304-0 SEA between Block at Ballard II, LLC and the Washington State Department of Ecology dated October 20, 2017 (Consent Decree).

A summary of permanent arsenic treatment system monthly operations and maintenance performance monitoring activities conducted at the Site between April 2023 and October 2024 is also included in this report.

In 2018–2019, the portion of the Site located outside of the sheet pile shoring system for the parking garage of the building, where contaminated soil remained on the property, was capped with a combination of asphalt, landscaping, and concrete sidewalks. In 2020, an environmental covenant was recorded for the remaining portions of the Site that exhibited contaminants of concern at concentrations in excess of cleanup levels, designated as Area B and Area C (Figure 2). This report also includes a discussion of the Year 5 cap inspection performed by SoundEarth on November 13, 2024, for Area B and Area C, which are subject to the conditions of the environmental covenant.

SUBGRADE DRAINAGE GROUNDWATER MONITORING

The approximate location of the subgrade groundwater collection sump and the arsenic water treatment system located in the underground parking garage on the Site is shown on Figure 3. Water monitoring analytical results pertaining to the subgrade drainage water and the permanent arsenic treatment system are summarized in Tables 1 and 2.

SAMPLING METHODOLOGY

The following section describes the sampling methodology employed during the Year 5 (2024) annual subgrade drainage water quality monitoring event in March 2024 and the permanent arsenic treatment system monthly operations and maintenance performance monitoring activities conducted at the Site between April 2023 and October 2024.

April 2023 through October 2024 Permanent Arsenic Treatment System Operations and Maintenance Performance Monitoring Events

Subgrade drainage pipes under the building on the Site drain water to a sump by gravity feed in the underground parking garage in the southeastern portion of the Site (Figure 3).

Permanent arsenic treatment system performance monitoring activities, performed since the Year 4 (2023) annual monitoring report, were conducted on April 26, May 22, June 26, July 26, August 17, September 25, October 25, November 21, and December 28, 2023, and January 30, February 28, and March 27, April 25, May 29, August 27, September 26, and October 28, 2024.

During the April 2023 through October 2024operations and maintenance monitoring events, and prior to discharge to the municipal stormwater system, water samples were collected from (1) a pre-treatment influent water port (INF) located immediately upstream of the three arsenic-targeting media treatment vessels; (2) a mid-treatment system monitoring port (MID01) located between the first and second arsenic-targeting media treatment vessels; (3) a second mid-treatment system monitoring port (MID02) located between the second and third arsenic-targeting media treatment vessels; (4) and a post-treatment effluent water monitoring port (EFF) located immediately downstream of the permanent arsenic-treatment system vessels. The approximate locations of these four water monitoring ports (INF, MID01, MID02, and EFF) are shown on the general design schematic of the treatment system in Attachment A.

Water samples were collected directly into clean, laboratory-prepared sample containers. Each container was labeled with a unique sample identification number, the date and time sampled, and the project number; placed on ice in a cooler; and transported to Friedman & Bruya, Inc. of Seattle, Washington under standard chain-of-custody protocols for laboratory analysis.

All of the collected water samples submitted for laboratory analysis were analyzed by US Environmental Protection Agency (EPA) Method 200.8 for total arsenic. The influent and effluent water samples collected from the treatment system during the operations and maintenance monitoring events between April 2023 and September 2023 were analyzed by EPA Method 200.8 for both total arsenic and dissolved arsenic.

Year 5 Annual Subgrade Drainage Groundwater Monitoring Event (March 2024)

A subgrade drainage groundwater sample was collected from the subgrade groundwater collection sump inlet pipes on March 27, 2024. A description of the sampling methodology is provided below. A flow-weighted sample from the subgrade groundwater drainage system was collected directly from the subslab drainage outlet pipes located within the sump (Figure 3).

Outlet pipes draining into the subgrade groundwater collection sump from the subgrade drainage system include one pipe on the northern side, a lower pipe on the eastern side, an upper pipe on the eastern side, and one pipe on the southern side of the sump. During the monitoring event on March 27, 2024, water was observed as flowing from the pipe on the northern side and from the lower pipe on the eastern

side of the subgrade groundwater collection sump. SoundEarth did not observe water flowing from the pipe on the southern side or the upper pipe on the eastern side of the subgrade groundwater collection sump during this monitoring event.

A flow rate was measured for the outlet pipes producing water from the sub-slab drainage system on March 27, 2024. The water volume was collected from the pipes that were producing water flow. The total water flow rate into the subgrade sump during the monitoring event was approximately 0.15 gallons per minute.

Water quality analytical results for the permanent arsenic treatment system performance monitoring activities are summarized below and in Table 1. Analytical results for total arsenic for groundwater samples collected from the subgrade drainage system are summarized in the results section below and on Table 2. Laboratory analytical reports are included in Attachment B.

RESULTS OF APRIL 2023 THROUGH OCTOBER 2024 ARSENIC TREATMENT SYSTEM OPERATIONS AND MAINTENANCE PERFORMANCE MONITORING EVENTS

Effluent water samples collected following treatment through the permanent arsenic treatment system between April 2023 and October 2024 included the sample IDs listed below:

- 1249 GW EFF 20230426
- 1249_GW_EFF_20230522
- 1249 GW EFF 20230626
- 1249_GW_EFF_20230726
- 1249 GW EFF 20230817
- 1249_GW_EFF_20230925
- 1249_GW_EFF_20231025
- 1249_GW_EFF_20231121
- 1249 GW EFF 20231228
- 1249_GW_EFF_20240130
- 1249_GW_EFF_20240228
- 1249_GW_EFF_20240327
- 1249_GW_EFF_20240425
- 1249_GW_EFF_20240529
- 1249_GW_EFF_20240827
- 1249_GW_EFF_20240926
- 1249_GW_EFF_20241028

Monthly O&M sampling events were not performed in June and July 2024.

Total arsenic was not detected at concentrations exceeding the Washington State Model Toxics Control Act (MTCA) Method A cleanup level for groundwater of 5 micrograms per liter (μ g/L) in the effluent water

samples collected during the treatment system operation and maintenance performance monitoring events between April 2023 and October 2024 (Table 1).

Dissolved arsenic was monitored for in treatment system influent and effluent water samples collected during the monitoring events performed between April 2023 and September 2023. Dissolved arsenic was detected at concentrations ranging from 19.6 μ g/L to 34.4 μ g/L in influent water samples. Dissolved arsenic was detected at concentrations ranging from <1 μ g/L to 4.42 μ g/L in effluent water samples (Table 1).

RESULTS OF YEAR 5 ANNUAL SUBGRADE DRAINAGE GROUNDWATER MONITORING EVENT (MARCH 2024)

The March 2024 Year 5 annual flow-weighted water sample (sample ID 1249_SSGW_20240327; Table 2) was collected from the subgrade groundwater drainage system on March 27, 2024, prior to treatment through the permanent arsenic treatment system. Total arsenic was detected at a concentration of 21 μ g/L, which is above the MTCA Method A cleanup level of 5 μ g/L, in the flow-weighted pre-treatment subgrade groundwater sample.

The post-treatment effluent water sample (sample ID 1249_GW_EFF_20240327) was collected on March 27, 2024, following treatment of the collected subgrade drainage water through the permanent arsenic treatment system. Arsenic was not detected at a concentration exceeding the laboratory reporting limit of 1 μ g/L in the effluent water sample (Table 1). The laboratory reporting limit for arsenic is below the MTCA Method A cleanup level of 5 μ g/L for arsenic in groundwater for post-treatment effluent discharge water.

YEAR 5 CAP INSPECTION AND RESULTS

In 2018–2019, the portion of the Site located outside of the sheet pile shoring system for the parking garage of the building, where contaminated soil remained on the property, was capped with a combination of asphalt, landscaping, and concrete sidewalks. In 2020, an environmental covenant was recorded for the remaining portions of the Site that exhibited contaminants of concern at concentrations in excess of cleanup levels, designated as Area B and Area C (Figure 2). Area B is located along the perimeter of the property, between the sheet pile shoring system and the property boundary, and Area C is located beyond the property boundary beneath the Northwest 46th Street right-of-way (ROW; Figure 2). The carcinogenic polycyclic aromatic hydrocarbon–contaminated soil in Area C is limited to approximately 18 cubic yards in volume and is capped by the ROW improvements.

The environmental covenant includes instructions for regulatory notification, waste handling, and disposal profiling if contaminated soil within Area C is accessed. The City of Seattle (City) was previously notified in writing of the Area C soil contamination and that an environmental covenant would be recorded for Area C. If the City conducts any maintenance or repair of street and sidewalk surfaces or any excavation for utility placement or repair in Area C, the City is responsible for following appropriate health, safety, and soil management protocols, as described in the environmental covenant.

On November 13, 2024, SoundEarth performed a cap inspection of Areas B and C of the Site (Figure 2), which are subject to the conditions of the environmental covenant.

SoundEarth observed no evidence of substantial erosion, settlement, or other potentially damaging conditions to the concrete-asphalt-landscaping cap overlying Areas B and C. In addition, no major cracks were observed in the hardscape surfaces of the cap and no exposures of the underlying soil were noted

during the cap inspection of Areas B and C on November 13, 2024. Photographs of the cap overlying Areas B and C at the Site, taken on November 13, 2024, are provided in Attachment C.

SUMMARY OF FINDINGS AND CONCLUSIONS

Analytical results for pre-treatment raw water samples collected from the subgrade groundwater drainage system at the Site for each of the monitoring events performed during a 5-year monitoring period, between 2019 and 2024, revealed total arsenic concentrations consistently above the MTCA Method A cleanup level of 5 μ g/L, with a range of 8.69 μ g/L (in November 2019) to 28.7 μ g/L (in July 2021; Table 2). The total arsenic result for the Year 5 (2024) annual monitoring event for the pre-treatment raw subgrade water sample was 21 μ g/L.

Arsenic concentrations in pre- and post-treatment subgrade discharge water samples, collected during monthly treatment system performance monitoring events conducted between October 2019 and October 2024, have remained consistently below the aquatic life marine/acute cleanup standard for arsenic in surface water of 69 μ g/L and below the marine/chronic cleanup standard for arsenic in surface water of 36 μ g/L (Section 240 of Chapter 173-201A of the Washington Administrative Code), with the exception of a single pre-treatment influent sample collected on December 28, 2023, which had a total arsenic concentration of 38.6 μ g/L. Total arsenic concentrations in post-treatment subgrade drainage water have been consistently below the MTCA Method A cleanup level of 5 μ g/L for groundwater in all monthly treatment system performance monitoring events performed to date, since the treatment system operation began in October 2019 (Table 1).

Based on the results of analytical testing, the permanent arsenic treatment system performed as designed during the 5-year long-term monitoring period from October 2019 to October 2024, and effectively treated arsenic concentrations in subgrade drainage water in compliance with the conditions of the Consent Decree.

The results of the Year 5 cap inspection indicated that the cap covering Areas B and C at the Site remains in good condition (Figure 2; Attachment C). The cap covering Area B and Area C has functioned as designed since the cap was completed in 2019.

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made. These services were performed consistent with SoundEarth's agreement with the client. This report is solely for the use and information of the client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report are derived, in part, from data gathered by others, and from conditions evaluated when services were performed, and are intended only for the client, purposes, locations, time frames, and project parameters indicated. SoundEarth does not warrant and is not responsible for the accuracy or validity of work performed by others, nor from the impacts of changes in environmental standards, practices, or regulations subsequent to performance of services. SoundEarth does not warrant the use of segregated portions of this report.

CLOSING

SoundEarth appreciates the opportunity to provide environmental services on this project. Please contact the undersigned at 206-306-1900 with any questions.

Respectfully,

SoundEarth Strategies, Inc.

Chris G. Cass, LG Senior Geologist CHRIS G. CASS

Chris M. Carter Managing Principal

Attachments:

Figure 1, Property Location Map

Figure 2, Site Boundary Definition

Figure 3, Arsenic Treatment System Basement Location Map

Table 1, Summary of Influent, Mid-Treatment, and Effluent Water Analytical Results for

Arsenic

Table 2, Summary of Groundwater Analytical Results for Raw Pre-Treatment Subgrade Water Control System Water

A, Arsenic Treatment System Schematic Diagram for Treatment of Pumped Subgrade Water B, Laboratory Analytical Reports

Friedman & Bruya, Inc. #304402

Friedman & Bruya, Inc. #305501

Friedman & Bruya, Inc. #306427 and additional

Friedman & Bruya, Inc. #307386

Friedman & Bruya, Inc. #308369

Friedman & Bruya, Inc. #309489

Friedman & Bruya, Inc. #310516

Friedman & Bruya, Inc. #311401

Friedman & Bruya, Inc. #312480

Friedman & Bruya, Inc. #401407

Friedman & Bruya, Inc. #403009

Friedman & Bruya, Inc. #403416

Friedman & Bruya, Inc. #404444

Friedman & Bruya, Inc. #406036

Friedman & Bruya, Inc. #408514

Friedman & Bruya, Inc. #409461

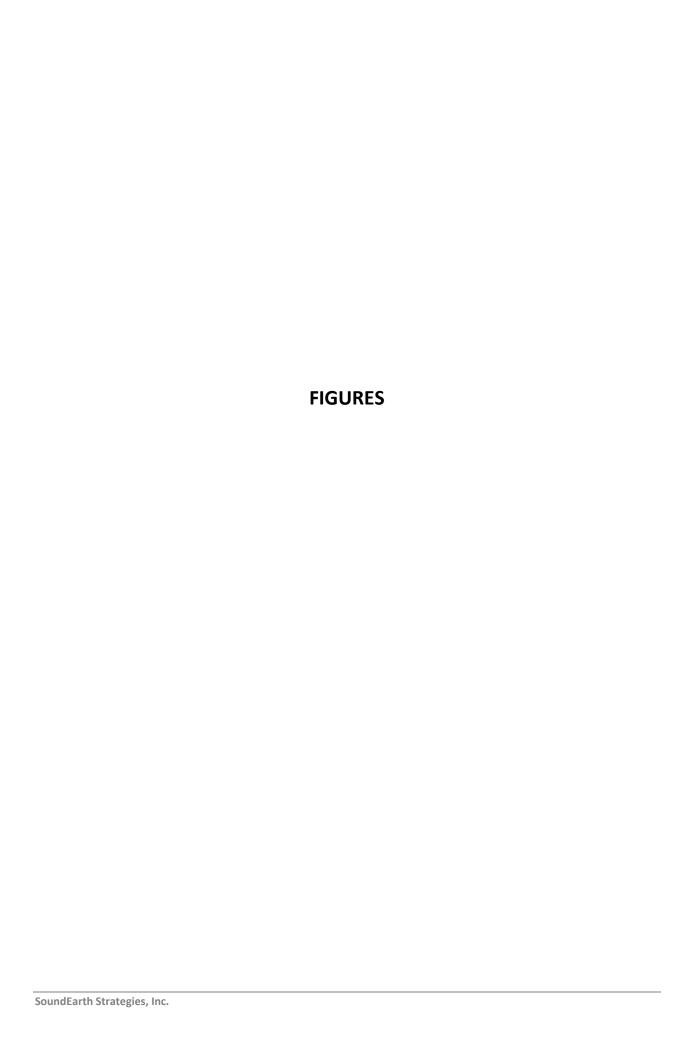
Friedman & Bruya, Inc. #411018

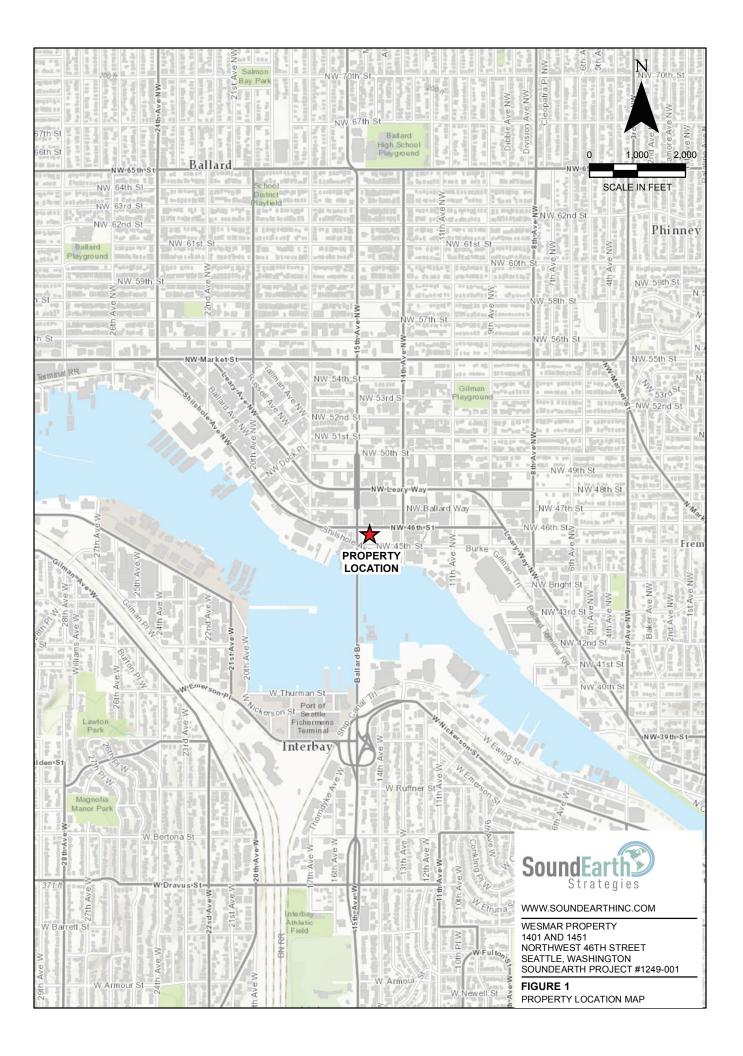
Friedman & Bruya, Inc. #403418

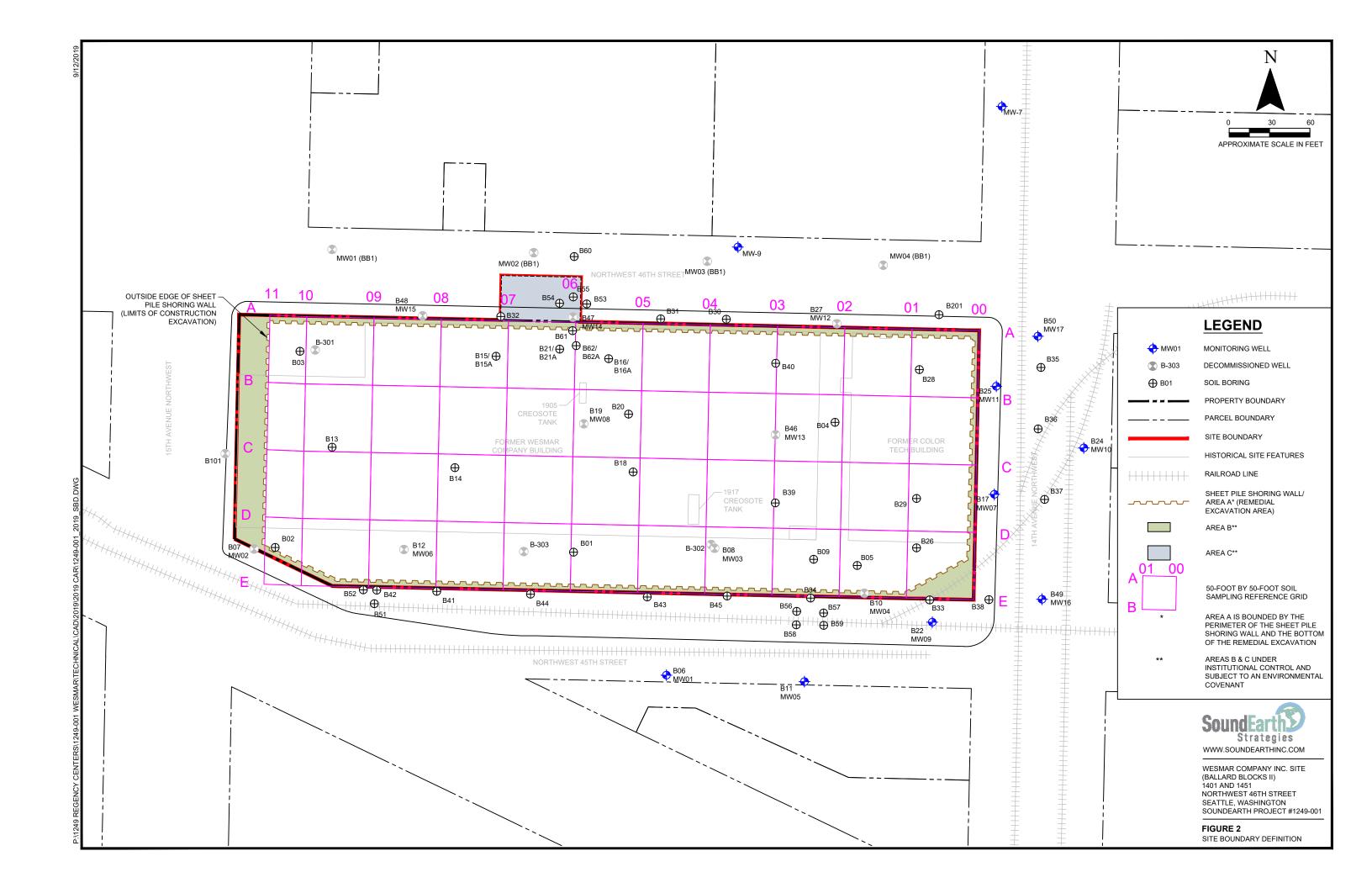
C, Site Photographs

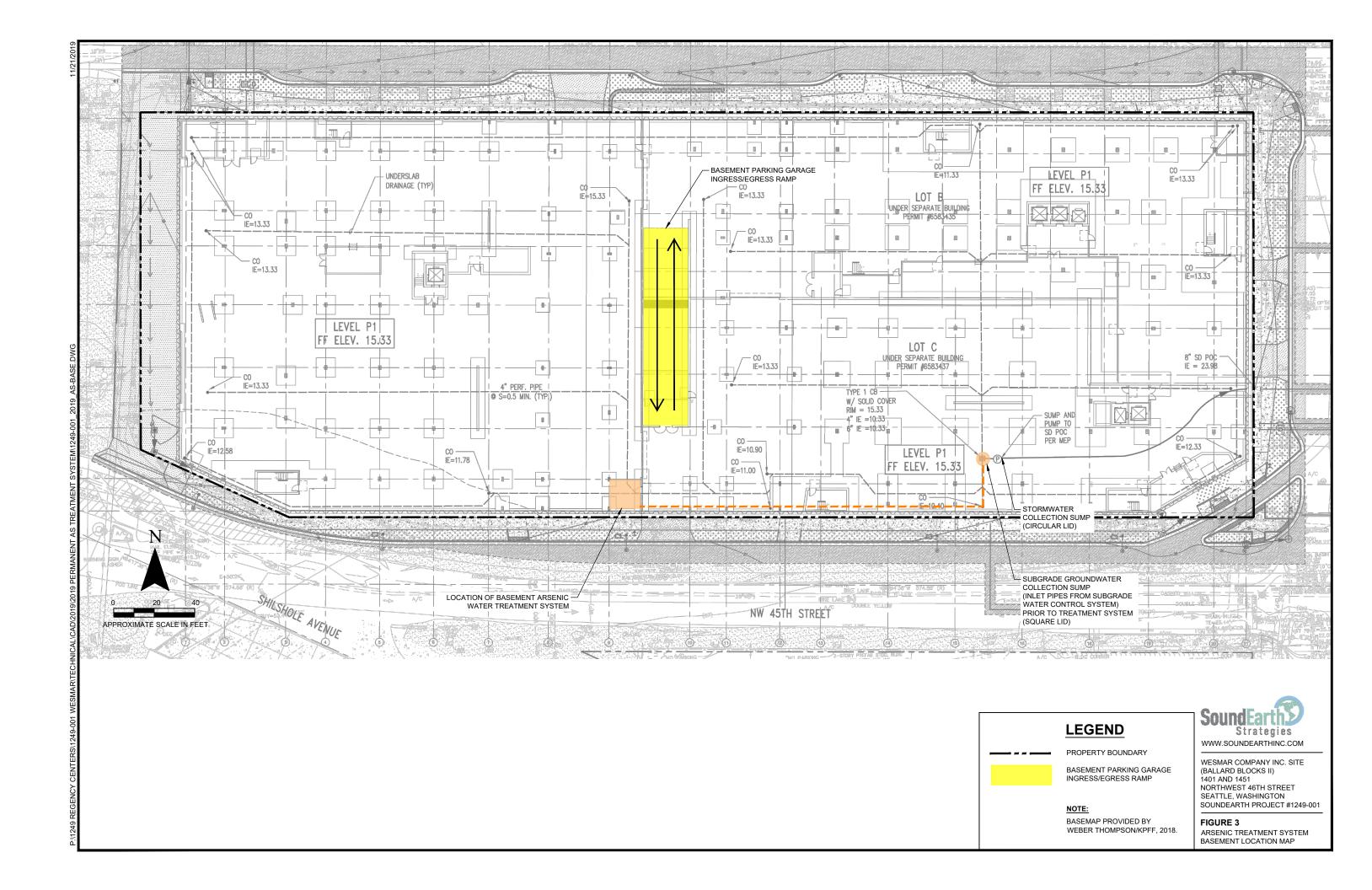
cc: Eric Silvers, Regency Centers Corporation

JSL/kak









TABLES SoundEarth Strategies, Inc.



Table 1

Summary of Influent, Mid-Treatment, and Effluent Water Analytical Results for Arsenic Ballard Blocks II Property 1401 and 1451 Northwest 46th Street Seattle, Washington

	2.1	Pre-Treatment Influent Water Arsenic Analytical Results ⁽¹⁾ (micrograms per liter)				Treated Effluent Water Arsenic Analytical Results ⁽¹⁾ (micrograms per liter)	
Sample IDs	Date	Sampled Total Dissolved		Analytical Results ⁽¹⁾ (micrograms per liter)	Analytical Results ⁽¹⁾ (micrograms per liter)	Total	Dissolved
Sample ibs		atment Systen			(Illicrograms per liter)	IOtal	Dissolveu
1249-GW_INF/MID/EFF_2091010	10/10/19	17.0		1.25		<1	
1249-GW INF/MID/EFF 2091017	10/17/19	13.4		1.05		<1	
1249-GW_INF/MID/EFF_2091030	10/30/19	9.85		3.00		<1	
Perman	ent Arsenic Trea	tment System	Maintenance	Water Quality Monitoring	Results		
1249_GW_INF/MID/EFF_20191121	11/21/19	9.58		2.43		<1	
1249_GW_INF/MID/EFF_20191226	12/26/19	9.25		3.31		<1	
1249_GW_INF/MID/EFF_20200123	01/23/20	12.5		7.21		<1	
1249_GW_INF/MID/EFF_20200220 1249_GW_INF/MID/EFF_20200319	02/20/20 03/19/20	9.88 8.83		5.78 4.04	 	<1 <1	
1249_GW_INF/MID/EFF_20200426	03/19/20	12.1		6.11	 	<1	
1249_GW_INF/MID/EFF_20200523	05/23/20	15.4		8.01		<1	
1249_GW_INF/MID/EFF_20200623	06/23/20	22.3		11.6		1.67	
1249_GW_INF/MID/EFF_20200721	07/21/20	23.8		13.6		2.38	
1249_GW_INF/MID/EFF_20200828	08/28/20	24.8		12.8		3.26	
1249_GW_INF/MID/EFF_20200922	09/22/20	26.3		13.3		3.36	
1249_GW_INF/MID/EFF_20201028	10/28/20	25.0		24.2		<1	
1249_GW_INF/MID/EFF_20201119	11/19/20	18.4		15.8		<1	
1249_GW_INF/MID/EFF_20201221 1249_GW_INF/MID/EFF_20210125	12/21/20 01/25/21	5.16 8.61		4.80 8.11		<1 1.26	
1249_GW_INF/MID/EFF_20210222	02/22/21	13.9		5.25		<1	
1249_GW_INF/MID/EFF_20210326	03/26/21	14.1		11.3		<1	
1249_GW_INF/MID/EFF_20210426	04/26/21	25.9		6.93		<1	
1249_GW_INF/MID/EFF_20210527	05/27/21	26.5		8.30		<1	
1249_GW_INF/MID/EFF_20210628	06/28/21	27.4		9.43		<1	
1249_GW_INF/MID/EFF_20210728	07/28/21	26.7		13.1		<1	
1249_GW_INF/MID/EFF_20210826	08/26/21	29.8		18.5		<1	
1249_GW_INF/MID/EFF_20210929 1249_GW_INF/MID/EFF_20211020	09/29/21	18.2		13.4		<1	
1249_GW_INF/MID/EFF_20211020 1249_GW_INF/MID/EFF_20211118	10/20/21 11/18/21	20.7 18.2		17.4 17.8		<1 <1	
1249_GW_INF/MID/EFF_20211220	12/20/21	14.0		15.7		1.46	
1249 GW INF/MID/EFF 20220122	01/22/22	10.6		10.1		1.20	
1249_GW_INF/MID/EFF_20220216	02/16/22	20.9		20.7		<1	
				First mid-treatment system sampling port relabeled as MID01 in March 2022	Second mid-treatment system sampling port (MID02) installed in March 2022		
1249_GW_INF/MID01/MID02/EFF_20220324	03/24/22	15.3		15.4	4.74	<1	
1249_GW_INF/MID01/MID02/EFF_20220420	04/20/22	17.0		16.7	5.53	1.26	
1249_GW_INF/MID01/MID02/EFF_20220518	05/18/22	16.7		17.0	6.63	2.20	
1249_GW_INF/MID01/MID02/EFF_20220622	06/22/22	16.2		1.61	1.12	<1	
1249_GW_INF/MID01/MID02/EFF_20220725 1249_GW_INF/MID01/MID02/EFF_20220818	07/25/22 08/18/22	20.3 18.8		4.29 1.32	4.50 <1	<1 <1	
1249_GW_INF/MID01/MID02/EFF_20220921	09/21/22	21.8		7.06	<1	<1	
1249_GW_INF/MID01/MID02/EFF_20221023	10/23/22	24.9		16.2	<1	<1	
1249_GW_INF/MID01/MID02/EFF_20221118	11/18/22	18.1		<2	<2	<2	
1249_GW_INF/MID01/MID02/EFF_20221221	12/21/22	18.8		5.16	<1	<1	
1249_GW_INF/MID01/MID02/EFF_20230123	01/23/23	14.0		3.18	<1	<1	
1249_GW_INF/MID01/MID02/EFF_20230223	02/23/23	15.6		1.30	1.02	<1	
1249_GW_INF/MID01/MID02/EFF_20230322 1249_GW_INF/MID01/MID02/EFF_20230426	03/22/23 04/26/23	18.5 20.3	20.5	1.57 6.35	<1 <1	<1 <1	<1
1249_GW_INF/MID01/MID02/EFF_20230420 1249_GW_INF/MID01/MID02/EFF_20230522	05/22/23	18.2	19.6	2.27	<1	<1	<1
1249_GW_INF/MID01/MID02/EFF_20230626	06/26/23	30.4	34.4	3.77	<1	<1	<1
1249_GW_INF/MID01/MID02/EFF_20230726	07/26/23	28.2	28.5	2.35	<1	<1	<1
1249_GW_INF/MID01/MID02/EFF_20230817	08/17/23	28.9	29.1	1.39	<1	<1	<1
1249_GW_INF/MID01/MID02/EFF_20230925	09/25/23	21.8	24.2	4.87	1.78	1.03	4.42
1249_GW_INF/MID01/MID02/EFF_20231025	10/25/23	15.3		5.58	2.14	1.48	
1249_GW_INF/MID01/MID02/EFF_20231121	11/21/23	6.62		1.82	1.64	1.48	
1249_GW_INF/MID01/MID02/EFF_20231228 1249_GW_INF/MID01/MID02/EFF_20240130	12/28/23 01/30/24	38.6 27.9		5.89 2.80	<1 <1	<1 <1	
1249_GW_INF/MID01/MID02/EFF_20240130 1249_GW_INF/MID01/MID02/EFF_20240228	01/30/24	27.9		2.80	<1	<1	
1249_GW_INF/MID01/MID02/EFF_20240327	03/27/24	32		2.8	<1	<1	
1249_GW_INF/MID01/MID02/EFF_20240425	04/25/24	25		2.0	<1	<1	
1249_GW_INF/MID01/MID02/EFF_20240529	05/29/24	33		2.5	<1	<1	
No Sampling Events Performed in June and July 2024							
1249_GW_INF/MID01/MID02/EFF_20240827	08/27/24	23		1.0	<1	<1	
1249_GW_INF/MID01/MID02/EFF_20240926 1249_GW_INF/MID01/MID02/EFF_20241028	09/26/24 10/28/24	18 19		1.2 3.1	<1 <1	<1 <1	
MTCA Cleanup Level for Groundwater	10/ 20/ 24			3.1		5 ⁽²⁾	5 ⁽²⁾
NOTES:		ı					_

NOTES:

EPA = US Environmental Protection Agency
MTCA = Washington State Model Toxics Control Act

WAC = Washington Administrative Code

Sample analyses conducted by Friedman & Bruya, Inc. of Seattle, Washington.

⁽¹⁾Samples analyzed by EPA Method 200.8.

 $^{^{\}rm (2)}{\rm MTCA}$ Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup Level for Groundwater.

^{-- =} not applicable/not analyzed

< = not detected at a concentration exceeding the laboratory reporting limit



Table 2

Summary of Groundwater Analytical Results for Raw Pre-Treatment Subgrade Water Control System Water Ballard Blocks II Property 1401 and 1451 Northwest 46th Street Seattle, Washington

Sample ID	Date Sampled	Average Estimated Total Water Flow Rate into Subgrade Sump (GPM)	Total Arsenic Analytical Results for Raw Subgrade Drainage Groundwater (1) (micrograms per liter)
1249_SSGW_20191121	11/21/19	0.7	8.69
1249_SSGW_20200123	01/23/20	0.5	15.4
1249_SSGW_20200523	05/23/20	0.4	10.0
1249_SSGW_20200828	08/28/20	0.5	23.9
1249_SSGW_20210222	02/22/21	0.1	13.6
1249_SSGW_20210728	07/28/21	0.5	28.7
1249_SSGW_20220324	03/24/22	1.3	15.7
1249_SSGW_20220921	09/21/22	0.99	15.9
1249_SSGW_20230322	03/22/23	0.6	18.4
1249_SSGW_20240327	03/27/24	0.15	21
MTCA Cleanup Level for Groun	dwater		5 ⁽²⁾

NOTES:

Red denotes concentration exceeds MTCA cleanup level for groundwater.

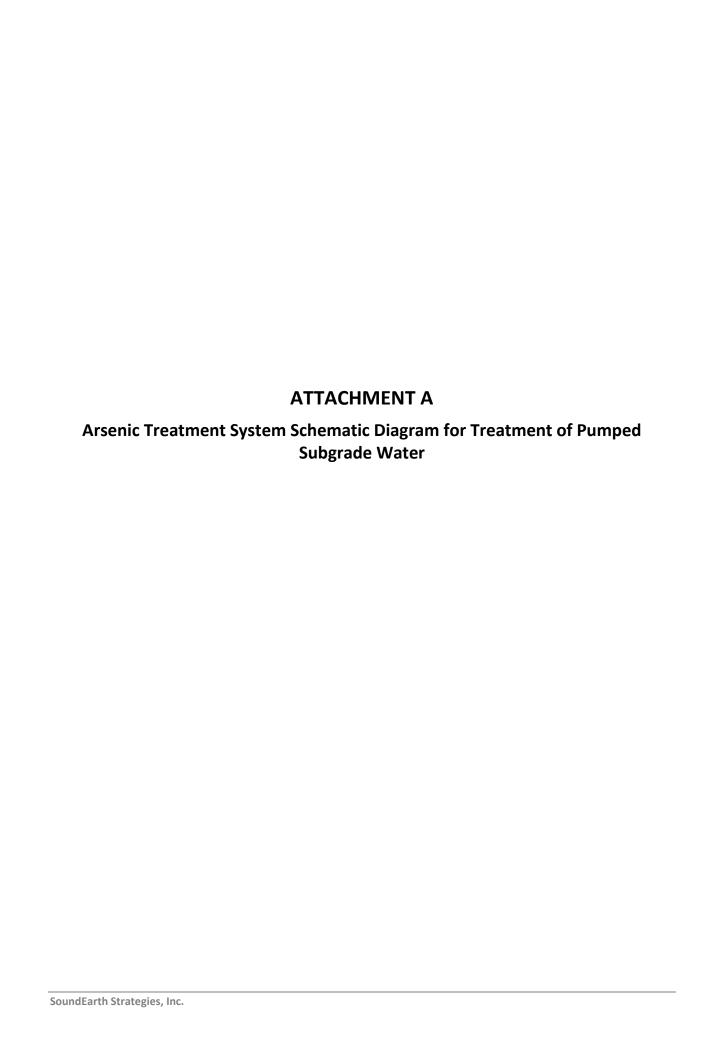
Sample analyses conducted by Friedman & Bruya, Inc. of Seattle, Washington.

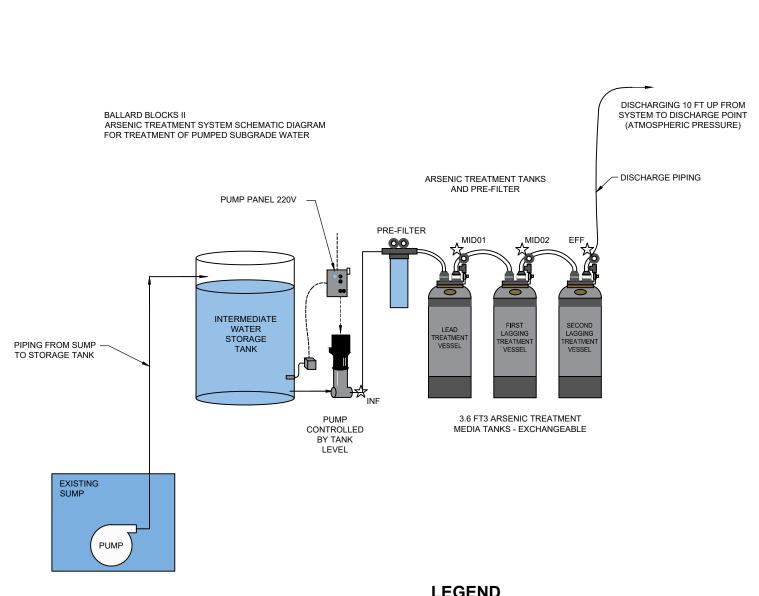
EPA = US Environmental Protection Agency GPM = gallons per minute

MTCA = Washington State Model Toxics Control Act WAC = Washington Administrative Code

 $[\]ensuremath{^{(1)}}\textsc{Samples}$ analyzed by EPA Method 200.8.

⁽²⁾MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup Level for Groundwater.







PRE-TREATMENT SYSTEM WATER MONITORING PORT MID01 FIRST MID-TREATMENT SYSTEM WATER MONITORING PORT MID02 SECOND MID-TREATMENT SYSTEM WATER MONITORING PORT EFF POST-TREATMENT SYSTEM EFFLUENT WATER MONITORING PORT



WATER MONITORING PORT



WWW.SOUNDEARTHINC.COM

WESMAR COMPANY INC. SITE (BALLARD BLOCKS II) 1401 AND 1451 NORTHWEST 46TH STREET SEATTLE, WASHINGTON SOUNDEARTH PROJECT #1249-001

FIGURE 1

ARSENIC TREATMENT SYSTEM SCHEMATIC DIAGRAM FOR TREATMENT OF PUMPED SUBGRADE WATER

ATTACHMENT B Laboratory Analytical Reports

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

May 5, 2023

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on April 28, 2023 from the SOU_1249-001-06_ 20230428, F&BI 304402 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Chris Carter, Jonathan Loeffler SOU0505R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 28, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20230428, F&BI 304402 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
304402 -01	1249_GW_INF_20230426
304402 -02	1249_GW_MID01_20230426
304402 -03	1249_GW_MID02_20230426
304402 -04	1249_GW_EFF_20230426

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: 1249_GW_INF_20230426 Client: SoundEarth Strategies

Date Received: 04/28/23 Project: SOU_1249-001-06_20230428

05/02/23 Lab ID: 304402-01 Date Extracted: Date Analyzed: 05/03/23 Data File: 304402-01.106 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 20.5

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: 1249_GW_EFF_20230426 Client: SoundEarth Strategies

Date Received: 04/28/23 Project: SOU_1249-001-06_20230428

05/02/23 Lab ID: 304402-04 Date Extracted: Date Analyzed: 05/02/23 Data File: 304402-04.150 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies

Date Received: Not Applicable Project: SOU_1249-001-06_ 20230428

Units: ug/L (ppb) Units: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_INF_20230426 Client: SoundEarth Strategies

Date Received: 04/28/23 Project: SOU_1249-001-06_20230428

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic 20.3

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID01_20230426 Client: SoundEarth Strategies

Date Received: 04/28/23 Project: SOU_1249-001-06_ 20230428

05/01/23 Lab ID: 304402-02 Date Extracted: Date Analyzed: 05/01/23 Data File: 304402-02.158 ICPMS2Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 6.35

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID02_20230426 Client: SoundEarth Strategies

Date Received: 04/28/23 Project: SOU_1249-001-06_ 20230428

05/01/23 Lab ID: 304402-03 Date Extracted: Date Analyzed: 05/01/23 Data File: 304402-03.159 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_EFF_20230426 Client: SoundEarth Strategies

Date Received: 04/28/23 Project: SOU_1249-001-06_20230428

05/01/23 Lab ID: 304402-04 Date Extracted: Date Analyzed: 05/01/23 Data File: 304402-04.160 ICPMS2Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies

Date Received: Not Applicable Project: SOU_1249-001-06_ 20230428

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/23 Date Received: 04/28/23

Project: SOU_1249-001-06_ 20230428, F&BI 304402

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: 304402-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	20.5	83 b	79 b	70-130	5 b

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	99	85-115

ENVIRONMENTAL CHEMISTS

Date of Report: 05/05/23 Date Received: 04/28/23

Project: SOU_1249-001-06_ 20230428, F&BI 304402

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	96	96	85-115	0

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased high; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

202 402

Send Report to Chris Cass; Chris Carter; Jonathan Loeffler

Company_ SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP_

Phone # 206-306-1900 Seattle, Washington 98102 _Fax#_ 206-306-1907

> SAMPLE CHAIN OF CUSTODY SAMPLERS (signature)

PROJECT NAME/NO

PO#

Ballard Blocks II Property; Arsenic 1249-001-06

* BOTTLES MARKED "FIELD FILTERED" HAVE

BEEN FILTERED IN THE FIELD WY O.45 MICHA FILTER

Treatment System Water Sampling REMARKS

TURNAROUND TIME Standard (5 days) Page #_

Rush charges authorized by:

Will call with instructions Return samples Dispose after 30 days SAMPLE DISPOSAL

Reling Receiv Strategies Reling					1249 GW FPF 20120100	1249 GW MID02 157 26427	1249 GW MIDOL 2 22 2 1 1 2 6	Sample ID 1249 GW INF 25.23 C 13.2	
Relinquished by: Received by: Received by: Relinquished by:				Effluent	Treatment	Treatment	induent	Sample	
SIGNATURE			-	N/A				Sample Depth	
			$\perp \parallel$	04A-B	ಡಿ	02	DIA-B	Lab ID	
> (1)				-			1/26/23	Date Sampled	-
PRINT NAME JOHATHAN LOEFFIER OHAN PHAN	(A A	00	1420	1425	1430	OIA-84/26/23 1435 WATER	Time Sampled	
PRINT NAME AN LOEFFIE Phan				 -	-		WATER	Matrix	
AME An		126/		_	_	~	-	# of Jars	
		23		X	X.	X	X	Total Arsenic (200.8)	
				X			X	DISSOLVED ARSENIC (200.8)	
COMPANY Sample BATE: ved TIME SOUNDEAPTH 4/28/23 1335									ANALYSES REQUESTED
				HNO	HNO	HNO	HNO		REQUES
4/28/23 1335				HNO₃ preserved ★	HNO ₃ preserved	HNO ₃ preserved	HNO3 preserved *	Notes	STED
1335 1335	/			*			*	σ,	
Д				 					

Received by:

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S.

5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

June 7, 2023

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on May 31, 2023 from the SOU_1249-001-06_20230531, F&BI 305501 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Chris Carter, Jonathan Loeffler

SOU0607R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 31, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_ 1249-001-06_ 20230531, F&BI 305501 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
305501 -01	1249_GW_INF_20230522
305501 -02	1249_GW_MID01_20230522
305501 -03	1249_GW_MID02_20230522
305501 -04	1249_GW_EFF_20230522

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: 1249_GW_INF_20230522 Client: SoundEarth Strategies

Date Received: 05/31/23 Project: SOU_ 1249-001-06_ 20230531

06/01/23 Lab ID: 305501-01 Date Extracted: Date Analyzed: 06/01/23 Data File: 305501-01.187 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 19.6

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: $1249_GW_EFF_20230522$ Client: SoundEarth Strategies

Date Received: 05/31/23 Project: SOU_ 1249-001-06_ 20230531

06/01/23 Lab ID: 305501-04 Date Extracted: Date Analyzed: 06/01/23 Data File: 305501-04.188 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies
Date Received: Not Applicable Project: SOU_ 1249-001-06_ 20230531

Date Extracted: 06/01/23 Lab ID: I3-442 mb2
Date Analyzed: 06/01/23 Data File: I3-442 mb2.123

Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic <1 k

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_INF_20230522 Client: SoundEarth Strategies

Date Received: 05/31/23Project: $SOU_1249-001-06_20230531$

06/02/23 Lab ID: 305501-01 Date Extracted: Date Analyzed: 06/02/23 Data File: 305501-01.167 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SP

Operator:

Concentration Analyte: ug/L (ppb)

Arsenic 18.2

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID01_20230522 Client: SoundEarth Strategies

Date Received: 05/31/23 Project: SOU_ 1249-001-06_ 20230531

06/02/23 Lab ID: 305501-02 Date Extracted: Date Analyzed: 06/02/23 Data File: 305501-02.168 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 2.27

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID02_20230522 Client: SoundEarth Strategies

Date Received: 05/31/23 Project: SOU_ 1249-001-06_ 20230531

06/02/23 Lab ID: 305501-03 Date Extracted: Date Analyzed: 06/02/23 Data File: 305501-03.176 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_EFF_20230522 Client: SoundEarth Strategies

Date Received: 05/31/23 Project: SOU_ 1249-001-06_ 20230531

06/02/23 Lab ID: 305501-04 Date Extracted: Date Analyzed: 06/02/23 Data File: $305501 \hbox{-} 04.177$ Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies
Date Received: Not Applicable Project: SOU_ 1249-001-06_ 20230531

06/02/23 Lab ID: I3-446 mbDate Extracted: Date Analyzed: 06/02/23 Data File: I3-446 mb.139 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/23 Date Received: 05/31/23

Project: SOU_ 1249-001-06_ 20230531, F&BI 305501

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: 305427-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	<1	89	90	70-130	1

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	93	85-115

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/23 Date Received: 05/31/23

Project: SOU_ 1249-001-06_ 20230531, F&BI 305501

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 306002-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	1.93	95	96	70-130	1

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	86	85-115

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

SAMPLERS (signature)

Report to Chris Cass: Chris Carter; Jonathan Loeffler SoundEarth Strategies, Inc.

Company_

2811 Fairview Avenue E, Suite 2000

Address

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax# 206-306-1907

> PROJECT NAME/NO REMARKS 2 SAMPLES COLLECTED FOR DISSOLUTED ARSENIC ANALYSIS WERE Treatment System Water Sampling Ballard Blocks II Property; Arsenic 1249-001-06 P0#

FILTERED IN FIELD W/ O.45 MICHON FILTER,

Rush charges authorized by: TURNAROUND TIME Standard (5 days) Return samples
Will call with instructions Dispose after 30 days Page#_ SAMPLE DISPOSAL

		1			8					
		22/22	5	Z						
					>					
								-		/
HNO3 preserved Additional FF	×	*		 	1240	}—	04A-8	N/A	Effluent	1249_GW_EFF_20:730527
HNO ₃ preserved	多名	X			1245		93	N/A	Second Mid- Treatment	1249_GW_MID02_ 20230527
HNO ₃ preserved	李	*			1250		న	N/A	First Mid- Treatment	1249_GW_MID01_20230522
HNO3 preserved Adol Honal FP	X	X	_	WATER	OIAB 5/22/23 1255 WATER	5/11/13	01A-8	N/A	Influent	1249_GW_INF_20230522
Notes	ARSENIC	Total Arsenic (200.8)	# of Jars	Matrix	Time Sampled	Date Sampled	Lab ID	Sample Depth	Sample Location	Sample ID
ANALYSES REQUESTED	ANA									



12	ed at	Samples received at LO oC		Received by:
1				Relinquished by:
	5-3+27 1640	181	くことや	Received by: Thul
	5/31/23 1640	SOUNDEARTH	JONATHAN LOEFFLER	Relinquished by
	DATE	COMPANY	PRINT NAME	SIGNATURE

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S.

5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

July 3, 2023

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on June 28, 2023 from the SOU_1249-001-06_ 20230628, F&BI 306427 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Chris Carter, Jonathan Loeffler, Kyle Lowery

SOU0703R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 28, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20230628, F&BI 306427 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
306427 -01	1249_GW_INF_20230626
306427 -02	1249_GW_MID01_20230626
306427 -03	1249_GW_MID02_20230626
306427 -04	1249_GW_EFF_20230626

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_INF_20230626 Client: SoundEarth Strategies

Date Received: 06/28/23 Project: SOU_1249-001-06_ 20230628

06/28/23 Lab ID: 306427-01 Date Extracted: Date Analyzed: 06/28/23 Data File: 306427-01.140 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 30.4

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID01_20230626 Client: SoundEarth Strategies

Date Received: 06/28/23Project: $SOU_1249-001-06_20230628$

Lab ID: 06/28/23 306427-02 Date Extracted: Date Analyzed: 06/28/23 Data File: 306427-02.141 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb)

SPOperator:

Concentration Analyte: ug/L (ppb)

Arsenic 3.77

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID02_20230626 Client: SoundEarth Strategies

Date Received: 06/28/23 Project: SOU_1249-001-06_ 20230628

Lab ID: 06/28/23 306427-03 Date Extracted: Date Analyzed: 06/28/23 Data File: 306427-03.142 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_EFF_20230626 Client: SoundEarth Strategies

Date Received: 06/28/23 Project: SOU_1249-001-06_20230628

 Date Extracted:
 06/28/23
 Lab ID:
 306427-04

 Date Analyzed:
 06/28/23
 Data File:
 306427-04.143

 Matrix:
 Water
 Instrument:
 ICPMS2

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies

Date Received: Not Applicable Project: SOU_1249-001-06_ 20230628

Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/23 Date Received: 06/28/23

Project: SOU_1249-001-06_ 20230628, F&BI 306427

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 306414-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	4.21	97 b	93 b	70-130	4 b

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	88	85-115

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Service Chris Cass; Chris Carter; Jonathan Loeffler

Phone #

206-306-1900

Fax#

206-306-1907

City, State, ZIP Seattle, Washington 98102

Address

2811 Fairview Avenue E, Suite 2000

SoundEarth Strategies, Inc.

Company

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SAMPLERS (signature),

PROJECT NAME/N6:

47

(Standard (5 days) Page # ___1 TURNAROUND TIME

| 양 |

PO#

Rush charges authorized by:

Return samples Dispose after 30 days

Treatment System Water Sampling REMARKS Ballard Blocks II Property; Arsenic $1249 \cdot 001 \cdot 06$ Will call with instructions SAMPLE DISPOSAL

			1243_UW_EFF_10730670	1940 CW FFF 1-3-3-1-3-5	1949 GW MID09: 20200CW	1249 GW MID01 707367.76	1249_GW_INF_ 20230676	Sample ID	
			Effluent	Treatment	Treatment	First Mid	Influent	Sample Location	
			N/A	N/A		NIA D	NIA	Sample Depth	
			 4 € +0	03	Q 2	014		Lab ID	
			+			0145 6/26/23 1300		Date Sampled	
040	**	2	1245	1250	1255	ĺ		Time Sampled	
	*		H			WATER		Matrix	
	113		ಬ	-		ಬ		# of Jars	
1/4	<i>5</i>		Χ	X	X	×		Total Arsenic (200.8)	
	Samples received at Q °C		HNO3 preserved	HNO3 preserved	HNO ₃ preserved	HNO ₃ preserved		Notes	ANALYSES REQUESTED

	es S	()	2		
Received by:	relinquished by:	P. S.	Received by	Relinquished by:	SIGNATURE
		ANHPHAN	JONATHAN LEEFFIER	FAINI NAME	DDINTING
		F8 &	SOUNDEARTH	COMPANY	
		06/28/23 10:11	6/28/23 1011	DATE	
		/0://	101	TIME	

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

July 11, 2023

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the additional results from the testing of material submitted on June 28, 2023 from the SOU_1249-001-06_ 20230628, F&BI 306427 project. There are 6 pages included in this report.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Chris Carter, Jonathan Loeffler, Kyle Lowery SOU0711R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 28, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_ 1249-001-06_ 20230628, F&BI 306427 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
306427 -01	1249_GW_INF_20230626
306427 -02	1249_GW_MID01_20230626
306427 -03	1249_GW_MID02_20230626
306427 -04	1249_GW_EFF_20230626

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: 1249_GW_INF_20230626 Client: SoundEarth Strategies

Date Received: 06/28/23 Project: SOU_1249-001-06_ 20230628

07/05/23 Lab ID: 306427-01 Date Extracted: Date Analyzed: 07/05/23 Data File: 306427-01.056 ICPMS2Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 34.4

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: 1249_GW_EFF_20230626 Client: SoundEarth Strategies

Date Received: 06/28/23 Project: SOU_1249-001-06_ 20230628

07/05/23 Lab ID: 306427-04 Date Extracted: Date Analyzed: 07/05/23 Data File: 306427-04.059 ICPMS2Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies

Date Received: Not Applicable Project: SOU_1249-001-06_ 20230628

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 07/11/23 Date Received: 06/28/23

Project: SOU_ 1249-001-06_ 20230628, F&BI 306427

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: 306427-01 (Matrix Spike)

				Percent	Percent			
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD	
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)	_
Arsenic	ug/L (ppb)	10	34.4	80 b	72 b	70-130	11 b	-

Laboratory Code: Laboratory Control Sample

			$\operatorname{Percent}$	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	93	85-115

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

Sex Report to Chris Cass: Chris Carter: Jonathan Loeffler

Company SoundEarth Strategies, Inc.

City, State, ZIP Seattle, Washington 98102 Address_ 2811 Fairview Avenue E. Suite 2000

Phone # 206-306-1900 _Fax#__ 206-306-1907

Carina Black (Signature)	
PROJECT NAME/NO.	PO#
Ballard Blocks II Property; Arsenic	1249-001-06
Treatment System Water Sampling	

Page #

Rush charges authorized by: TURNAROUND TIME
(Standard (5 days)) of _

Return samples
Will call with instructions Dispose after 30 days SAMPLE DISPOSAL

Relinquished by Strategies Received by Received by:			1249_GW_EFF_20230626		Sample ID 1249_GW_INF_202306.76
g W g			Second Mid. Treatment Effluent	First Mid- Treatment	Sample
SIGNATURE			N/A	N/A	Sample Depth
			04 %- 04 %-	OIA	Lab ID
			 	01/2 1300 02 1255	Date Sampled
PRINT NAME JOSATHAN LOEFFIER AN HPHAN	040		1250		Time Sampled
PRINT NAME MTHAN LEEFF			1	WATER	Matrix
NAME DEFF		6/20	2 -	- R	# of Jars
		5	XX	××	Total Arsenic (200.8)
	_		8	8	Dissalved As
COMPANY SOUND EARTH F8 B		Sample			ANALYSES REQUESTED
DATE TIME 4 6/28/23 10:11 06/28/23 10:11		Samples received at _Q °C	HNO ₃ preserved	HNO ₃ preserved HNO ₃ preserved	EQUESTED Notes Notes

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S.

5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

August 4, 2023

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on July 28, 2023 from the SOU_1249-001-06_ 20230728, F&BI 307386 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Chris Carter, Jonathan Loeffler

SOU0804R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 28, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20230728, F&BI 307386 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
307386 -01	1249_GW_INF_20230726
307386 -02	1249_GW_MID01_20230726
307386 -03	1249_GW_MID02_20230726
307386 -04	1249_GW_EFF_20230726

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: 1249_GW_INF_20230726 Client: SoundEarth Strategies

Date Received: 07/28/23 Project: SOU_1249-001-06_ 20230728

 Date Extracted:
 07/31/23
 Lab ID:
 307386-01

 Date Analyzed:
 08/01/23
 Data File:
 307386-01.207

 Matrix:
 Water
 Instrument:
 ICPMS2

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic 28.5

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: 1249_GW_EFF_20230726 Client: SoundEarth Strategies

Date Received: 07/28/23 Project: SOU_1249-001-06_ 20230728

 Date Extracted:
 07/31/23
 Lab ID:
 307386-04

 Date Analyzed:
 08/01/23
 Data File:
 307386-04.208

 Matrix:
 Water
 Instrument:
 ICPMS2

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies
Date Received: Not Applicable Project: SOU_1249-001-06_20230728

07/31/23 Lab ID: I3-592 mbDate Extracted: Date Analyzed: 07/31/23 Data File: I3-592 mb.059 ICPMS2 Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_INF_20230726 Client: SoundEarth Strategies

Date Received: 07/28/23 Project: SOU_1249-001-06_20230728

 Date Extracted:
 07/31/23
 Lab ID:
 307386-01

 Date Analyzed:
 08/01/23
 Data File:
 307386-01.214

 Matrix:
 Water
 Instrument:
 ICPMS2

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic 28.2

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID01_20230726 Client: SoundEarth Strategies

Date Received: 07/28/23 Project: SOU_1249-001-06_20230728

07/31/23 Lab ID: 307386-02 Date Extracted: Date Analyzed: 08/01/23 Data File: 307386-02.220 ICPMS2Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 2.35

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID02_20230726 Client: SoundEarth Strategies

Date Received: 07/28/23 Project: SOU_1249-001-06_20230728

Lab ID: 07/31/23 307386-03 Date Extracted: Date Analyzed: 08/01/23 Data File: 307386-03.221 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_EFF_20230726 Client: SoundEarth Strategies

Date Received: 07/28/23Project: $SOU_1249-001-06_20230728$

07/31/23 Lab ID: 307386-04 Date Extracted: Date Analyzed: 08/01/23 Data File: 307386-04.222 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) SP

Operator:

Concentration Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies
Date Received: Not Applicable Project: SOU_1249-001-06_20230728

07/31/23 Lab ID: I3-593 mbDate Extracted: Date Analyzed: 07/31/23 Data File: I3-593 mb.061 ICPMS2 Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 08/04/23 Date Received: 07/28/23

Project: SOU_1249-001-06_ 20230728, F&BI 307386

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: 307376-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	<1	94	92	70-130	2

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	95	85-115

ENVIRONMENTAL CHEMISTS

Date of Report: 08/04/23 Date Received: 07/28/23

Project: SOU_1249-001-06_ 20230728, F&BI 307386

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 307386-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	27.1	79 b	83 b	70-130	5 b

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	93	85-115

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Phone # City, State, ZIP Seattle, Washington 98102 Address Company_ Send Report to Chris Cass; Chris Carter; Jonathan Loeffler 1249_GW_MID01_20230726 1249_GW_INF_ 20230726 1249_GW_EFF_ 20130 726 1249_GW_MID02_26236726 Sample ID 206-306-1900 2811 Fairview Avenue E, Suite 2000 SoundEarth Strategies, Inc. Received by: Received by: Relinquished Relinquished by: Fax# Effluent Influent Second Mid-First Mid-Treatment Treatment Sample Location 206-306-1907 SIGNATURE Sample Depth N/A N/A N/A N/Α ID ID)||A-8| 7/26/23| 1155 SAMPLE CHAIN OF CUSTODY Date Sampled PROJECT NAME/NO SAMPLERS (signature) REMARKS * SAMPLES COLLECTED FOR DISSOLVED Ballard Blocks II Property; Arsenic Treatment System Water Sampling APSENIC ANALYSIS WERE FICTERED FICTER ロカロ シャニ 1150 Time Sampled DNATHAN GEFFLER WATER Matrix PRINT NAME # of Jars 5 5 X X X X Total Arsenic (200.8)DISSOLUED APTEND (200.8) 1249-001-06 SOUND EARTH P0# ANALYSES REQUESTED COMPANY Samples received at Rush charges authorized by: TURNAROUND TIME Standard (5 days) Will call with instructions Return samples Dispose after 30 days HNO₃ preserved HNO₃ preserved HNO₃ preserved HNO₃ preserved SAMPLE DISPOSAL 7/28/23 DATE Notes * 大 1405 TIME

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

August 29, 2023

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on August 23, 2023 from the SOU_1249-001-06_ 20230823, F&BI 308369 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Chris Carter, Jonathan Loeffler, Kyle Lowery SOU0829R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 23, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20230823, F&BI 308369 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
308369 -01	1249_GW_INF_20230817
308369 -02	1249_GW_MID01_20230817
308369 -03	1249_GW_MID02_20230817
308369 -04	1249_GW_EFF_20230817

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: 1249_GW_INF_20230817 Client: SoundEarth Strategies

Date Received: 08/23/23 Project: SOU_1249-001-06_ 20230823

 Date Extracted:
 08/23/23
 Lab ID:
 308369-01

 Date Analyzed:
 08/24/23
 Data File:
 308369-01.042

 Matrix:
 Water
 Instrument:
 ICPMS2

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic 29.1

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: $1249_GW_EFF_20230817$ Client: SoundEarth Strategies

Date Received: 08/23/23 Project: SOU_1249-001-06_ 20230823

 Date Extracted:
 08/23/23
 Lab ID:
 308369-04

 Date Analyzed:
 08/24/23
 Data File:
 308369-04.043

 Matrix:
 Water
 Instrument:
 ICPMS2

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies

Date Received: Not Applicable Project: SOU_1249-001-06_ 20230823

Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_INF_20230817 Client: SoundEarth Strategies

Date Received: 08/23/23 Project: SOU_1249-001-06_20230823

 Date Extracted:
 08/23/23
 Lab ID:
 308369-01

 Date Analyzed:
 08/24/23
 Data File:
 308369-01.044

 Matrix:
 Water
 Instrument:
 ICPMS2

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic 28.9

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID01_20230817 Client: SoundEarth Strategies

Date Received: 08/23/23 Project: SOU_1249-001-06_20230823

08/23/23 Lab ID: 308369-02 Date Extracted: Date Analyzed: 08/24/23 Data File: 308369-02.045 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 1.39

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID02_20230817 Client: SoundEarth Strategies

Date Received: 08/23/23 Project: SOU_1249-001-06_20230823

Lab ID: 08/23/23 308369-03 Date Extracted: Date Analyzed: 08/24/23 Data File: 308369-03.057 Matrix: ICPMS2 Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_EFF_20230817 Client: SoundEarth Strategies

Date Received: 08/23/23 Project: SOU_1249-001-06_ 20230823

08/23/23 Lab ID: 308369-04 Date Extracted: Date Analyzed: 08/24/23 Data File: 308369-04.058 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies

Date Received: Not Applicable Project: SOU_1249-001-06_20230823

Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 08/29/23 Date Received: 08/23/23

Project: SOU_1249-001-06_ 20230823, F&BI 308369

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	94	95	85-115	1

ENVIRONMENTAL CHEMISTS

Date of Report: 08/29/23 Date Received: 08/23/23

Project: SOU_1249-001-06_ 20230823, F&BI 308369

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	94	95	85-115	1

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

	Send Report to Chris Cass; Chris Carter; Jonathan Loeffler	and Kyle Livery	
DECT IN TO THE ORD		SAMPLERS (signature)	SAMPLE CHAIN OF C

Company. Address 1011 SW KLICKITAT WAY, SUITE 212 2811 Fairview Avenue E. Suite 2000 SoundEarth Strategies, Inc.

Phone # City, State, ZIP_ 206-306-1900 Seattle, Washington 98102 _Fax #_ 206-306-1907

98134

PROJECT NAME/NO. Ballard Blocks II Property; Arsenic

Treatment System Water Sampling

1249-001-06

P0#

* SAMPLES COLLECTED FOR DISSOLUED ARSENIC ANALYSIS WERE FILTERED IN THE FIELD THROUGH O,45 MICRON FILTER. REMARKS

> Rush charges authorized by: THRNAROUND TIME Standard (5 days) Page #_ of

Will call with instructions Return samples Dispose after 30 days SAMPLE DISPOSAL

				1249_GW_EFF_2C23CE17 Effluent N/A 04# 1525 1 2 1	Treatment N/A OS 1320 1	First Mid- N/A Q 1315	1249_GW_INF_ 20230817 Influent N/A 01A4 8/17/23 1310 WATER 2 >	Sample ID Sample Sample Lab Date Time Hof see Location Depth ID Sampled Sampled Sampled Sampled For The Sampled Sample Sam
	0	3		 ×	^	×	×	(200.8) DISSOLVED ARSENIC (200.8)
	17/23		shiples					
			shiples received at 4°C	HNO3 preserved *	HNO ₃ preserved	HNO ₃ preserved	HNO ₃ preserved *	Notes



_					
	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	Relinquished by:	JONATHAN LOEFFLER SOUNDER	SOUNDEARTH	8/23/23 1235	1235
No. of the last	Received by: Howke	HONZ Namen	FOX	8/23/2-12:35	12:35
	Relinquished by:				
	Received by:				

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

October 5, 2023

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on September 28, 2023 from the SOU_1249-001-06_ 20230928, F&BI 309489 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Chris Carter, Kyle Lowery, Jonathan Loeffler SOU1005R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 28, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20230928, F&BI 309489 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
309489 -01	1249_GW_INF_20230925
309489 -02	1249_GW_MID01_20230925
309489 -03	1249_GW_MID02_20230925
309489 -04	1249_GW_EFF_20230925

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: 1249_GW_INF_20230925 Client: SoundEarth Strategies

Date Received: 09/28/23 Project: SOU_1249-001-06_20230928

 Date Extracted:
 10/02/23
 Lab ID:
 309489-01

 Date Analyzed:
 10/02/23
 Data File:
 309489-01.179

 Matrix:
 Water
 Instrument:
 ICPMS2

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic 24.2

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: 1249_GW_EFF_20230925 Client: SoundEarth Strategies

Date Received: 09/28/23 Project: SOU_1249-001-06_20230928

10/02/23 Lab ID: 309489-04 Date Extracted: Date Analyzed: 10/02/23 Data File: 309489-04.180 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 4.42

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies

Date Received: Not Applicable Project: SOU_1249-001-06_ 20230928

Units: water instrument: ICFMS2
Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_INF_20230925 Client: SoundEarth Strategies

Date Received: 09/28/23 Project: SOU_1249-001-06_ 20230928

09/29/23 Lab ID: 309489-01 Date Extracted: Date Analyzed: 09/29/23 Data File: 309489-01.088 ICPMS2Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 21.8

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID01_20230925 Client: SoundEarth Strategies

Date Received: 09/28/23 Project: SOU_1249-001-06_ 20230928

09/29/23 Lab ID: 309489-02 Date Extracted: Date Analyzed: 09/29/23 Data File: 309489-02.089 ICPMS2Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 4.87

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID02_20230925 Client: SoundEarth Strategies

Date Received: 09/28/23 Project: SOU_1249-001-06_20230928

Lab ID: 09/29/23 309489-03 Date Extracted: Date Analyzed: 09/29/23 Data File: 309489-03.090 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 1.78

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_EFF_20230925 Client: SoundEarth Strategies

Date Received: 09/28/23 Project: SOU_1249-001-06_20230928

09/29/23 Lab ID: 309489-04 Date Extracted: Date Analyzed: 09/29/23 Data File: 309489-04.091 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 1.03

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies

Date Received: Not Applicable Project: SOU_1249-001-06_ 20230928

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 10/05/23 Date Received: 09/28/23

Project: SOU_1249-001-06_ 20230928, F&BI 309489

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: 309532-05 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	18.9	102 b	97 b	70-130	5 b

Laboratory Code: Laboratory Control Sample

			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
Arsenic	ug/L (ppb)	10	94	85-115	•

ENVIRONMENTAL CHEMISTS

Date of Report: 10/05/23 Date Received: 09/28/23

Project: SOU_1249-001-06_ 20230928, F&BI 309489

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 309470-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	<1	90	89	70-130	1

Laboratory Code: Laboratory Control Sample

		Percent					
	Reporting	Spike	Recovery	Acceptance			
Analyte	Units	Level	LCS	Criteria			
Arsenic	ug/L (ppb)	10	87	85-115			

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

09/28/23

Chris Cass; Chris Carter; Kyle Lowery,

Jonathan Loeffler

Address Company_ 1101 Southwest Klickitat Way, Suite 212 SoundEarth Strategies, Inc

City, State, ZIP_ Seattle, Washington 98134

Phone # 206-306-1900 _Fax#_

206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.

Treatment System Water Sampling REMARKS Ballard Blocks II Property; Arsenic

* Samples collected for Dissolved Arsenic analysis were filtered in the field through 0.45micron filter

Standard (5 days) TURNAROUND TIME Page # 1 of

Rush charges authorized by:

1249-001-06

PO#

Dispose after 30 days SAMPLE DISPOSAL

Will call with instructions Return samples

			1249_GW_EFF_ 20230925	1249_GW_MID02_26236925	1249_GW_MID01_2023c925	1249_GW_INF_20230925	Sample ID	
			Effluent	Second Mid- Treatment	First Mid- Treatment	Influent	Sample Location	
			N/A	N/A	N/A	N/A	Sample Depth	
i			OHA-B	63	2	014-6	Lab ID	
			-			01A-B 9/25/23 1150 WATER 2	Date Sampled	
			1135	0411	1145	1150	Time Sampled	
		>	}			WATER	Matrix	
			2	_	1	کم	# of Jars	
			X	X	×	×	Total Arsenic (200.8)	
			X			X	Dissolved Arsenic (200.8)	
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	- C.	, , , , , , , , , , , , , , , , , , ,	HNO ₃ preserved *	HNO ₃ preserved	HNO3 preserved	HNO ₃ preserved *	Notes	ANALYSES REQUESTED

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

November 2, 2023

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on October 27, 2023 from the SOU_1249-001-06_ 20231027, F&BI 310516 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Chris Carter, Kyle Lowery, Jonathan Loeffler SOU1102R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 27, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20231027, F&BI 310516 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
310516 -01	1249_GW_INF_20231025
310516 -02	1249_GW_MID01_20231025
310516 -03	1249_GW_MID02_20231025
310516 -04	1249_GW_EFF_20231025

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_INF_20231025 Client: SoundEarth Strategies

Date Received: 10/27/23 Project: SOU_1249-001-06_20231027

 Date Extracted:
 10/30/23
 Lab ID:
 310516-01

 Date Analyzed:
 10/30/23
 Data File:
 310516-01.155

 Matrix:
 Water
 Instrument:
 ICPMS2

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic 15.3

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID01_20231025 Client: SoundEarth Strategies

Date Received: 10/27/23 Project: SOU_1249-001-06_20231027

Lab ID: 10/30/23 310516-02 Date Extracted: Date Analyzed: 10/30/23 Data File: 310516-02.156 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 5.58

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID02_20231025 Client: SoundEarth Strategies

Date Received: 10/27/23 Project: SOU_1249-001-06_20231027

Lab ID: 10/30/23 310516-03 Date Extracted: Date Analyzed: 10/30/23 Data File: 310516-03.157 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 2.14

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_EFF_20231025 Client: SoundEarth Strategies

Date Received: 10/27/23 Project: SOU_1249-001-06_20231027

 Date Extracted:
 10/30/23
 Lab ID:
 310516-04

 Date Analyzed:
 10/30/23
 Data File:
 310516-04.158

 Matrix:
 Water
 Instrument:
 ICPMS2

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies

Date Received: Not Applicable Project: SOU_1249-001-06_ 20231027

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 11/02/23 Date Received: 10/27/23

Project: SOU_1249-001-06_ 20231027, F&BI 310516

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 310516-04 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	1.48	99	101	70-130	2

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	92	85-115

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
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- L The reported concentration was generated from a library search.
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- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

310516

SAMPLE CHAIN OF CUSTODY

10/27/25 J2

City	Add	Com	Seno
, State,	Address	Company_	Send Report to Ch Jonathan Loeffler
ZIP	1101	70	t to <u>Chr</u> oeffler
Seattle,	Southw	SoundEa	is Cass;
Washin	est Klic	urth Stra	Chris C
City, State, ZIP Seattle, Washington 98134	kitat Wa	SoundEarth Strategies, Inc.	arter; K
34	1101 Southwest Klickitat Way, Suite 212	nc.	Send Report to <u>Chris Cass;</u> Chris Carter; Kyle Lowery, <u>Jonathan Loeffler</u>
	212		ery,

Phone #_

206-306-1900

Fax # 206-306-1907

<u>filtered in the field through 0.45micron filter</u>

*Samples collected for Dissolved Arsenic analysis were	REMARKS	Treatment System Water Sampling	Rolland Blocks II Property: Arcanic	PROJECT NAME/NO.	SAMPLERS (signature)
analysis were		1110 001 00	1949-001-06	PO#	

Rush charges authorized by:

Standard (5 days)

Page # 1 of _____
TURNAROUND TIME

Return samples
Will call with instructions

Dispose after 30 days

SAMPLE DISPOSAL

		1249_GW_EFF_20231025	1249_GW_MID02_26231025	1249_GW_MID01_20231025	1249_GW_INF_2023\025	Sample ID	
		Effluent	Second Mid- Treatment	First Mid- Treatment	Influent	Sample Location	
		N/A	N/A	N/A	N/A	Sample Depth	
		9	63	40	01	Lab ID	
		1			10/25/23	Date Sampled	
	>	1500	1505	1510	10/25/23 1515 WATER	Time Sampled	
T	•	-			WATER	Matrix	
jo		_		_		# of Jars	
125		×	×.	×	×	Total Arsenic (200.8)	
23						Dissolved Arsenic (200.8)	
							ANALY
es							SES RI
emples received at °C		HNO3 preserved	HNO ₃ preserved	HNO ₃ preserved	HNO3 preserved	Notes	ANALYSES REQUESTED



	l.	No. of Concession, Name of Street, or other Persons, Name of Street, or ot		
Received by:	Relinquished by:	Received by: mlm/ans	Relinquished by:	SIGNATURE
		Whan Phan	JONATHAN LOEFFLER	PRINT NAME
		TO BIT	SOUNDEARTH	COMPANY
		10/27/23/1/50	10/27/23 1/52	DATE
		3 1150	1152)	TIME

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

December 6, 2023

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on November 30, 2023 from the SOU_1249-001-06_ 20231130, F&BI 311401 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Chris Carter, Kyle Lowery, Jonathan Loeffler SOU1206R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 30, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20231130, F&BI 311401 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
311401 -01	1249_GW_INF_20231121
311401 -02	1249_GW_MID01_20231121
311401 -03	1249_GW_MID02_20231121
311401 -04	1249_GW_EFF_20231121

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_INF_20231121 Client: SoundEarth Strategies

Date Received: 11/30/23 Project: SOU_1249-001-06_20231130

Lab ID: 11/30/23 311401-01 Date Extracted: Date Analyzed: 12/01/23 Data File: 311401-01.130 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 6.62

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID01_20231121 Client: SoundEarth Strategies

Date Received: 11/30/23 Project: SOU_1249-001-06_20231130

11/30/23 Lab ID: 311401-02 Date Extracted: Date Analyzed: 12/01/23 Data File: 311401-02.131 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID02_20231121 Client: SoundEarth Strategies

Date Received: 11/30/23 Project: SOU_1249-001-06_20231130

Lab ID: 11/30/23 311401-03 Date Extracted: Date Analyzed: 12/01/23 Data File: 311401-03.134 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_EFF_20231121 Client: SoundEarth Strategies

Date Received: 11/30/23 Project: SOU_1249-001-06_20231130

 Date Extracted:
 11/30/23
 Lab ID:
 311401-04

 Date Analyzed:
 12/01/23
 Data File:
 311401-04.135

 Matrix:
 Water
 Instrument:
 ICPMS2

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies
Date Received: Not Applicable Project: SOU_1249-001-06_20231130

Date Extracted: 11/30/23 Lab ID: I3-941 mb
Date Analyzed: 12/01/23 Data File: I3-941 mb.081
Matrix: Water Instrument: ICPMS2

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 12/06/23 Date Received: 11/30/23

Project: SOU_1249-001-06_ 20231130, F&BI 311401

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 311393-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	10.6	78 b	78 b	70-130	0 b

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	86	85-115

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

_

Company_

Address_

Cass; Chris Carter; Kyle Lowery, SAMPLE CHAIN OF CUST

SAMPLERS (signature)	ATOURS OF CORLODA
1	Ξ

PROJECT NAME/NŐ. Ballard Blocks II Property; Arsenic P0#

Treatment System Water Sampling 1249-001-06

filtered in the field through 0.45 micron filter *Samples collected for Dissolved Arsonic analysis were filter- AF

Phone #_

206-306-1900

Fax #

206-306-1907

City, State, ZIP <u>Seattle, Washington 98134</u>

REMARKS

1101 Southwest Klickitat Way. Suite 212

SoundEarth Strategies, Inc.

TURNAROUND TIME

Page #_

Rush charges authorized by: Dispose after 30 days Standard (5 days) SAMPLE DISPOSAL

Will call with instructions Return samples

Relinquish								1249_GW_INF_ 2023 21	Sample ID	
SIGNATURE Relinquished by:						-	First Mid- Treatment	Influent	Sample Location	
			$\parallel \parallel$		N/A	N/A	N/A	N/A	Sample Depth	
)			+	Ç	3	3 8		3	Lab ID	
1				1			(7/1.2)	11/71/72 275	Date Sampled	
PR				1305	1310	CICI	- 1	1	Time Sampled	
PRINT NAME				1			NA IER		Matrix	
AME		1	>	_	-		_		# of Jars	
			6	×	X.	×	×	Total	Arsenic 00.8)	
H		11/21/						Dissolve (2)	ed Arsenic 00.8)	
CO		23							-	A.
COMPANY			+							NALYSE
DATE				HNO3 preserved #97	HNO ₃ preserved	HNO3 preserved	HNO3 preserved \$37	110,000	No.	ANALYSES REQUESTED
TIME	1			7						

trategies

Relinquished by:

Received by:

JONATHAN

LOEFFIER

SOUNDEARTH

11/30/23

0101

DATE

TIME

F81

11/30/23

10:10

Samples received at

ANHPHAN

Received by:

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

January 5, 2024

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on December 29, 2023 from the SOU_1249-001-06_ 20241229, F&BI 312480 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Chris Carter, Kyle Lowery, Jonathan Loeffler SOU0105R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 29, 2023 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20241229, F&BI 312480 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
312480 -01	1249_GW_INF_20231228
312480 -02	1249_GW_MID01_20231228
312480 -03	1249_GW_MID02_20231228
312480 -04	1249_GW_EFF_20231228

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_INF_20231228 Client: SoundEarth Strategies

Date Received: 12/29/23 Project: SOU_1249-001-06_20241229

 Date Extracted:
 01/02/24
 Lab ID:
 312480-01

 Date Analyzed:
 01/02/24
 Data File:
 312480-01.043

 Matrix:
 Water
 Instrument:
 ICPMS2

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic 38.6

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID01_20231228 Client: SoundEarth Strategies

Date Received: 12/29/23 Project: SOU_1249-001-06_20241229

01/02/24 Lab ID: 312480-02 Date Extracted: Date Analyzed: 01/02/24 Data File: 312480 - 02.164Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 5.89

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID02_20231228 Client: SoundEarth Strategies

Date Received: 12/29/23 Project: SOU_1249-001-06_20241229

Lab ID: 01/02/24 312480-03 Date Extracted: Date Analyzed: 01/02/24 Data File: 312480 - 03.165Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_EFF_20231228 Client: SoundEarth Strategies

Date Received: 12/29/23 Project: SOU_1249-001-06_ 20241229

01/02/24 Lab ID: 312480-04 Date Extracted: Date Analyzed: 01/02/24 Data File: 312480-04.166 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies
Date Received: Not Applicable Project: SOU_1249-001-06_20241229

01/02/24 Lab ID: Date Extracted: I4-2 mbDate Analyzed: 01/02/24 Data File: I4-2 mb.041 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 01/05/24 Date Received: 12/29/23

Project: SOU_1249-001-06_ 20241229, F&BI 312480

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 312480-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	38.6	96 b	103 b	70-130	7 b

Laboratory Code: Laboratory Control Sample

			$\operatorname{Percent}$	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	97	85-115

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
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- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Sent Report to Chris Cass; Chris Carter; Kyle Lowery, Jonathan Loeffler

Company. SoundEarth Strategies, Inc.

Address

1101 Southwest Klickitat Way, Suite 212

City, State, ZIP Seattle, Washington 98134

Phone # 206-306-1900 Fax # 206-306-1907

> SAMPLERS (signature) PROJECT NAME/NO. 12/29/23

SAMPLE CHAIN OF CUSTODY

Ballard Blocks II Property; Arsenic

PO#

Standard (5 days)

TURNAROUND TIME Page # ___1 ___ of __

Treatment System Water Sampling REMARKS

1249-001-06

filtered in the field through 0.45micron filter, Af Samples collected for Dissolved Arsenic analysis were

> Rush charges authorized by: Return samples Dispose after 30 days SAMPLE DISPOSAL

Will call with instructions

					1249_GW_EFF_20231228	1249_GW_MID02_20131228	1249_GW_MID01_20231228	1249_GW_INF_ 20231228	Sample ID	
					Effluent	Second Mid- Treatment	First Mid- Treatment	Influent	Sample Location	
					N/A	N/A	N/A	N/A	Sample Depth	
					2	03	60	0)	Lab ID	
					+	- 2		12/28/23	Date Sampled	
		\mathcal{C}			1425	1430	1435	12/28/23 1440 WATER	Time Sampled	
	<	1/4	A	•	-			WATER	Matrix	
					_	1	_	_	# of Jars	
10		27/1	7/2		X	X	×	×	Total Arsenic (200.8)	
		\$ 2/5							Dissolved Arsenic (200.8)	
				Sa						Al
	1			Samples						NALYSI
				rece	I	I	I	H		SREQ
*				received at & of	HNO3 preserved X 87	HNO3 preserved	HNO3 preserved	HNO3 preserved $ imes {\cal F} {\cal F}$	Notes	ANALYSES REQUESTED



	S	A A		
Received by:	Relinquished by:	Received by: U	Relinquished by:	SIGNATURE
		ANH PHAN	JONATHAN LOEFFLER SOUNDEARTH	PRINT NAME
		F8b		COMPANY
		12/29/23 15:05	12/29/23 1505	DATE
		15:05	1505	TIME

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S.

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

February 8, 2024

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on January 31, 2024 from the SOU_1249-001-06_ 20240131, F&BI 401407 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl **Project Manager**

Enclosures

c: Chris Carter, Kyle Lowery

SOU0208R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 31, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_ 20240131, F&BI 401407 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
401407 -01	1249_GW_INF_20240130
401407 -02	1249_GW_MID01_20240130
401407 -03	1249_GW_MID02_20240130
401407 -04	1249_GW_EFF_20240130

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_GW_INF_20240130$ Client: SoundEarth Strategies

Date Received: 01/31/24 Project: SOU_1249-001-06_ 20240131

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic 27.9

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID01_20240130 Client: SoundEarth Strategies

Date Received: 01/31/24 Project: SOU_1249-001-06_20240131

02/01/24 Lab ID: 401407-02 Date Extracted: Date Analyzed: 02/01/24 Data File: 401407-02.138 ICPMS2Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 2.80

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_GW_MID02_20240130 Client: SoundEarth Strategies

Date Received: 01/31/24 Project: SOU_1249-001-06_20240131

02/01/24 Lab ID: 401407-03 Date Extracted: Date Analyzed: 02/01/24 Data File: 401407-03.139 ICPMS2Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_GW_EFF_20240130$ Client: SoundEarth Strategies

Date Received: 01/31/24 Project: SOU_1249-001-06_ 20240131

02/05/24 Lab ID: 401407-04 Date Extracted: Date Analyzed: 02/05/24 Data File: 401407-04.083 ICPMS2Matrix: Water Instrument: Units: ug/L (ppb) MGOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies
Date Received: Not Applicable Project: SOU_1249-001-06_20240131

02/01/24 Lab ID: I4-73 mb2Date Extracted: Date Analyzed: 02/01/24 Data File: I4-73 mb2.065 ICPMS2 Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies
Date Received: Not Applicable Project: SOU_1249-001-06_20240131

02/05/24 Lab ID: I4-86 mbDate Extracted: Date Analyzed: 02/05/24 Data File: I4-86 mb.076 ICPMS2 Matrix: Water Instrument: Units: ug/L (ppb) MGOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 02/08/24 Date Received: 01/31/24

Project: SOU_1249-001-06_ 20240131, F&BI 401407

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 401383-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	<1	88	98	70-130	11

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	94	85-115

ENVIRONMENTAL CHEMISTS

Date of Report: 02/08/24 Date Received: 01/31/24

Project: SOU_1249-001-06_ 20240131, F&BI 401407

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 401407-04 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	<1	101	101	70-130	0

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	93	85-115

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
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- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

Jonathan Loeffler Send Report to Chris Cass; Chris Carter; Kyle Lowery,

Company. SoundEarth Strategies, Inc

Address_ 1101 Southwest Klickitat Way, Suite 212

REMARKS

City, State, ZIP Seattle, Washington 98134

206-306-1900 Fax #_ 206-306-1907

> SAMPLERS (signature) PROJECT NAME/NO Treatment System Water Sampling Ballard Blocks II Property; Arsenic 1249-001-06 PO#

Rush charges authorized by: Standard (5 days) Page #_ TURNAROUND TIME

ht

*Samples collected for Dissolved Arsenic analysis were-filtered in the field through 0.45micron filter— PF Return samples Will call with instructions Dispose after 30 days SAMPLE DISPOSAL

Sample ID Sample Lab Date Sample Lab Date Sampled Sampled				T							· · · · · · · · · · · · · · · · · · ·	
Sample Lab Date Time Matrix # of Sampled Sampled Sampled Sampled Jars Jars							1249_GW_EFF_20240130	1249_GW_MID02_26240130	1249_GW_MID01_26246136	1249_GW_INF_ 2024 0130	Sample ID	,
Lab Date Time Matrix # of							Effluent	Second Mid- Treatment	First Mid- Treatment	Influent	Sample Location	
Date Sampled Sampled Sampled Sampled Sampled Sampled Jars Jars Jars Total Arsenic (200.8)								N/A	N/A	N/A	Sample Depth	
Total Arsenic (200.8) Dissolved Arsenic (200.8)							20	60	02	0)	Lab ID	
Total Arsenic (200.8) Dissolved Arsenic (200.8)							+			1/30/24	Date Sampled	•
Total Arsenic (200.8) Dissolved Arsenic (200.8)							1250	1255	1300	1305	Time Sampled	
Total Arsenic (200.8) Dissolved Arsenic (200.8)	,	0,0		X.	>		+			WATER	Matrix	
Dissolved Arsenic (200.8)			1	1	_		-	-	~	-	# of Jars	
(200.8)			10/10	2/			X	Х	X	X		
HNO3 preserved HNO3 preserved HNO3 preserved HNO3 preserved HNO3 preserved A Samples received at			h2/0					,			Dissolved Arsenic (200.8)	
Notes HNO3 preserved HNO3 preserved HNO3 preserved HNO3 preserved A Sample3 received at		1	_								·	A
Notes HNO3 preserved HNO3 preserved HNO3 preserved HNO3 preserved		\perp		(2								NALY
Notes HNO3 preserved HNO3 preserved HNO3 preserved HNO3 preserved				amp								SES RE
				20		(B)	HNO3 preserved	HNO3 preserved	HNO3 preserved	HNO3 preserved KJ	Notes	ANALYSES REQUESTED



Received by: Re		es	A.		
SOUNDEARTH F89	Received by:	Relinquished by:	(Relinquished by:	SIGNATURE
			ANHPHAN	JONATHAN LAEFFIEL	PRINT NAME
1/31/24 12.50 61/31/44 12.50			F8.4	SOUNDEAR TH	COMPANY
1250			01/31/24	1/31/24	DATE
			12:50	1250	TIME

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Ave South Seattle, WA 98108-2419 (206) 285-8282 office@friedmanandbruya.com www.friedmanandbruya.com

March 8, 2024

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on March 1, 2024 from the SOU_1249-001-06_20240301, F&BI 403009 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Chris Carter, Jonathan Loeffler SOU0308R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 1, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_20240301, F&BI 403009 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
403009 -01	1249_GW_INF_20240228
403009 -02	1249_GW_MID01_20240228
403009 -03	1249_GW_MID02_20240228
403009 -04	1249_GW_EFF_20240228

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Lab ID: 03/04/24 403009-01 Date Extracted: Date Analyzed: 03/04/24 Data File: 403009-01.059 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic 24

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_MID01_20240228}$ Client: SoundEarth Strategies Date Received: 03/01/24 Project: SOU_1249-001-06_20240301

Lab ID: 03/04/24 403009-02 Date Extracted: Date Analyzed: 03/04/24 Data File: 403009-02.077 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 2.7

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_MID02_20240228}$ Client: SoundEarth Strategies Date Received: 03/01/24 Project: SOU_1249-001-06_20240301

Lab ID: 03/04/24 403009-03 Date Extracted: Date Analyzed: 03/04/24 Data File: 403009-03.078 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

03/04/24 Lab ID: 403009-04 Date Extracted: Date Analyzed: 03/04/24 Data File: 403009-04.079 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies
Date Received: Not Applicable Project: SOU_1249-001-06_20240301

03/04/24 Lab ID: I4-169 mb Date Extracted: Date Analyzed: 03/04/24 Data File: I4-169 mb.056 ICPMS2 Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/24 Date Received: 03/01/24

Project: SOU_1249-001-06_20240301, F&BI 403009

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 403009-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	24.4	90 b	104 b	70-130	14 b

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	98	85-115

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

403009

SAMPLE CHAIN OF CUSTODY

05/01/24 12

Send R	
Send Report to Chris Cass; Chris Carter; Jo	
o Chris	
Cass;	
Chris	
Carter;	
Jonathan l	
Loeffle	

Company SoundEarth Strategies, Inc.

2811 Fairview Avenue E, Suite 2000

Address

City, State, ZIP Seattle, Washington 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO:

PO#

Ballard Blocks II Property; Arsenic
Treatment System Water Sampling

REMARKS

Page # 1 of 1
TURNAROUND TIME

Standard (5 days)

Rush charges authorized by:

SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

				<			0		
	6/24	2/28		1					
			1						
Samples received at									
HNO ₃ preserved	X	_	+	1530	+	40	N/A	Effluent	1249_GW_EFF_20240228
HNO3 preserved	X	_		1535		03	N/A	Second Mid- Treatment	1249_GW_MID02_2024622&
HNO ₃ preserved	×	_		1540		02	N/A	First Mid- Treatment	1249_GW_MID01_20240228
HNO ₃ preserved	×	1	WATER	2/12/24 1545	1/22/24	0	N/A	Influent	1249_GW_INF_20240228
Notes	Total Arsenic (200.8)	# of Jars	Matrix	Time Sampled	Date Sampled	Lab ID	Sample Depth	Sample Location	Sample ID
ANALYSES REQUESTED									



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Received by:	Relinquished by:	Received by:	Relinquished by	SIGNATURE
		ANHPHAN	JONATHAN LOEFFIEL SOUNDEARTH	PRINT NAME
		F8 6	SOUNDEARTH	COMPANY
		03/01/24 11:40	3/1/24	DATE
		11:40	1140	TIME

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Ave South Seattle, WA 98108-2419 (206) 285-8282 office@friedmanandbruya.com www.friedmanandbruya.com

April 3, 2024

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on March 27, 2024 from the SOU_1249-001-06_20240327, F&BI 403416 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Chris Carter, Kyle Lowery, Jonathan Loeffler SOU0403R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 27, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_20240327, F&BI 403416 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
403416 -01	1249_GW_INF_20240327
403416 -02	1249_GW_MID01_20240327
403416 -03	1249_GW_MID02_20240327
403416 -04	1249_GW_EFF_20240327

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_INF_20240327}$ Client: SoundEarth Strategies Date Received: 03/27/24 Project: SOU_1249-001-06_20240327

Date Extracted: 03/28/24 Lab ID: 403416-01 x10
Date Analyzed: 03/29/24 Data File: 403416-01 x10.160

 $\begin{array}{cccc} \text{Matrix:} & \text{Water} & \text{Instrument:} & \text{ICPMS2} \\ \text{Units:} & \text{ug/L (ppb)} & \text{Operator:} & \text{SP} \end{array}$

Concentration

Analyte: ug/L (ppb)

Arsenic 32

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_MID01_20240327}$ Client: SoundEarth Strategies Date Received: 03/27/24 Project: SOU_1249-001-06_20240327

Lab ID: 03/28/24 403416-02 Date Extracted: Date Analyzed: 03/29/24 Data File: 403416-02.161 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 2.8

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_MID02_20240327}$ Client: SoundEarth Strategies Date Received: 03/27/24 Project: SOU_1249-001-06_20240327

Lab ID: 03/28/24 403416-03 Date Extracted: Date Analyzed: 03/29/24 Data File: 403416-03.162 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_GW_EFF_20240327$ Client: SoundEarth Strategies Date Received: 03/27/24 Project: SOU_1249-001-06_20240327

03/28/24 Lab ID: 403416-04 Date Extracted: Date Analyzed: 03/29/24 Data File: 403416-04.167 Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies
Date Received: Not Applicable Project: SOU_1249-001-06_20240327

 Date Extracted:
 03/28/24
 Lab ID:
 I4-246 mb2

 Date Analyzed:
 03/28/24
 Data File:
 I4-246 mb2.056

Matrix: Water Instrument: ICPMS2 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 04/03/24 Date Received: 03/27/24

Project: SOU_1249-001-06_20240327, F&BI 403416

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 403402-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	<1	84	89	70-130	6

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	95	85-115

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Jonathan Loeffler

City, State, ZIP Seattle, Washington 98134

Phone #

206-306-1900

Fax #_

206-306-1907

Address

1101 Southwest Klickitat Way, Suite 212

SoundEarth Strategies, Inc.

Company

Send Report to Chris Cass; Chris Carter; Kyle Lowery.

SAMPLE CHAIN OF CUSTODY

SAMPLERS (signature)

Standard (5 days) TURNAROUND TIME

Rush charges authorized by:

Return samples
Will call with instructions Dispose after 30 days SAMPLE DISPOSAL

Steered in the field through 0.45 micron filter & PROJECT NAME/NO REMARKS *Samples collected for Dissolved Arsenic analycis were Ballard Blocks II Property; Arsenic Treatment System Water Sampling 1249-001-06 PO#

				1249_GW_EFF_20240327	1249_GW_MID02_727403.27	1249_GW_MID01_28740377	1249_GW_INF_ 20240327	Sample ID	
				Effluent	Second Mid- Treatment	First Mid- Treatment	Influent	Sample Location	
	H			N/A	N/A	N/A	N/A	Sample Depth	
				ha	2	20	<u>G</u>	Lab ID	
				+			01 3/27/24 1055	Date Sampled	
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		w		+			WATER	Matrix	
		3/17		1	_	-	-	# of Jars	
	-	2		×	×	×	×	Total Arsenic (200.8)	
								Dissolved Arsenic (200.8)	
									ANAL
									SES R
				HNO3 preserved (33	HNO ₃ preserved	HNO ₃ preserved	HNO3 preserved N \$7	Notes	ANALYSES REQUESTED

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		ANHPHAN	JONATHAN LOEFFLER SOUND	PRINT NAME
	Samples received at	FSh	SOUNDEARTH 3/27/24 13:18	COMPANY
	Set U	15/12/24	3/27/24	DATE
	3	13:18	13:18	TIME

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Ave South Seattle, WA 98108-2419 (206) 285-8282 office@friedmanandbruya.com www.friedmanandbruya.com

May 1, 2024

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on April 26, 2024 from the SOU_1249-001-06_20240426, F&BI 404444 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Chris Carter, Kyle Lowery, Jonathan Loeffler SOU0501R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 26, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_20240426, F&BI 404444 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
404444 -01	1249_GW_INF_20240425
404444 -02	1249_GW_MID01_20240425
404444 -03	1249_GW_MID02_20240425
404444 -04	1249_GW_EFF_20240425

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_{INF}}$ Client: SoundEarth Strategies Date Received: 04/26/24 Project: SOU_1249-001-06_20240426

04/29/24 Lab ID: 404444-01 Date Extracted: Date Analyzed: 04/29/24 Data File: 404444-01.120 Matrix: ICPMS2 Water Instrument: Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic 25

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_MID01_20240425}$ Client: SoundEarth Strategies Date Received: 04/26/24 Project: SOU_1249-001-06_20240426

 Date Extracted:
 04/29/24
 Lab ID:
 404444-02

 Date Analyzed:
 04/29/24
 Data File:
 404444-02.123

 Matrix:
 Water
 Instrument:
 ICPMS2

Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic 2.0

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_MID02_20240425}$ Client: SoundEarth Strategies Date Received: 04/26/24 Project: SOU_1249-001-06_20240426

04/29/24 Lab ID: 404444-03 Date Extracted: Date Analyzed: 04/29/24 Data File: 404444-03.124 ICPMS2 Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW}_{EFF}_{20240425}$ Client: SoundEarth Strategies Date Received: 04/26/24 Project: SOU_1249-001-06_20240426

04/29/24 Lab ID: 404444-04 Date Extracted: Date Analyzed: 04/29/24 Data File: 404444-04.125 ICPMS2Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies
Date Received: Not Applicable Project: SOU_1249-001-06_20240426

04/29/24 Lab ID: I4-343 mbDate Extracted: Date Analyzed: 04/29/24 Data File: I4-343 mb.086 ICPMS2 Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 05/01/24 Date Received: 04/26/24

Project: SOU_1249-001-06_20240426, F&BI 404444

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 404444-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	24.6	90 b	76 b	70-130	17 b

Laboratory Code: Laboratory Control Sample

			$\operatorname{Percent}$	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	88	85-115

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

トトトトロヤ

Jonathan Loeffler

Send-Report to Chris Cass; Chris Carter; Kyle Lowery, SAMPLE CHAIN OF CUSTODY

Company_ SoundEarth Strategies, Inc.

Address

Phone # 206-306-1900 Fax #

SAMPLERS (signature)

04/26/24 J2

PROJECT NAME/NO

PO#

Standard (5 days)

TURNAROUND TIME

City, State, ZIP Seattle, Washington 98134 1249_GW_EFF_20240425 1249_GW_MID02_20240425 1249_GW_MID01_20240425 1249_GW_INF_ 20240425 Sample ID 1101 Southwest Klickitat Way, Suite 212 First Mid-Second Mid-Influent Treatment **Effluent** Sample Location 206-306-1907 Sample Depth N/A N/A N/A N/A 50 000 0 Lab 4/25/24 1120 Date Sampled filtered in the field through 0.45micron filter REMARKS *Samples collected for Dissolved Arsenic analysis were Treatment System Water Sampling Ballard Blocks II Property; Arsenic Time Sampled 105 0111 115 WATER Matrix # of Jars X Total Arsenic (200.8)Dissolved Arsenic (200.8)1249-001-06 Samples received at ANALYSES REQUESTED Rush charges authorized by: Will call with instructions Return samples Dispose after 30 days HNO₃ preserved HNO₃ preserved HNO3 preserved XXX HNO3 preserved × 8℃ SAMPLE DISPOSAL Notes



	S	C. A.		
Received by:	Relinquished by:	Received by:	Relinquished by:	SIGNATURĘ
		Fric Yours	JONATHAN LOEFFLER SOUNDE	PRINT NAME
	,	FB	CARTH	COMPANY
	`	4/26/24	H2192/H	DATE
		12/	1511	TIME

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 404444 CLIENT SOU	INITIALS DATE:	04/2	16/24
If custody seals are present on cooler, are they intact?	Ø NA	□ YES	□ NO
Cooler/Sample temperature	Therm	ometer ID: F	4 °C
Were samples received on ice/cold packs?		Z YES	□ NO
How did samples arrive? ☐ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO			
Number of days samples have been sitting prior to receipt at	laborato	ry	days
Is there a Chain-of-Custody* (COC)? *or other representative documents, letters, and/or shipping memos		Ø YES	□ NO
Are the samples clearly identified? (explain "no" answer below)		Ç YES	□ NO
Is the following information provided on the COC*? (explain "not be sample ID's	s □ No	elow) YES	
leaking etc.)? (explain "no" answer below)			
Were appropriate sample containers used?	S D NO	O 0	Unknown
If custody seals are present on samples, are they intact?	D∕NA	□ YES	□ NO
Are samples requiring no headspace, headspace free?	Ø NA	□ YES	□ NO
Air Samples: Were any additional canisters/tubes received?	Ø NA	□ YES	□ NO
If Yes: Number of unused TO15 canisters Number of unus	sed TO17	tubes _	
Explain "no" items from above (use the back	if needed)	

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S.

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

June 10, 2024

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on June 4, 2024 from the SOU_1249-001-06_20240604, F&BI 406036 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl **Project Manager**

Enclosures

c: Chris Carter, Kyle Lowery

SOU0610R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 4, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_20240604, F&BI 406036 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
406036 -01	1249_GW_INF_20240529
406036 -02	1249_GW_MID01_20240529
406036 -03	1249_GW_MID02_20240529
406036 -04	1249_GW_EFF_20240529

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_{INF}} = 20240529$ Client: SoundEarth Strategies Date Received: 06/04/24 Project: SOU_1249-001-06_20240604

Lab ID: 06/05/24 406036-01 Date Extracted: Date Analyzed: 06/06/24 Data File: 406036-01.216 Matrix: ICPMS2 Water Instrument: Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic 33

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_MID01_20240529}$ Client: SoundEarth Strategies Date Received: 06/04/24 Project: SOU_1249-001-06_20240604

Lab ID: 06/05/24 406036-02 Date Extracted: Date Analyzed: 06/06/24 Data File: 406036-02.217 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 2.5

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_MID02_20240529}$ Client: SoundEarth Strategies Date Received: 06/04/24 Project: SOU_1249-001-06_20240604

Lab ID: 06/05/24 406036-03 Date Extracted: Date Analyzed: 06/06/24 Data File: 406036-03.218 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_GW_EFF_20240529$ Client: SoundEarth Strategies Date Received: 06/04/24 Project: SOU_1249-001-06_20240604

06/05/24 Lab ID: 406036-04 Date Extracted: Date Analyzed: 06/06/24 Data File: 406036-04.219 Matrix: ICPMS2Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies
Date Received: Not Applicable Project: SOU_1249-001-06_20240604

 Date Extracted:
 06/05/24
 Lab ID:
 14-449 mb2

 Date Analyzed:
 06/05/24
 Data File:
 14-449 mb2.049

 $\begin{array}{ccccc} \text{Matrix:} & \text{Water} & \text{Instrument:} & \text{ICPMS2} \\ \text{Units:} & \text{ug/L (ppb)} & \text{Operator:} & \text{SP} \end{array}$

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 06/10/24 Date Received: 06/04/24

Project: SOU_1249-001-06_20240604, F&BI 406036

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 406031-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	1.58	96	93	70-130	3

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	91	85-115

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

SAMPLERS (signature)

Company	Send Report to <u>Ch</u> Jonathan Loeffler
SoundEarth Strategies, Inc.	Send Report to <u>Chris Cass; Chris Carter; Kyle Lowery.</u> Jonathan Loeffler

City, State, ZIP Seattle, Washington 98134

Address

1101 Southwest Klickitat Way, Suite 212

Phone # 206-306-1900 Fax # 206-306-1907

Samples collected for Dissolved Arsenic an filtered in the field through 0.45micron filter PROJECT NAME/NO. Treatment System Water Sampling REMARKS Ballard Blocks II Property; Arsenic

1	Page #1011
(TURNAROUND TIME
PO#	Standard (5 days)
1249-001-06	Rush charges authorized by:
O TOTAL O TOTAL O	SAMPLE DISPOSAL Dispose after 30 days Return samples
7 97	Will call with instructions

				1249_GW_EFF_20240529	1249_GW_MID02_20240529	1249_GW_MID01_70740529	1249_GW_INF_20240529	Sample ID	
				Effluent	Second Mid- Treatment	First Mid- Treatment	Influent	Sample Location	
				N/A	N/A	N/A	N/A	Sample Depth	
				04	03	02	0	Lab ID	
			œ	}-			5/29/24 1250	Date Sampled	
				1235	1240	1245	1	Time Sampled	
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Samples received at 4 %			TCBI		Court A アルナ		COMPANY	
20 1			me/n/9	. , ,	0/4 /24	* 15.	DATE	T A T
			1713	12/1	1315		TIME	

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT# 406036	CLIENT	SoundEarth		INITIAL DATE:	SI (NP) 61	14/24
If custody seals are	present on coo	oler, are they intac	et?	Å NA	□ YES	□ NO
Cooler/Sample temp	erature			Ther	mometer ID: Flu	2 °C ke 96312917
Were samples receiv	ved on ice/cold	packs?			Z YES	□ NO
How did samples ar	rive? ne Counter	□ Picked up by F&l	ВІ	□ FedEx	/UPS/GSO	
Is there a Chain-of-C			S 🗆 NO		ials/ (0P) e: 6/4/	/24
Number of days san	ples have bee	n sitting prior to r	eceipt at	laborate	ory	_ days
Are the samples clea	arly identified	? (explain "no" answer b	elow)		☑ YES	□ NO
Were all sample con leaking etc.)? (explain			oroken,		右 YES	□ NO
Were appropriate sa	ample contain	ers used?		□N	O 🗆 U	nknown
If custody seals are	present on sar	nples, are they int	act?	☑ NA	□ YES	□ NO
Are samples requiri	ng no headspa	ice, headspace free	e?	Ç∕NA	□ YES	□ NO
Is the following info (explain "no" answer below		ded on the COC, a	nd does i	t match	the samp	le label?
Sample ID's	✓Yes □ No			[Not on CO	OC/label
Date Sampled					Not on CO	OC/label
Time Sampled	√Yes □ No			[Not on CO	OC/label
# of Containers	✓ Yes □ No					
Relinquished	,					
Requested analysis	<i>(</i> *	Hold				
Other comments (us		ge if needed)				
Air Samples: Were a	nny additional FO15 canisters	canisters/tubes re	ceived?	☑ NA ed TO17	□ YES tubes	

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Ave South Seattle, WA 98108-2419 (206) 285-8282 office@friedmanandbruya.com www.friedmanandbruya.com

September 5, 2024

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on August 29, 2024 from the SOU_1249-001-06_20240829, F&BI 408514 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Chris Carter, Kyle Lowery, Jonathan Loeffler SOU0905R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 29, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_20240829, F&BI 408514 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
408514 -01	1249_GW_INF_20240827
408514 -02	1249_GW_MID01_20240827
408514 -03	1249_GW_MID02_20240827
408514 -04	1249_GW_EFF_20240827

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_GW_EFF_20240827$ Client: SoundEarth Strategies Date Received: 08/29/24 Project: SOU_1249-001-06_20240829

Lab ID: 08/30/24 408514-04 Date Extracted: Date Analyzed: 08/30/24 Data File: 408514-04.208 Matrix: Water Instrument: ICPMS3 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_{INF}}$ Client: SoundEarth Strategies Date Received: 08/29/24 Project: SOU_1249-001-06_20240829

08/30/24 Lab ID: 408514-01 Date Extracted: Date Analyzed: 08/30/24 Data File: 408514-01.211 Matrix: Water Instrument: ICPMS3 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 23

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_MID01_20240827}$ Client: SoundEarth Strategies Date Received: 08/29/24 Project: SOU_1249-001-06_20240829

Lab ID: 08/30/24 408514-02 Date Extracted: Date Analyzed: 08/30/24 Data File: 408514-02.212 Matrix: Water Instrument: ICPMS3 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 1.0

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_MID02_20240827}$ Client: SoundEarth Strategies Date Received: 08/29/24 Project: SOU_1249-001-06_20240829

Lab ID: 08/30/24 408514-03 Date Extracted: Date Analyzed: 08/30/24 Data File: 408514-03.213 Matrix: Water Instrument: ICPMS3 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies
Date Received: Not Applicable Project: SOU_1249-001-06_20240829

08/30/24 Lab ID: I4-718 mb Date Extracted: Date Analyzed: 08/30/24 Data File: I4-718 mb.086 ICPMS3 Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

operator.

 $\begin{array}{cc} & & Concentration \\ Analyte: & & ug/L \ (ppb) \end{array}$

ENVIRONMENTAL CHEMISTS

Date of Report: 09/05/24 Date Received: 08/29/24

Project: SOU_1249-001-06_20240829, F&BI 408514

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 408514-04 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	<1	97	96	70-130	1

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	99	85-115

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

SAMPLERS (signature)

08 29 34

Jonathan Loeffler t to Chris Cass; Chris Carter; Kyle Lowery.

Address Company_ 1101 Southwest Klickitat Way, Suite 212 SoundEarth Strategies, Inc.

City, State, ZIP Seattle, Washington 98134

Phone # 206-306-1900 Fax# 206-306-1907

PROJECT NAME/NO

PO#

Treatment System Water Sampling Ballard Blocks II Property; Arsenic 1249-001-06

REMARKS

filtered in the field through 0.45 micron filter *Samples collected for Dissolved Arsenic analysis were

> Standard (5 days) TURNAROUND TIME Page # __ of_

SAMPLE DISPOSAL

Rush charges authorized by:

Will call with instructions Return samples Dispose after 30 days

									_
				1249_GW_EFF_ 20240877	1249_GW_MID02_20240827	1249_GW_MID01_20240827	1249_GW_INF_ 20240827	Sample ID	
				Effluent	Second Mid- Treatment	First Mid- Treatment	Influent	Sample	
				N/A	N/A	N/A	N/A	Sample Depth	
				20	03	02	0	Lab ID	
				H			0511 11/11/18	Date Sampled	
				1135	1140	1145	1150	Time Sampled	
	7		>	+			WATER	Matrix	
		K			_	~	-	# of Jars	
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Received by:	Relinquished by:	Received by: Www.	Relinquished by John H.	SIGNATURE
		Am W. Brunc	JONATHAN LOEFFIEL SOUNDEARTH	PRINT NAME
Samples received at 5 °C		FR.		COMPANY
at S		820 Ju	8/29/24 1305	DATE
å		1305	1305	TIME

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 408514	CLIENT_	804			IN DA	TIAL:	S/JU	4581.	29
If custody seals are p	present on c	ooler, are t	hey intact	?	凤	NA		YES	□ NO
Cooler/Sample temp	erature		-			Thern	nomete	r ID: Flu	<u>S</u> °C ke 96312917
Were samples receiv	ed on ice/co	ld packs?					⊅ ₀ ?	YES	□ NO
How did samples are		□ Picked	up by F&B	I	o F	edEx	/UPS	S/GSO	
Is there a Chain-of-C *or other representative do			YES ng memos	□ NO		Initi Date		JUB .	8/229
Number of days sam	ples have be	en sitting p	orior to re	ceipt at	lab	orato	ory _	7	_ days
Are the samples clea	arly identifie	ed? (explain "n	o" answer bel	low)			1	YES	□ NO
Were all sample containers received intact (i.e. not broken,						□ NO			
Were appropriate sa	mple contai	ners used?	,	Ø YES	S		0	□ U	Jnknown
If custody seals are	present on s	amples, are	they inta	ct?	7	NA		YES	□ NO
Are samples requiri	ng no heads	pace, heads	space free	?	ø	NA	0	YES	□ NO
Is the following info	rmation pro	vided on th	ie COC, an	d does	it m	atch	the	samp	le label?
(explain "no" answer below Sample ID's	Yes 🗆 No] Not	on Co	OC/label
Date Sampled	Yes D No	. P] Not	on Co	OC/label
Time Sampled	☐ Yes ☐ No] Not	on Co	OC/label
# of Containers	☐ Yes ☐ No		-						
Relinquished	☐ Yes ☐ No)	-						
Requested analysis	1								
Other comments (us									
Air Samples: Were a	ny addition	al canisters	s/tubes rec	eived?	Ø	NA		YES	□ NO

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S.

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

October 7, 2024

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on September 27, 2024 from the SOU_1249-001-06_20240927, F&BI 409461 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl **Project Manager**

Enclosures

c: Chris Carter.. Jonathan Loeffler

SOU1007R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 27, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_20240927, F&BI 409461 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
409461 -01	1249_GW_INF_20240926
409461 -02	1249_GW_MID01_20240926
409461 -03	1249_GW_MID02_20240926
409461 -04	1249_GW_EFF_20240926

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_{INF}} = 20240926$ Client: SoundEarth Strategies Date Received: 09/27/24 Project: SOU_1249-001-06_20240927

Lab ID: 09/30/24 409461-01 Date Extracted: Date Analyzed: 10/01/24 Data File: 409461-01.132 Matrix: ICPMS3 Water Instrument: Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic 18

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_MID01_20240926}$ Client: SoundEarth Strategies Date Received: 09/27/24 Project: SOU_1249-001-06_20240927

Lab ID: 09/30/24 409461-02 Date Extracted: Date Analyzed: 10/01/24 Data File: 409461-02.133 Matrix: ICPMS3 Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 1.2

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_MID02_20240926}$ Client: SoundEarth Strategies Date Received: 09/27/24 Project: SOU_1249-001-06_20240927

Lab ID: 09/30/24 409461-03 Date Extracted: Date Analyzed: 10/01/24 Data File: 409461-03.134 Matrix: ICPMS3 Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

09/30/24 Lab ID: 409461-04 Date Extracted: Date Analyzed: 10/01/24 Data File: 409461-04.139 Matrix: Water Instrument: ICPMS3 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies
Date Received: Not Applicable Project: SOU_1249-001-06_20240927

09/30/24 Lab ID: I4-815 mb Date Extracted: Date Analyzed: 09/30/24 Data File: I4-815 mb.079 ICPMS3 Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Date of Report: 10/07/24 Date Received: 09/27/24

Project: SOU_1249-001-06_20240927, F&BI 409461

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 409434-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	<1	101	100	70-130	1

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	99	85-115

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

9 460h

SAMPLE CHAIN OF CUSTODY

	Sena Report to Chris Cass; Chris Carter; Jonathan Loeffler
2	Chris
j	Cass;
2	Chris
	Carter:
4	Jonathan
	Loeffler

Company_ SoundEarth Strategies, Inc.

City, State, ZIP_ Seattle, Washington 98102

2811 Fairview Avenue E, Suite 2000

Address

Phone # 206-306-1900 _Fax #_ 206-306-1907

> PROJECT NAME/NO SAMPLERS (signature) REMARKS Treatment System Water Sampling Ballard Blocks II Property; Arsenic 1249-001-06 PO#

> > Rush charges authorized by:

SAMPLE DISPOSAL

Will call with instructions

Return samples Dispose after 30 days Standard (5 days)

TURNAROUND TIME

Page #

of

					1249_GW_EFF_26240926	1249_GW_MID02_26240926	1249_GW_MID01_2024c926	1249_GW_INF_10240926	Sample ID
		40			Effluent	Second Mid- Treatment	First Mid- Treatment	Influent	Sample Location
					N/A	N/A	N/A	N/A	Sample Depth
*					40	03	02	10	Lab ID
					1	-	n 6	9/26/24	Date Sampled
) N/)		>	1450	95HI	1500	9/26/24 1505 WATER	Time Sampled
			A	0	+	~	_	WATER	Matrix
			9		_	_	-	_	# of Jars
		100	126		X	χ.	K	×	Total Arsenic (200.8)
		1	3						
	A				,				A
	\mathcal{A}								VALYSE
					н	н	н	Н	S REQU
					HNO3 preserved	HNO3 preserved	HNO3 preserved	HNO3 preserved	ANALÝSES REQUESTED Notes
L	 								



	3	C		
Received by:	Relinquished by:	Received by:	by Sarut	SIGNATURE
		Anh Phan	JONATHAN LOEFFIER	PRINT NAME
	Samples received at @ C	FBI	SOUNDEARTH	COMPANY
	at Q o	06:61 hr/tr/160	0881 11/11/19	DATE
	Q.	13:30	1330	TIME

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 40946	CLIENT	Sound		INITIA DATE:_	LS/ AP 09/2	27/24
If custody seals are	present on co	oler, are they intac	et?	Ø NA	□ YES	□ NO
Cooler/Sample temp	perature			Tho	rmometer ID: F	Ø °C
Were samples recei	ved on ice/cold	d packs?		Ine	YES	© NO
How did samples ar	rrive? he Counter	□ Picked up by F&F	BI	□ FedE	x/UPS/GS	
Is there a Chain-of- *or other representative de	Custody* (CO(ocuments, letters, a	C)? ZYES	□ NO		tials/ AP	27/24
Number of days san	nples have bee	n sitting prior to re	eceipt at	t laborat	oryl	days
Are the samples clea	arly identified	? (explain "no" answer be	low)			□ NO
Were all sample con leaking etc.)? (explain	tainers receiv	ed intact (i.e. not b	roken,		Z YES	□ NO
Were appropriate sa	ample containe	ers used?	✓ YES	S D N	0 🗆 U	Unknown
If custody seals are	present on san	nples, are they inta	ct?	Ø NA	□ YES	□ NO
Are samples requiri	ng no headspa	ce, headspace free?	?	✓ NA	□ YES	
Is the following info (explain "no" answer below	rmation provi	ded on the COC, an	d does i	it match	the samp	le label?
Sample ID's	,					
Date Sampled	T Ves T No				Not on Co	OC/label
Time Sampled	☐ Yes ☐ No				Not on Co	OC/label
# of Containers	Yes \square No				Not on Co	JC/label
Relinquished	T Yes □ No	4				
Requested analysis	Yes □ On H	old				
Other comments (use	e a separate pag	e if needed)				
Air Samples: Were and Number of unused To	ny additional c	anisters/tubes rece	ived?	Ø NA	□ YES	
RIEDMAN & BRUYA, INC./FORI	MS/CHECKIN/SAMPLE	ECONDITION.doc			Pov. O	5/01/24

Rev. 05/01/24

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Ave South Seattle, WA 98108-2419 (206) 285-8282 office@friedmanandbruya.com www.friedmanandbruya.com

November 7, 2024

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on November 1, 2024 from the SOU_1249-001-06_20241101, F&BI 411018 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Chris Carter, Jonathan Loeffler SOU1107R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 1, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06_20241101, F&BI 411018 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
411018 -01	1249_GW_INF_20241028
411018 -02	1249_GW_MID01_20241028
411018 -03	1249_GW_MID02_20241028
411018 -04	1249_GW_EFF_20241028

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_GW_INF_20241028$ Client: SoundEarth Strategies Date Received: 11/01/24 Project: SOU_1249-001-06_20241101

11/04/24 Lab ID: 411018-01 Date Extracted: Date Analyzed: 11/05/24 Data File: 411018-01.087 Matrix: Water Instrument: ICPMS3 Units: ug/L (ppb) Operator: SP

Concentration

Analyte: ug/L (ppb)

Arsenic 19

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_MID01_20241028}$ Client: SoundEarth Strategies Date Received: 11/01/24 Project: SOU_1249-001-06_20241101

Lab ID: 11/04/24 411018-02 Date Extracted: Date Analyzed: 11/05/24 Data File: 411018-02.094 Matrix: Water Instrument: ICPMS3 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic 3.1

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_{GW_MID02_20241028}$ Client: SoundEarth Strategies Date Received: 11/01/24 Project: SOU_1249-001-06_20241101

Lab ID: 11/04/24 411018-03 Date Extracted: Date Analyzed: 11/05/24 Data File: 411018-03.095 Matrix: ICPMS3 Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: $1249_GW_EFF_20241028$ Client: SoundEarth Strategies Date Received: 11/01/24 Project: SOU_1249-001-06_20241101

11/04/24 Lab ID: 411018-04 Date Extracted: Date Analyzed: 11/05/24 Data File: 411018-04.096 Matrix: Water Instrument: ICPMS3 Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies
Date Received: Not Applicable Project: SOU_1249-001-06_20241101

11/04/24 Lab ID: I4-945 mbDate Extracted: Date Analyzed: 11/05/24 Data File: I4-945 mb.070 ICPMS3 Matrix: Water Instrument: Units: ug/L (ppb) SPOperator:

Concentration

Analyte: ug/L (ppb)

Arsenic <1

ENVIRONMENTAL CHEMISTS

Date of Report: 11/07/24 Date Received: 11/01/24

Project: SOU_1249-001-06_20241101, F&BI 411018

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 411018-04 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	<1	102	99	70-130	3

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	104	85-115

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

Send Report to Chris Cass; Chris Carter; Jonathan Loeffle Company_ SoundEarth Strategies, Inc.

City, State, ZIP Seattle, Washington 98102

2811 Fairview Avenue E, Suite 2000

Address

Phone #_

206-306-1900 Fax#_ 206-306-1907

	173	
PROJECT NAME/NO	SAMPLERS (signature)	
<	antiff	
PO#		an

Treatment System Water Sampling REMARKS Ballard Blocks II Property; Arsenic

1249-001-06

11/01/24 Page#_

TURNAROUND TIME Standard (5 days)

SAMPLE DISPOSAL

Rush charges authorized by:

Will call with instructions Return samples Dispose after 30 days

						1249_GW_EFF_20241028	1249_GW_MID02_20241028	1249_GW_MID01_20241028	1249_GW_INF_ 20241028	Sample ID	
						Effluent	Second Mid- Treatment	First Mid- Treatment	Influent	Sample	
						N/A	N/A	N/A	N/A	Sample Depth	
										Lab ID	
						H			10/28/24 1345	Date Sampled	
		1 / V	A	0		1330	1335	1340		Time Sampled	
	8		1	0		+			WATER	Matrix	
			10/28			_	-	_	_	#of Jars	
			100		2	X	X	*	X	Total Arsenic (200.8)	
-			(A					¥		,	
		,	Sampl							,	ANAL
			ට, ද			9	03	02	01	Lab ID	ANALYSES REQUESTED
			les received at & oC			HNO ₃ preserved	HNO ₃ preserved	HNO3 preserved	HNO3 preserved	Notes	



	es	C.		
Received by:	Relinquished by:	Received by: U	Relinquished by fault	SIGNATURE,
		Anh Phan	JONATHAN LOEFFLER SOUND	PRINT NAME
	Ç	FBI	EARTH	COMPANY
		11/01/24 15:10	11/1/24 1510	DATE
		15:10	1510	TIME

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT# <u>41018</u>	CLIENT	Sound		INITI DATE	ALS/ /	aP 11[0]	124
If custody seals are	present on co	oler, are they	intact?	NA NA	7 . 🗆	YES	□ NO
Cooler/Sample tem	perature			T	h o u u o u	2 to 1 D. Flui	°C
Were samples recei	ved on ice/cold	d packs?		1		YES	© 90312917 □ NO
How did samples ar	rrive? he Counter	☐ Picked up by	y F&BI	□ Fed	Ex/UP	S/GSO	
Is there a Chain-of- *or other representative d			YES D N		nitials/ ate:	(NP) 111	<u>′</u> y
Number of days san	nples have bee	n sitting prior	to receipt	at labora	atory	5	days
Are the samples cle	arly identified	? (explain "no" ans	wer below)		Æ	YES	□ NO
Were all sample con leaking etc.)? (explain	tainers receiv	red intact (i.e.	not broken	١,	P	YES	□ NO
Were appropriate sa	ample contain	ers used?	УÝ	ES 🗆	NO	□ Un	nknown
If custody seals are	present on sar	nples, are they	intact?	D NA		YES	□ NO
Are samples requiri	ng no headspa	ice, headspace	free?	ø NA		YES	□ NO
Is the following info		ded on the CC	C, and doe	es it matc	h the	sample	label?
Sample ID's					П Not	on CO	C/label
Date Sampled							
Time Sampled	' -						
# of Containers							
Relinquished							
Requested analysis	☑ Yes □ On H	Iold			*		
Other comments (us	e a separate pag	ge if needed)			•		
							/
Air Samples: Were a	ny additional	canisters/tube	s received?	? J'NA		YES,	□ЙО

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Ave South Seattle, WA 98108-2419 (206) 285-8282 office@friedmanandbruya.com www.friedmanandbruya.com

April 3, 2024

Chris Cass, Project Manager SoundEarth Strategies 1011 SW Klickitat Way, Suite 104 Seattle, WA 98134

Dear Mr Cass:

Included are the results from the testing of material submitted on March 27, 2024 from the SOU_1249-001-06/210_20240327, F&BI 403418 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Chris Carter, Jonathan Loeffler SOU0403R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 27, 2024 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1249-001-06/210_20240327, F&BI 403418 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u> <u>SoundEarth Strategies</u> 403418 -01 1249_SSGW_20240327

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: 1249_SSGW_20240327 Client: SoundEarth Strategies

Date Received: 03/27/24 Project: SOU_1249-001-06/210_20240327

 Date Extracted:
 03/28/24
 Lab ID:
 403418-01 x5

 Date Analyzed:
 03/29/24
 Data File:
 403418-01 x5.157

 $\begin{array}{cccc} \text{Matrix:} & \text{Water} & \text{Instrument:} & \text{ICPMS2} \\ \text{Units:} & \text{ug/L (ppb)} & \text{Operator:} & \text{SP} \end{array}$

Concentration

Analyte: ug/L (ppb)

Arsenic 21

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: SoundEarth Strategies

Date Received: Not Applicable Project: $SOU_1249-001-06/210_20240327$

03/28/24 Lab ID: I4-252 mbDate Extracted: Date Analyzed: 03/28/24 Data File: I4-252 mb.057ICPMS2 Matrix: Water Instrument: Units: ug/L (ppb)

SPOperator:

Concentration Analyte: ug/L (ppb)

Arsenic <1

ENVIRONMENTAL CHEMISTS

Date of Report: 04/03/24 Date Received: 03/27/24

Project: SOU_1249-001-06/210_20240327, F&BI 403418

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 403423-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	ug/L (ppb)	10	10.2	81 b	75 b	70-130	8 b

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	ug/L (ppb)	10	94	85-115

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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SAMPLE CHAIN OF CUSTODY

SAMPLERS (signature)

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TURNAROUND TIME

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Ballard Blocks II Property – Subgrade 1249-001-06 / Groundwater Monitoring 210 REMARKS Date Time Matrix # of Jars As Subgrade 210 21/24 1213 Water 1 × Total As Subgrade 210 ANALYSES R	Send Report to Chris Cass; Chris Carter; Jonathan Loeffler	nv SoundEarth S					206-306-1900		Sample ID	£2804202-ws							
Ballard Blocks II Property – Subgrade 1249-001-06 / Groundwater Monitoring 210 REMARKS Date Time Matrix # of Jars As Total As T	s Carter;	trategies.	,	Avenue L	ington 98				Sample Location	Sub slab GW							
Ballard Blocks II Property – Subgrade 1249-001-06 / Groundwater Monitoring 210 REMARKS Time Matrix # of Jars As Total Total Total 3/27/24	Jonathar	Inc	0	, Suite 21	102		06-306-1		Sample Depth	N/A	-						
Ballard Blocks II Property – Subgrade 1249-001-06 / Groundwater Monitoring 210 REMARKS Time Matrix # of Jars As Total Total Total 3/27/24	Loeff		5	000			907		Lab				/				
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s s	TURNAROUND TIME	Standard (5 day)	Rush charges authorized by:	SAMPLE DISPOSAL	Dispose after 30 days	Return samples	Will call with instructions	QUESTED	Notes	HNO3 preserved							



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Received by:	Relinquished by:	Received by:	Relinquished by	SIGNATURE
		ANHPHAN	JONATHAN LOEFFIER	PRINT NAME
	Samples received at	P8B	SOUNDEARTH	COMPANY
	22.5	05/27/24 15:16	3/17/14/13:18	DATE
	å	15:18	13:18	TIME

ATTACHMENT C Site Photographs



SITE PHOTOGRAPHS Ballard Blocks II 1401 and 1451 Northwest 46th Street Seattle, Washington

Project No.: 1249-001-06
Date: November 13, 2024
Drawn By: CGC
Chk By: CMC



Photograph 1. Easterly-facing view of the Area B cap (left of the sidewalk) along the southern side of the Site.



Photograph 3. Easterly-facing view of the Area B cap (right of the sidewalk) along the northern side of the Site.



Photograph 5. Northwesterly-facing view toward the Area C cap in the Northwest 46th Street right-of-way.



Photograph 2. Southerly-facing view of the Area B cap along the western side of the Site.



Photograph 4. Northeasterly-facing view toward the Area C cap in the Northwest 46th Street right-of-way.



Photograph 6. Southerly-facing view over the Area B Cap along the eastern side of the Site.