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Centric Partners LLC
c/o Trent Development
1420 Fifth Avenue, Suite 2200
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Attention: Mr. Michael Pollard

Subject: 4th Quarter 2024 Groundwater Monitoring Summary
104-124 12th Avenue & 1209 E. Fir Street
Seattle, Washington

Dear Mr. Pollard:

Whitman Environmental Sciences, (WES) has conducted additional groundwater sampling at the above referenced site in Seattle, Washington. Figure 1 shows the site location and surrounding area.

This letter summarizes the sampling and results of laboratory testing on the groundwater samples taken during the 4th Quarter of 2024, which is the second quarterly sampling under the extended monitoring program outlined in the Compliance Monitoring Plan for the site. The number of monitoring wells sampled for volatile organic compounds (VOCs) is limited, but all wells were sampled and analyzed for dissolved arsenic.

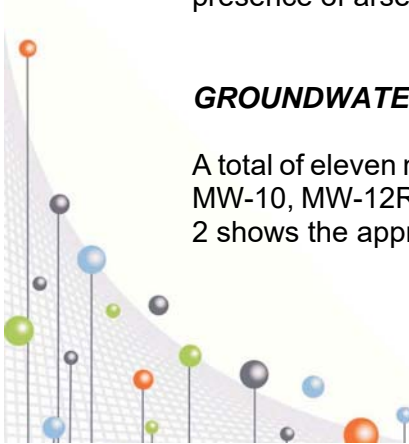
The findings of this round of sampling indicate that no groundwater samples from any of the four tested wells contained detectable vinyl chloride or any other VOCs. The vinyl chloride reporting limit was 0.02 ug/l (units equivalent to parts per billion (ppb)), well below the Washington State Method A groundwater cleanup level of 0.2 ug/l under the Model Toxics Control Act (MTCA), Chapter 173-340 WAC.

Eleven wells were sampled for dissolved concentrations of arsenic. Samples from six of these wells exceeded the 8 ug/l Puget Sound Basin threshold value of the natural background level of arsenic as calculated in Ecology publication "Natural Background Groundwater Arsenic Concentrations in Washington State" (Publication 14-09-044), dated January 2022.

As part of this monitoring event, selected wells were sampled for arsenic speciation to evaluate whether the reported concentrations were of the arsenic III or arsenic V valent state. This information supplements our understanding of the influence of VOC remediation efforts on the presence of arsenic in groundwater.

GROUNDWATER MONITORING

A total of eleven monitoring wells were sampled as part of this monitoring event - MW-1R, MW-5R, MW-10, MW-12R, MW-13, MW-15R, MW-17, MW-18, MW-19, GEO B-7R and GEO B-9R. Figure 2 shows the approximate locations of the wells in relation to the former features of the property.



Groundwater Level Measurements

As part of monitoring, WES measured the depth to groundwater in the sampled monitoring wells. The measurements were obtained after the wells caps had been removed for a period of time to allow water levels to stabilize and before any of the wells were purged of standing groundwater. Table 1 summarizes the depth to groundwater at each well, top-of-pipe elevation and calculated groundwater elevation at each of the sampled wells.

The current measurements show groundwater at depths of 6.92 to 17.72 feet below the top of pipe of the monitoring wells, corresponding to elevations ranging from 185.22 to 194.49 feet above Mean Sea Level based on City of Seattle Datum. There is a significant difference in water elevation from the highest elevations in the northwest to lowest levels in the southeast, indicating a relatively strong overall gradient of 0.028 foot/foot to the southeast across most of the site, steepening considerably in the southeastern-most corner of the site. The reported water levels are 0.33 to 3.46 feet lower than those measured in the most recent prior 3rd Quarter 2024 sampling event.

Figure 3 shows the inferred contours of the shallowest groundwater surface from the measured water level elevations, and the anticipated direction of migration for the time of measurement. The inferred gradient and direction is consistent with that interpreted from prior measurements from 2017 to the present.

Groundwater Sampling

Four wells were sampled for volatile organic compounds (MW-1R, MW-15R, MW-18 and GEO B-7). The samples from MW-1R and MW-18 were obtained using a peristaltic pump with dedicated polyethylene tubing to purge and sample. Wells MW-15R and GEO B-7 were fitted with passive diffusion bag samplers (PDBS) to obtain representative samples in wells that evidence high turbidity related to remedial injections of activated carbon conducted at the site in 2020 and 2022. The PDBS' are readily permeable to volatile organic compounds and equilibrate with the surrounding groundwater in the monitoring well, but prevent sediment or suspended carbon from entering the sample.

The PDBS' were filled with laboratory-prepared de-ionized water and suspended mid-screen in each well. The samplers were allowed to equilibrate in the wells for a period of at least three weeks before removal. After removing each bag from the well, the sampler was opened and the water was transferred to laboratory-prepared 40-ml septum-sealed vials.

Samples for dissolved arsenic were taken from all eleven wells using a peristaltic pump with dedicated polyethylene tubing. Field measurements of pH, ORP, dissolved oxygen and conductivity were used to evaluate when stabilized conditions were reached in the pump discharge water. Samples were taken directly from the tubing at a low flow rate, filtered through 0.45 micron single-use filters in the field, before preservation. For speciation testing, filtered samples were injected into Vacutainer™ vacuum tubes preserved with edetic acid in accordance with laboratory recommended standard operating procedures. Other samples were held in 250 ml poly bottles preserved with nitric acid.

The samples were labeled, chilled and transported to the laboratories under chain-of-custody for analyses.



LABORATORY ANALYTICAL PROGRAM

All samples for VOC analyses and five samples for dissolved arsenic analyses were submitted to Friedman & Bruya, Inc., a Washington-state accredited laboratory, for environmental analyses following Washington State approved methods. The groundwater samples from monitoring wells MW-1R, MW-15R, MW-18 and GEO B-7 were analyzed for a list of 63 VOCs by EPA Method 8260D. Samples from monitoring wells MW-10, MW-12R, MW-13, MW-18 and MW-19 were analyzed for dissolved arsenic by EPA Method 6020B.

Eight samples were submitted to Brooks Applied Labs of Lake City, Washington, for arsenic speciation analyses by proprietary methods. Brooks Applied Labs is a Washington State accredited laboratory, but there is no EPA or state recommended methodology for this specific test. Groundwater samples from monitoring wells MW-1R, MW-5R, MW-12R, MW-15R, MW-17, MW-18, GEO B-7 and GEO B-9 were analyzed to determine the separate concentrations of arsenic III, arsenic V, monomethylarsonic acid (MMA), dimethylarsinic acid (DMA) and the sum of other unknown arsenic species. MMA and DMA are arsenic compounds formed when arsenic interacts with organic compounds in soil or groundwater. The analyses were conducted using inductively coupled plasma collision reaction cell mass spectrometry (IC-ICP-CRC-MS). In theory, the sum of arsenic in these compounds should be similar to the reported concentration that would be found by EPA Method 6020B, which simply measures the total amount of elemental arsenic. Samples from monitoring wells MW-12R and MW-18 were analyzed by both methods as a comparison of the results.

All laboratory testing met the quality assurance/quality control requirements of the project. The sample analyses were completed within holding times, with reporting limits that allowed direct comparison to Department of Ecology established groundwater cleanup levels.

Laboratory Analytical Results

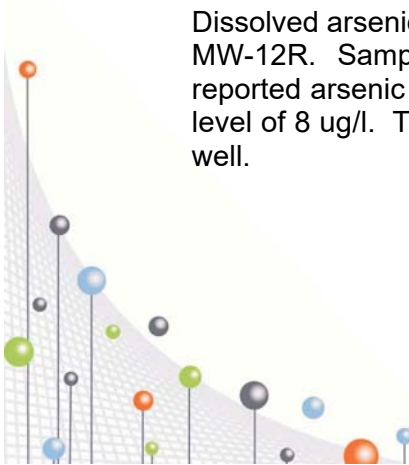
The results of laboratory testing on groundwater samples are summarized in Table 2 and illustrated in Figure 3. The laboratory reports of the analytical results are included in Appendix A.

Volatile Organic Compounds

None of the confirmation samples from the four monitoring wells contained detectable VOCs. The results confirm that groundwater remedial actions have been effective to reduce groundwater concentrations of VOCs below applicable cleanup levels.

Dissolved Arsenic

Dissolved arsenic concentrations ranged from 0.81 ug/l in monitoring well GEO B-7 to 530 ug/l in MW-12R. Samples from monitoring wells MW-13, MW-17, MW-18, MW-19 and GEO B-7 had reported arsenic concentrations less than the threshold value of the natural arsenic background level of 8 ug/l. The result from MW-18 is notably lower than prior analyses on samples from this well.



Concentrations above the 8 ug/l Puget Sound Basin threshold value of the natural arsenic background level were reported in samples from monitoring wells MW-1R (9.71 ug/l), MW-5R (12.7 ug/l), MW-10 (14 ug/l), MW-12R (530 ug/l), MW-15R (23.5 ug/l) and GEO B-9R (49.9 ug/l). Regarding MW-10, the preceding four sample analyses in this well had been below the 8 ug/l threshold value.

Monitoring well MW-12R is a continued outlier that has been consistently higher than any other well. The reported concentration of 530 ug/l in MW-12R continues an overall downward trend that has been occurring since the 1st Quarter 2021.

Arsenic Speciation Analytical Results

MW-1R, MW-5R, MW-12R and GEO B-9R are within or at the upgradient edge of the groundwater remediation treatment area. The speciation testing for these wells found that the detected arsenic was predominantly arsenic III, a relatively soluble form indicative of a reducing environment such as the anaerobic conditions created by the degradation of natural organic materials and artificially induced by the remedial injections used to break down chlorinated VOCs. Over time, reducing conditions related to the remedial injections will neutralize, as the reactants are consumed and dispersed. Arsenic III readily converts to the less soluble arsenic V unless it is in a reducing environment. Under oxidizing conditions, lower solubility allows arsenic V to precipitate out of groundwater onto soil grain surfaces, attenuating migration. (Hering, 2009)

Wells MW-17, MW-18 and GEO B-7 mark the downgradient or lateral limits of the groundwater remediation area. These samples predominantly contained arsenic V, which suggests that these wells represent the outer edge of the arsenic plume. Conditions in the plume would need to overcome the attenuating, oxidizing conditions before any further migration would occur. Well MW-15R marks the lower vertical boundary of the remediation area. Although it still contains more arsenic III than arsenic V, the proportion is closer that the wells upgradient of the treatment area.

Figure 4 shows a comparative graph of the ratio of arsenic V in the total arsenic of water from the sampled wells. In those wells marking the limits of the plume the arsenic V represents the majority of the total arsenic concentration, while in the upgradient wells and those in the treatment area contain predominantly arsenic III.

Two samples were analyzed by both EPA Method 6020B and the proprietary speciation method as a way to compare the analyses. Both samples show higher concentrations in the speciation testing than by the EPA Method. The total reported concentration in MW-12R was 530 ug/l by the EPA Method, but the sum of speciated arsenic compounds was 658 ug/l. The total reported concentration in MW-18 was 3.7 ug/l by the EPA Method, but the sum of speciated arsenic compounds was 18.61 ug/l. This result can be explained in part by the mole weight of arsenic compounds vs. the weight of elemental arsenic, but may also reflect a high bias in the testing method. Where both methods were used, the accredited EPA Method should be considered the appropriate test for compliance purposes.

Trends in Arsenic Concentrations over Time

Table 3 summarizes the groundwater sample analytical results from all wells in our monitoring events dating from 2017 to the present.



Time trend plots for arsenic in all 11 current monitoring wells are included in Appendix B. All other wells have been decommissioned.

The plots suggest that monitoring wells MW-5R, MW-10, MW-15R and GEO B-9R show seasonal variations of arsenic concentrations, with higher levels occurring periodically in the Fall or Winter sampling. In this round of testing, six wells demonstrate concentrations lower than the prior 3rd Quarter 2024 round of testing, while five wells show higher concentrations. In most wells, the variations are within the range of prior analyses, except MW-17 and MW-18 which had concentrations lower than prior analyses.

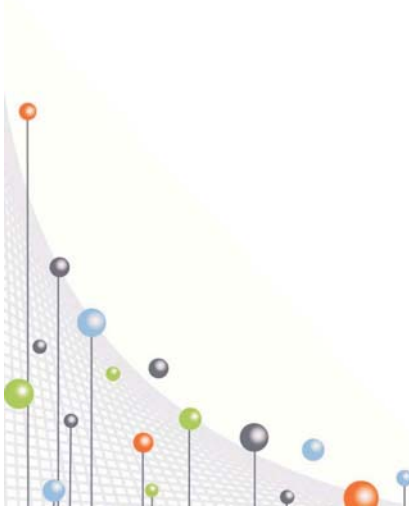
CONCLUSIONS

In accordance with the Compliance Monitoring Plan Update and approved by Ecology, the site is now in extended monitoring for VOCs in a limited selection of the most pertinent wells which will be sampled semi-annually. Recent results confirm that no additional monitoring is necessary for VOCs.

Additional quarterly monitoring for dissolved arsenic will continue. Five wells (MW-10, MW-13, MW-17, MW-19 and GEO B-7R) have now demonstrated compliance with the 8 ug/l Puget Sound Basin threshold value of the natural background level of arsenic for at least two of the last four consecutive quarters. Quarterly sampling should continue until either four consecutive quarters of results meeting cleanup levels are obtained or a full data set can be developed to demonstrate ambient conditions and seasonal variations. At that point, a more limited monitoring program can be designed.

Data from the surrounding area suggests arsenic in shallow groundwater is pervasive and the reported conditions in most of the site wells are comparable to area-wide conditions. The adjacent property to the east, identified as the King County Archives Warehouse site in Ecology records, has reported comparable arsenic levels and a groundwater gradient toward the site, demonstrating that the arsenic conditions on the adjacent property site are not sourced from the site.

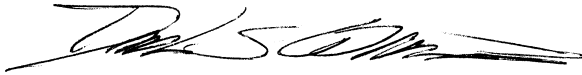
Arsenic concentrations at monitoring wells around the downgradient perimeter of the groundwater cleanup area (MW-1R, MW-10, MW-13, MW-17 and MW-18) are low and either meet or approach the 8 ug/l Puget Sound Basin threshold value of the natural background level. With continued monitoring, these wells can be used as conditional points of compliance to demonstrate that the presence of arsenic in shallow groundwater does not represent a risk to human health or environment.



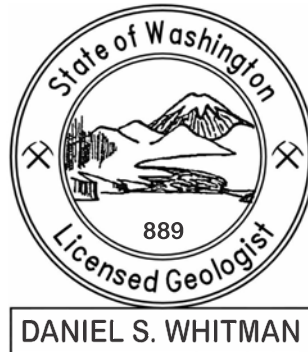
Closure

Thank you for the opportunity to be of service to you in this matter. If you have any questions regarding this letter, or if I may be of any further assistance, please feel free to contact me.

Respectfully submitted,
Whitman Environmental Sciences



Daniel S. Whitman
Principal



TABLES

- Table 1 - Summary of 4th Quarter 2024 Groundwater Level Measurements
- Table 2 - Summary of 4th Quarter 2024 Groundwater Sample Analytical Results
- Table 3 - 2017-2024 Summary of Groundwater Sample Analytical Results

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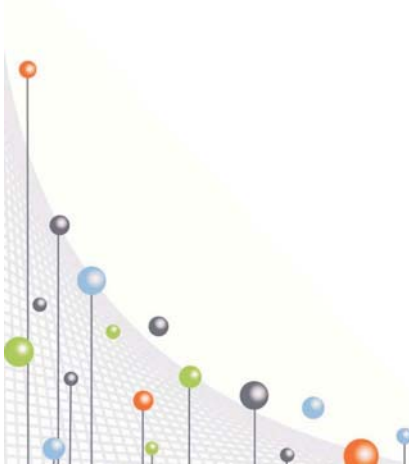
- Figure 1 - Site Location Map
- Figure 2 - Site and Monitoring Well Location Plan
- Figure 3 - 4th Quarter 2024 Groundwater Sampling Analytical Results
- Figure 4 - Arsenic V / Total Arsenic in Analyzed Wells

APPENDICES

- Appendix A - Laboratory Analytical Reports - Friedman & Bruya, Inc.,
Brooks Applied Labs,
- Appendix B - Arsenic Concentration Time Series Plots

REFERENCES

Hering, J., et. al., 2009. *MNA as a Remedy for Arsenic Mobilized by Anthropogenic Inputs of Organic Carbon*, Ground Water Monitoring & Remediation 29, no. 3/ Summer 2009/ pages 84-92



TABLES

TABLE 1
4th Quarter 2024 Summary of Groundwater Level Measurements
104 - 124 12th Avenue and 1209 E. Fir Street, Seattle, Washington

<i>Monitoring Well</i>	<i>Date</i>	<i>Top of Pipe Elevation*</i>	<i>Water Level Below T.O.P.</i>	<i>Water Elevation</i>	<i>Comments</i>
MW-1R	12/11/2024	199.04	-10.42	188.62	2" Well, 21' deep
MW-5R	12/11/2024	202.67	-10.86	191.81	2" Well, 20' deep
MW-10	12/11/2024	197.37	-12.15	185.22	2" Well, 15' deep
MW-12R	12/11/2024	197.86	NM	NM	2" Well, 20' deep
MW-13	12/11/2024	201.87	-9.82	192.05	2" Well, 20' deep
MW-15R	12/11/2024	199.72	-8.11	191.61	2" Well, 25' deep
MW-17	12/11/2024	197.68	-7.85	189.83	2" Well, 20' deep
MW-18	12/11/2024	198.09	-7.23	190.86	2" Well, 20' deep
MW-19	12/11/2024	212.21	-17.72	194.49	2" Well, 20' deep
GEO B-7R	12/11/2024	199.65	-6.92	192.73	2" Well, 20' deep
GEO B-9R	12/11/2024	199.66	-8.56	191.10	2" Well, 20' deep

Table Notes:

*Top of Pipe elevations established by W.G. Clark (November 2023), except MW-12R pipe elevation by WES, back-sighted to previously surveyed monitoring wells.

NM- Not measured contemporaneously with other wells.

TABLE 2
Extended Monitoring Program
4th Quarter 2024 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Well ID	Sample Date	PCE	TCE	Cis 1,2 DCE	Vinyl Chloride	Other VOCs	Arsenic (Dissolved)	Arsenic III	Arsenic V
MW-1	Decommissioned Q4 2021								
MW-1S	Decommissioned Q1 2022								
MW-1D	Decommissioned Q1 2022								
MW-1R	12/12/24	<1	<0.5	<1	<0.02	ND	9.71 ^S	8.96	0.75
MW-2	Decommissioned Q3 2021								
MW-3	Decommissioned Q1 2021								
MW-4	Decommissioned Q2 2021								
MW-5R	12/13/24	NA	NA	NA	NA	NA	12.7 ^B	10.6	2.12
MW-6	Decommissioned Q1 2021								
MW-7	Decommissioned Q1 2021								
MW-8	Decommissioned Q1 2021								
MW-9	Decommissioned Q1 2021								
MW-10	12/13/24	NA	NA	NA	NA	NA	14	NA	NA
MW-11	Decommissioned Q3 2022								
MW-12R	12/13/24	<1	<0.5	<1	<0.02	ND	530	621	35
MW-13	12/12/24	NA	NA	NA	NA	NA	6.3	NA	NA
MW-14	Decommissioned Q1 2021								
MW-15R	12/13/24	<1	<0.5	<1	<0.02	ND	23.5 ^S	16.9	6.61
MW-16	Q1 2022	Decommissioned Q1 2022							
MW-17	12/12/24	<1	<0.5	<1	<0.02	ND	1.05 ^S	0.458	0.587
MW-18	12/12/24	NA	NA	NA	NA	NA	3.7	1.51	17.1
MW-19	12/12/24	NA	NA	NA	NA	NA	1.6	NA	NA
GEO B-7R	12/12/24	NA	NA	NA	NA	NA	0.81 ^S	0.216	0.598
GEO B-8	Decommissioned Q1 2021								
GEO B-9R	12/12/24	NA	NA	NA	NA	NA	49.9 ^S	46	3.61
MTCA Groundwater Cleanup Levels		5^A	5^A	16^B	0.2^A	--	5^A	--	--
Puget Sound Basin Natural Background Arsenic Concentration							8		

Table Notes:

<XXX - Parameter not detected at concentrations at or above the noted reporting limit.

Volatile organic compounds by EPA Method 8260C. See laboratory report for full list of analyzed parameters.

ND - No other volatile organic compounds detected.

NA - Not analyzed for the listed compound.

Dissolved arsenic by EPA Method 6020B on field filtered samples using 0.45 micron single-use filters.

^S- Denotes total of arsenic III, arsenic V and other arsenic compounds as determined by speciation analyses on field filtered samples using 0.45 micron single-use filters.

Arsenic III and V valent states determined by inductively coupled plasma collision reaction cell mass spectrometry (IC-ICP-CRC-MS), a proprietary method of Brooks Applied Labs.

MTCA Groundwater cleanup criteria per Chapter 173-340-720 WAC. Method A criteria presented where available. Method B standard formula values shown where no Method A criteria available. Method B standard formula values from Dept. of Ecology August 2024 Cleanup Levels and Risk Calculation (CLARC) database.

A - Method A listed or State or Federal MCL

B - Method B Direct Contact

Puget Sound Basin Natural Background Arsenic Concentration from Department of Ecology study "*Natural Background Groundwater Arsenic Concentrations in Washington State*" Ecology Publication No. 14-09-044, 2022.

Sample results exceeding applicable cleanup criteria are noted in ***Bold Italic***.

TABLE 3
2017-2024 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Well ID	Sample Date	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	TCE	Cis 1,2 DCE	Vinyl Chloride	Chloroform	Acetone	Hexane	Cumene	MEK	n-propylbenzene	Naphthalene	p-isopropyltoluene	sec-butylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Other VOCs	Arsenic (Total)	Arsenic (Dissolved)	Lead (Total)	Chromium (Total)	
MW-1	6/30/17	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	0.20	<1	<10	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	10/30/17	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<10	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	6/14/18	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	0.27	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/6/18	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	7/22/19	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	2.1	0.55	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/4/19	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	2.3	0.73	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	13	NA	<1	<1	
	3/5/20	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	5/19/20	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	1.8	0.47	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	9.49	10.8	NA	NA	
	9/28/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	31	<1	<1	<1	<1	<1	<1	ND	<1	<1	NA	NA	
	12/1/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	29	<1	<1	<1	<1	<1	<1	ND	<1	<1	NA	NA	
	3/18/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	30	<1	<1	<1	<1	<1	<1	ND	1.59	<1	NA	NA	
	5/24/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	<1	NA	NA	
	Q3 2021	Inaccessible due to Construction																											
11/22/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	1.11	NA	NA		
11/22/21	Well Decommissioned for Construction																												
MW-1S	8/6/19	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	0.21	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/5/19	<100	72 ^x	340	<0.35	<1	<1	<3	<1	<1	<1	0.29	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	16.5	NA	<1	1.16	
	2/26/20	<100	100 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	5/19/20	<100	51 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	0.21	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	12.5	13.3	NA	NA	
	9/28/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	33	<1	<1	<1	<1	<1	<1	ND	47.4	50.8	NA	NA	
	12/1/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	86	<5	<1	46	<1	<1	<1	<1	<1	<1	ND	39.2	41.0	NA	NA	
	3/23/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	20	<1	<1	<1	<1	<1	<1	ND	24.4	21.5	NA	NA	
	5/12/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	14.4	NA	NA	
	9/14/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	23.7	NA	NA	
	12/23/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	2.78	NA	NA	
Q1 2022	Inaccessible Due to Construction																												
3/16/22	Well Decommissioned for Construction																												

TABLE 3
2017-2024 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Well ID	Sample Date	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	TCE	Cis 1,2 DCE	Vinyl Chloride	Chloroform	Acetone	Hexane	Cumine	MEK	n-propylbenzene	Naphthalene	p-isopropyltoluene	sec-butylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Other VOCs	Arsenic (Total)	Arsenic (Dissolved)	Lead (Total)	Chromium (Total)	
MW-1D	8/6/19	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/5/19	<100	<50	340	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	9.14	NA	<1	<1	
	3/3/20	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	10.3	NA	<1	NA	
	5/19/20	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	9.65	10.1	NA	NA	
	9/28/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	10.1	9.68	NA	NA
	12/1/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	11.1	10.3	NA	NA
	3/23/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	9.41	9.56	NA	NA
	5/12/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	9.34	NA	NA
	9/14/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	9.94	NA	NA
	12/23/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	9.04	NA	NA
	3/9/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	9.64	NA	NA
3/16/22	Well Decommissioned for Construction																												
MW-1R PDBS PDBS	9/13/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	6.93	NA	NA	
	12/29/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	8.22	NA	NA	
	3/26/24	NA	<50	<250	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	10	NA	NA	
	6/18/24	<100	<50	<250	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	8.5	NA	NA	
	9/18/24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	NA	NA
	12/12/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	9.71^s	NA	NA
MW-2	4/4/17	NA	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<10	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	10/30/17	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<10	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	6/14/18	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	7/22/19	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/4/19	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	3/17/20	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	5/19/20	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	9/28/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<5	<1	82	<1	<1	<1	<1	<1	<1	ND	2.88	1.21	NA	NA	
	12/9/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<5	<1	47	<1	<1	<1	<1	<1	<1	ND	44.5	30.8	NA	NA	

TABLE 3
2017-2024 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Well ID	Sample Date	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	TCE	Cis 1,2 DCE	Vinyl Chloride	Chloroform	Acetone	Hexane	Cumine	MEK	n-propylbenzene	Naphthalene	p-isopropyltoluene	sec-butylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Other VOCs	Arsenic (Total)	Arsenic (Dissolved)	Lead (Total)	Chromium (Total)	
MW-2 Continued	3/16/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	105	90.7	NA	NA	
	6/4/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	20.6	NA	NA	
	7/16/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.24	NA	NA
	7/16/21	Well Decommissioned for Construction																											
MW-3	4/3/17	110	400 ^x	<250	<0.35	2.5	<1	7.9	<1	<1	<1	0.34	<1	11	<1	<1	<10	<1	4.7	<1	<1	4.9	1.1	ND	NA	NA	NA	NA	
	10/30/17	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<10	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	6/14/18	<100	210 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	2/25/19	<100	400 ^x	<300	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	5.35	NA	<1	NA	
	4/3/19	NA	420 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	7/23/19	<100	170 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	<1	NA	
	12/4/19	<100	280 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	3/17/20	<100	210 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	5/19/20	<100	390 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	9/28/20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.2	9.15	NA	NA
	12/23/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	2.11	1.79	NA	NA	
	Q1 2021	Inaccessible due to Construction																											
3/30/21	Well Decommissioned for Construction																												
MW-4	4/5/17	NA	67 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<10	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	10/30/17	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<10	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	6/14/18	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	7/23/19	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/9/19	<100	180 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	3/17/20	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	5/19/20	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	9/28/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	66.8	64.9	NA	NA	
	12/1/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	78.0	53.5	NA	NA	
	3/26/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	64.6	64.1	NA	NA	

TABLE 3
2017-2024 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Well ID	Sample Date	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	TCE	Cis 1,2 DCE	Vinyl Chloride	Chloroform	Acetone	Hexane	Cumene	MEK	n-propylbenzene	Naphthalene	p-isopropyltoluene	sec-butylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Other VOCs	Arsenic (Total)	Arsenic (Dissolved)	Lead (Total)	Chromium (Total)	
MW-4	4/30/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	18.9	NA	NA	
Continued	Q3 2021	Well Decommissioned for Construction																											
MW-5	4/5/17	NA	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	12	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	10/30/17	NA	NA	NA	<0.35	<1	<1	<3	1.4	9.1	10	0.29	<1	<10	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	6/14/18	<100	<50	<250	<0.35	<1	<1	<3	1.3	5.0	8.3	0.25	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	12/6/18	NA	NA	NA	<0.35	<1	<1	<3	2.1	11	8.4	0.37	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	7/22/19	<100	<50	<250	<0.35	<1	<1	<3	1.1	6.5	10	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	ND	NA	NA	<1	NA
	12/4/19	<100	52 ^x	<250	<0.35	<1	<1	<3	1.3	2.2	3.5	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	3/5/20	<100	<50	<250	<0.35	<1	<1	<3	<1	2.2	1.4	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	5/19/20	<100	<50	<250	<0.35	<1	<1	<3	<1	2.8	3.6	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	9/28/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	12/1/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	5.85	4.07	NA	NA
	3/16/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	8.23	5.54	NA	NA
	5/24/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	4.49	NA	NA
	9/30/21	NA	NA	NA	<0.35	<1	<1	<3	<1	1.1	4.3	0.27	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	10.8	NA	NA
	11/15/21	NA	NA	NA	<0.35	<1	<1	<3	<1	1.4	3.8	0.41	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	5.04	NA	NA
11/22/21	NA	NA	NA	<0.35	<1	<1	<3	<1	1.9	4.6	0.61	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	1.49	NA	NA	
11/22/21	Well Decommissioned for Construction - Replaced with Well MW-5R on 12/23/2021																												
MW-5R	2/18/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	0.60	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	2.50	NA	NA	
	6/30/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	0.21	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	5.44	NA	NA	
	PDBS 9/23/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	14.4	NA	NA	
	PDBS 12/16/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	6.70	NA	NA	
	PDBS 3/21/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	3.59	NA	NA	
	PDBS 6/16/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	4.68	NA	NA	
	PDBS 9/13/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	15.3	NA	NA	
	PDBS 12/29/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	3.12	NA	NA	
PDBS 3/26/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	8.5	NA	NA		

TABLE 3
2017-2024 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Well ID	Sample Date	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	TCE	Cis 1,2 DCE	Vinyl Chloride	Chloroform	Acetone	Hexane	Cumine	MEK	n-propylbenzene	Naphthalene	p-isopropyltoluene	sec-butylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Other VOCs	Arsenic (Total)	Arsenic (Dissolved)	Lead (Total)	Chromium (Total)	
MW-5R PDBS Continued	6/18/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	17	NA	NA	
	9/18/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	20	NA	NA	
	12/12/24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.7 ⁶	NA	NA	
MW-6	4/5/17	NA	<50	<250	<0.35	1.2	<1	5.5	<1	<1	1.3	< 0.2	<1	<10	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	6/14/18	<100	<50	<250	<0.35	<1	<1	<3	1.2	<1	9.6	< 0.2	1.1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	7/23/19	<100	<50	<250	<0.35	<1	<1	<3	<1	1.7	17	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/4/19	<100	78 ^x	<250	<0.35	<1	<1	<3	1.3	<1	5.7	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	3/17/20	<100	<50	<250	<0.35	<1	<1	<3	1.1	<1	3.3	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	5/19/20	<100	<50	<250	<0.35	<1	<1	<3	1.1	<1	4.5	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	1.65	1.21	NA	NA	
	9/28/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	3.5	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/23/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	4.3	<0.2	3.8	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	2.15	2.16	NA	NA	
	3/18/21	NA	NA	NA	<0.35	<1	<1	<3	<1	1.2	10	< 0.2	1.6	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	2.44	1.92	NA	NA	
	3/30/21	Well Decommissioned for Construction																											
MW-7	6/30/17	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<10	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	6/14/18	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	7/23/19	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/4/19	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	3/17/20	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	5/19/20	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	9/28/20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	189	153	NA	NA
	12/23/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	109	117	NA	NA	
	3/18/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	127	127	NA	NA	
3/30/21	Well Decommissioned for Construction																												
MW-8	8/30/17	3,200	790 ^x	<250	11	<1	71	419	<1	<1	<1	< 0.2	<1	<10	<1	12	<10	24	8.9	1.1	1.8	180	59	ND	NA	NA	NA	NA	
	6/28/18	2,400	160 ^x	<250	2.9	<1	85	384	<1	<1	<1	< 0.2	<1	<50	<1	14	<10	33	1.6	1.1	1.9	150	54	ND	NA	NA	NA	NA	
	7/23/19	740	64 ^x	<250	<0.35	<1	10	96	<1	<1	<1	< 0.2	<1	<50	<1	3.1	<10	8.1	<1	<1	1.0	67	27	ND	NA	NA	<1	NA	

TABLE 3
2017-2024 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Well ID	Sample Date	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	TCE	Cis 1,2 DCE	Vinyl Chloride	Chloroform	Acetone	Hexane	Cumene	MEK	n-propylbenzene	Naphthalene	p-isopropyltoluene	sec-butylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Other VOCs	Arsenic (Total)	Arsenic (Dissolved)	Lead (Total)	Chromium (Total)	
MW-8 Continued	12/9/19	350	62 ^x	<250	<0.35	<1	4.3	49.7	<1	<1	<1	< 0.2	<1	<50	<1	1.3	<10	2.1	<1	<1	<1	34	14	ND	9.21	NA	<1	<1	
	2/24/20	640	79 ^x	<250	0.64	<1	7.5	74	<1	<1	<1	< 0.2	<1	<50	<1	3.2	<10	4.0	<1	<1	<1	57	23	ND	NA	NA	NA	NA	
	5/19/20	700	96 ^x	<250	0.52	<1	3.2	69	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	26	20	ND	4.93	3.44	NA	NA	
	9/28/20	130	NA	NA	0.47	<1	4.7	20	<1	<1	<1	< 0.2	<1	<50	<5	1.1	<20	1.3	<1	<1	<1	7.3	2.8	ND	NA	NA	NA	NA	
	12/1/20	100	NA	NA	<1	<1	2.4	6.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.01	8.72	NA	NA	
	3/26/21	220	130 ^x	<250	<0.35	<1	6.0	20.9	<1	<1	<1	< 0.2	<1	<50	<5	1.9	<20	2.6	<1	<1	<1	<1	9.6	2.9	ND	9.51	10.6	NA	NA
	3/30/21	Well Decommissioned for Construction																											
MW-9	8/3/17	500	270 ^x	<250	6.8	1.3	6.3	4.3	<1	<1	<1	< 0.2	<1	<10	4.3	7.2	<10	17	<1	<1	1.5	1.3	1.4	ND	NA	NA	NA	NA	
	7/13/18	470	180 ^x	<250	5.0	<1	8.5	3.2	<1	<1	<1	< 0.2	<1	<50	<1	12	<10	23	<1	<1	1.9	1.1	<1	ND	NA	NA	NA	NA	
	7/23/19	500	210 ^x	<250	2.1	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	1.4	16	<10	48	<1	<1	3.9	<1	<1	ND	NA	NA	<1	NA	
	12/5/19	2,900	620^x	<250	9.5	4.3	31	9.3	<1	<1	<1	< 0.2	<1	<50	10	82	<10	210	1.2	1.4	19	1.7	<1	ND	NA	NA	NA	NA	
	2/24/20	3,900	1,100^x	<250	9.5	3.7	43	6.7	<1	<1	<1	< 0.2	<1	<50	7.2	110	<10	310	<1	<1	22	1.7	<1	ND	NA	NA	NA	NA	
	5/19/20	2,100	1,200^x	290 ^x	5.5	2.3	17	5.0	<1	<1	<1	< 0.2	<1	<50	14	74	<10	220	<1	1.5	16	<1	<1	ND	NA	NA	NA	NA	
	9/28/20	910	270 ^x	<250	8.0	9.3	1.6	6.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/1/20	3,700	1,100^x	<250	11	37	48	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/26/21	1,400	680^x	<250	6.5	8.0	7.2	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.8	NA	NA
	3/30/21	Well Decommissioned for Construction																											
MW-10	11/3/17	<100	69 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	6/14/18	<100	66 ^x	<250	<0.35	<1	<1	<3	<1	<1	1.2	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	7/22/19	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	<1	NA	
	12/5/19	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	9.3	NA	<1	<1	
	2/26/20	<100	66 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	5/19/20	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	5.41	5.18	NA	NA	
	9/28/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	16.6	15.0	NA	NA	
	12/1/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	1.4	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	6.50	6.06	NA	NA	
	3/23/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	1.1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	8.69	7.00	NA	NA	
	5/12/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	1.0	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	6.58	NA	NA	

TABLE 3
2017-2024 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Well ID	Sample Date	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	TCE	Cis 1,2 DCE	Vinyl Chloride	Chloroform	Acetone	Hexane	Cumene	MEK	n-propylbenzene	Naphthalene	p-isopropyltoluene	sec-butylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Other VOCs	Arsenic (Total)	Arsenic (Dissolved)	Lead (Total)	Chromium (Total)		
MW-10 Continued	9/14/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	1.17	NA	NA		
	12/23/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	5.71	NA	NA		
	3/9/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	9.62	NA	NA		
	PDBS	6/30/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	4.74	NA	NA	
		9/23/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	7.69	NA	NA	
	PDBS	12/16/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	1.19	NA	NA	
	PDBS	3/21/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	12.0	NA	NA	
	PDBS	6/30/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	9.63	NA	NA	
	PDBS	9/5/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	20.0	NA	NA	
	PDBS	12/29/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	<1	NA	NA	
	PDBS	3/26/24	NA	<50	<250	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	4.0	NA	NA	
		6/18/24	<100	<50	<250	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	4.1	NA	NA	
		9/18/24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	
	12/12/24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	NA	NA		
MW-11	8/15/19	<100	400 ^x	370 ^x	<0.35	<1	<1	<3	<1	<1	1.9	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA		
	12/5/19	<100	61 ^x	<250	<0.35	<1	<1	<3	<1	<1	2.9	0.22	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	15	NA	<1	<1		
	3/3/20	<100	130 ^x	<250	<0.35	<1	<1	<3	<1	<1	2.8	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA		
	5/19/20	<100	99 ^x	<250	<0.35	<1	<1	<3	<1	<1	3.1	0.27	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	8.96	7.98	NA	NA		
	9/28/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	69	<5	<1	170	<1	<1	<1	<1	<1	<1	ND	69.3	55.7	NA	NA		
	12/1/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	82	<5	<1	130	<1	<1	<1	<1	<1	<1	ND	569	728	NA	NA		
	3/23/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	61	<5	<1	77	<1	<1	<1	<1	<1	<1	ND	966	776	NA	NA		
	5/14/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	38	<1	<1	<1	<1	<1	<1	ND	NA	267	NA	NA		
	9/30/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	67.6	NA	NA		
	Q4 2021	Inaccessible Due to Construction - *Well Damaged and Filled with Dirt - Only partially cleared and remains turbid																												
		3/25/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	0.039	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	327*	NA	NA	
	6/30/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	210*	NA	NA		
	8/4/2022	Well Decommissioned for Construction																												

TABLE 3
2017-2024 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Well ID	Sample Date	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	TCE	Cis 1,2 DCE	Vinyl Chloride	Chloroform	Acetone	Hexane	Cumene	MEK	n-propylbenzene	Naphthalene	p-isopropyltoluene	sec-butylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Other VOCs	Arsenic (Total)	Arsenic (Dissolved)	Lead (Total)	Chromium (Total)	
MW-12	8/19/19	<100	140 ^x	270 ^x	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/4/19	<100	120 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	4.53	NA	<1	<1	
	3/17/20	<100	120 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	5/19/20	<100	130 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	4.40	4.39	NA	NA	
	9/28/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	240	<5	<1	130	<1	<1	<1	<1	<1	<1	<1	ND	1,240	506	NA	NA
	12/1/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	94	<5	<1	59	<1	<1	<1	<1	<1	<1	<1	ND	1,380	1,260	NA	NA
	3/18/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	33	<1	<1	<1	<1	<1	<1	<1	ND	1,900	2,110	NA	NA
	6/4/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	1,600	NA	NA
	Q3 2021	Inaccessible Due to Construction																											
12/23/21	Well Damaged and Inaccessible - Decommissioned For Construction- Replaced with Well MW-12R on 12/23/2021																												
MW-12R	3/8/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.1	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	845	NA	NA	
	6/30/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	468	NA	NA	
	PDBS 9/23/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	909	NA	NA	
	PDBS 12/16/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	0.031	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	1,090	NA	NA	
	PDBS 3/21/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	0.022	<1	<50	<5	<1	24	<1	<1	<1	<1	<1	<1	ND	NA	1,100	NA	NA	
	PDBS 6/16/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	0.029	<1	<50	<5	<1	24	<1	<1	<1	<1	<1	<1	ND	NA	1,220	NA	NA	
	PDBS 9/5/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	201	NA	NA	
	Q4 2023	Inaccessible Due to Construction																											
	PDBS 3/26/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	560	NA	NA	
	PDBS 6/20/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	530	NA	NA	
PDBS 9/19/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	230	NA	NA		
12/12/24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	530	NA	NA	
MW-13	10/3/19	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/9/19	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	3/17/20	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	5/19/20	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	9/28/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<10	<1	<1	<1	<1	<1	<1	ND	11.5	5.75	NA	NA	
	12/23/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	1.91	2.06	NA	NA	

TABLE 3
2017-2024 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Well ID	Sample Date	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	TCE	Cis 1,2 DCE	Vinyl Chloride	Chloroform	Acetone	Hexane	Cumene	MEK	n-propylbenzene	Naphthalene	p-isopropyltoluene	sec-butylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Other VOCs	Arsenic (Total)	Arsenic (Dissolved)	Lead (Total)	Chromium (Total)	
MW-13 Continued	3/26/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	<5	<5	NA	NA	
	5/26/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	3.50	NA	NA	
	9/29/21	Well Dry due to Nearby Dewatering Wells																											
	12/23/21	Well Dry due to Nearby Dewatering Wells																											
	3/8/22	Well Dry due to Nearby Dewatering Wells																											
	6/30/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	2.11	NA	NA
	Q3/22	Inaccessible due to Construction																											
	11/4/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	2.20	NA	NA
	3/28/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	<1	NA	NA
	6/30/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	3.20	NA	NA
	9/19/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	29.4	NA	NA
	12/29/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	5.57	NA	NA
	3/26/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	9.3	NA	NA
	6/20/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	15	NA	NA
9/18/24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.9	NA	NA
12/12/24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.3	NA	NA
MW-14	8/15/19	<100	130 ^x	<250	1.8	<1	<1	<3	<1	<1	2.3	0.65	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/4/19	<100	110 ^x	<250	1.3	<1	<1	<3	<1	<1	1.8	0.25	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	2/24/20	<100	64 ^x	<250	1.8	<1	<1	<3	<1	<1	2.1	0.66	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	5/19/20	<100	110 ^x	<250	0.89	<1	<1	<3	<1	<1	1.3	0.28	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	9/28/20	NA	NA	NA	0.74	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/1/20	NA	NA	NA	0.57	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	60.4	45.4	NA	NA	
	3/26/21	Inaccessible due to Construction																											
3/30/21	Well Decommissioned for Construction																												
MW-15	4/2/20	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	5/19/20	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	9/28/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	1.3	0.23	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	14.6	11.1	NA	NA	
	12/9/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	11.9	11.7	NA	NA	

TABLE 3
2017-2024 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Well ID	Sample Date	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	TCE	Cis 1,2 DCE	Vinyl Chloride	Chloroform	Acetone	Hexane	Cumene	MEK	n-propylbenzene	Naphthalene	p-isopropyltoluene	sec-butylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Other VOCs	Arsenic (Total)	Arsenic (Dissolved)	Lead (Total)	Chromium (Total)	
MW-15 Continued	3/16/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	11.6	11.4	NA	NA	
	5/26/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	12.7	NA	NA	
	7/1/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	9.91	NA	NA	
	Q4 2021	Well Damaged - Decommissioned For Construction- Replaced with Well MW-15R on 12/23/2021																											
MW-15R PDBS PDBS PDBS PDBS PDBS PDBS PDBS PDBS PDBS PDBS	3/2/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	1.1	0.14	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	13.1	NA	NA	
	6/30/22	NA	NA	NA	<0.35	<1	<1	<3	<1	0.59	<1	0.036	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	10.6	NA	NA	
	9/23/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	0.096	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	58.2	NA	NA	
	12/16/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	32.7	NA	NA	
	3/21/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	23.7	NA	NA	
	6/16/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	18.3	NA	NA	
	9/5/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	29.1	NA	NA	
	12/29/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	47.0	NA	NA	
	3/26/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	26	NA	NA	
	6/18/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	36	NA	NA	
	9/18/24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22	NA	NA
12/12/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	23.5 ^s	NA	NA		
MW-16	9/28/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	71	<5	<1	28	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/9/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	<0.2	<1	120	<5	<1	62	<1	<1	<1	<1	<1	<1	ND	289	299	NA	NA	
	3/26/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	24	<1	<1	<1	<1	<1	<1	ND	218	29.4	NA	NA	
	6/4/2021	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	140	NA	NA	
	Q3 2021	Inaccessible due to Construction																											
	Q4 2021	Well Decommissioned For Construction																											
MW-17 PDBS PDBS PDBS PDBS	3/28/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	168	NA	NA	
	6/30/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	327	NA	NA	
	9/13/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	0.069	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	794	NA	NA	
	12/29/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	7.77	NA	NA	

TABLE 3
2017-2024 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Well ID	Sample Date	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	TCE	Cis 1,2 DCE	Vinyl Chloride	Chloroform	Acetone	Hexane	Cumine	MEK	n-propylbenzene	Naphthalene	p-isopropyltoluene	sec-butylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Other VOCs	Arsenic (Total)	Arsenic (Dissolved)	Lead (Total)	Chromium (Total)	
MW-17 PDBS Continued	3/26/24	NA	<50	<250	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	2.9	NA	NA	
	6/18/24	<100	<50	<250	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	17	NA	NA	
	9/18/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	3.7	NA	NA	
	12/13/24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.05 ^s	NA	NA	
MW-18 PDBS PDBS PDBS PDBS PDBS	3/28/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	0.021	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	14.2	NA	NA	
	6/30/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	14.1	NA	NA	
	9/13/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	29.6	NA	NA	
	12/29/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	40.3	NA	NA	
	3/26/24	NA	58 ^x	<250	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	17	NA	NA	
	6/18/24	<100	59 ^x	<250	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	16	NA	NA	
	9/18/24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25	NA	NA	
12/12/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	<1	ND	NA	3.7	NA	NA	
MW-19	3/30/23	<100	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	23.2	NA	NA	
	4/25/23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.43	NA	NA
	9/19/23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.0	NA	NA
	12/29/23	<100	NA	NA	<0.35	<1	<1	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	1.86	NA	NA	
	3/26/24	<100	NA	NA	<0.35	<1	<1	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	2.8	NA	NA	
	6/18/24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	
	9/18/24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	
	12/12/24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.6	NA	NA
GEO B-7	12/6/18	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	1.1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	7/22/19	<100	<50	<250	<0.35	<1	<1	<3	<1	2.3	3.0	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/4/19	<100	<50	<250	<0.35	<1	<1	<3	<1	1.8	2.7	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	3/5/20	<100	<50	<250	<0.35	<1	<1	<3	<1	2.9	3.2	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	5/19/20	<100	<50	<250	<0.35	<1	<1	<3	<1	1.8	2.5	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	9/28/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	

TABLE 3
2017-2024 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Well ID	Sample Date	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	TCE	Cis 1,2 DCE	Vinyl Chloride	Chloroform	Acetone	Hexane	Cumene	MEK	n-propylbenzene	Naphthalene	p-isopropyltoluene	sec-butylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Other VOCs	Arsenic (Total)	Arsenic (Dissolved)	Lead (Total)	Chromium (Total)
GEO B-7 Continued	12/9/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	27.0	29.0	NA	NA
	3/16/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	20.6	16.0	NA	NA
	5/24/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	24.8	NA	NA
	6/15/21	Well Decommissioned for Construction - Replaced with Well GEO B-7R on 12/23/2021																										
GEO B-7R PDBS PDBS PDBS PDBS PDBS PDBS PDBS PDBS PDBS	3/2/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	4.0	1.1	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	33.8	NA	NA
	6/30/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	1.6	1.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	92.5	NA	NA
	9/23/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	0.022	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	163	NA	NA
	12/16/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	9.93	NA	NA
	3/21/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	10.9	NA	NA
	6/16/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	5.94	NA	NA
	9/5/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	2.47	NA	NA
	12/29/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	1.87	NA	NA
	3/26/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	<1	NA	NA
	6/18/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	1.2	NA	NA
	9/18/24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA
12/12/24	NA	NA	NA	NA	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	0.81 ^s	NA	NA	
GEO B-8	12/6/18	<100	210 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	1.1	<10	1.8	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	7/23/19	<100	140 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	<1	NA
	12/5/19	150	410 ^x	360 ^x	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	4.0	<10	7.1	<1	<1	1.1	<1	<1	ND	NA	NA	NA	NA
	2/28/20	110	180 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	1.4	<10	2.7	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	5/19/20	<100	380 ^x	350 ^x	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	9/28/20	<100	150 ^x	<250	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	12/1/20	<100	NA	NA	<1	<1	<1	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.6	74.1	NA	NA
	3/26/21	<100	310 ^x	320 ^x	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	2.5	<20	8.8	<1	<1	<1	<1	<1	ND	NA	14.7	NA	NA
3/30/21	Well Decommissioned for Construction																											

TABLE 3
2017-2024 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Well ID	Sample Date	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	TCE	Cis 1,2 DCE	Vinyl Chloride	Chloroform	Acetone	Hexane	Cumene	MEK	n-propylbenzene	Naphthalene	p-isopropyltoluene	sec-butylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Other VOCs	Arsenic (Total)	Arsenic (Dissolved)	Lead (Total)	Chromium (Total)	
GEO B-9	12/6/18	<100	76 ^x	<250	<0.35	<1	<1	<3	<1	<1	2.4	0.36	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	7/23/19	<100	59 ^x	<250	<0.35	<1	<1	<3	<1	<1	1.4	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/4/19	<100	<50	<250	<0.35	<1	<1	<3	<1	<1	1.5	0.22	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	2/28/20	<100	73 ^x	<250	<0.35	<1	<1	<3	<1	<1	1.1	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	5/19/20	<100	63 ^x	<250	<0.35	<1	<1	<3	<1	<1	1.0	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	9/28/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<10	56	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	12/9/20	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	<1	<1	NA	NA	
	3/18/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	1.27	<1	NA	NA	
	5/24/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<1	<1	< 0.2	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	1.58	NA	NA	
	9/30/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	33	<1	<1	<1	<1	<1	<1	ND	NA	2.12	NA	NA	
	11/22/21	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	1.61	NA	NA	
11/22/21	Well Decommissioned For Construction- Replaced with Well GEO B-9R on 12/23/2021																												
GEO B-9R PDBS	3/2/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	5.30	NA	NA	
	6/30/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	< 0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	56.8	NA	NA	
	9/23/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	25.5	NA	NA	
	12/16/22	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	21.4	NA	NA	
	3/21/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	44.1	NA	NA	
	6/16/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	34.3	NA	NA	
	9/5/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	56.0	NA	NA	
	12/29/23	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	41.1	NA	NA	
	3/26/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	22	NA	NA	
	6/18/24	NA	NA	NA	<0.35	<1	<1	<3	<1	<0.5	<1	<0.02	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	46	NA	NA	
9/18/24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	61	NA	NA	
12/12/24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49.9 ^s	NA	NA	
MTCA Groundwater Cleanup Levels		800^A	500^A	500^A	5^A	1,000^A	700^A	1,000^A	5^A	5^A	16^B	0.2^A	80^A	7,200^B	480^B	800^B	4,800^B	800^B	160^B	NV	800^B	80^B	80^B	--	--	--	15^A	50^A	
Puget Sound Basin Natural Background Arsenic Concentration																								8^{NB}	8^{NB}				

Table Notes:

<XXX - Parameter not detected at concentrations at or above the noted reporting limit.

NA - Sample not analyzed for the listed parameter.

Gasoline Range Total Petroleum Hydrocarbons by Method NWTPH-G.

Diesel and Motor Oil Range Total Petroleum Hydrocarbons by Method NWTPH-D(x).

^x - Indicates sample chromatogram does not resemble fuel standard used for analysis. Most likely non-petroleum organic matter.

^{PDBS} Volatile organic compound samples collected using passive diffusion bag samplers, suspended in the wells for a minimum of three weeks prior to removal.

Volatile Organic Compounds by EPA Method 8260C or 8021B. All detected compounds summarized here. See laboratory report for full list of analyzed parameters.

Total lead and chromium on unfiltered samples by EPA Method 6020B.

Dissolved and total arsenic by EPA Method 6020B. Total arsenic on unfiltered samples. Dissolved arsenic on field filtered samples using 0.45 micron single-use filters.

^S - Denotes total of arsenic III and arsenic V, as determined by speciation analyses on field filtered samples using 0.45 micron single-use filters. .

MTCA Groundwater cleanup criteria per Chapter 173-340-720 WAC. Method A criteria presented where available. Method B standard formula values shown where no Method A criteria available. Method B standard formula values from Dept. of Ecology February 2024 Cleanup Levels and Risk Calculation (CLARC) database. NV indicates no value available from CLARC.

A - Method A listed or State or Federal MCL

B - Method B Direct Contact

NV - No published value

NB - Puget Sound Basin Natural Background Concentration from Department of Ecology study "*Natural Background Groundwater Arsenic Concentrations in Washington State*" Ecology Publication No. 14-09-044, 2022

Sample results exceeding applicable cleanup criteria are noted in ***Bold Italic***.

FIGURES



North



Scale 1 : 24,000

From USGS

Figure 1 - Site Map

104-124 12th Avenue & 1209 E. Fir Street
Seattle, Washington 98122

Project No. WES - 1591

Date June 11, 2017

File ID. 1591F1

WHITMAN
Environmental Sciences

Legend






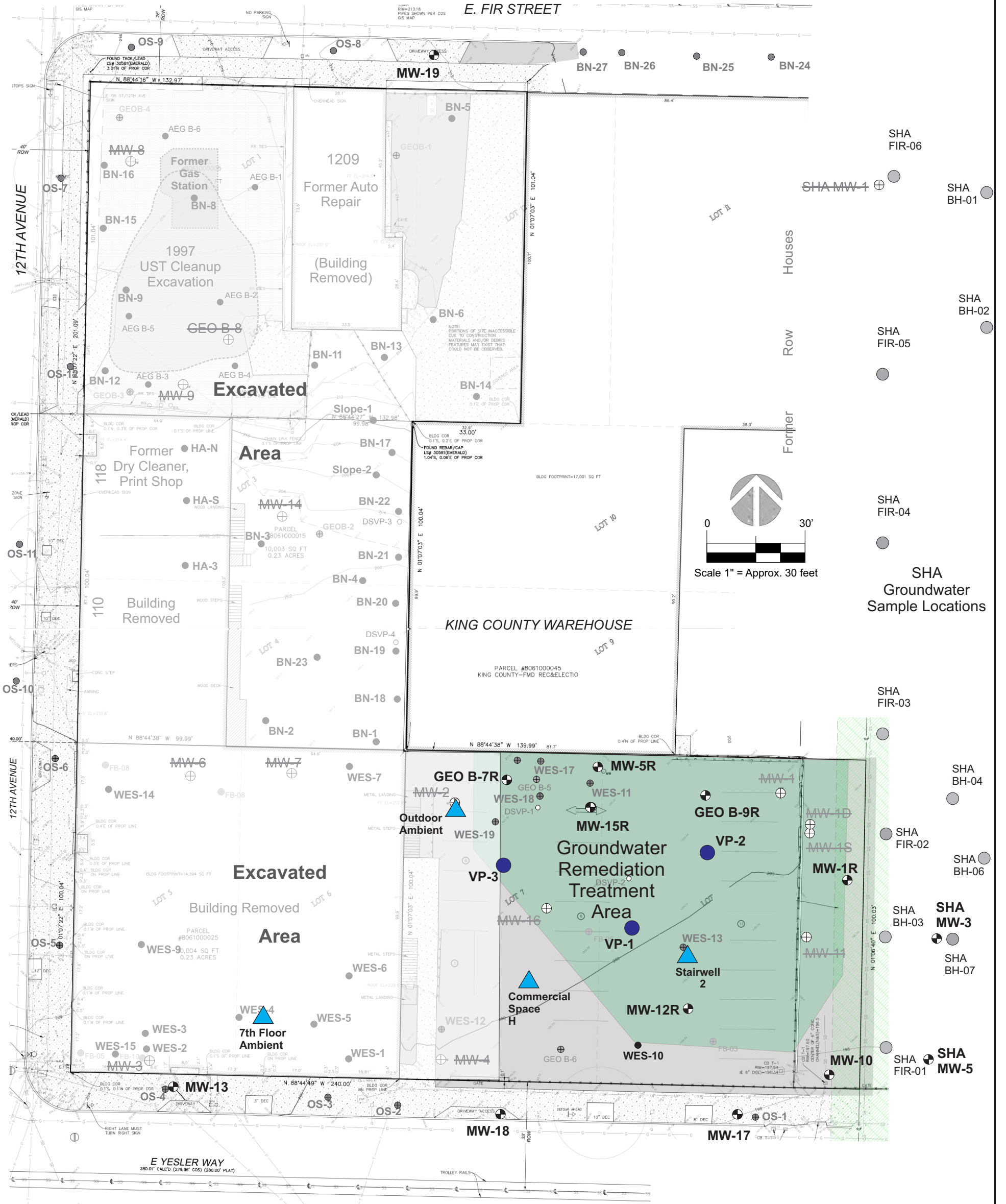
-  Approximate Location of Monitoring Well
-  Approximate Location of Soil Borings (2016 -2020)
-  Approximate Location and I.D. of Decommissioned Monitoring Well
-  Approximate Location of Sub-Slab Vapor Monitoring Point Under New Construction
-  Approximate Location of Indoor and Ambient Air Monitoring Point Inside New Construction

Figure 2 - Site and Sample Location Plan

12th & Yesler Redevelopment Property
104-124 12th Avenue & 1209 E. Fir Street
Seattle, WA

Project No.	WES - 1591A
Date	July 5, 2023
File ID.	1591F2

WHITMAN
Environmental Sciences



Legend

● Approximate Location of Monitoring Well

GEO B-7
195.21'
 TCE- XXX
 C12DCE- XX
 As (D) - XXX

Sample Location I.D.
Groundwater Elevation

Analytical Parameter
 Concentrations (ug/l)
 (Detected Compounds Only)

***Bold Italic Exceeds CUL or
 Natural Background Concentration***

--- Inferred Groundwater Elevation Contour
 based on Measurements on 12/11/2024

Figure 3 - 4th Quarter 2024 Groundwater Sampling Analytical Results

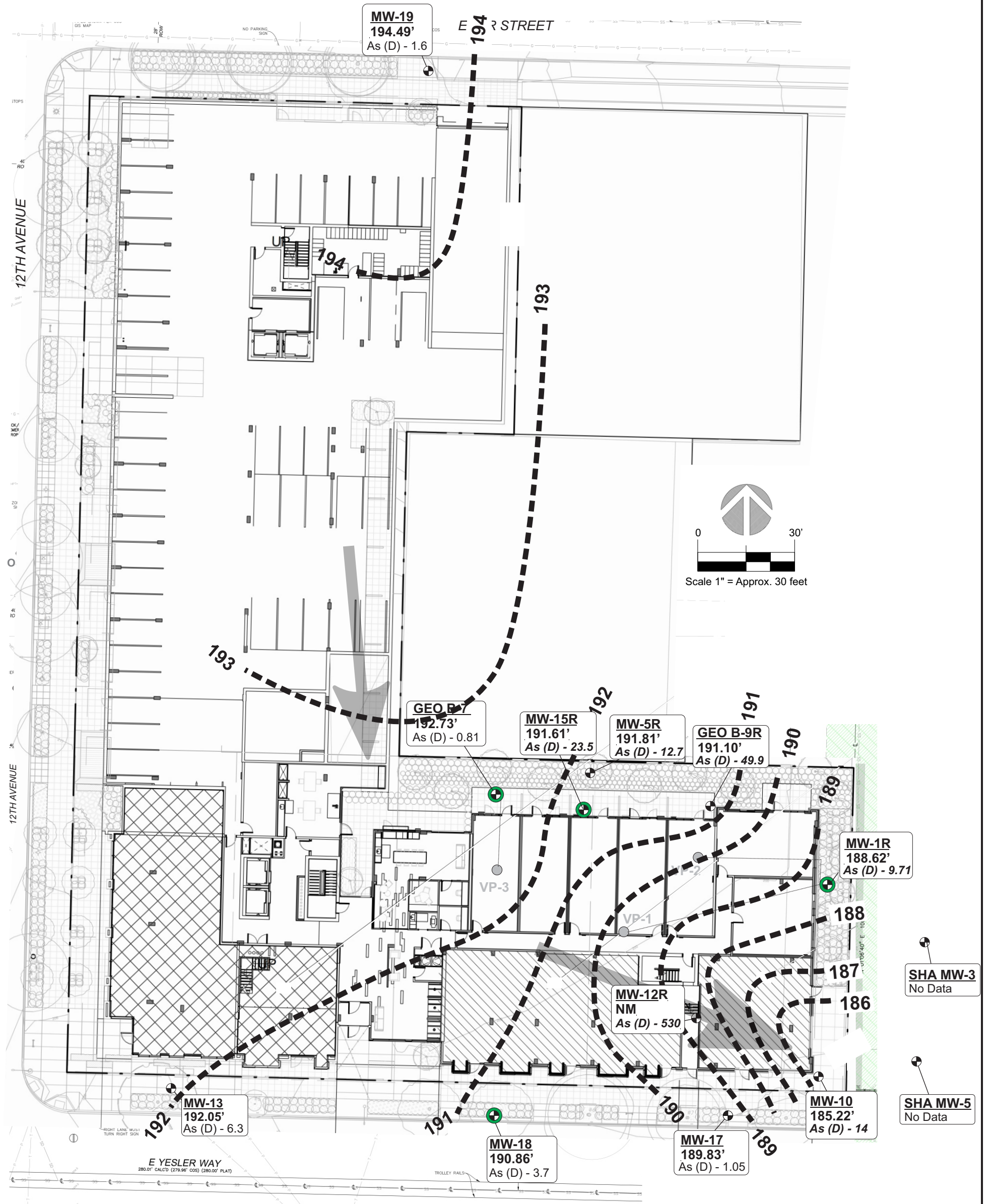
12th & Yesler Redevelopment Property
 104-124 12th Avenue & 1209 E. Fir Street
 Seattle, WA

Project No.	WES - 1591A
Date	Jan 22, 2025
File ID.	1591Q424F3

WHITMAN
 Environmental Sciences

Site is in Extended Monitoring for CVOCs per Compliance Monitoring Plan. Sampled wells identified with the following symbols:

- Monitoring Well with No Detected CVOCs or Petroleum Compounds in Groundwater in Current Sampling
- Monitoring Well with Detected CVOCs or Petroleum Compounds in Groundwater in Current Sampling (None)
- Monitoring Well with CVOCs or Petroleum Compounds above MTCA Method A in Groundwater in Current Sampling (None)



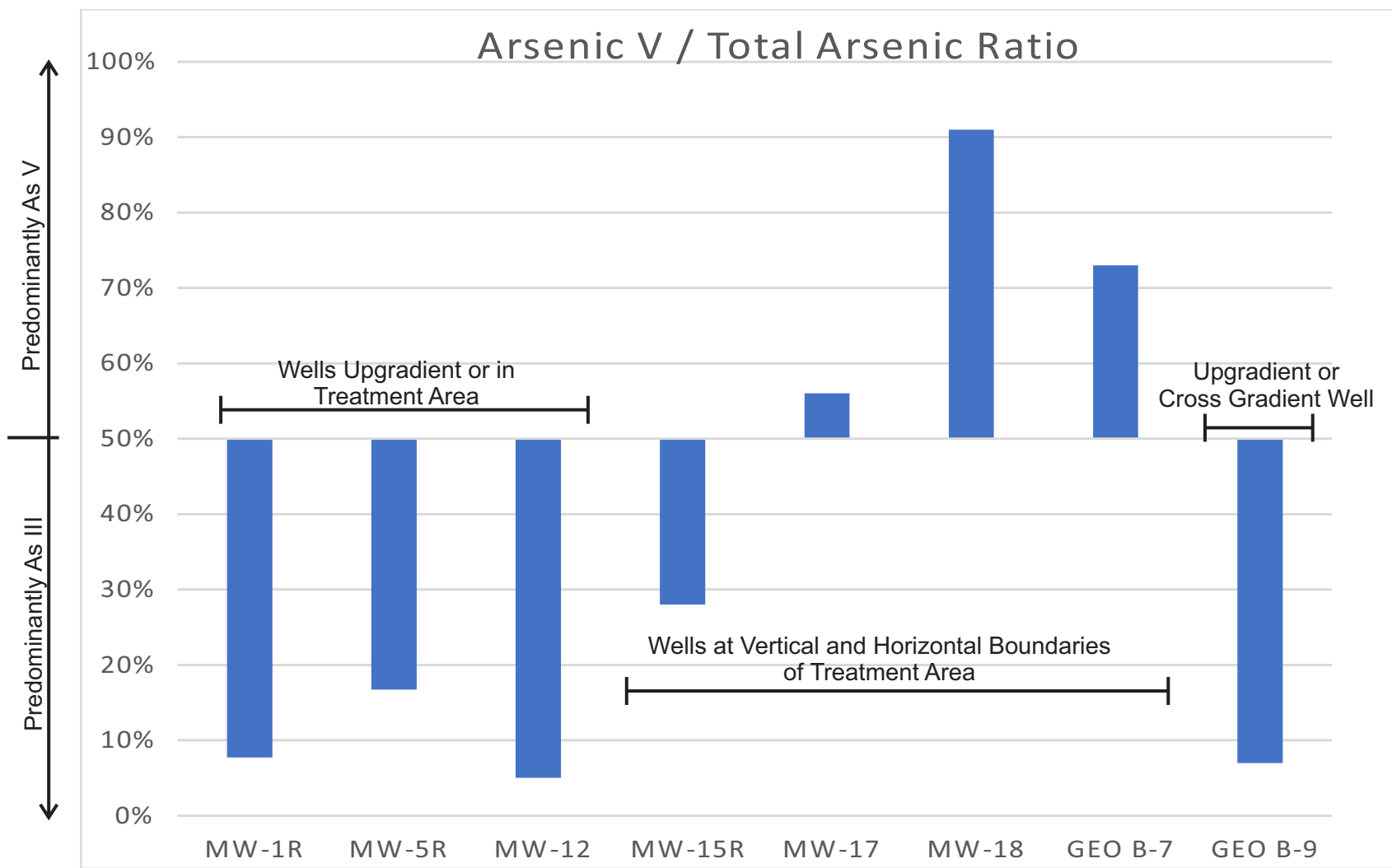


Figure 4 - Arsenic V / Total Arsenic in Analyzed Wells

12th & Yesler Redevelopment Property
 104-124 12th Avenue & 1209 E. Fir Street
 Seattle, WA

Project No.	WES - 1591
Date	Feb 6, 2025
File ID.	1591F4

WHITMAN
 Environmental Sciences

Appendix A

***Laboratory Analytical Reports
Friedman & Bruya, Inc.,
Brooks Applied Labs***

FRIEDMAN & BRUYA, INC.

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

December 23, 2024

Dan Whitman, Project Manager
Whitman Environmental Sciences
410 Eagle Cove Drive
Friday Harbor, WA 98250

Dear Mr Whitman:

Included are the results from the testing of material submitted on December 13, 2024 from the 12th + Yesler WES-1591, F&BI 412260 project. There are 14 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
WES1223R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 13, 2024 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences 12th + Yesler WES-1591, F&BI 412260 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Whitman Environmental Sciences</u>
412260 -01	MW-1R-GW
412260 -02	MW-10-GW
412260 -03	MW-12R-GW
412260 -04	MW-13-GW
412260 -05	MW-18-GW
412260 -06	MW-19-GW

EDB was detected in the 8260D method blank. The result was qualified accordingly.

The dissolved metals samples were filtered at Friedman and Bruya. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-1R-GW	Client:	Whitman Environmental Sciences
Date Received:	12/13/24	Project:	12th + Yesler WES-1591
Date Extracted:	12/19/24	Lab ID:	412260-01
Date Analyzed:	12/19/24	Data File:	121914.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	78	126
Toluene-d8	102	84	115
4-Bromofluorobenzene	88	72	130

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<0.01
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-18-GW	Client:	Whitman Environmental Sciences
Date Received:	12/13/24	Project:	12th + Yesler WES-1591
Date Extracted:	12/19/24	Lab ID:	412260-05
Date Analyzed:	12/19/24	Data File:	121915.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	99	84	115
4-Bromofluorobenzene	109	72	130

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<0.01
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Whitman Environmental Sciences
Date Received:	Not Applicable	Project:	12th + Yesler WES-1591
Date Extracted:	12/19/24	Lab ID:	04-3136 mb
Date Analyzed:	12/19/24	Data File:	121909.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	78	126
Toluene-d8	99	84	115
4-Bromofluorobenzene	106	72	130

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	0.017 lc
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-10-GW f	Client:	Whitman Environmental Sciences
Date Received:	12/13/24	Project:	12th + Yesler WES-1591
Date Extracted:	12/17/24	Lab ID:	412260-02
Date Analyzed:	12/17/24	Data File:	412260-02.125
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	14
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-12R-GW f	Client:	Whitman Environmental Sciences
Date Received:	12/13/24	Project:	12th + Yesler WES-1591
Date Extracted:	12/17/24	Lab ID:	412260-03
Date Analyzed:	12/17/24	Data File:	412260-03.126
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	530
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-13-GW f	Client:	Whitman Environmental Sciences
Date Received:	12/13/24	Project:	12th + Yesler WES-1591
Date Extracted:	12/17/24	Lab ID:	412260-04
Date Analyzed:	12/17/24	Data File:	412260-04.127
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	6.3
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-18-GW f	Client:	Whitman Environmental Sciences
Date Received:	12/13/24	Project:	12th + Yesler WES-1591
Date Extracted:	12/17/24	Lab ID:	412260-05
Date Analyzed:	12/17/24	Data File:	412260-05.138
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	3.7
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-19-GW f	Client:	Whitman Environmental Sciences
Date Received:	12/13/24	Project:	12th + Yesler WES-1591
Date Extracted:	12/17/24	Lab ID:	412260-06
Date Analyzed:	12/17/24	Data File:	412260-06.150
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	1.6
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Method Blank f	Client:	Whitman Environmental Sciences
Date Received:	Not Applicable	Project:	12th + Yesler WES-1591
Date Extracted:	12/17/24	Lab ID:	I4-1098 mb
Date Analyzed:	12/17/24	Data File:	I4-1098 mb.101
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

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

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/24

Date Received: 12/13/24

Project: 12th + Yesler WES-1591, F&BI 412260

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 412241-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance Criteria
				Recovery MS	
Dichlorodifluoromethane	ug/L (ppb)	10	<1	110	30-221
Chloromethane	ug/L (ppb)	10	<10	97	50-150
Vinyl chloride	ug/L (ppb)	10	<0.02	118	50-150
Bromomethane	ug/L (ppb)	10	<5	122	50-150
Chloroethane	ug/L (ppb)	10	<1	113	50-150
Trichlorofluoromethane	ug/L (ppb)	10	<1	106	50-150
Acetone	ug/L (ppb)	50	<50	46	18-161
1,1-Dichloroethene	ug/L (ppb)	10	<1	110	50-150
Hexane	ug/L (ppb)	10	<5	104	50-150
Methylene chloride	ug/L (ppb)	10	<5	72	50-150
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	108	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	105	50-150
1,1-Dichloroethane	ug/L (ppb)	10	<1	107	50-150
2,2-Dichloropropane	ug/L (ppb)	10	<1	118	43-171
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	106	10-211
Chloroform	ug/L (ppb)	10	<1	112	50-150
2-Butanone (MEK)	ug/L (ppb)	50	<20	68	10-192
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<0.2	108	50-150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	109	50-150
1,1-Dichloropropene	ug/L (ppb)	10	<1	97	50-150
Carbon tetrachloride	ug/L (ppb)	10	<0.5	103	50-150
Benzene	ug/L (ppb)	10	<0.35	107	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	101	35-149
1,2-Dichloropropane	ug/L (ppb)	10	<1	103	50-150
Bromodichloromethane	ug/L (ppb)	10	<0.5	101	50-150
Dibromomethane	ug/L (ppb)	10	<1	110	50-150
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	107	50-150
cis-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	113	50-150
Toluene	ug/L (ppb)	10	<1	108	50-150
trans-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	97	50-150
1,1,2-Trichloroethane	ug/L (ppb)	10	<0.5	108	50-150
2-Hexanone	ug/L (ppb)	50	<10	88	50-150
1,3-Dichloropropane	ug/L (ppb)	10	<1	113	50-150
Tetrachloroethene	ug/L (ppb)	10	<1	108	50-150
Dibromochloromethane	ug/L (ppb)	10	<0.5	99	50-150
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<0.01	108	50-150
Chlorobenzene	ug/L (ppb)	10	<1	102	50-150
Ethylbenzene	ug/L (ppb)	10	<1	112	50-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	99	50-150
m,p-Xylene	ug/L (ppb)	20	<2	111	50-150
o-Xylene	ug/L (ppb)	10	<1	110	50-150
Styrene	ug/L (ppb)	10	<1	102	50-150
Isopropylbenzene	ug/L (ppb)	10	<1	96	50-150
Bromoform	ug/L (ppb)	10	<5	93	50-150
n-Propylbenzene	ug/L (ppb)	10	<1	99	50-150
Bromobenzene	ug/L (ppb)	10	<1	99	50-150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	96	50-150
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	<0.2	110	50-150
1,2,3-Trichloropropane	ug/L (ppb)	10	<1	105	50-150
2-Chlorotoluene	ug/L (ppb)	10	<1	99	50-150
4-Chlorotoluene	ug/L (ppb)	10	<1	101	50-150
tert-Butylbenzene	ug/L (ppb)	10	<1	100	50-150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	95	50-150
sec-Butylbenzene	ug/L (ppb)	10	<1	97	50-150
p-Isopropyltoluene	ug/L (ppb)	10	<1	96	50-150
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	97	50-150
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	95	50-150
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	99	50-150
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	<10	94	50-150
1,2,4-Trichlorobenzene	ug/L (ppb)	10	<1	97	50-150
Hexachlorobutadiene	ug/L (ppb)	10	<0.5	101	50-150
Naphthalene	ug/L (ppb)	10	<1	91	50-150
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	97	50-150

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/24

Date Received: 12/13/24

Project: 12th + Yesler WES-1591, F&BI 412260

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	103	101	46-206	2
Chloromethane	ug/L (ppb)	10	90	86	59-132	5
Vinyl chloride	ug/L (ppb)	10	111	110	64-142	1
Bromomethane	ug/L (ppb)	10	112	126	50-197	12
Chloroethane	ug/L (ppb)	10	112	108	70-130	4
Trichlorofluoromethane	ug/L (ppb)	10	102	98	51-159	4
Acetone	ug/L (ppb)	50	47	43	10-140	9
1,1-Dichloroethene	ug/L (ppb)	10	108	105	64-140	3
Hexane	ug/L (ppb)	10	98	99	54-136	1
Methylene chloride	ug/L (ppb)	10	81	98	43-134	19
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	106	103	70-130	3
trans-1,2-Dichloroethene	ug/L (ppb)	10	104	102	70-130	2
1,1-Dichloroethane	ug/L (ppb)	10	104	101	70-130	3
2,2-Dichloropropane	ug/L (ppb)	10	104	111	64-148	7
cis-1,2-Dichloroethene	ug/L (ppb)	10	101	98	70-130	3
Chloroform	ug/L (ppb)	10	104	101	70-130	3
2-Butanone (MEK)	ug/L (ppb)	50	64	64	47-112	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	103	103	70-130	0
1,1,1-Trichloroethane	ug/L (ppb)	10	106	104	70-130	2
1,1-Dichloropropene	ug/L (ppb)	10	93	97	70-130	4
Carbon tetrachloride	ug/L (ppb)	10	102	99	70-130	3
Benzene	ug/L (ppb)	10	103	102	70-130	1
Trichloroethene	ug/L (ppb)	10	94	94	70-130	0
1,2-Dichloropropane	ug/L (ppb)	10	100	92	70-130	8
Bromodichloromethane	ug/L (ppb)	10	92	94	70-130	2
Dibromomethane	ug/L (ppb)	10	103	100	70-130	3
4-Methyl-2-pentanone	ug/L (ppb)	50	89	96	68-130	8
cis-1,3-Dichloropropene	ug/L (ppb)	10	106	103	69-131	3
Toluene	ug/L (ppb)	10	102	105	70-130	3
trans-1,3-Dichloropropene	ug/L (ppb)	10	98	97	70-130	1
1,1,2-Trichloroethane	ug/L (ppb)	10	99	105	70-130	6
2-Hexanone	ug/L (ppb)	50	76	80	45-138	5
1,3-Dichloropropane	ug/L (ppb)	10	92	101	70-130	9
Tetrachloroethene	ug/L (ppb)	10	100	105	70-130	5
Dibromochloromethane	ug/L (ppb)	10	94	97	60-148	3
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	99	105	70-130	6
Chlorobenzene	ug/L (ppb)	10	92	101	70-130	9
Ethylbenzene	ug/L (ppb)	10	106	109	70-130	3
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	96	96	70-130	0
m,p-Xylene	ug/L (ppb)	20	105	109	70-130	4
o-Xylene	ug/L (ppb)	10	107	108	70-130	1
Styrene	ug/L (ppb)	10	98	102	70-130	4
Isopropylbenzene	ug/L (ppb)	10	100	99	70-130	1
Bromoform	ug/L (ppb)	10	97	94	69-138	3
n-Propylbenzene	ug/L (ppb)	10	97	103	70-130	6
Bromobenzene	ug/L (ppb)	10	98	105	70-130	7
1,3,5-Trimethylbenzene	ug/L (ppb)	10	100	100	70-130	0
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	105	110	70-130	5
1,2,3-Trichloropropane	ug/L (ppb)	10	101	111	70-130	9
2-Chlorotoluene	ug/L (ppb)	10	100	105	70-130	5
4-Chlorotoluene	ug/L (ppb)	10	98	109	70-130	11
tert-Butylbenzene	ug/L (ppb)	10	99	105	70-130	6
1,2,4-Trimethylbenzene	ug/L (ppb)	10	96	101	70-130	5
sec-Butylbenzene	ug/L (ppb)	10	100	108	70-130	8
p-Isopropyltoluene	ug/L (ppb)	10	100	103	70-130	3
1,3-Dichlorobenzene	ug/L (ppb)	10	97	104	70-130	7
1,4-Dichlorobenzene	ug/L (ppb)	10	98	104	70-130	6
1,2-Dichlorobenzene	ug/L (ppb)	10	95	103	70-130	8
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	115	113	70-130	2
1,2,4-Trichlorobenzene	ug/L (ppb)	10	101	103	70-130	2
Hexachlorobutadiene	ug/L (ppb)	10	103	107	70-130	4
Naphthalene	ug/L (ppb)	10	99	103	70-130	4
1,2,3-Trichlorobenzene	ug/L (ppb)	10	102	104	70-130	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/24

Date Received: 12/13/24

Project: 12th + Yesler WES-1591, F&BI 412260

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

Laboratory Code: 412209-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	1.38	98	98	75-125	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	93	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

412260

SAMPLE CHAIN OF CUSTODY

12/13/24 v w 1 / L 2

SAMPLERS (signature)

PROJECT NAME

PO #

REMARKS

Project specific RIs? - Yes / No

INVOICE TO

Page # of

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

Report To: [Signature]

Company: Friedman & Bruya, Inc.

Address: 5500 4th Ave S.

City, State, ZIP: Seattle WA 98108

Phone: (206) 285-8282 Email: office@friedmanandbruya.com

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		
M13-18-GLD	01 A-C	12-12		Water	3					X				
M13-10-GLD	02	12-12			1									
M13-18-GLD	03	12-13			1									
M13-13-GLD	04	12-13			1									
M13-18-GLD	05 A-D	12-13			4					X				
M13-19-GLD	06	12-13			1									

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by:	[Signature]					12/13	1:59
Received by:	[Signature]	ADhan	Phan			12/13/24	13:39
Relinquished by:							
Received by:							

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

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 412260 CLIENT Whitman Env INITIALS/ AP DATE: 12/13/24

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

Cooler/Sample temperature 12 °C Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? YES NO

How did samples arrive? Over the Counter Picked up by F&BI FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? YES NO Initials/ AP Date: 12/13/24
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 0-1 days

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

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

Were appropriate sample containers used? YES NO Unknown

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

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

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

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

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? NA YES NO
Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

FRIEDMAN & BRUYA, INC.

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

January 9, 2025

Dan Whitman, Project Manager
Whitman Environmental Sciences
410 Eagle Cove Drive
Friday Harbor, WA 98250

Dear Mr Whitman:

Included are the results from the testing of material submitted on December 31, 2024 from the 12th + Yesler, F&BI 412510 project. There are 7 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
WES0109R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 31, 2024 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences 12th + Yesler, F&BI 412510 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Whitman Environmental Sciences</u>
412510 -01	Geo B-7
412510 -02	MW-15 R

The 8260D chloroethane calibration standard did not meet the acceptance criteria. In addition, the 8260D 2-hexanone laboratory control sample did not meet the acceptance criteria. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Geo B-7	Client:	Whitman Environmental Sciences
Date Received:	12/31/24	Project:	12th + Yesler, F&BI 412510
Date Extracted:	01/06/25	Lab ID:	412510-01
Date Analyzed:	01/06/25	Data File:	010611.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	71	132
Toluene-d8	99	68	139
4-Bromofluorobenzene	91	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<0.01
Chloroethane	<1 ca	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10 jl		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID: MW-15 R	Client: Whitman Environmental Sciences
Date Received: 12/31/24	Project: 12th + Yesler, F&BI 412510
Date Extracted: 01/06/25	Lab ID: 412510-02
Date Analyzed: 01/06/25	Data File: 010612.D
Matrix: Water	Instrument: GCMS13
Units: ug/L (ppb)	Operator: MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	71	132
Toluene-d8	102	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<0.01
Chloroethane	<1 ca	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10 jl		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Whitman Environmental Sciences
Date Received:	Not Applicable	Project:	12th + Yesler, F&BI 412510
Date Extracted:	01/06/25	Lab ID:	05-008 mb
Date Analyzed:	01/06/25	Data File:	010608.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	71	132
Toluene-d8	100	68	139
4-Bromofluorobenzene	98	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<0.01
Chloroethane	<1 ca	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10 jl		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/09/25

Date Received: 12/31/24

Project: 12th + Yesler, F&BI 412510

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 412506-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Dichlorodifluoromethane	ug/L (ppb)	10	<1	89	27-164
Chloromethane	ug/L (ppb)	10	<10	100	34-141
Vinyl chloride	ug/L (ppb)	10	<0.02	99	16-176
Bromomethane	ug/L (ppb)	10	<5	89	10-193
Chloroethane	ug/L (ppb)	10	<1	86	50-150
Trichlorofluoromethane	ug/L (ppb)	10	<1	108	50-150
Acetone	ug/L (ppb)	50	<50	47	15-179
1,1-Dichloroethene	ug/L (ppb)	10	<1	114	50-150
Hexane	ug/L (ppb)	10	<5	105	49-161
Methylene chloride	ug/L (ppb)	10	<5	76	40-143
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	102	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	115	50-150
1,1-Dichloroethane	ug/L (ppb)	10	<1	107	50-150
2,2-Dichloropropane	ug/L (ppb)	10	<1	122	62-152
cis-1,2-Dichloroethene	ug/L (ppb)	10	1.1	111	50-150
Chloroform	ug/L (ppb)	10	<1	101	50-150
2-Butanone (MEK)	ug/L (ppb)	50	<20	69	34-168
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<0.2	96	50-150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	104	50-150
1,1-Dichloropropene	ug/L (ppb)	10	<1	112	50-150
Carbon tetrachloride	ug/L (ppb)	10	<0.5	108	50-150
Benzene	ug/L (ppb)	10	<0.35	111	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	108	43-133
1,2-Dichloropropane	ug/L (ppb)	10	<1	110	50-150
Bromodichloromethane	ug/L (ppb)	10	<0.5	104	50-150
Dibromomethane	ug/L (ppb)	10	<1	111	50-150
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	113	50-150
cis-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	110	48-145
Toluene	ug/L (ppb)	10	<1	109	50-150
trans-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	103	37-152
1,1,2-Trichloroethane	ug/L (ppb)	10	<0.5	105	50-150
2-Hexanone	ug/L (ppb)	50	<10	85	50-150
1,3-Dichloropropane	ug/L (ppb)	10	<1	106	50-150
Tetrachloroethene	ug/L (ppb)	10	<1	112	50-150
Dibromochloromethane	ug/L (ppb)	10	<0.5	109	33-164
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<0.01	108	50-150
Chlorobenzene	ug/L (ppb)	10	<1	109	50-150
Ethylbenzene	ug/L (ppb)	10	<1	106	50-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	108	50-150
m,p-Xylene	ug/L (ppb)	20	<2	110	50-150
o-Xylene	ug/L (ppb)	10	<1	108	50-150
Styrene	ug/L (ppb)	10	<1	110	50-150
Isopropylbenzene	ug/L (ppb)	10	<1	109	50-150
Bromoform	ug/L (ppb)	10	<5	108	23-161
n-Propylbenzene	ug/L (ppb)	10	<1	103	50-150
Bromobenzene	ug/L (ppb)	10	<1	104	50-150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	103	50-150
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	<0.2	112	57-162
1,2,3-Trichloropropane	ug/L (ppb)	10	<1	95	33-151
2-Chlorotoluene	ug/L (ppb)	10	<1	101	50-150
4-Chlorotoluene	ug/L (ppb)	10	<1	103	50-150
tert-Butylbenzene	ug/L (ppb)	10	<1	103	50-150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	105	50-150
sec-Butylbenzene	ug/L (ppb)	10	<1	105	46-139
p-Isopropyltoluene	ug/L (ppb)	10	<1	107	46-140
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	105	50-150
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	105	50-150
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	104	50-150
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	<10	103	50-150
1,2,4-Trichlorobenzene	ug/L (ppb)	10	<1	105	50-150
Hexachlorobutadiene	ug/L (ppb)	10	<0.5	112	42-150
Naphthalene	ug/L (ppb)	10	<1	109	50-150
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	105	44-155

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CHECK FOR BAD DATE

Date of Report: 01/09/25

Date Received: 12/31/24

Project: 12th + Yesler, F&BI 412510

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	86	87	49-149	1
Chloromethane	ug/L (ppb)	10	91	90	34-143	1
Vinyl chloride	ug/L (ppb)	10	90	92	43-149	2
Bromomethane	ug/L (ppb)	10	97	101	28-182	4
Chloroethane	ug/L (ppb)	10	82	81	59-157	1
Trichlorofluoromethane	ug/L (ppb)	10	93	93	59-141	0
Acetone	ug/L (ppb)	50	46	40	20-139	14
1,1-Dichloroethene	ug/L (ppb)	10	105	106	67-138	1
Hexane	ug/L (ppb)	10	95	99	50-161	4
Methylene chloride	ug/L (ppb)	10	87	87	29-192	0
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	94	95	70-130	1
trans-1,2-Dichloroethene	ug/L (ppb)	10	106	106	70-130	0
1,1-Dichloroethane	ug/L (ppb)	10	99	99	70-130	0
2,2-Dichloropropane	ug/L (ppb)	10	116	114	71-148	2
cis-1,2-Dichloroethene	ug/L (ppb)	10	102	102	70-130	0
Chloroform	ug/L (ppb)	10	92	93	70-130	1
2-Butanone (MEK)	ug/L (ppb)	50	61	60	50-157	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	89	88	70-130	1
1,1,1-Trichloroethane	ug/L (ppb)	10	97	97	70-130	0
1,1-Dichloropropene	ug/L (ppb)	10	101	104	70-130	3
Carbon tetrachloride	ug/L (ppb)	10	101	102	70-130	1
Benzene	ug/L (ppb)	10	103	103	70-130	0
Trichloroethene	ug/L (ppb)	10	101	101	70-130	0
1,2-Dichloropropane	ug/L (ppb)	10	102	100	70-130	2
Bromodichloromethane	ug/L (ppb)	10	100	99	70-130	1
Dibromomethane	ug/L (ppb)	10	99	101	70-130	2
4-Methyl-2-pentanone	ug/L (ppb)	50	96	97	70-130	1
cis-1,3-Dichloropropene	ug/L (ppb)	10	103	102	70-130	1
Toluene	ug/L (ppb)	10	103	103	70-130	0
trans-1,3-Dichloropropene	ug/L (ppb)	10	98	99	70-130	1
1,1,2-Trichloroethane	ug/L (ppb)	10	97	98	70-130	1
2-Hexanone	ug/L (ppb)	50	62 vo	75	66-132	19
1,3-Dichloropropane	ug/L (ppb)	10	94	98	70-130	4
Tetrachloroethene	ug/L (ppb)	10	105	106	70-130	1
Dibromochloromethane	ug/L (ppb)	10	104	105	63-142	1
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	100	102	70-130	2
Chlorobenzene	ug/L (ppb)	10	101	104	70-130	3
Ethylbenzene	ug/L (ppb)	10	100	102	70-130	2
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	102	102	70-130	0
m,p-Xylene	ug/L (ppb)	20	102	105	70-130	3
o-Xylene	ug/L (ppb)	10	101	103	70-130	2
Styrene	ug/L (ppb)	10	102	104	70-130	2
Isopropylbenzene	ug/L (ppb)	10	101	103	70-130	2
Bromoform	ug/L (ppb)	10	101	106	50-157	5
n-Propylbenzene	ug/L (ppb)	10	98	103	70-130	5
Bromobenzene	ug/L (ppb)	10	100	103	70-130	3
1,3,5-Trimethylbenzene	ug/L (ppb)	10	95	101	52-150	6
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	103	105	75-140	2
1,2,3-Trichloropropane	ug/L (ppb)	10	88	91	40-153	3
2-Chlorotoluene	ug/L (ppb)	10	96	101	70-130	5
4-Chlorotoluene	ug/L (ppb)	10	96	101	70-130	5
tert-Butylbenzene	ug/L (ppb)	10	98	100	70-130	2
1,2,4-Trimethylbenzene	ug/L (ppb)	10	98	103	70-130	5
sec-Butylbenzene	ug/L (ppb)	10	99	103	70-130	4
p-Isopropyltoluene	ug/L (ppb)	10	101	106	70-130	5
1,3-Dichlorobenzene	ug/L (ppb)	10	102	104	70-130	2
1,4-Dichlorobenzene	ug/L (ppb)	10	101	101	70-130	0
1,2-Dichlorobenzene	ug/L (ppb)	10	99	103	70-130	4
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	93	89	70-130	4
1,2,4-Trichlorobenzene	ug/L (ppb)	10	101	101	70-130	0
Hexachlorobutadiene	ug/L (ppb)	10	101	106	70-130	5
Naphthalene	ug/L (ppb)	10	104	104	61-133	0
1,2,3-Trichlorobenzene	ug/L (ppb)	10	98	100	69-143	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

418510

Report To Dan Whitman

Company Whitman Environment / Sci.

Address #110 Eagle Cove Dr.

City, State, ZIP Fairley Harbor, WA 98250

Phone 206-823-3805 Email whiteman@environment.com

SAMPLE CHAIN OF CUSTODY

SAMPLERS (signature) [Signature]

PROJECT NAME 12th + Yesler

PO #

REMARKS

INVOICE TO Whitman

Project specific RIs? - Yes / No

Page # 1 of 1

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by:

Archive samples

Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
Geo B-7	01A-C	12/31/24	1100	W	3					X					
Mu-15 R	02 ↓	"	1115	W	3					X					

Samples received at 14 °C

Signature

Received by:

Received by:

Received by:

PRINT NAME

James D. Copperrill

Arin Phran

COMPANY

GC1

FBI

DATE

12/31/24

12/31/24

TIME

11:55

11:55

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

12/31/24 v w 1

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 412510 CLIENT Whitman/GCI INITIALS/ DATE: AP 12/31/24

If custody seals are present on cooler, are they intact? [X] NA [] YES [] NO

Cooler/Sample temperature 14 °C Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? [] YES [X] NO

How did samples arrive? [X] Over the Counter [] Picked up by F&BI [] FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? [X] YES [] NO Initials/ Date: AP 12/31/24

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

Are the samples clearly identified? (explain "no" answer below) [X] YES [] NO

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

Were appropriate sample containers used? [X] YES [] NO [] Unknown

If custody seals are present on samples, are they intact? [X] NA [] YES [] NO

Are samples requiring no headspace, headspace free? [] NA [X] YES [] NO

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

- Sample ID's [X] Yes [] No [] Not on COC/label
Date Sampled [X] Yes [] No [] Not on COC/label
Time Sampled [X] Yes [] No [] Not on COC/label
of Containers [X] Yes [] No
Relinquished [X] Yes [] No
Requested analysis [X] Yes [] On Hold

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? [X] NA [] YES [] NO

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

**Fill out Green manifolds billing sheet



13751 Lake City Way NE, Ste 108, Seattle, WA 98125 • USA • T:206-632-6206 • info@brooksapplied.com

December 24, 2024

Whitman Environmental Sciences
ATTN: Daniel Whitman
410 Eagle Cove Drive
Friday Harbor, WA 98250
whitenviro@yahoo.com

RE: Project WHE-SE2401

Client Project: 12th and Yesler

Dear Daniel Whitman,

On December 13, 2024, Brooks Applied Labs (BAL) received eight (8) water samples. The samples were logged-in for the analyses of arsenic speciation [As(III), As(V), MMAs, DMAs, and the sum of unknown As species] according to the chain-of-custody form. All samples were received and stored according to BAL SOPs and EPA methodology.

The COC did not list the sampled dates or times. This information was taken from the sample labels per client request.

All samples were field filtered.

Arsenic Speciation Quantitation by IC-ICP-CRC-MS

Arsenic speciation was performed by ion chromatography inductively coupled plasma collision reaction cell mass spectrometry (IC-ICP-CRC-MS). Arsenic species are first chromatographically separated on an ion exchange column and then quantified using inductively coupled plasma collision reaction cell mass spectrometry (ICP-CRC-MS). For more information on this determinative technique, please visit the Interference Reduction Technology section on our website.

It should be noted that all Brooks Applied Labs, LLC methods, standard operating procedures, inventions, ideas, processes, improvements, designs, and techniques included or referred to therein, must be considered and treated as Proprietary Information, protected by the Washington State Trade Secret Act, RCW 19.108 et seq., and other laws. All Proprietary Information, written or implied, will not be distributed, copied, or altered in any fashion without prior written consent from Brooks Applied Labs, LLC. All Proprietary Information (including originals, copies, summaries, or other reproductions thereof) shall remain the property of Brooks Applied Labs, LLC at all times and must be returned upon demand. Furthermore, products presented in this document may be protected by Federal Patent laws and infringement will be subject to prosecution in accordance with Title 35 US Code 271.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

The results were not method blank corrected, as described in the calculations section of the relevant BAL SOP(s), and were evaluated using reporting limits adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

BAL verifies that the reported results of all analyses for which the laboratory is accredited meet the requirements of the accrediting body, unless otherwise noted in the report narrative. For more information regarding accreditations please see the *Report Information* and *Batch Summary* pages. This report must be used in its entirety for interpretation of results.

Please feel free to contact us if you have any questions regarding this report.

Sincerely,

A handwritten signature in cursive script that reads "Amy Goodall".

Amy Goodall
Project Manager
Brooks Applied Labs
amy@brooksapplied.com



Report Information

General Disclaimers

Test results are based solely upon the sample submitted to Brooks Applied Labs in the condition it was received. This report shall not be reproduced or copied, except in full, without written approval of the laboratory. Brooks Applied Labs is not responsible for the consequences arising from the use of a partial report.

Laboratory Accreditation

BAL maintains accreditation with various state and national agencies for select test methods. For a current list of BAL accreditations, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. The reported analyte/matrix/method combination shall be considered outside BAL's scopes of accreditation unless otherwise identified as ISO, TNI, or ISO,TNI in the tables. It is the responsibility of the client to verify whether a specific accreditation is required for the intended data use.

ISO: ISO/IEC 17025:2017 accredited test method. Issued by ANSI National Accreditation Board (ANAB), #ADE-1447.02

TNI: NELAP accredited test method. Issued by the State of Florida Department of Health, #E87982.

ISO,TNI: Test method is accredited under both the ISO/IEC 17025:2017 and NELAP accreditations referenced above.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	MS	matrix spike
BAL	Brooks Applied Labs	MSD	matrix spike duplicate
BLK	method blank	ND	non-detect
BS	blank spike	NR	non-reportable
CAL	calibration standard	N/C	not calculated
CCB	continuing calibration blank	PS	post preparation spike
CCV	continuing calibration verification	REC	percent recovery
COC	chain of custody record	RPD	relative percent difference
D	dissolved fraction	SCV	secondary calibration verification
DUP	duplicate	SOP	standard operating procedure
IBL	instrument blank	SRM	reference material
ICV	initial calibration verification	T	total fraction
MDL	method detection limit	TR	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.



Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
MW-1R-GW	2412246-01	Water	Sample	12/12/2024	12/13/2024
MW-5R-GW	2412246-02	Water	Sample	12/12/2024	12/13/2024
MW-12R-GW	2412246-03	Water	Sample	12/13/2024	12/13/2024
MW-15R-GW	2412246-04	Water	Sample	12/12/2024	12/13/2024
MW-17-GW	2412246-05	Water	Sample	12/13/2024	12/13/2024
MW-18-GW	2412246-06	Water	Sample	12/13/2024	12/13/2024
GEO-B-7R-GW	2412246-07	Water	Sample	12/12/2024	12/13/2024
GEO-B-9R-GW	2412246-08	Water	Sample	12/12/2024	12/13/2024

Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
As(III)	Water	SOP BAL-4100	ISO,TNI	12/17/24	12/18/24	B243096	S241230
As(V)	Water	SOP BAL-4100	ISO,TNI	12/17/24	12/18/24	B243096	S241230
DMAs	Water	SOP BAL-4100	ISO	12/17/24	12/18/24	B243096	S241230
MMAAs	Water	SOP BAL-4100	ISO	12/17/24	12/18/24	B243096	S241230
Unk As Sp	Water	SOP BAL-4100		12/17/24	12/18/24	B243096	S241230



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MW-1R-GW										
2412246-01	As(III)	Water	D	8.96		0.200	1.05	µg/L	B243096	S241230
2412246-01	As(V)	Water	D	0.750	J	0.500	1.05	µg/L	B243096	S241230
2412246-01	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B243096	S241230
2412246-01	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B243096	S241230
2412246-01	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B243096	S241230
MW-5R-GW										
2412246-02	As(III)	Water	D	10.6		0.200	1.05	µg/L	B243096	S241230
2412246-02	As(V)	Water	D	2.12		0.500	1.05	µg/L	B243096	S241230
2412246-02	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B243096	S241230
2412246-02	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B243096	S241230
2412246-02	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B243096	S241230
MW-12R-GW										
2412246-03	As(III)	Water	D	621		0.200	1.05	µg/L	B243096	S241230
2412246-03	As(V)	Water	D	35.0		0.500	1.05	µg/L	B243096	S241230
2412246-03	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B243096	S241230
2412246-03	MMAs	Water	D	1.81		0.200	1.05	µg/L	B243096	S241230
2412246-03	Unk As Sp	Water	D	0.524	J	0.250	1.05	µg/L	B243096	S241230
MW-15R-GW										
2412246-04	As(III)	Water	D	16.9		0.200	1.05	µg/L	B243096	S241230
2412246-04	As(V)	Water	D	6.61		0.500	1.05	µg/L	B243096	S241230
2412246-04	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B243096	S241230
2412246-04	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B243096	S241230
2412246-04	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B243096	S241230
MW-17-GW										
2412246-05	As(III)	Water	D	0.458	J	0.200	1.05	µg/L	B243096	S241230
2412246-05	As(V)	Water	D	0.587	J	0.500	1.05	µg/L	B243096	S241230
2412246-05	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B243096	S241230
2412246-05	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B243096	S241230
2412246-05	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B243096	S241230



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MW-18-GW										
2412246-06	As(III)	Water	D	1.51		0.200	1.05	µg/L	B243096	S241230
2412246-06	As(V)	Water	D	17.1		0.500	1.05	µg/L	B243096	S241230
2412246-06	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B243096	S241230
2412246-06	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B243096	S241230
2412246-06	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B243096	S241230
GEO-B-7R-GW										
2412246-07	As(III)	Water	D	0.216	J	0.200	1.05	µg/L	B243096	S241230
2412246-07	As(V)	Water	D	0.598	J	0.500	1.05	µg/L	B243096	S241230
2412246-07	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B243096	S241230
2412246-07	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B243096	S241230
2412246-07	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B243096	S241230
GEO-B-9R-GW										
2412246-08	As(III)	Water	D	46.0		0.200	1.05	µg/L	B243096	S241230
2412246-08	As(V)	Water	D	3.61		0.500	1.05	µg/L	B243096	S241230
2412246-08	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B243096	S241230
2412246-08	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B243096	S241230
2412246-08	Unk As Sp	Water	D	0.339	J	0.250	1.05	µg/L	B243096	S241230



Accuracy & Precision Summary

Batch: B243096
 Lab Matrix: Water
 Method: SOP BAL-4100

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B243096-BS1	Blank Spike, (2331029)						
	As(III)		5.000	4.757	µg/L	95% 75-125	
	As(V)		5.000	4.169	µg/L	83% 75-125	
B243096-BS2	Blank Spike, (2306015)						
	DMAs		5.000	5.025	µg/L	101% 75-125	
	MMAs		4.400	4.255	µg/L	97% 75-125	
B243096-DUP2	Duplicate, (2412246-07)						
	As(III)	0.216		ND	µg/L		N/C 25
	As(V)	0.598		0.653	µg/L		9% 25
	DMAs	ND		ND	µg/L		N/C 25
	MMAs	ND		ND	µg/L		N/C 25
	Unk As Sp	ND		ND	µg/L		N/C 25
B243096-MS2	Matrix Spike, (2412246-07)						
	As(III)	0.216	52.25	50.89	µg/L	97% 75-125	
	As(V)	0.598	48.55	46.21	µg/L	94% 75-125	
	DMAs	ND	55.55	51.43	µg/L	93% 75-125	
	MMAs	ND	50.00	46.45	µg/L	93% 75-125	
B243096-MSD2	Matrix Spike Duplicate, (2412246-07)						
	As(III)	0.216	52.25	51.73	µg/L	99% 75-125	2% 25
	As(V)	0.598	48.55	43.22	µg/L	88% 75-125	7% 25
	DMAs	ND	55.55	53.98	µg/L	97% 75-125	5% 25
	MMAs	ND	50.00	49.82	µg/L	100% 75-125	7% 25



Method Blanks & Reporting Limits

Batch: B243096
Matrix: Water
Method: SOP BAL-4100
Analyte: As(III)

Sample	Result	Units	
B243096-BLK1	0.00	µg/L	
B243096-BLK2	0.00	µg/L	
B243096-BLK3	0.00	µg/L	
B243096-BLK4	0.00	µg/L	
Average:	0.000		MDL: 0.004
Limit:	0.021		MRL: 0.021

Analyte: As(V)

Sample	Result	Units	
B243096-BLK1	0.0008	µg/L	
B243096-BLK2	0.001	µg/L	
B243096-BLK3	0.002	µg/L	
B243096-BLK4	0.0002	µg/L	
Average:	0.001		MDL: 0.010
Limit:	0.021		MRL: 0.021

Analyte: DMAs

Sample	Result	Units	
B243096-BLK1	0.00	µg/L	
B243096-BLK2	0.00	µg/L	
B243096-BLK3	0.00	µg/L	
B243096-BLK4	0.00	µg/L	
Average:	0.000		MDL: 0.005
Limit:	0.021		MRL: 0.021



Method Blanks & Reporting Limits

Analyte: MMAs

Sample	Result	Units	
B243096-BLK1	0.00	µg/L	
B243096-BLK2	0.00	µg/L	
B243096-BLK3	0.00	µg/L	
B243096-BLK4	0.00	µg/L	
Average:	0.000		MDL: 0.004
Limit:	0.021		MRL: 0.021

Analyte: Unk As Sp

Sample	Result	Units	
B243096-BLK1	0.00	µg/L	
B243096-BLK2	0.00	µg/L	
B243096-BLK3	0.00	µg/L	
B243096-BLK4	0.00	µg/L	
Average:	0.000		MDL: 0.005
Limit:	0.021		MRL: 0.021



Sample Containers

Lab ID: 2412246-01		Report Matrix: Water				Collected: 12/12/2024	
Sample: MW-1R-GW		Sample Type: Sample				Received: 12/13/2024	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0086	EDTA (in vial)	n/a	n/a	Cooler - 2412246
B	XTRA_VOL	10mL	24-0086	EDTA (in vial)	n/a	n/a	Cooler - 2412246

Lab ID: 2412246-02		Report Matrix: Water				Collected: 12/12/2024	
Sample: MW-5R-GW		Sample Type: Sample				Received: 12/13/2024	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0086	EDTA (in vial)	n/a	n/a	Cooler - 2412246
B	XTRA_VOL	10mL	24-0086	EDTA (in vial)	n/a	n/a	Cooler - 2412246

Lab ID: 2412246-03		Report Matrix: Water				Collected: 12/13/2024	
Sample: MW-12R-GW		Sample Type: Sample				Received: 12/13/2024	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0086	EDTA (in vial)	n/a	n/a	Cooler - 2412246
B	XTRA_VOL	10mL	24-0086	EDTA (in vial)	n/a	n/a	Cooler - 2412246

Lab ID: 2412246-04		Report Matrix: Water				Collected: 12/12/2024	
Sample: MW-15R-GW		Sample Type: Sample				Received: 12/13/2024	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0086	EDTA (in vial)	n/a	n/a	Cooler - 2412246
B	XTRA_VOL	10mL	24-0086	EDTA (in vial)	n/a	n/a	Cooler - 2412246



Sample Containers

Lab ID: 2412246-05		Report Matrix: Water				Collected: 12/13/2024	
Sample: MW-17-GW		Sample Type: Sample				Received: 12/13/2024	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0086	EDTA (in vial)	n/a	n/a	Cooler - 2412246
B	XTRA_VOL	10mL	24-0086	EDTA (in vial)	n/a	n/a	Cooler - 2412246

Lab ID: 2412246-06		Report Matrix: Water				Collected: 12/13/2024	
Sample: MW-18-GW		Sample Type: Sample				Received: 12/13/2024	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0086	EDTA (in vial)	n/a	n/a	Cooler - 2412246
B	XTRA_VOL	10mL	24-0086	EDTA (in vial)	n/a	n/a	Cooler - 2412246

Comments: Client says this container may have been sampled incorrectly. Only analyze from container A.

Lab ID: 2412246-07		Report Matrix: Water				Collected: 12/12/2024	
Sample: GEO-B-7R-GW		Sample Type: Sample				Received: 12/13/2024	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0086	EDTA (in vial)	n/a	n/a	Cooler - 2412246
B	XTRA_VOL	10mL	24-0086	EDTA (in vial)	n/a	n/a	Cooler - 2412246

Lab ID: 2412246-08		Report Matrix: Water				Collected: 12/12/2024	
Sample: GEO-B-9R-GW		Sample Type: Sample				Received: 12/13/2024	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0086	EDTA (in vial)	n/a	n/a	Cooler - 2412246
B	XTRA_VOL	10mL	24-0086	EDTA (in vial)	n/a	n/a	Cooler - 2412246

Project ID: WHE-SE2401
PM: Amy Goodall



BAL Report 2412246
Client PM: Daniel Whitman
Client Project: 12th and Yesler

Shipping Containers

Cooler - 2412246

Received: December 13, 2024 16:56
Tracking No: n/a via Courier
Coolant Type: Ice
Temperature: 2.7 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: SETH-1

Custody seals present? No
Custody seals intact? No
COC present? Yes



Chain-of-Custody Form

BAL Report 2412246

Ship samples to:
 13751 Lake City Way NE, Suite 108
 Seattle, WA 98125

Received by: EO For BAL use only Date: 12/13/24
 Work Order ID: _____ Time: 15:56 EE EO
 Project ID: _____ 16:56 12/17/24

Client: WHITMAN ENV. SCIENCES PO Number: WES-1591 Mailing Address: 410 EAGLE COVE DRIVE
 Contact: DAN WHITMAN Phone: 206-523-3505 FRIDAY HARBOR, WA 98250
 Client Project ID: 12TH + YESLER Email: WHITENVIR@YAHOO.COM Email Receipt Confirmation? (Yes/No)
 Samples Collected By: DAN WHITMAN BAL PM: _____

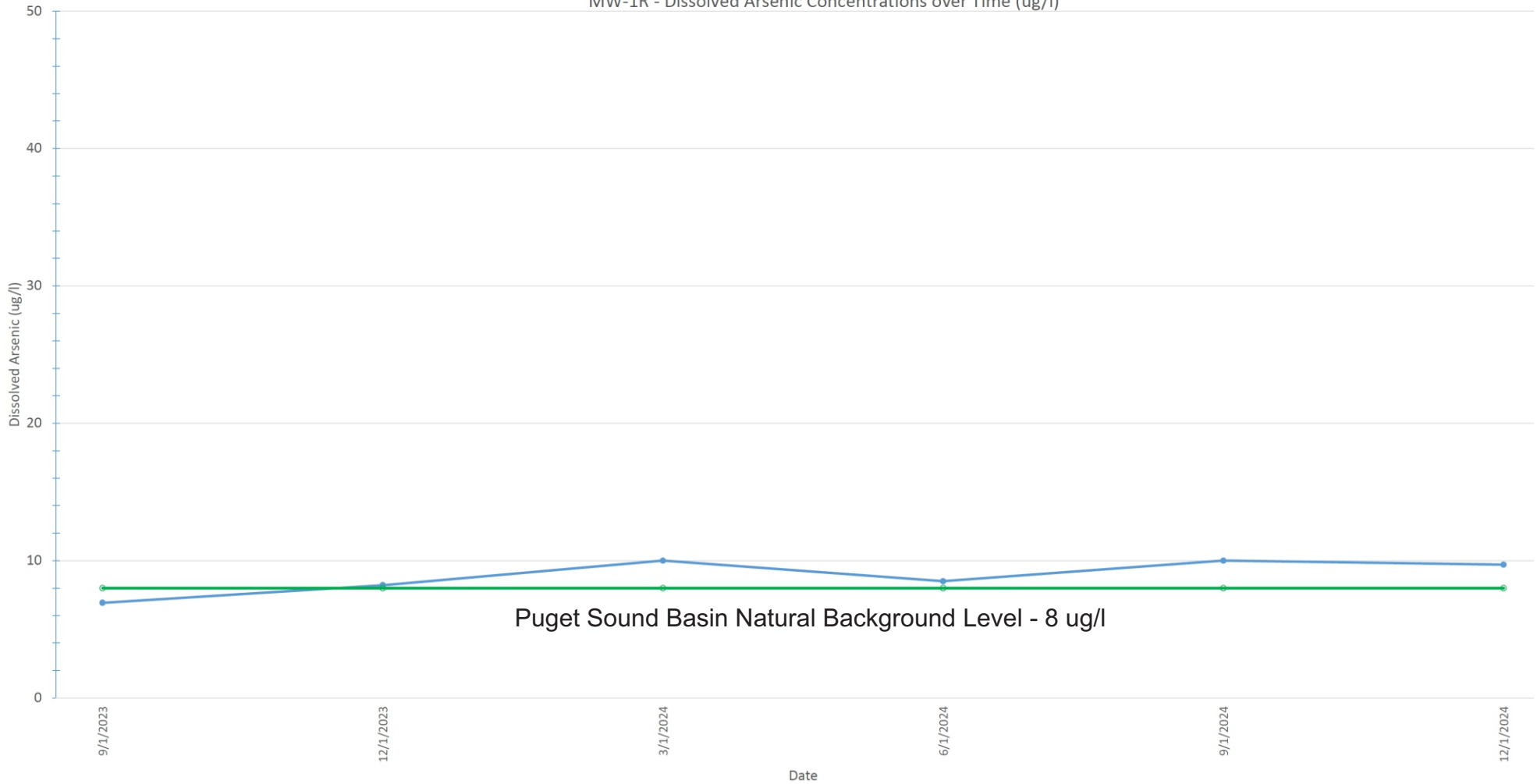
Requested TAT (business days)	Collection		Client Sample Info				BAL Analyses Required						Comments	
	Date	Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO ₃ /Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Unknown	Filtration		Other (specify)
<input checked="" type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>	Specify Here													
Sample ID														
1	<u>MW-1R-GW</u>		<u>UNDEP</u>	<u>2</u>	<u>Yes</u>					<u>X</u>				
2	<u>MW-5R-GW</u>									<u>X</u>				
3	<u>MW-12R-GW</u>									<u>X</u>				
4	<u>MW-15R-GW</u>									<u>X</u>				
5	<u>MW-17-GW</u>									<u>X</u>				
6	<u>MW-18-GW</u>									<u>X</u>				
7	<u>GEO-B-7R-GW</u>									<u>X</u>				
8	<u>GEO-B-9R-GW</u>									<u>X</u>				
9														
10														
Trip Blank														
Relinquished By: <u>[Signature]</u>	Date: <u>12-13-24</u>	Time: <u>15:56</u>	Relinquished By: _____				Date: _____	Time: _____						
Received By: _____	Date: _____	Time: _____	Total Number of Packages: _____											

Page ____ of ____ List Hazardous Contaminants: _____ samples@brooksapplied.com | brooksapplied.com

Appendix B

Dissolved Arsenic Time Series Plots

MW-1R - Dissolved Arsenic Concentrations over Time (ug/l)



Puget Sound Basin Natural Background Level - 8 ug/l

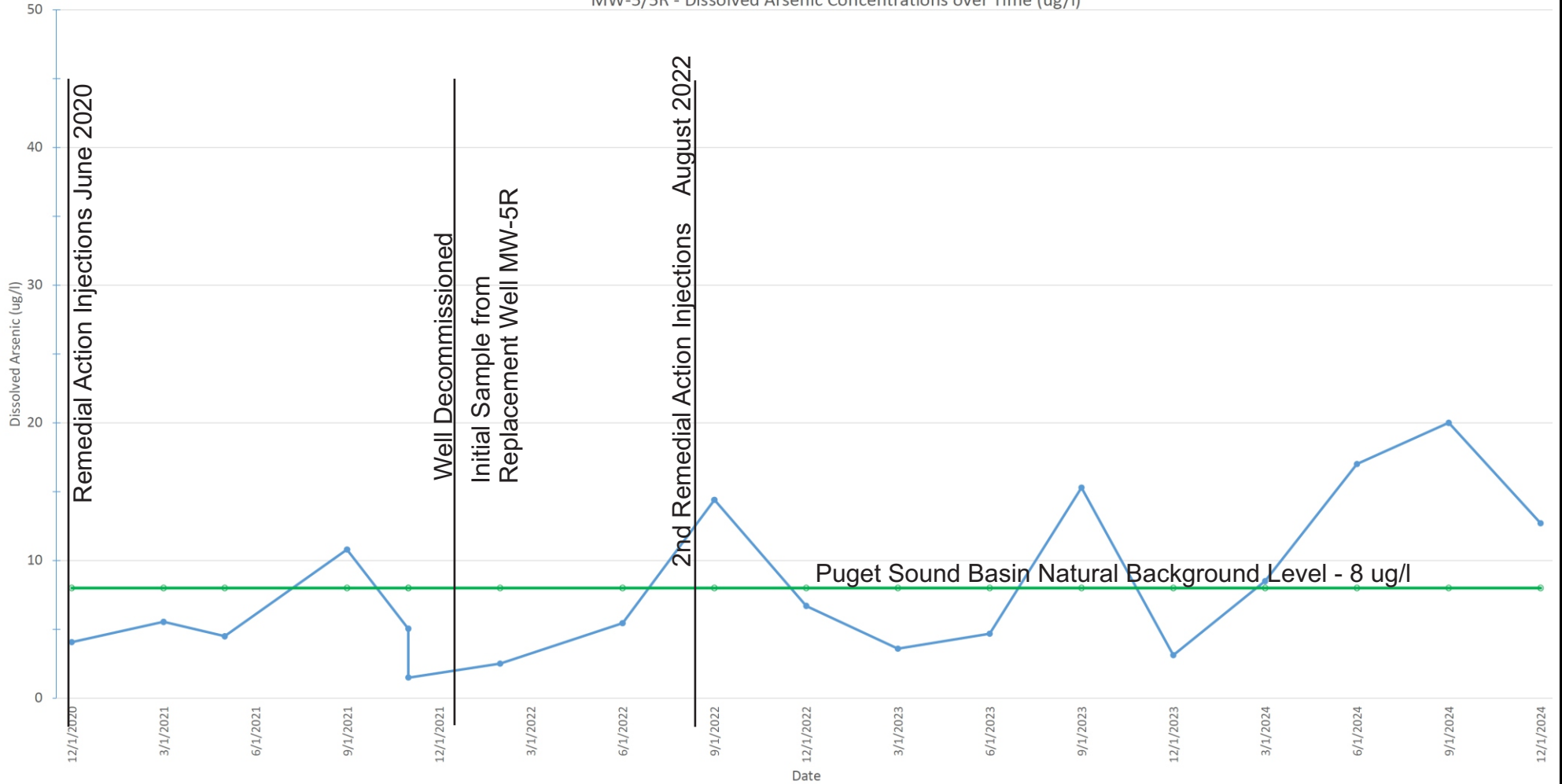
Dissolved Arsenic Over Time - MW-1R

Proposed Redevelopment Property
104-124 12th Avenue & 1209 E. Fir Street
Seattle, WA

Project No.	WES - 1591A
Date	Dec 2024
File ID.	1591TSMW1R

WHITMAN
Environmental Sciences

MW-5/5R - Dissolved Arsenic Concentrations over Time (ug/l)

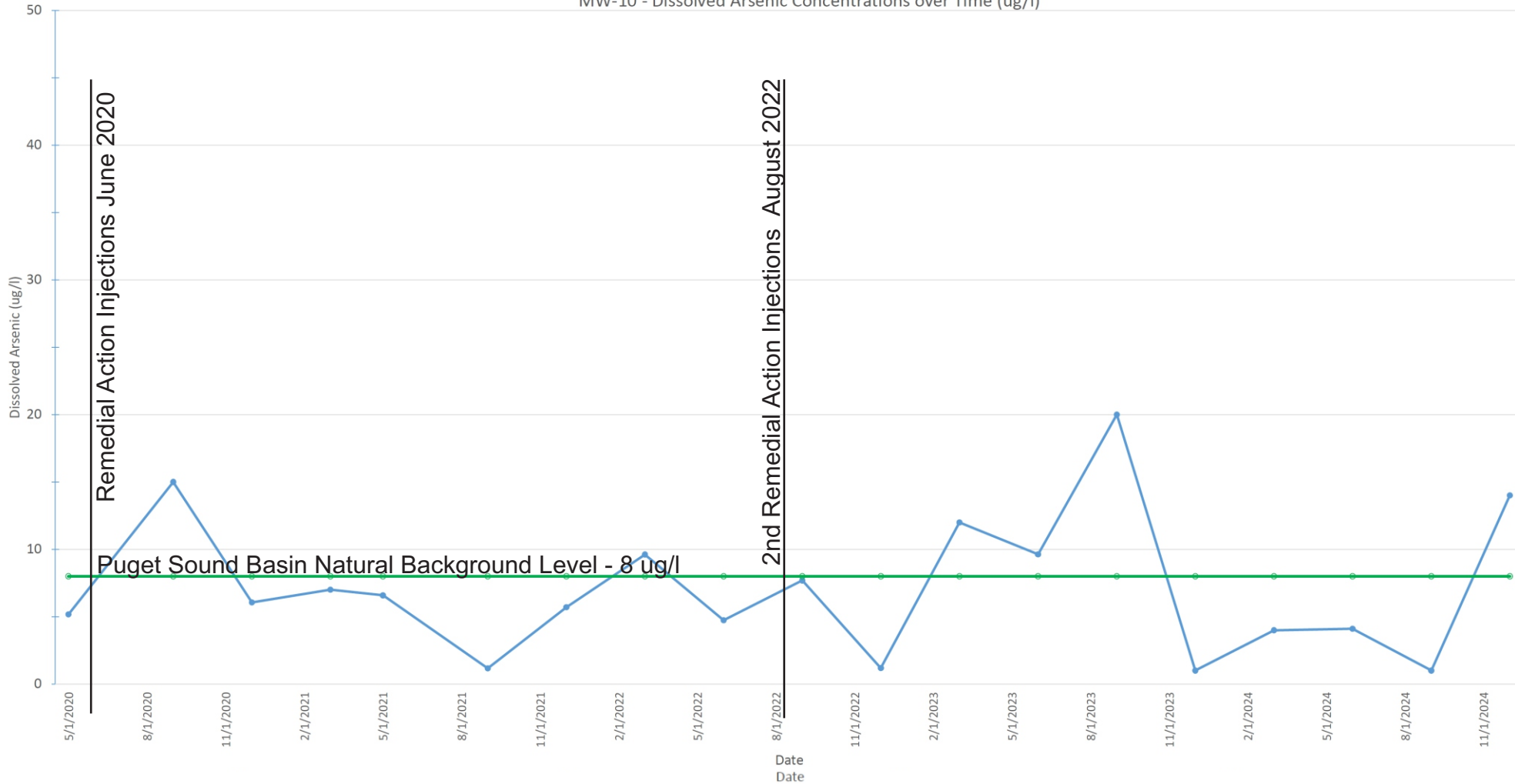


Dissolved Arsenic Over Time - MW-5/5R

Proposed Redevelopment Property
 104-124 12th Avenue & 1209 E. Fir Street
 Seattle, WA

Project No.	WES - 1591A	WHITMAN Environmental Sciences
Date	Dec 2024	
File ID.	1591TSMW5	

MW-10 - Dissolved Arsenic Concentrations over Time (ug/l)



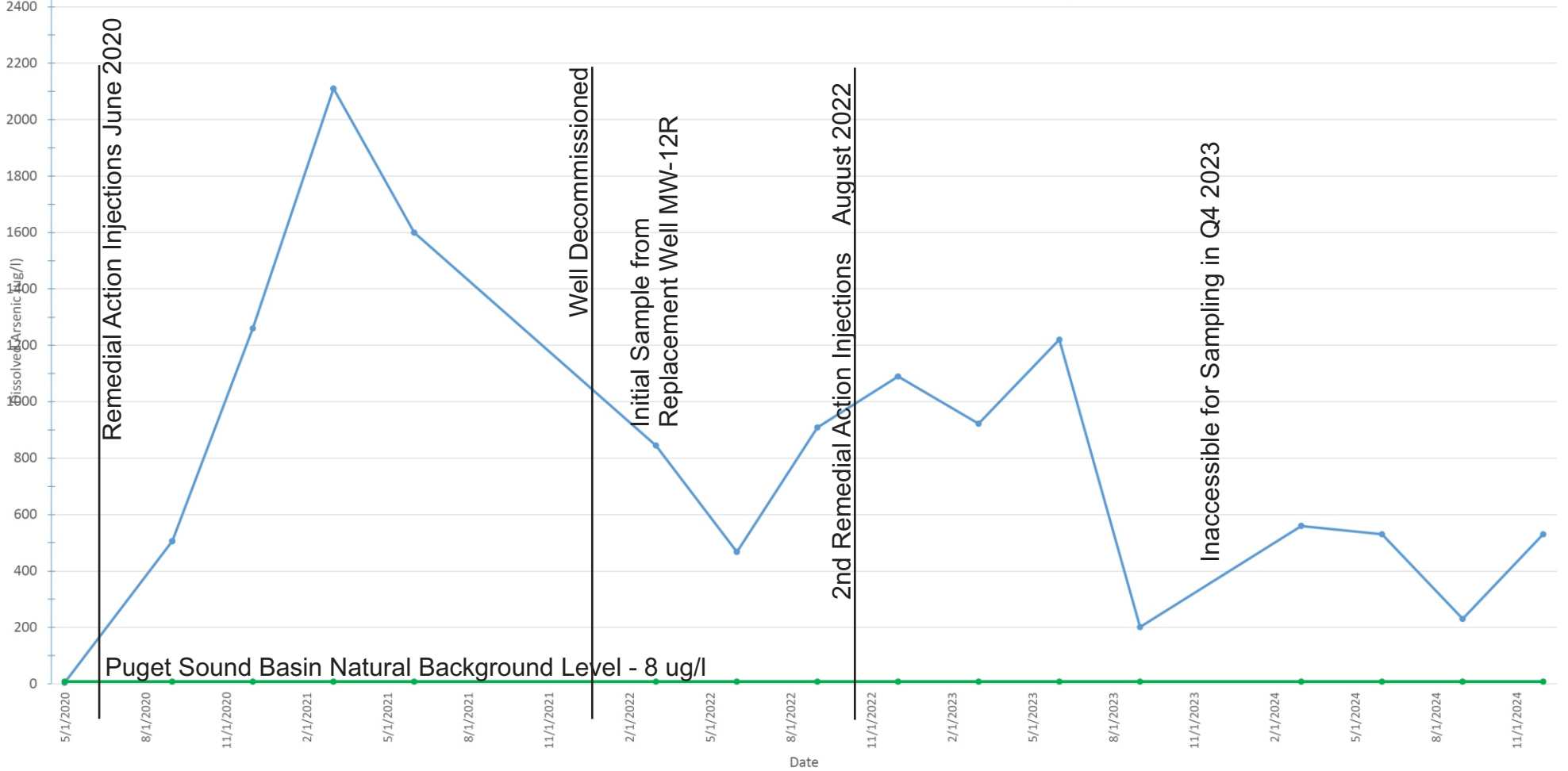
Dissolved Arsenic Over Time - MW-10

Proposed Redevelopment Property
 104-124 12th Avenue & 1209 E. Fir Street
 Seattle, WA

Project No.	WES - 1591A
Date	Dec 2024
File ID.	1591TSMW10

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MW-12/12R - Dissolved Arsenic Concentrations over Time (ug/l)



Dissolved Arsenic Over Time - MW-12/12R

Proposed Redevelopment Property
 104-124 12th Avenue & 1209 E. Fir Street
 Seattle, WA

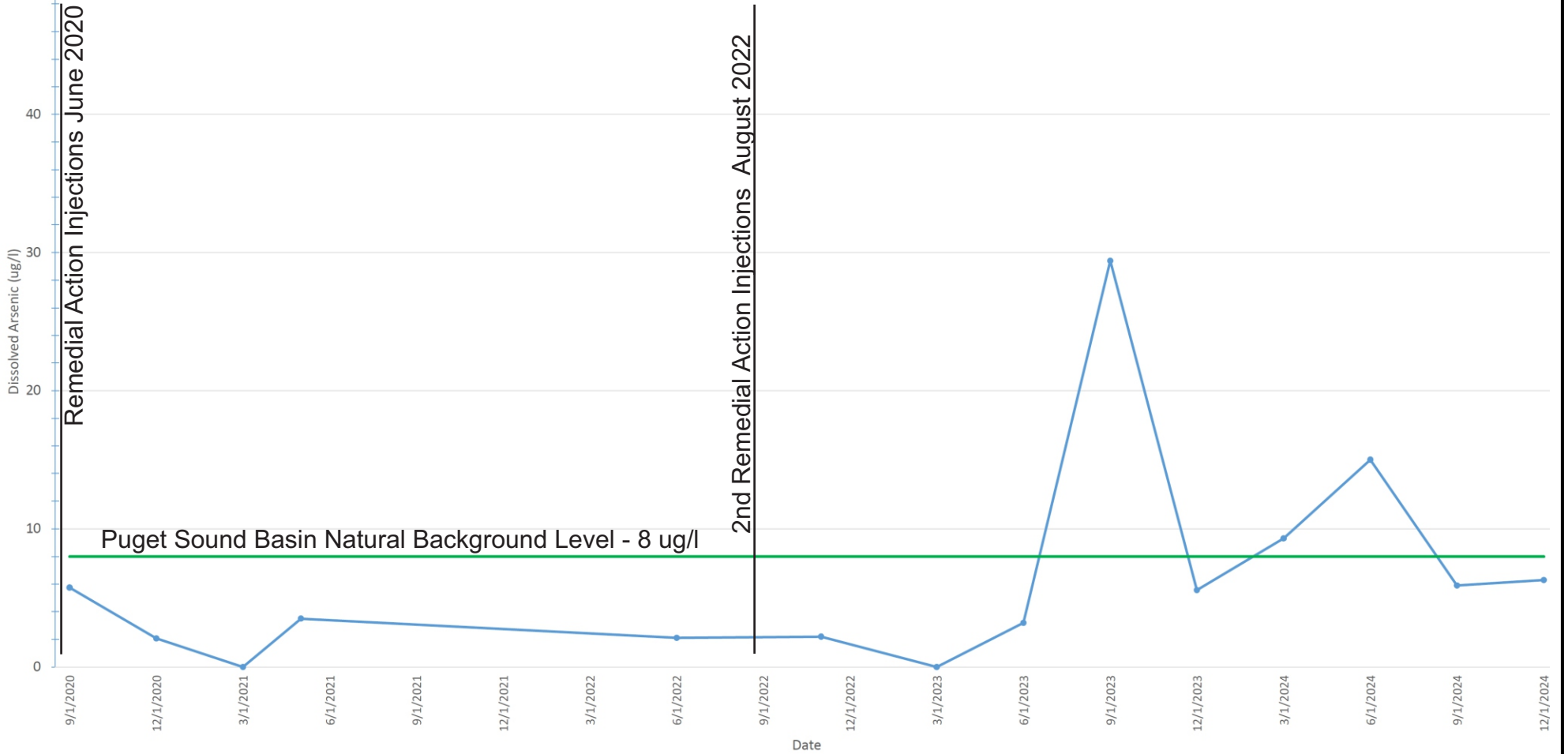
Project No. WES - 1591A

Date Dec 2024

File ID. 1591TSMW12

WHITMAN
 Environmental Sciences

MW-13 - Dissolved Arsenic Concentrations over Time (ug/l)



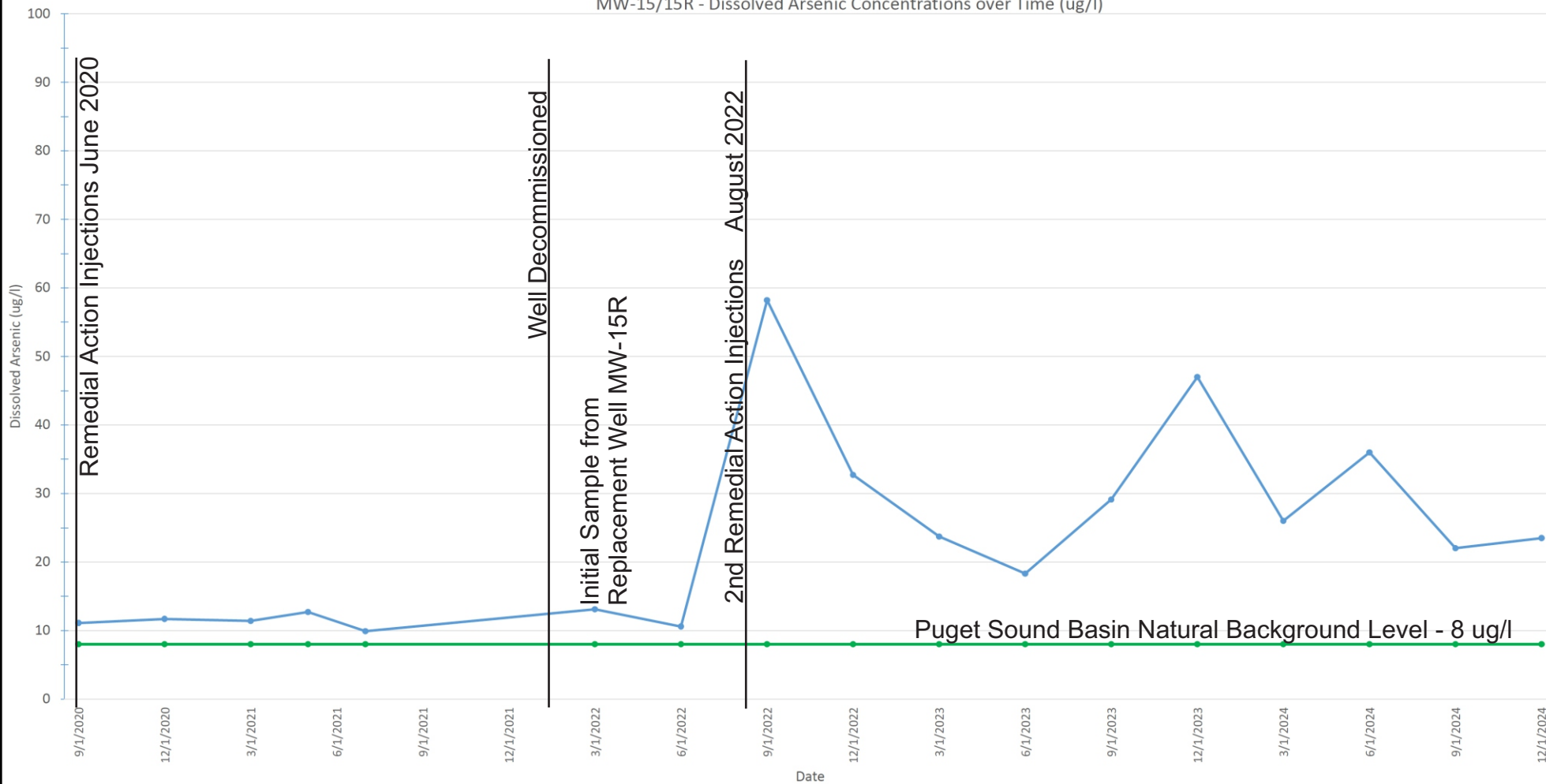
Dissolved Arsenic Over Time - MW-13

Proposed Redevelopment Property
 104-124 12th Avenue & 1209 E. Fir Street
 Seattle, WA

Project No.	WES - 1591A
Date	Dec 2024
File ID.	1591TSMW13

WHITMAN
 Environmental Sciences

MW-15/15R - Dissolved Arsenic Concentrations over Time (ug/l)

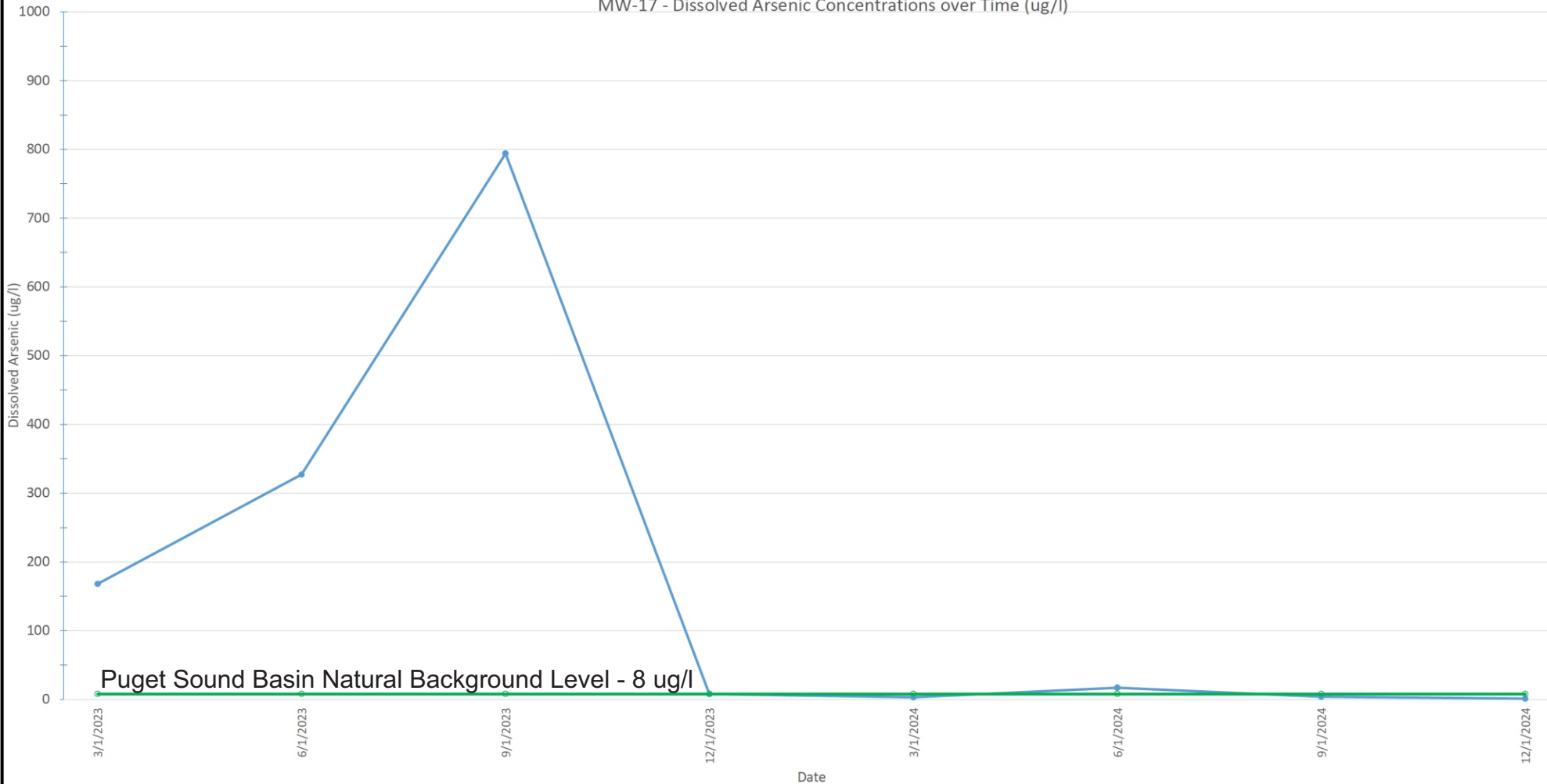


Dissolved Arsenic Over Time - MW-15/15R

Proposed Redevelopment Property
104-124 12th Avenue & 1209 E. Fir Street
Seattle, WA

Project No.	WES - 1591A	WHITMAN Environmental Sciences
Date	Dec 2024	
File ID.	1591TSMW15	

MW-17 - Dissolved Arsenic Concentrations over Time (ug/l)



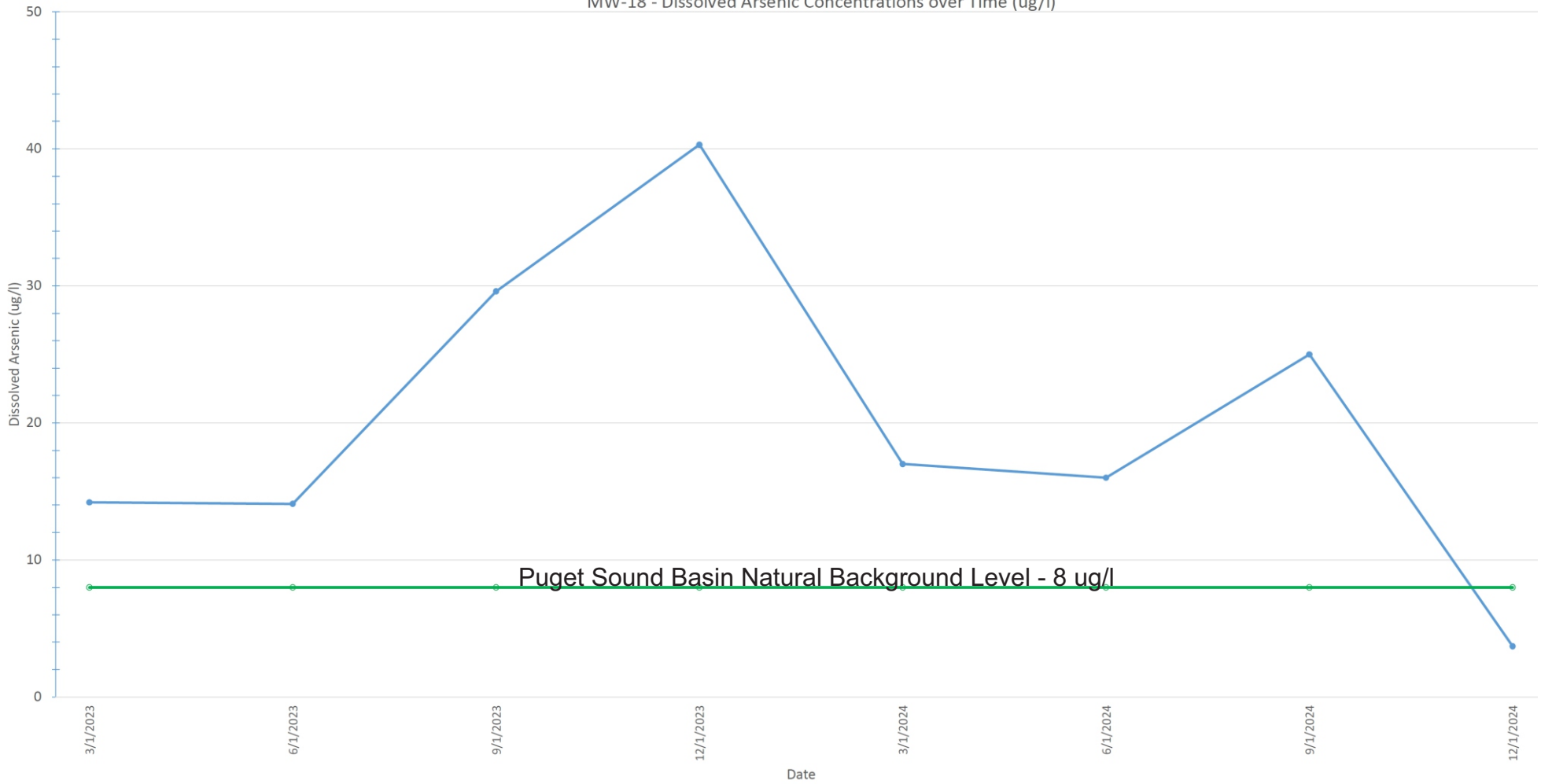
Dissolved Arsenic Over Time - MW-17

Proposed Redevelopment Property
104-124 12th Avenue & 1209 E. Fir Street
Seattle, WA

Project No.	WES - 1591A
Date	Dec 2024
File ID.	1591TSMW17

WHITMAN
Environmental Sciences

MW-18 - Dissolved Arsenic Concentrations over Time (ug/l)



Dissolved Arsenic Over Time - MW-18

Proposed Redevelopment Property
104-124 12th Avenue & 1209 E. Fir Street
Seattle, WA

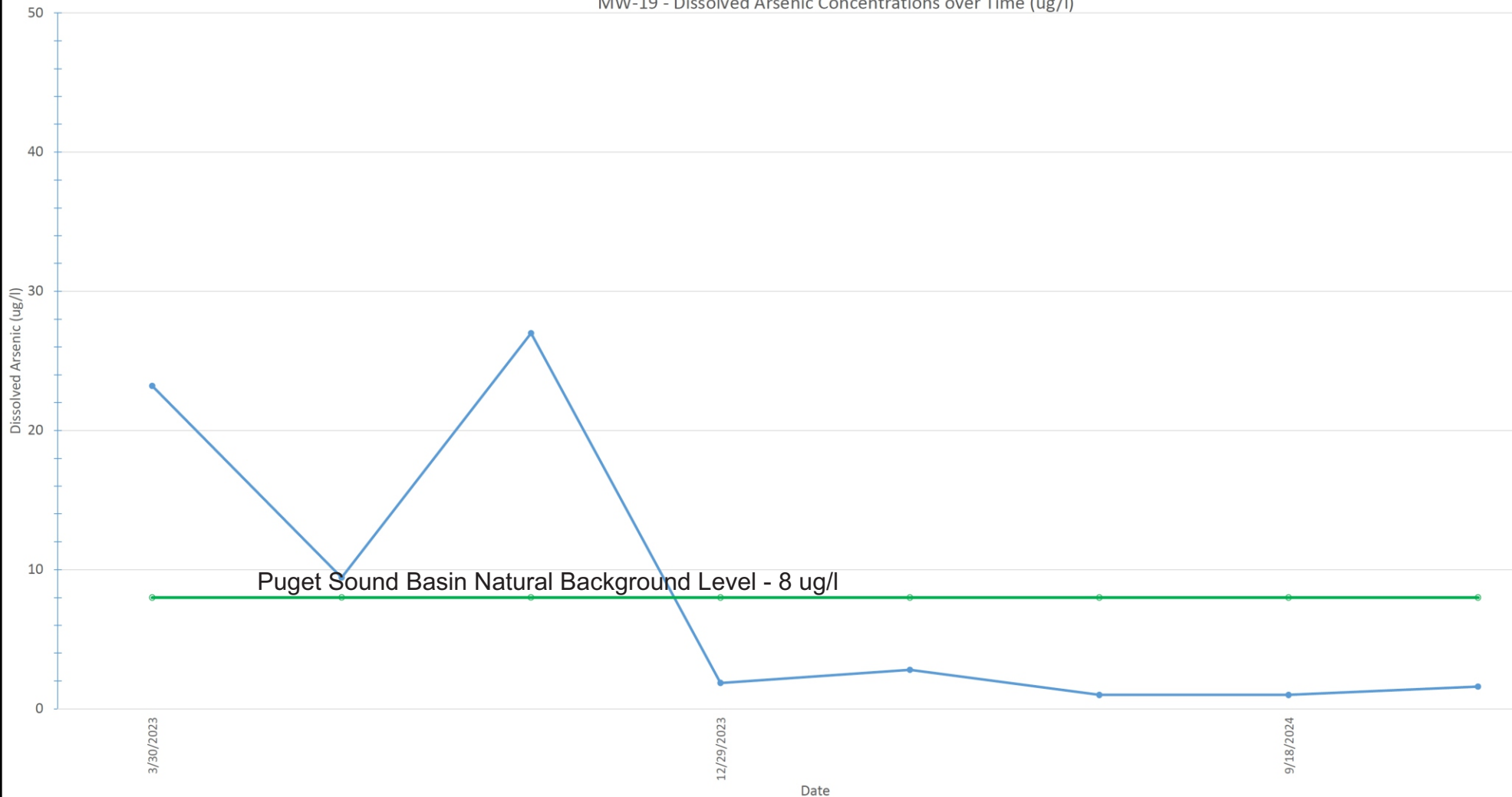
Project No. WES - 1591A

Date Dec 2024

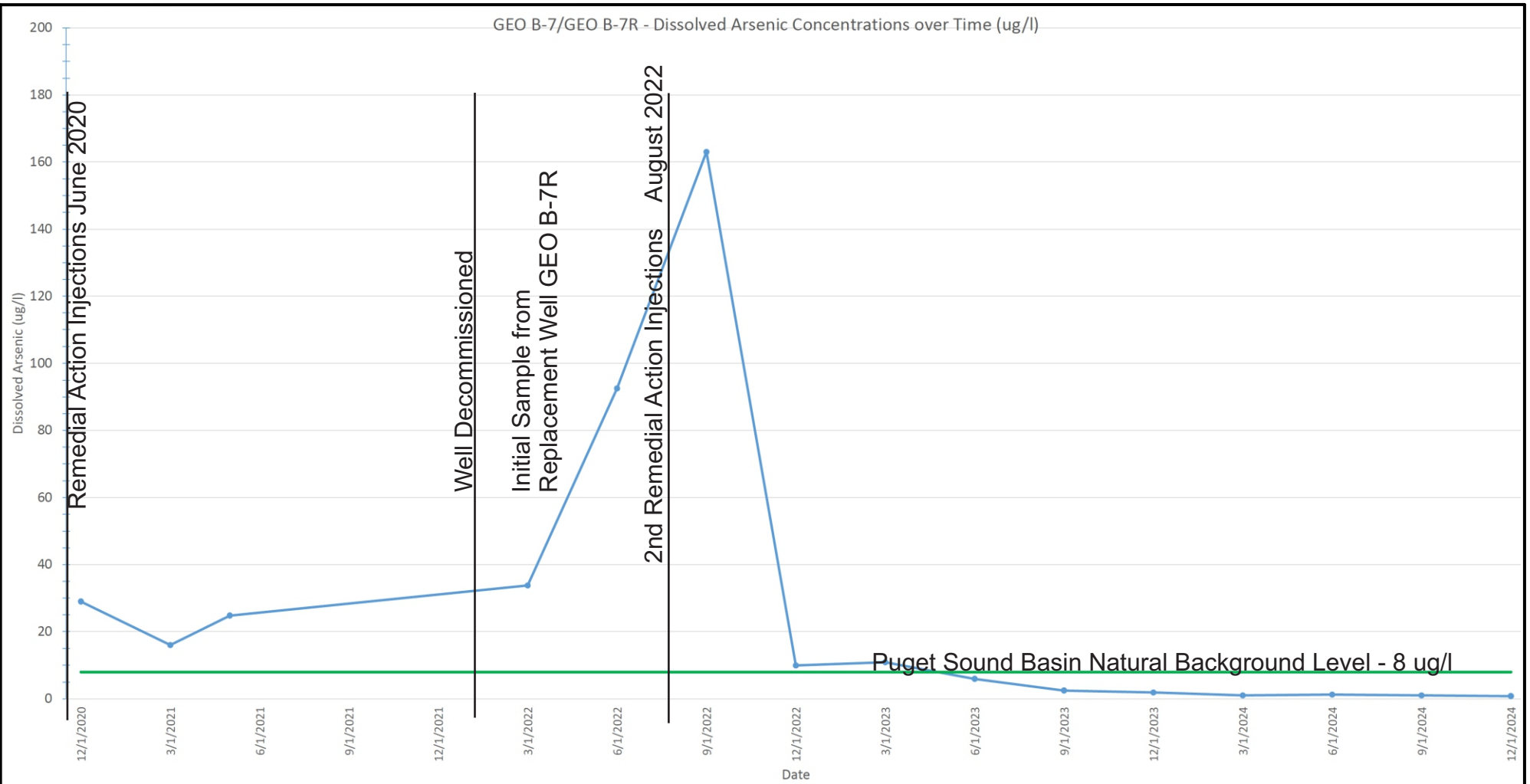
File ID. 1591TSMW18

WHITMAN
Environmental Sciences

MW-19 - Dissolved Arsenic Concentrations over Time (ug/l)



Dissolved Arsenic Over Time - MW-19	
Proposed Redevelopment Property 104-124 12th Avenue & 1209 E. Fir Street Seattle, WA	
Project No.	WES - 1591A
Date	Dec 2024
File ID.	1591TSMW19
WHITMAN Environmental Sciences	



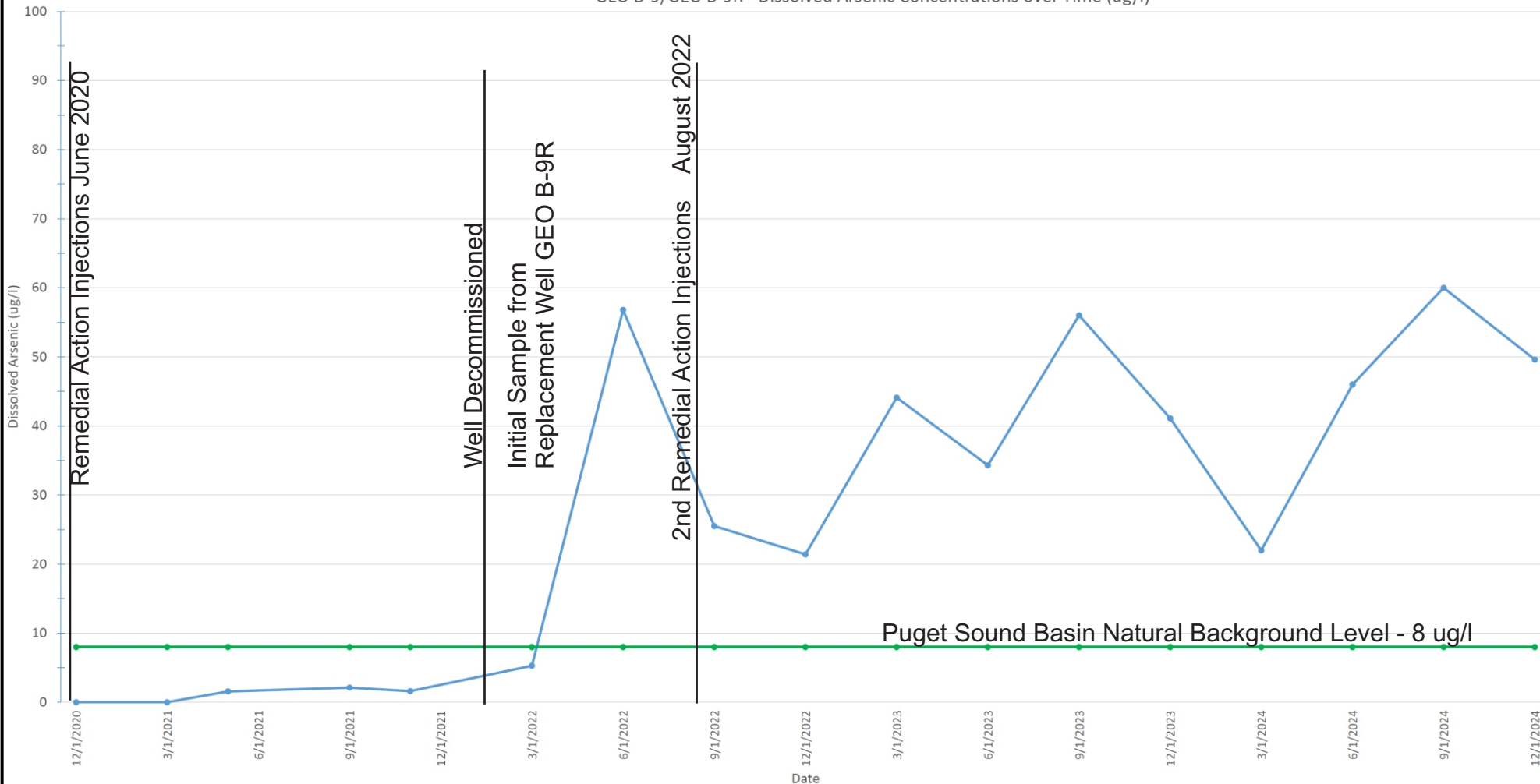
Dissolved Arsenic Over Time - GEO B-7/7R

Proposed Redevelopment Property
 104-124 12th Avenue & 1209 E. Fir Street
 Seattle, WA

Project No.	WES - 1591A
Date	Dec 2024
File ID.	1591TSGE0B7

WHITMAN
 Environmental Sciences

GEO B-9/GEO B-9R - Dissolved Arsenic Concentrations over Time (ug/l)



Dissolved Arsenic Over Time - GEO B-9/9R

Proposed Redevelopment Property
104-124 12th Avenue & 1209 E. Fir Street
Seattle, WA

Project No.	WES - 1591A	WHITMAN Environmental Sciences
Date	Dec 2024	
File ID.	1591TSGEOB9	