

# WHITMAN Environmental Sciences

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July 9, 2024

Centric Partners LLC  
c/o Trent Development  
1420 Fifth Avenue, Suite 2200  
Seattle, WA 98101

Attention: Mr. Michael Pollard

Subject: 2<sup>nd</sup> Quarter 2024 Groundwater Monitoring Summary  
104-124 12<sup>th</sup> Avenue & 1209 E. Fir Street  
Seattle, Washington

Dear Mr. Pollard:

As you have authorized, **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 2<sup>nd</sup> Quarter of 2024.

The findings of this round of sampling indicate that no groundwater from any of the ten tested wells contained detectable vinyl chloride or any other volatile organic compounds (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 eight 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.

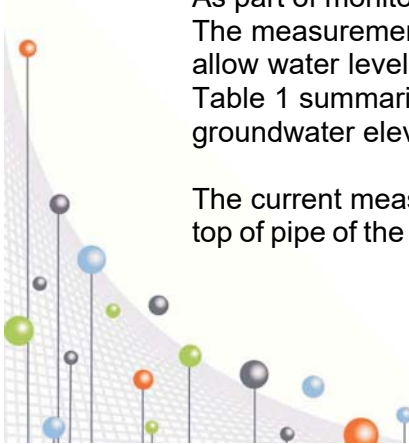
## **GROUNDWATER MONITORING**

A total of eleven monitoring wells were sampled as part of this monitoring event; wells 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 that groundwater was at depths of 4.74 to 15.01 feet below the top of pipe of the monitoring wells, corresponding to elevations ranging from 187.34 to 197.20 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 0.03 foot/foot to the southeast across most of the site, steepening considerably in the southeastern-most corner of the site.

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

### **Groundwater Sampling**

Ten of the site wells were sampled for volatile organic compounds. Six of those wells (MW-5R, MW-12R, MW-15R, MW-17, GEO B-7R and GEO B-9R) were fitted with passive diffusion bag samplers (PDBS) to obtain representative samples in wells that evidence high turbidity related to remedial injections conducted at the site in 2020 and 2022. The remaining samples were obtained using a peristaltic pump with dedicated polyethylene tubing to purge and 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 four 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. 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.

Field measurements of pH, ORP, dissolved oxygen and conductivity were used to evaluate when stabilized conditions were reached in the pump discharge water.

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

### **LABORATORY ANALYTICAL PROGRAM**

All samples were submitted to Friedman & Bruya, Inc., a Washington-state certified laboratory, for environmental analyses following Washington State approved methods.

Ten groundwater samples were analyzed for a list of 63 VOCs by EPA Method 8260D. MW-19, from an upgradient location was not analyzed for VOCs. All eleven samples were analyzed for dissolved arsenic by EPA Method 6020B. Four samples (from monitoring wells MW-1R, MW-10, MW-17 and MW-18) were analyzed for gasoline, diesel and motor oil range total petroleum hydrocarbons (TPH-G, TPH-D and TPH-O) by Washington accepted methods NWTPH-G and NWTPH-D (extended).

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.

No groundwater samples from any of the ten tested monitoring wells contained detectable VOCs. The results of this testing indicate the groundwater remedial actions have been effective to reduce groundwater concentrations of VOCs. No upgradient contamination has been detected in the monitoring wells along the northern boundary of the property, adjacent to the King County warehouse.

Dissolved arsenic concentrations ranged from 1.2 ug/l in monitoring well GEO B-7R to 530 ug/l in MW-12R. Concentrations above the 8 ug/l Puget Sound Basin threshold value of the natural arsenic background level were reported in eight of the eleven tested wells. Monitoring well MW-12R is an outlier; other than that well, the highest reported concentration is 46 ug/l, in monitoring well GEO B-9R.

MW-12R has shown highly elevated arsenic concentrations since the initial groundwater treatment in 2020. The reported concentration continues an overall downward trend that has been occurring since the 1<sup>st</sup> Quarter 2021, but has seasonally rebounded from the 4<sup>th</sup> Quarter 2023, when the reported concentration was 201 ug/l.

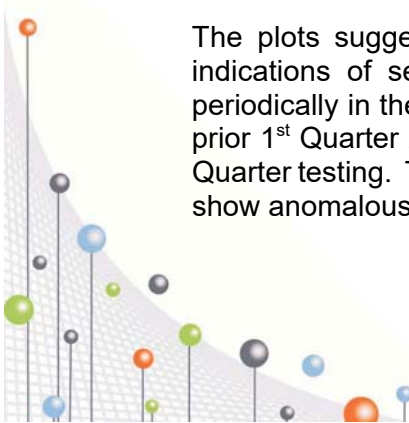
A sample from monitoring well MW-17 contained a reported arsenic concentration of 17 ug/l. This well is relatively new and had previously shown increasing concentrations ranging from 168 to 749 ug/l in three samples dating from 1<sup>st</sup> to 3<sup>rd</sup> Quarters 2023. Since then, the reported concentrations in three subsequent samples have dropped significantly, ranging from 2.9 ug/l to the current 17 ug/l.

Three of the four samples analyzed for TPH-G, TPH-D and TPH-O contained no detectable concentrations in any petroleum range. The sample from monitoring well MW-18 had a reported concentration of 59 ug/l (units equivalent to parts per billion) of TPH-D, but the laboratory flagged the data, noting that the chromatogram did not resemble the laboratory standard used to represent diesel. This typically indicates highly degraded petroleum or non-petroleum organic material in the water. Most detections of TPH-D or TPH-O in prior monitoring on this site since 2017 have been similarly flagged and soil analysis has shown organic soils are present on the site and in the surrounding area. The reported concentration is below the 500 ug/l MTCA Method A groundwater cleanup level for TPH-D.

Table 3 summarizes the groundwater sample analytical results from all wells in our prior monitoring events along with the current data.

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

The plots suggest that monitoring wells MW-5R, MW-10 and MW-15R show at least some indications of seasonal variations of arsenic concentrations, with elevated levels occurring periodically in the Fall or Winter sampling. Six wells demonstrate concentrations lower than the prior 1<sup>st</sup> Quarter 2024 round of testing. Five wells show concentrations higher than the prior 1<sup>st</sup> Quarter testing. The variations are typically within the range of prior analyses, so none of the wells show anomalous changes in concentrations from prior sampling results.



## **CONCLUSIONS**

Groundwater sampling and analysis are important parts of compliance monitoring for this site. In accordance with the Compliance Monitoring Plan Update, sampling has demonstrated compliance with all MTCA groundwater cleanup levels for VOCs for four or more consecutive quarters in all monitoring wells. Based on this finding, it is our opinion that sampling for VOCs can be reduced in accordance with the extended confirmational monitoring schedule in the CMP Update.

No TPH has been reported at concentrations exceeding MTCA cleanup levels in any of the four sampled wells. These analyses were added to compliance monitoring in response to Ecology's March 7, 2024 opinion letter. The results suggest this data gap has been addressed and no further TPH monitoring should be necessary.

Additional quarterly monitoring for dissolved arsenic will continue.

### **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



DANIEL S. WHITMAN

## **TABLES**

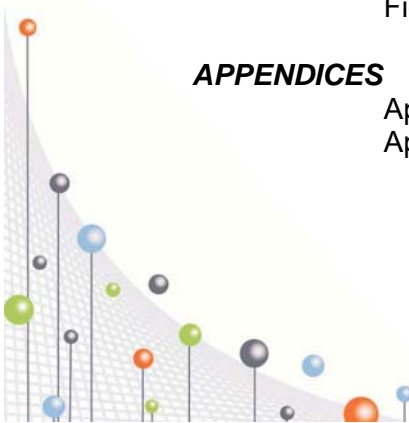
- Table 1 - Summary of 2<sup>nd</sup> Quarter 2024 Groundwater Level Measurements
- Table 2 - Summary of 2<sup>nd</sup> Quarter 2024 Groundwater Sample Analytical Results
- Table 3 - 2017-2024 Summary of Groundwater Sample Analytical Results

## **FIGURES**

- Figure 1 - Site Location Map
- Figure 2 - Site and Monitoring Well Location Plan
- Figure 3 - 2<sup>nd</sup> Quarter 2024 Groundwater Sampling Analytical Results

## **APPENDICES**

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



## ***TABLES***

**TABLE 1**  
**2<sup>nd</sup> Quarter 2024 Summary of Groundwater Level Measurements**  
**104 - 124 12<sup>th</sup> 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	5/15/2024	199.04	-7.78	191.26	2" Well, 21' deep
MW-5R	5/15/2024	202.67	-8.85	193.82	2" Well, 20' deep
MW-10	5/15/2024	197.37	-10.03	187.34	2" Well, 15' deep
MW-12R	5/15/2024	197.86	-6.43	191.43	2" Well, 20' deep
MW-13	5/15/2024	201.87	-7.98	193.89	2" Well, 20' deep
MW-15R	5/15/2024	199.72	-6.12	193.60	2" Well, 25' deep
MW-17	5/15/2024	197.68	-7.12	190.56	2" Well, 20' deep
MW-18	5/15/2024	198.09	-5.07	193.02	2" Well, 20' deep
MW-19	5/15/2024	212.21	-15.01	197.20	2" Well, 20' deep
GEO B-7R	5/15/2024	199.65	-4.74	194.91	2" Well, 20' deep
GEO B-9	5/15/2024	199.66	-6.58	193.08	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.

**TABLE 2**  
**2<sup>nd</sup> Quarter 2024 Summary of Groundwater Sample Analytical Results**  
**104 - 124 12<sup>th</sup> Avenue & 1209 E. Fir Street, Seattle, Washington**

Well ID	Sample Date	TPH-G	TPH-D	TPH-O	PCE	TCE	Cis 1,2 DCE	Vinyl Chloride	Other VOCs	Arsenic (Dissolved)
MW-1	Decommissioned Q4 2021									
MW-1S	Decommissioned Q1 2022									
MW-1D	Decommissioned Q1 2022									
MW-1R	6/30/23	Installed Replacement Well								
	6/18/24	<100	<50	<250	<1	<0.5	<1	<0.02	ND	<b>8.5</b>
MW-2	Decommissioned Q3 2021									
MW-3	Decommissioned Q1 2021									
MW-4	Decommissioned Q2 2021									
MW-5R	12/23/21	Installed Replacement Well								
	6/18/24	NA	NA	NA	<1	<0.5	<1	<0.02	ND	<b>17</b>
MW-6	Decommissioned Q1 2021									
MW-7	Decommissioned Q1 2021									
MW-8	Decommissioned Q1 2021									
MW-9	Decommissioned Q1 2021									
MW-10	6/18/24	<100	<50	<250	<1	<0.5	<1	< 0.02	ND	4.1
MW-11	Decommissioned Q3 2022									
MW-12R	12/23/21	Installed Replacement Well								
	6/20/24	NA	NA	NA	<1	<0.5	<1	<0.02	ND	<b>530</b>
MW-13	6/18/24	NA	NA	NA	<1	<0.5	<1	< 0.02	ND	<b>15</b>
MW-14	Decommissioned Q1 2021									
MW-15R	12/23/21	Installed Replacement Well								
	6/18/24	NA	NA	NA	<1	<0.5	<1	<0.02	ND	<b>36</b>
MW-16	Q1 2022	Decommissioned Q1 2022								
MW-17	3/18/23	Installed Well								
	6/18/24	<100	<50	<250	<1	<0.5	<1	<0.02	ND	<b>17</b>
MW-18	3/18/23	Installed Well								
	6/18/24	<100	59 <sup>x</sup>	<250	<1	<0.5	<1	<0.02	ND	<b>16</b>
MW-19	3/18/23	Installed Well								
	6/18/24	NA	NA	NA	NA	NA	NA	NA	ND	<2
GEO B-7R	12/23/21	Installed Replacement Well								
	6/18/24	NA	NA	NA	<1	<0.5	<1	<0.02	ND	1.2
GEO B-8	Decommissioned Q1 2021									
GEO B-9R	12/23/21	Installed Replacement Well								
	6/18/24	NA	NA	NA	<1	<0.5	<1	< 0.02	ND	<b>46</b>
<b>MTCA Groundwater Cleanup Levels</b>		<b>1,000<sup>A</sup></b>	<b>500<sup>A</sup></b>	<b>500<sup>A</sup></b>	<b>5<sup>A</sup></b>	<b>5<sup>A</sup></b>	<b>16<sup>B</sup></b>	<b>0.2<sup>A</sup></b>	--	--
<b>Puget Sound Basin Natural Background Arsenic Concentration</b>										<b>8</b>

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.

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

ND - No other volatile organic compounds detected.

NA - Not analyzed for the listed compound.

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

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.

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 12<sup>th</sup> 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	<b>0.27</b>	<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	<b>0.55</b>	<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	<b>0.73</b>	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	<b>13</b>	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	<b>0.47</b>	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	<b>9.49</b>	<b>10.8</b>	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	<b>0.21</b>	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/5/19	<100	72 <sup>x</sup>	340	<0.35	<1	<1	<3	<1	<1	<1	<b>0.29</b>	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	<b>16.5</b>	NA	<1	1.16	
	2/26/20	<100	100 <sup>x</sup>	<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 <sup>x</sup>	<250	<0.35	<1	<1	<3	<1	<1	<1	<b>0.21</b>	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	<b>12.5</b>	<b>13.3</b>	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	<b>47.4</b>	<b>50.8</b>	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	<b>39.2</b>	<b>41.0</b>	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	<b>24.4</b>	<b>21.5</b>	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	<b>14.4</b>	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	<b>23.7</b>	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 12<sup>th</sup> 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-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	<b>9.14</b>	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	<b>10.3</b>	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	<b>9.65</b>	<b>10.1</b>	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	<b>10.1</b>	<b>9.68</b>	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	<b>11.1</b>	<b>10.3</b>	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	<b>9.41</b>	<b>9.56</b>	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	<b>9.34</b>	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	<b>9.94</b>	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	<b>9.04</b>	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	<b>9.64</b>	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	<b>8.22</b>	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	<b>10</b>	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	<b>8.5</b>	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	<b>44.5</b>	<b>30.8</b>	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	<b>105</b>	<b>90.7</b>	NA	NA		

**TABLE 3**  
**2017-2024 Summary of Groundwater Sample Analytical Results**  
**104 - 124 12<sup>th</sup> 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-2 Continued	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	<b>20.6</b>	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 <sup>x</sup>	<250	<0.35	2.5	<1	7.9	<1	<1	<1	<b>0.34</b>	<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 <sup>x</sup>	<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 <sup>x</sup>	<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 <sup>x</sup>	<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 <sup>x</sup>	<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 <sup>x</sup>	<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 <sup>x</sup>	<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 <sup>x</sup>	<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	<b>10.2</b>	<b>9.15</b>	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	<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 <sup>x</sup>	<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 <sup>x</sup>	<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	<b>66.8</b>	<b>64.9</b>	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	<b>78.0</b>	<b>53.5</b>	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	<b>64.6</b>	<b>64.1</b>	NA	NA	
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	<b>18.9</b>	NA	NA		
Q3 2021	Well Decommissioned for Construction																												

**TABLE 3**  
**2017-2024 Summary of Groundwater Sample Analytical Results**  
**104 - 124 12<sup>th</sup> 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-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	ND	NA	NA	NA	NA	
	10/30/17	NA	NA	NA	<0.35	<1	<1	<3	1.4	<b>9.1</b>	10	<b>0.29</b>	<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	1.3	5.0	8.3	<b>0.25</b>	<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	2.1	<b>11</b>	8.4	<b>0.37</b>	<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	<b>6.5</b>	10	<0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	<1	NA	
	12/4/19	<100	52 <sup>x</sup>	<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	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	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	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	
	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	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	ND	<b>8.23</b>	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	ND	NA	4.49	NA	NA	
	9/30/21	NA	NA	NA	<0.35	<1	<1	<3	<1	1.1	4.3	<b>0.27</b>	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	NA	<b>10.8</b>	NA	NA	
	11/15/21	NA	NA	NA	<0.35	<1	<1	<3	<1	1.4	3.8	<b>0.41</b>	<1	<50	<5	<1	<20	<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	<b>0.61</b>	<1	<50	<5	<1	<20	<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	<b>0.60</b>	<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	<b>0.21</b>	<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	<b>14.4</b>	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	<b>15.3</b>	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	<b>8.5</b>	NA	NA	
PDBS 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	<b>17</b>	NA	NA		

**TABLE 3**  
**2017-2024 Summary of Groundwater Sample Analytical Results**  
**104 - 124 12<sup>th</sup> 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-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	3.4	<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	<1	ND	NA	NA	NA	NA	
	7/23/19	<100	<50	<250	<0.35	<1	<1	<3	<1	1.7	<b>17</b>	< 0.2	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA	
	12/4/19	<100	78 <sup>x</sup>	<250	<0.35	<1	<1	<3	1.3	<1	5.7	< 0.2	<1	<50	<1	<1	<10	<1	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	NA	<b>189</b>	<b>153</b>	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	<1	ND	<b>109</b>	<b>117</b>	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	<1	ND	<b>127</b>	<b>127</b>	NA	NA	
	3/30/21	Well Decommissioned for Construction																												
MW-8	8/30/17	<b>3,200</b>	<b>790<sup>x</sup></b>	<250	<b>11</b>	<1	71	419	<1	<1	<1	< 0.2	<1	<10	<1	12	<10	24	8.9	1.1	1.8	<b>180</b>	59	ND	NA	NA	NA	NA		
	6/28/18	<b>2,400</b>	160 <sup>x</sup>	<250	2.9	<1	85	384	<1	<1	<1	< 0.2	<1	<50	<1	14	<10	33	1.6	1.1	1.9	<b>150</b>	54	ND	NA	NA	NA	NA		
	7/23/19	740	64 <sup>x</sup>	<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		
	12/9/19	350	62 <sup>x</sup>	<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	<b>9.21</b>	NA	<1	<1		
	2/24/20	640	79 <sup>x</sup>	<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 <sup>x</sup>	<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		

**TABLE 3**  
**2017-2024 Summary of Groundwater Sample Analytical Results**  
**104 - 124 12<sup>th</sup> 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	12/1/20	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 <sup>X</sup>	<250	<0.35	<1	6.0	20.9	<1	<1	<1	< 0.2	<1	<50	<5	1.9	<20	2.6	<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 <sup>X</sup>	<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 <sup>X</sup>	<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 <sup>X</sup>	<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 <sup>X</sup>	<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 <sup>X</sup>	<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 <sup>X</sup>	290 <sup>X</sup>	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 <sup>X</sup>	<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 <sup>X</sup>	<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 <sup>X</sup>	<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  PDBS	11/3/17	<100	69 <sup>X</sup>	<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 <sup>X</sup>	<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	<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	<1	ND	9.3	NA	<1	<1
	2/26/20	<100	66 <sup>X</sup>	<250	<0.35	<1	<1	<3	<1	<1	<1	< 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	<1	<1	< 0.2	<1	<50	<1	<1	<10	<1	<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	<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	<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	<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	<1	ND	NA	6.58	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	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	<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	<1	ND	NA	9.62	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	<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	<1	ND	NA	7.69	NA	NA	

**TABLE 3**  
**2017-2024 Summary of Groundwater Sample Analytical Results**  
**104 - 124 12<sup>th</sup> 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 PDBS Continued PDBS PDBS PDBS 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		
	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	<b>12.0</b>	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	<b>9.63</b>	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	<b>20.0</b>	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	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	<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	<1	ND	NA	4.1	NA	NA	
MW-11	8/15/19	<100	400 <sup>x</sup>	370 <sup>x</sup>	<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 <sup>x</sup>	<250	<0.35	<1	<1	<3	<1	<1	2.9	<b>0.22</b>	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	<b>15</b>	NA	<1	<1		
	3/3/20	<100	130 <sup>x</sup>	<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 <sup>x</sup>	<250	<0.35	<1	<1	<3	<1	<1	3.1	<b>0.27</b>	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	<b>8.96</b>	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	<b>69.3</b>	<b>55.7</b>	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	<b>569</b>	<b>728</b>	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	<b>966</b>	<b>776</b>	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	<b>267</b>	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	<b>67.6</b>	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	<b>327*</b>	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	<b>210*</b>	NA	NA		
8/4/2022	Well Decommissioned for Construction																													
MW-12	8/19/19	<100	140 <sup>x</sup>	270 <sup>x</sup>	<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 <sup>x</sup>	<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 <sup>x</sup>	<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 <sup>x</sup>	<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	ND	<b>1,240</b>	<b>506</b>	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	ND	<b>1,380</b>	<b>1,260</b>	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	ND	<b>1,900</b>	<b>2,110</b>	NA	NA		

**TABLE 3**  
**2017-2024 Summary of Groundwater Sample Analytical Results**  
**104 - 124 12<sup>th</sup> 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	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	1,600	NA	NA		
Continued	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	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	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	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	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	ND	NA	201	NA	NA		
	PDBS	Q4 2023	Inaccessible Due to Construction																											
		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	ND	NA	560	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	ND	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	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	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	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	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	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	ND	1.91	2.06	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	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	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	ND	NA	2.11	NA	NA		
	Q3/22	Inaccessible due to Construction																												

**TABLE 3**  
**2017-2024 Summary of Groundwater Sample Analytical Results**  
**104 - 124 12<sup>th</sup> 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	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	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	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	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	ND	NA	<b>29.4</b>	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	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	ND	NA	<b>9.3</b>	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	ND	NA	<b>15</b>	NA	NA
MW-14	8/15/19	<100	130 <sup>x</sup>	<250	1.8	<1	<1	<3	<1	<1	2.3	<b>0.65</b>	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	12/4/19	<100	110 <sup>x</sup>	<250	1.3	<1	<1	<3	<1	<1	1.8	<b>0.25</b>	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	2/24/20	<100	64 <sup>x</sup>	<250	1.8	<1	<1	<3	<1	<1	2.1	<b>0.66</b>	<1	<50	<1	<1	<10	<1	<1	<1	<1	<1	<1	ND	NA	NA	NA	NA
	5/19/20	<100	110 <sup>x</sup>	<250	0.89	<1	<1	<3	<1	<1	1.3	<b>0.28</b>	<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	<b>60.4</b>	<b>45.4</b>	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	<b>0.23</b>	<1	<50	<5	<1	<20	<1	<1	<1	<1	<1	<1	ND	<b>14.6</b>	<b>11.1</b>	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	<b>11.9</b>	<b>11.7</b>	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	<b>11.6</b>	<b>11.4</b>	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	<b>12.7</b>	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	<b>9.91</b>	NA	NA
	Q4 2021	Well Damaged - Decommissioned For Construction- Replaced with Well MW-15R on 12/23/2021																										
MW-15R  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	<b>13.1</b>	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	<b>10.6</b>	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	<b>58.2</b>	NA	NA

**TABLE 3**  
**2017-2024 Summary of Groundwater Sample Analytical Results**  
**104 - 124 12<sup>th</sup> 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-15R 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	32.7	NA	NA	
Continued 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	23.7	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	18.3	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	29.1	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	47.0	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	26	NA	NA	
PDBS	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	
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	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	
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	327	NA	NA	
PDBS	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	
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	7.77	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	2.9	NA	NA	
PDBS	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	
MW-18 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	
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	14.1	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	29.6	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	40.3	NA	NA	
PDBS	3/26/24	NA	58 <sup>x</sup>	<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	
PDBS	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	16	NA	NA	

**TABLE 3**  
**2017-2024 Summary of Groundwater Sample Analytical Results**  
**104 - 124 12<sup>th</sup> 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-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	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	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	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	NA	<2	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	
	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	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	
	PDBS 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	
	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	9.93	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	10.9	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	5.94	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	2.47	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	1.87	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	<1	NA	NA	
	PDBS 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	

**TABLE 3**  
**2017-2024 Summary of Groundwater Sample Analytical Results**  
**104 - 124 12<sup>th</sup> 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)	
GEO B-8	12/6/18	<100	210 <sup>X</sup>	<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 <sup>X</sup>	<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 <sup>X</sup>	360 <sup>X</sup>	<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 <sup>X</sup>	<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 <sup>X</sup>	350 <sup>X</sup>	<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 <sup>X</sup>	<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 <sup>X</sup>	320 <sup>X</sup>	<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																											
GEO B-9	12/6/18	<100	76 <sup>X</sup>	<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 <sup>X</sup>	<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 <sup>X</sup>	<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 <sup>X</sup>	<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	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 PDBS 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	

**TABLE 3**  
**2017-2024 Summary of Groundwater Sample Analytical Results**  
**104 - 124 12<sup>th</sup> 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 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	<b>34.3</b>	NA	NA
B-9R 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	<b>56.0</b>	NA	NA
Continued 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	<b>41.1</b>	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	<b>22</b>	NA	NA
PDBS	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	<b>46</b>	NA	NA
<b>MTCA Groundwater Cleanup Levels</b>		<b>800<sup>A</sup></b>	<b>500<sup>A</sup></b>	<b>500<sup>A</sup></b>	<b>5<sup>A</sup></b>	<b>1,000<sup>A</sup></b>	<b>700<sup>A</sup></b>	<b>1,000<sup>A</sup></b>	<b>5<sup>A</sup></b>	<b>5<sup>A</sup></b>	<b>16<sup>B</sup></b>	<b>0.2<sup>A</sup></b>	<b>80<sup>A</sup></b>	<b>7,200<sup>B</sup></b>	<b>480<sup>B</sup></b>	<b>800<sup>B</sup></b>	<b>4,800<sup>B</sup></b>	<b>800<sup>B</sup></b>	<b>160<sup>B</sup></b>	<b>NV</b>	<b>800<sup>B</sup></b>	<b>80<sup>B</sup></b>	<b>80<sup>B</sup></b>	--	--	--	<b>15<sup>A</sup></b>	<b>50<sup>A</sup></b>
<b>Puget Sound Basin Natural Background Arsenic Concentration</b>																									<b>8<sup>NB</sup></b>	<b>8<sup>NB</sup></b>		

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).

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

<sup>PDBS</sup> 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.

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**





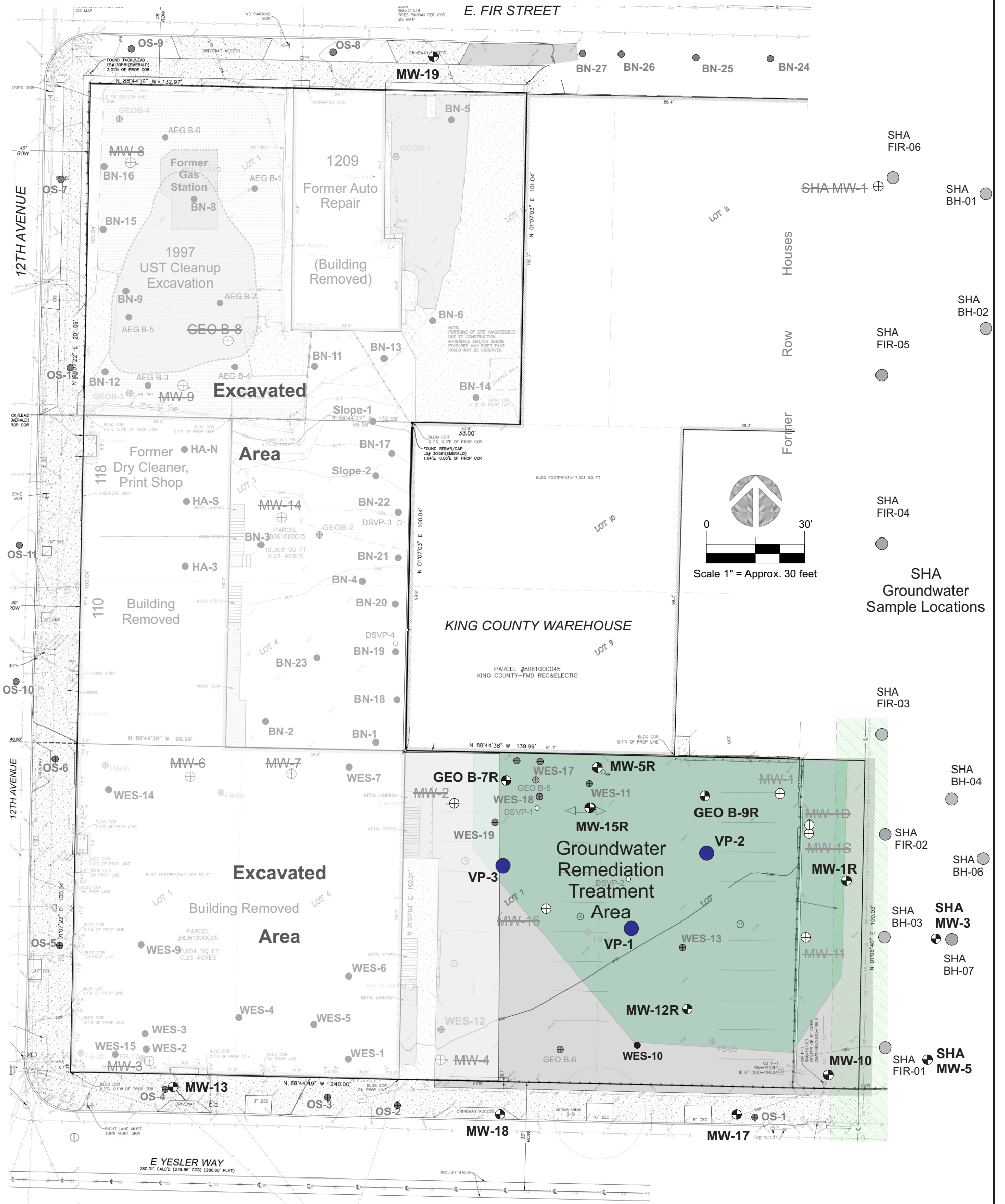
-  Approximate Location of Monitoring Well
-  Approximate Location of Soil Borings (2016 -2020)
-  Approximate Location and I.D. of Decommissioned Monitoring Well
-  Approximate Location of Sub-Slab Vapor Monitoring Point Under New Construction

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 5/15/2024

Figure 3 - 2nd Quarter 2024 Groundwater Sampling Analytical Results

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

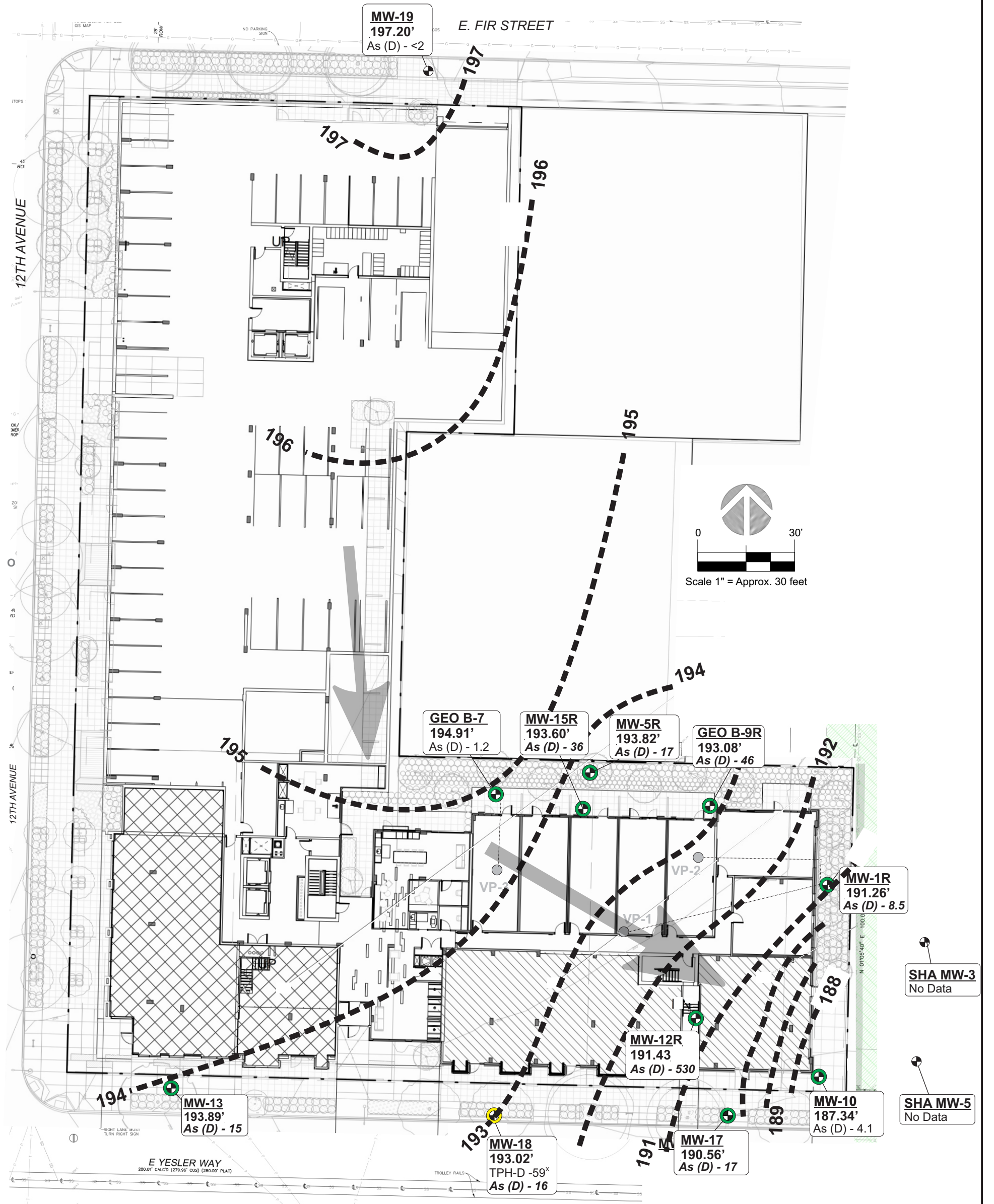
Project No. WES - 1591A  
 Date July 6, 2024  
 File ID. 1591Q224F3

**WHITMAN**  
 Environmental Sciences

● Monitoring Well with No Detected CVOCs or Petroleum Compounds in Groundwater in 2nd Quarter 2024 Sampling

● Monitoring Well with Detected CVOCs or Petroleum Compounds in Groundwater in 2nd Quarter 2024 Sampling

● Monitoring Well with CVOCs or Petroleum Compounds above MTCA Method A in Groundwater in 2nd Quarter 2024 Sampling (None)



***Appendix A***

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***Laboratory Analytical Reports  
Friedman & Bruya, Inc.***

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

June 28, 2024

Dan Whitman, Project Manager  
Whitman Environmental Sciences  
6812 16<sup>th</sup> Ave NE  
Seattle, WA 98115

Dear Mr Whitman:

Included are the results from the testing of material submitted on June 18, 2024 from the 12th and Yesler WES-1591, F&BI 406254 project. There are 28 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  
WES0628R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 18, 2024 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences 12th and Yesler WES-1591, F&BI 406254 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Whitman Environmental Sciences</u>
406254 -01	MW-1R-GW
406254 -02	MW-5R-GW
406254 -03	MW-10-GW
406254 -04	MW-15R-GW
406254 -05	MW-17-GW
406254 -06	MW-18-GW
406254 -07	MW-19-GW
406254 -08	Geo-B-7R-GW
406254 -09	Geo-B-9R-GW

The 8260D calibration standard exceeded the acceptance criteria for several compounds. The compounds were not detected, therefore this did not represent an out of control condition, and the results are not considered estimates.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/24

Date Received: 06/18/24

Project: 12th and Yesler WES-1591, F&BI 406254

Date Extracted: 06/20/24

Date Analyzed: 06/20/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE  
USING METHOD NWTPH-G<sub>x</sub>**  
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
MW-1R-GW 406254-01	<100	105
MW-10-GW 406254-03	<100	94
MW-17-GW 406254-05	<100	100
MW-18-GW 406254-06	<100	96
Method Blank 04-1357 MB	<100	95

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/24

Date Received: 06/18/24

Project: 12th and Yesler WES-1591, F&BI 406254

Date Extracted: 06/19/24

Date Analyzed: 06/19/24

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-D<sub>x</sub>**  
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> (% Recovery) (Limit 50-150)
MW-1R-GW 406254-01	<50	<250	95
MW-10-GW 406254-03	<50	<250	105
MW-17-GW 406254-05	<50	<250	98
MW-18-GW 406254-06	59 x	<250	101
Method Blank 04-1425 MB	<50	<250	84

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:	06/18/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/20/24	Lab ID:	406254-01
Date Analyzed:	06/20/24	Data File:	062020.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	91	71	132
Toluene-d8	93	68	139
4-Bromofluorobenzene	99	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	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50 k	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 k	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-5R-GW	Client:	Whitman Environmental Sciences
Date Received:	06/18/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/20/24	Lab ID:	406254-02
Date Analyzed:	06/20/24	Data File:	062021.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	89	71	132
Toluene-d8	95	68	139
4-Bromofluorobenzene	103	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	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50 k	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 k	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-10-GW	Client:	Whitman Environmental Sciences
Date Received:	06/18/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/20/24	Lab ID:	406254-03
Date Analyzed:	06/20/24	Data File:	062022.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	91	71	132
Toluene-d8	93	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	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50 k	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 k	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-15R-GW	Client:	Whitman Environmental Sciences
Date Received:	06/18/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/20/24	Lab ID:	406254-04
Date Analyzed:	06/20/24	Data File:	062023.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	71	132
Toluene-d8	94	68	139
4-Bromofluorobenzene	99	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	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50 k	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 k	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-17-GW	Client:	Whitman Environmental Sciences
Date Received:	06/18/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/20/24	Lab ID:	406254-05
Date Analyzed:	06/20/24	Data File:	062032.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	71	132
Toluene-d8	94	68	139
4-Bromofluorobenzene	100	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	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50 k	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 k	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: 06/18/24	Project: 12th and Yesler WES-1591
Date Extracted: 06/20/24	Lab ID: 406254-06
Date Analyzed: 06/20/24	Data File: 062033.D
Matrix: Water	Instrument: GCMS13
Units: ug/L (ppb)	Operator: IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	89	71	132
Toluene-d8	94	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	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50 k	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 k	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:	Geo-B-7R-GW	Client:	Whitman Environmental Sciences
Date Received:	06/18/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/20/24	Lab ID:	406254-08
Date Analyzed:	06/20/24	Data File:	062034.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	87	71	132
Toluene-d8	91	68	139
4-Bromofluorobenzene	96	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	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50 k	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 k	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: Geo-B-9R-GW	Client: Whitman Environmental Sciences
Date Received: 06/18/24	Project: 12th and Yesler WES-1591
Date Extracted: 06/20/24	Lab ID: 406254-09
Date Analyzed: 06/20/24	Data File: 062035.D
Matrix: Water	Instrument: GCMS13
Units: ug/L (ppb)	Operator: IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	71	132
Toluene-d8	94	68	139
4-Bromofluorobenzene	100	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	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50 k	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 k	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 and Yesler WES-1591
Date Extracted:	06/20/24	Lab ID:	04-1320 mb
Date Analyzed:	06/20/24	Data File:	062019.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	71	132
Toluene-d8	95	68	139
4-Bromofluorobenzene	103	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	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50 k	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 k	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-1R-GW	Client:	Whitman Environmental Sciences
Date Received:	06/18/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/24/24	Lab ID:	406254-01 x5
Date Analyzed:	06/27/24	Data File:	406254-01 x5.270
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	8.5
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-5R-GW	Client:	Whitman Environmental Sciences
Date Received:	06/18/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/24/24	Lab ID:	406254-02 x10
Date Analyzed:	06/27/24	Data File:	406254-02 x10.271
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	17
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-10-GW	Client:	Whitman Environmental Sciences
Date Received:	06/18/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/24/24	Lab ID:	406254-03
Date Analyzed:	06/27/24	Data File:	406254-03.272
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	4.1
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-15R-GW	Client:	Whitman Environmental Sciences
Date Received:	06/18/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/24/24	Lab ID:	406254-04 x10
Date Analyzed:	06/27/24	Data File:	406254-04 x10.273
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	36
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-17-GW	Client:	Whitman Environmental Sciences
Date Received:	06/18/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/24/24	Lab ID:	406254-05 x10
Date Analyzed:	06/27/24	Data File:	406254-05 x10.283
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	17
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-18-GW	Client:	Whitman Environmental Sciences
Date Received:	06/18/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/24/24	Lab ID:	406254-06 x10
Date Analyzed:	06/27/24	Data File:	406254-06 x10.284
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	16
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-19-GW	Client:	Whitman Environmental Sciences
Date Received:	06/18/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/24/24	Lab ID:	406254-07 x2
Date Analyzed:	06/27/24	Data File:	406254-07 x2.285
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	<2
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Geo-B-7R-GW	Client:	Whitman Environmental Sciences
Date Received:	06/18/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/24/24	Lab ID:	406254-08
Date Analyzed:	06/27/24	Data File:	406254-08.286
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	1.2
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Geo-B-9R-GW	Client:	Whitman Environmental Sciences
Date Received:	06/18/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/24/24	Lab ID:	406254-09 x10
Date Analyzed:	06/27/24	Data File:	406254-09 x10.287
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	46
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Whitman Environmental Sciences
Date Received:	NA	Project:	12th and Yesler WES-1591
Date Extracted:	06/24/24	Lab ID:	I4-513 mb
Date Analyzed:	06/26/24	Data File:	I4-513 mb.094
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: 06/28/24

Date Received: 06/18/24

Project: 12th and Yesler WES-1591, F&BI 406254

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR TPH AS GASOLINE  
USING METHOD NWTPH-G<sub>x</sub>**

Laboratory Code: 406263-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	94	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/24

Date Received: 06/18/24

Project: 12th and Yesler WES-1591, F&BI 406254

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-D<sub>x</sub>**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	80	84	65-151	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/24

Date Received: 06/18/24

Project: 12th and Yesler WES-1591, F&BI 406254

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

Laboratory Code: 406214-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Dichlorodifluoromethane	ug/L (ppb)	10	<1	103	27-164
Chloromethane	ug/L (ppb)	10	<10	139	34-141
Vinyl chloride	ug/L (ppb)	10	<0.02	114	16-176
Bromomethane	ug/L (ppb)	10	<5	117	10-193
Chloroethane	ug/L (ppb)	10	<1	119	50-150
Trichlorofluoromethane	ug/L (ppb)	10	<1	105	50-150
Acetone	ug/L (ppb)	50	<50	63	15-179
1,1-Dichloroethene	ug/L (ppb)	10	<1	102	50-150
Hexane	ug/L (ppb)	10	<5	105	49-161
Methylene chloride	ug/L (ppb)	10	<5	95	40-143
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	107	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	110	50-150
1,1-Dichloroethane	ug/L (ppb)	10	<1	105	50-150
2,2-Dichloropropane	ug/L (ppb)	10	<1	107	62-152
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	102	50-150
Chloroform	ug/L (ppb)	10	<1	99	50-150
2-Butanone (MEK)	ug/L (ppb)	50	<20	83	34-168
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<0.2	113	50-150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	107	50-150
1,1-Dichloropropene	ug/L (ppb)	10	<1	102	50-150
Carbon tetrachloride	ug/L (ppb)	10	<0.5	100	50-150
Benzene	ug/L (ppb)	10	<0.35	113	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	96	43-133
1,2-Dichloropropane	ug/L (ppb)	10	<1	101	50-150
Bromodichloromethane	ug/L (ppb)	10	<0.5	98	50-150
Dibromomethane	ug/L (ppb)	10	<1	98	50-150
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	103	50-150
cis-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	94	48-145
Toluene	ug/L (ppb)	10	<1	105	50-150
trans-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	88	37-152
1,1,2-Trichloroethane	ug/L (ppb)	10	<0.5	100	50-150
2-Hexanone	ug/L (ppb)	50	<10	83	50-150
1,3-Dichloropropene	ug/L (ppb)	10	<1	99	50-150
Tetrachloroethene	ug/L (ppb)	10	<1	103	50-150
Dibromochloromethane	ug/L (ppb)	10	<0.5	92	33-164
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<0.01	104	50-150
Chlorobenzene	ug/L (ppb)	10	<1	99	50-150
Ethylbenzene	ug/L (ppb)	10	<1	108	50-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	88	50-150
m,p-Xylene	ug/L (ppb)	20	<2	107	50-150
o-Xylene	ug/L (ppb)	10	<1	103	50-150
Styrene	ug/L (ppb)	10	<1	95	50-150
Isopropylbenzene	ug/L (ppb)	10	<1	96	50-150
Bromoform	ug/L (ppb)	10	<5	92	23-161
n-Propylbenzene	ug/L (ppb)	10	<1	102	50-150
Bromobenzene	ug/L (ppb)	10	<1	101	50-150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	97	50-150
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	<0.2	108	57-162
1,2,3-Trichloropropane	ug/L (ppb)	10	<1	106	33-151
2-Chlorotoluene	ug/L (ppb)	10	<1	100	50-150
4-Chlorotoluene	ug/L (ppb)	10	<1	99	50-150
tert-Butylbenzene	ug/L (ppb)	10	<1	96	50-150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	96	50-150
sec-Butylbenzene	ug/L (ppb)	10	<1	96	46-139
p-Isopropyltoluene	ug/L (ppb)	10	<1	97	46-140
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	99	50-150
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	99	50-150
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	100	50-150
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	<10	89	50-150
1,2,4-Trichlorobenzene	ug/L (ppb)	10	<1	95	50-150
Hexachlorobutadiene	ug/L (ppb)	10	<0.5	93	42-150
Naphthalene	ug/L (ppb)	10	<1	97	50-150
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	101	44-155

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/24

Date Received: 06/18/24

Project: 12th and Yesler WES-1591, F&BI 406254

**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	105	112	49-149	6
Chloromethane	ug/L (ppb)	10	94	98	34-143	4
Vinyl chloride	ug/L (ppb)	10	97	104	43-149	7
Bromomethane	ug/L (ppb)	10	106	111	28-182	5
Chloroethane	ug/L (ppb)	10	102	110	59-157	8
Trichlorofluoromethane	ug/L (ppb)	10	94	101	59-141	7
Acetone	ug/L (ppb)	50	50	55	20-139	10
1,1-Dichloroethene	ug/L (ppb)	10	90	96	67-138	6
Hexane	ug/L (ppb)	10	95	104	50-161	9
Methylene chloride	ug/L (ppb)	10	89	94	29-192	5
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	95	102	70-130	7
trans-1,2-Dichloroethene	ug/L (ppb)	10	99	105	70-130	6
1,1-Dichloroethane	ug/L (ppb)	10	94	98	70-130	4
2,2-Dichloropropane	ug/L (ppb)	10	116	128	71-148	10
cis-1,2-Dichloroethene	ug/L (ppb)	10	90	96	70-130	6
Chloroform	ug/L (ppb)	10	89	95	70-130	7
2-Butanone (MEK)	ug/L (ppb)	50	75	81	50-157	8
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	103	110	70-130	7
1,1,1-Trichloroethane	ug/L (ppb)	10	97	103	70-130	6
1,1-Dichloropropene	ug/L (ppb)	10	91	97	70-130	6
Carbon tetrachloride	ug/L (ppb)	10	91	99	70-130	8
Benzene	ug/L (ppb)	10	100	107	70-130	7
Trichloroethene	ug/L (ppb)	10	87	94	70-130	8
1,2-Dichloropropane	ug/L (ppb)	10	92	97	70-130	5
Bromodichloromethane	ug/L (ppb)	10	90	96	70-130	6
Dibromomethane	ug/L (ppb)	10	84	92	70-130	9
4-Methyl-2-pentanone	ug/L (ppb)	50	86	97	70-130	12
cis-1,3-Dichloropropene	ug/L (ppb)	10	90	95	70-130	5
Toluene	ug/L (ppb)	10	104	101	70-130	3
trans-1,3-Dichloropropene	ug/L (ppb)	10	97	93	70-130	4
1,1,2-Trichloroethane	ug/L (ppb)	10	100	97	70-130	3
2-Hexanone	ug/L (ppb)	50	82	79	66-132	4
1,3-Dichloropropane	ug/L (ppb)	10	96	96	70-130	0
Tetrachloroethene	ug/L (ppb)	10	106	103	70-130	3
Dibromochloromethane	ug/L (ppb)	10	93	89	63-142	4
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	102	101	70-130	1
Chlorobenzene	ug/L (ppb)	10	96	95	70-130	1
Ethylbenzene	ug/L (ppb)	10	105	102	70-130	3
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	89	85	70-130	5
m,p-Xylene	ug/L (ppb)	20	104	101	70-130	3
o-Xylene	ug/L (ppb)	10	99	96	70-130	3
Styrene	ug/L (ppb)	10	89	86	70-130	3
Isopropylbenzene	ug/L (ppb)	10	92	89	70-130	3
Bromoform	ug/L (ppb)	10	94	92	50-157	2
n-Propylbenzene	ug/L (ppb)	10	96	96	70-130	0
Bromobenzene	ug/L (ppb)	10	89	90	70-130	1
1,3,5-Trimethylbenzene	ug/L (ppb)	10	93	91	52-150	2
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	103	104	75-140	1
1,2,3-Trichloropropane	ug/L (ppb)	10	95	95	40-153	0
2-Chlorotoluene	ug/L (ppb)	10	93	94	70-130	1
4-Chlorotoluene	ug/L (ppb)	10	95	95	70-130	0
tert-Butylbenzene	ug/L (ppb)	10	93	91	70-130	2
1,2,4-Trimethylbenzene	ug/L (ppb)	10	90	89	70-130	1
sec-Butylbenzene	ug/L (ppb)	10	92	92	70-130	0
p-Isopropyltoluene	ug/L (ppb)	10	93	93	70-130	0
1,3-Dichlorobenzene	ug/L (ppb)	10	97	96	70-130	1
1,4-Dichlorobenzene	ug/L (ppb)	10	97	96	70-130	1
1,2-Dichlorobenzene	ug/L (ppb)	10	96	95	70-130	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	78	79	70-130	1
1,2,4-Trichlorobenzene	ug/L (ppb)	10	90	91	70-130	1
Hexachlorobutadiene	ug/L (ppb)	10	96	97	70-130	1
Naphthalene	ug/L (ppb)	10	80	82	61-133	2
1,2,3-Trichlorobenzene	ug/L (ppb)	10	82	86	69-143	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/28/24

Date Received: 06/18/24

Project: 12th and Yesler WES-1591, F&BI 406254

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

Laboratory Code: 406254-01 x10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	<10	98	93	75-125	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	96	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 below the standard reporting limit. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc - The presence of the analyte is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

406254

SAMPLE CHAIN OF CUSTODY

06/18/24 I 2/L 3 / VW3

Report to Tom Chapman

Company Chapman Env. Services

Address 812 16th Ave NE

City, State, ZIP Seattle, WA 98115

Phone \_\_\_\_\_ Email tom@chape.com

SAMPLERS (signature) \_\_\_\_\_

PROJECT NAME FRIT Yester

REMARKS \_\_\_\_\_

INVOICE TO \_\_\_\_\_

Project specific RIs? - Yes / No \_\_\_\_\_

Page # \_\_\_\_\_ of \_\_\_\_\_

TURNAROUND TIME

Standard turnaround  
 RUSH  
 Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL

Archive samples  
 Other \_\_\_\_\_  
 Default: Dispose after 30 days

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		
<u>MU-1E-GC</u>	<u>01A-E</u>	<u>6-18-24</u>	<u>10:55</u>	<u>water</u>	<u>5</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>MU-5R-GC</u>	<u>02A-D</u>				<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>MU-10-GC</u>	<u>03A-E</u>		<u>11:35</u>		<u>5</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>MU-15R-GC</u>	<u>04A-D</u>		<u>2:25</u>		<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>MU-17-GC</u>	<u>05A-E</u>		<u>11:12</u>		<u>5</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>MU-18-GC</u>	<u>06</u>		<u>11:55</u>		<u>5</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>MU-19-GC</u>	<u>07</u>		<u>10:45</u>		<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>GE0-8-R-GC</u>	<u>08A-D</u>		<u>2:15</u>		<u>4</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>GE0-8-R-GC</u>	<u>09</u>		<u>3:05</u>		<u>4</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: _____	_____	_____	_____	_____	_____	<u>6/18/24</u>	<u>6:00</u>
Received by: _____	_____	_____	_____	_____	_____	<u>6/18/24</u>	<u>6:00</u>
Relinquished by: _____	_____	_____	_____	_____	_____		
Received by: _____	_____	_____	_____	_____	_____		

Friedman & Bruya, Inc.  
 Ph. (206) 285-8282

# SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 406254 CLIENT WES INITIALS/DATE: AP 06/19/24

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

Cooler/Sample temperature \_\_\_\_\_ °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/Date: AP 06/19/24  
\*or other representative documents, letters, and/or shipping memos

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

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

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

Were appropriate sample containers used?  YES  NO  Unknown

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

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

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

Sample ID's	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	_____	<input type="checkbox"/> Not on COC/label
Date Sampled	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	_____	<input type="checkbox"/> Not on COC/label
Time Sampled	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	_____	<input type="checkbox"/> Not on COC/label
# of Containers	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	_____	
Relinquished	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	_____	
Requested analysis	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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

July 1, 2024

Dan Whitman, Project Manager  
Whitman Environmental Sciences  
6812 16<sup>th</sup> Ave NE  
Seattle, WA 98115

Dear Mr Whitman:

Included are the results from the testing of material submitted on June 20, 2024 from the 12th and Yesler WES-1591, F&BI 406294 project. There are 11 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
WES0701R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 20, 2024 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences 12th and Yesler WES-1591, F&BI 406294 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Whitman Environmental Sciences</u>
406294 -01	MW-12R-GW
406294 -02	MW-13-GW

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-12R-GW	Client:	Whitman Environmental Sciences
Date Received:	06/20/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/21/24	Lab ID:	406294-01
Date Analyzed:	06/21/24	Data File:	062111.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	104	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-13-GW	Client:	Whitman Environmental Sciences
Date Received:	06/20/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/21/24	Lab ID:	406294-02
Date Analyzed:	06/21/24	Data File:	062112.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	78	126
Toluene-d8	108	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 and Yesler WES-1591
Date Extracted:	06/21/24	Lab ID:	04-1324 mb
Date Analyzed:	06/21/24	Data File:	062109.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	102	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 Dissolved Metals By EPA Method 6020B

Client ID:	MW-12R-GW	Client:	Whitman Environmental Sciences
Date Received:	06/20/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/24/24	Lab ID:	406294-01 x100
Date Analyzed:	06/28/24	Data File:	406294-01 x100.061
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	Client:	Whitman Environmental Sciences
Date Received:	06/20/24	Project:	12th and Yesler WES-1591
Date Extracted:	06/24/24	Lab ID:	406294-02
Date Analyzed:	06/27/24	Data File:	406294-02.317
Matrix:	Water	Instrument:	ICPMS3
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	15
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Whitman Environmental Sciences
Date Received:	Not Applicable	Project:	12th and Yesler WES-1591
Date Extracted:	06/24/24	Lab ID:	I4-513 mb
Date Analyzed:	06/26/24	Data File:	I4-513 mb.094
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: 07/01/24

Date Received: 06/20/24

Project: 12th and Yesler WES-1591, F&BI 406294

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

Laboratory Code: 406263-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance Criteria
				Recovery MS	
Dichlorodifluoromethane	ug/L (ppb)	10	<1	106	30-221
Chloromethane	ug/L (ppb)	10	<10	118	50-150
Vinyl chloride	ug/L (ppb)	10	<0.02	110	50-150
Bromomethane	ug/L (ppb)	10	<5	95	50-150
Chloroethane	ug/L (ppb)	10	<1	104	50-150
Trichlorofluoromethane	ug/L (ppb)	10	<1	92	50-150
Acetone	ug/L (ppb)	50	<50	39	18-161
1,1-Dichloroethene	ug/L (ppb)	10	<1	98	50-150
Hexane	ug/L (ppb)	10	<5	91	50-150
Methylene chloride	ug/L (ppb)	10	<5	92	50-150
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	99	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	101	50-150
1,1-Dichloroethane	ug/L (ppb)	10	<1	99	50-150
2,2-Dichloropropane	ug/L (ppb)	10	<1	98	43-171
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	98	10-211
Chloroform	ug/L (ppb)	10	<1	98	50-150
2-Butanone (MEK)	ug/L (ppb)	50	<20	56	10-192
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<0.2	103	50-150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	98	50-150
1,1-Dichloropropene	ug/L (ppb)	10	<1	97	50-150
Carbon tetrachloride	ug/L (ppb)	10	<0.5	98	50-150
Benzene	ug/L (ppb)	10	<0.35	102	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	99	35-149
1,2-Dichloropropane	ug/L (ppb)	10	<1	94	50-150
Bromodichloromethane	ug/L (ppb)	10	<0.5	93	50-150
Dibromomethane	ug/L (ppb)	10	<1	96	50-150
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	92	50-150
cis-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	96	50-150
Toluene	ug/L (ppb)	10	<1	103	50-150
trans-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	93	50-150
1,1,2-Trichloroethane	ug/L (ppb)	10	<0.5	95	50-150
2-Hexanone	ug/L (ppb)	50	<10	76	50-150
1,3-Dichloropropane	ug/L (ppb)	10	<1	93	50-150
Tetrachloroethene	ug/L (ppb)	10	<1	104	50-150
Dibromochloromethane	ug/L (ppb)	10	<0.5	92	50-150
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<0.01	105	50-150
Chlorobenzene	ug/L (ppb)	10	<1	97	50-150
Ethylbenzene	ug/L (ppb)	10	<1	106	50-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	93	50-150
m,p-Xylene	ug/L (ppb)	20	<2	104	50-150
o-Xylene	ug/L (ppb)	10	<1	104	50-150
Styrene	ug/L (ppb)	10	<1	95	50-150
Isopropylbenzene	ug/L (ppb)	10	<1	93	50-150
Bromoform	ug/L (ppb)	10	<5	100	50-150
n-Propylbenzene	ug/L (ppb)	10	<1	100	50-150
Bromobenzene	ug/L (ppb)	10	<1	96	50-150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	99	50-150
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	<0.2	100	50-150
1,2,3-Trichloropropane	ug/L (ppb)	10	<1	102	50-150
2-Chlorotoluene	ug/L (ppb)	10	<1	100	50-150
4-Chlorotoluene	ug/L (ppb)	10	<1	98	50-150
tert-Butylbenzene	ug/L (ppb)	10	<1	100	50-150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	100	50-150
sec-Butylbenzene	ug/L (ppb)	10	<1	99	50-150
p-Isopropyltoluene	ug/L (ppb)	10	<1	97	50-150
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	99	50-150
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	101	50-150
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	98	50-150
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	<10	101	50-150
1,2,4-Trichlorobenzene	ug/L (ppb)	10	<1	98	50-150
Hexachlorobutadiene	ug/L (ppb)	10	<0.5	99	50-150
Naphthalene	ug/L (ppb)	10	<1	97	50-150
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	99	50-150

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/24

Date Received: 06/20/24

Project: 12th and Yesler WES-1591, F&BI 406294

**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 LCS/D	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	99	94	46-206	5
Chloromethane	ug/L (ppb)	10	89	85	59-132	5
Vinyl chloride	ug/L (ppb)	10	103	102	64-142	1
Bromomethane	ug/L (ppb)	10	90	92	50-197	2
Chloroethane	ug/L (ppb)	10	98	96	70-130	2
Trichlorofluoromethane	ug/L (ppb)	10	89	85	51-159	5
Acetone	ug/L (ppb)	50	42	40	10-140	5
1,1-Dichloroethene	ug/L (ppb)	10	93	90	64-140	3
Hexane	ug/L (ppb)	10	93	93	54-136	0
Methylene chloride	ug/L (ppb)	10	93	88	43-134	6
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	96	93	70-130	3
trans-1,2-Dichloroethene	ug/L (ppb)	10	94	91	70-130	3
1,1-Dichloroethane	ug/L (ppb)	10	97	92	70-130	5
2,2-Dichloropropane	ug/L (ppb)	10	94	95	64-148	1
cis-1,2-Dichloroethene	ug/L (ppb)	10	94	89	70-130	5
Chloroform	ug/L (ppb)	10	93	91	70-130	2
2-Butanone (MEK)	ug/L (ppb)	50	66	61	47-112	8
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	103	103	70-130	0
1,1,1-Trichloroethane	ug/L (ppb)	10	94	93	70-130	1
1,1-Dichloropropene	ug/L (ppb)	10	94	94	70-130	0
Carbon tetrachloride	ug/L (ppb)	10	94	91	70-130	3
Benzene	ug/L (ppb)	10	102	102	70-130	0
Trichloroethene	ug/L (ppb)	10	99	99	70-130	0
1,2-Dichloropropane	ug/L (ppb)	10	96	98	70-130	2
Bromodichloromethane	ug/L (ppb)	10	97	97	70-130	0
Dibromomethane	ug/L (ppb)	10	100	96	70-130	4
4-Methyl-2-pentanone	ug/L (ppb)	50	95	99	68-130	4
cis-1,3-Dichloropropene	ug/L (ppb)	10	104	101	69-131	3
Toluene	ug/L (ppb)	10	104	104	70-130	0
trans-1,3-Dichloropropene	ug/L (ppb)	10	100	101	70-130	1
1,1,2-Trichloroethane	ug/L (ppb)	10	97	98	70-130	1
2-Hexanone	ug/L (ppb)	50	77	77	45-138	0
1,3-Dichloropropane	ug/L (ppb)	10	100	101	70-130	1
Tetrachloroethene	ug/L (ppb)	10	103	102	70-130	1
Dibromochloromethane	ug/L (ppb)	10	91	93	60-148	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	107	108	70-130	1
Chlorobenzene	ug/L (ppb)	10	99	98	70-130	1
Ethylbenzene	ug/L (ppb)	10	104	104	70-130	0
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	88	87	70-130	1
m,p-Xylene	ug/L (ppb)	20	102	102	70-130	0
o-Xylene	ug/L (ppb)	10	101	100	70-130	1
Styrene	ug/L (ppb)	10	93	93	70-130	0
Isopropylbenzene	ug/L (ppb)	10	91	90	70-130	1
Bromoform	ug/L (ppb)	10	97	97	69-138	0
n-Propylbenzene	ug/L (ppb)	10	102	99	70-130	3
Bromobenzene	ug/L (ppb)	10	105	98	70-130	7
1,3,5-Trimethylbenzene	ug/L (ppb)	10	104	100	70-130	4
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	109	98	70-130	11
1,2,3-Trichloropropane	ug/L (ppb)	10	107	102	70-130	5
2-Chlorotoluene	ug/L (ppb)	10	104	101	70-130	3
4-Chlorotoluene	ug/L (ppb)	10	104	98	70-130	6
tert-Butylbenzene	ug/L (ppb)	10	105	100	70-130	5
1,2,4-Trimethylbenzene	ug/L (ppb)	10	101	97	70-130	4
sec-Butylbenzene	ug/L (ppb)	10	103	99	70-130	4
p-Isopropyltoluene	ug/L (ppb)	10	102	96	70-130	6
1,3-Dichlorobenzene	ug/L (ppb)	10	101	98	70-130	3
1,4-Dichlorobenzene	ug/L (ppb)	10	103	98	70-130	5
1,2-Dichlorobenzene	ug/L (ppb)	10	101	96	70-130	5
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	100	93	70-130	7
1,2,4-Trichlorobenzene	ug/L (ppb)	10	99	91	70-130	8
Hexachlorobutadiene	ug/L (ppb)	10	98	95	70-130	3
Naphthalene	ug/L (ppb)	10	100	92	70-130	8
1,2,3-Trichlorobenzene	ug/L (ppb)	10	101	95	70-130	6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/24

Date Received: 06/20/24

Project: 12th and Yesler WES-1591, F&BI 406294

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

Laboratory Code: 406254-01 x10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	<10	98	93	75-125	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	96	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 below the standard reporting limit. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc - The presence of the analyte is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

466294

SAMPLE CHAIN OF CUSTODY

06/20/94

11/12

Page # of

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

SAMPLERS (signature)

PROJECT NAME

REMARKS

INVOICE TO

PO #

INVOICE TO

Project specific RLS? - Yes / No

ANALYSES REQUESTED

ANALYSES REQUESTED

Report To

Company

Address

City, State, ZIP

Phone

Email

Lab ID

Date Sampled

Time Sampled

Sample Type

# of Jars

Notes

NWTPH-Dx

NWTPH-Gx

BTEX EPA 8021

NWTPH-HCID

VOCs EPA 8260

PAHs EPA 8270

PCBs EPA 8082

110-1RR-62

01A-D

6/20

AMBR

4

4

X

X

X

X

X

X

110-1S-62

02A-D

6/20

AMBR

4

4

X

X

X

X

X

X

Samples recd

at 4°C

Samples received at 4°C

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

Friedman & Bruya, Inc.  
Ph. (206) 285-8282

Mac (304)

CBES

6/20

4:42

16:42

# SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 406291 CLIENT WCS INITIALS/ DATE: MC 6/20

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

Cooler/Sample temperature      °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/ Date: (NP) 6/20  
\*or other representative documents, letters, and/or shipping memos

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

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

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

Were appropriate sample containers used?  YES  NO  Unknown

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

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

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

Sample ID's	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	_____	<input type="checkbox"/> Not on COC/label
Date Sampled	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	_____	<input type="checkbox"/> Not on COC/label
Time Sampled	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	_____	<input type="checkbox"/> Not on <u>COC</u> label
# of Containers	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	_____	
Relinquished	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	_____	
Requested analysis	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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 \_\_\_\_\_

## ***Appendix B***

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### ***Dissolved Arsenic Time Series Plots***

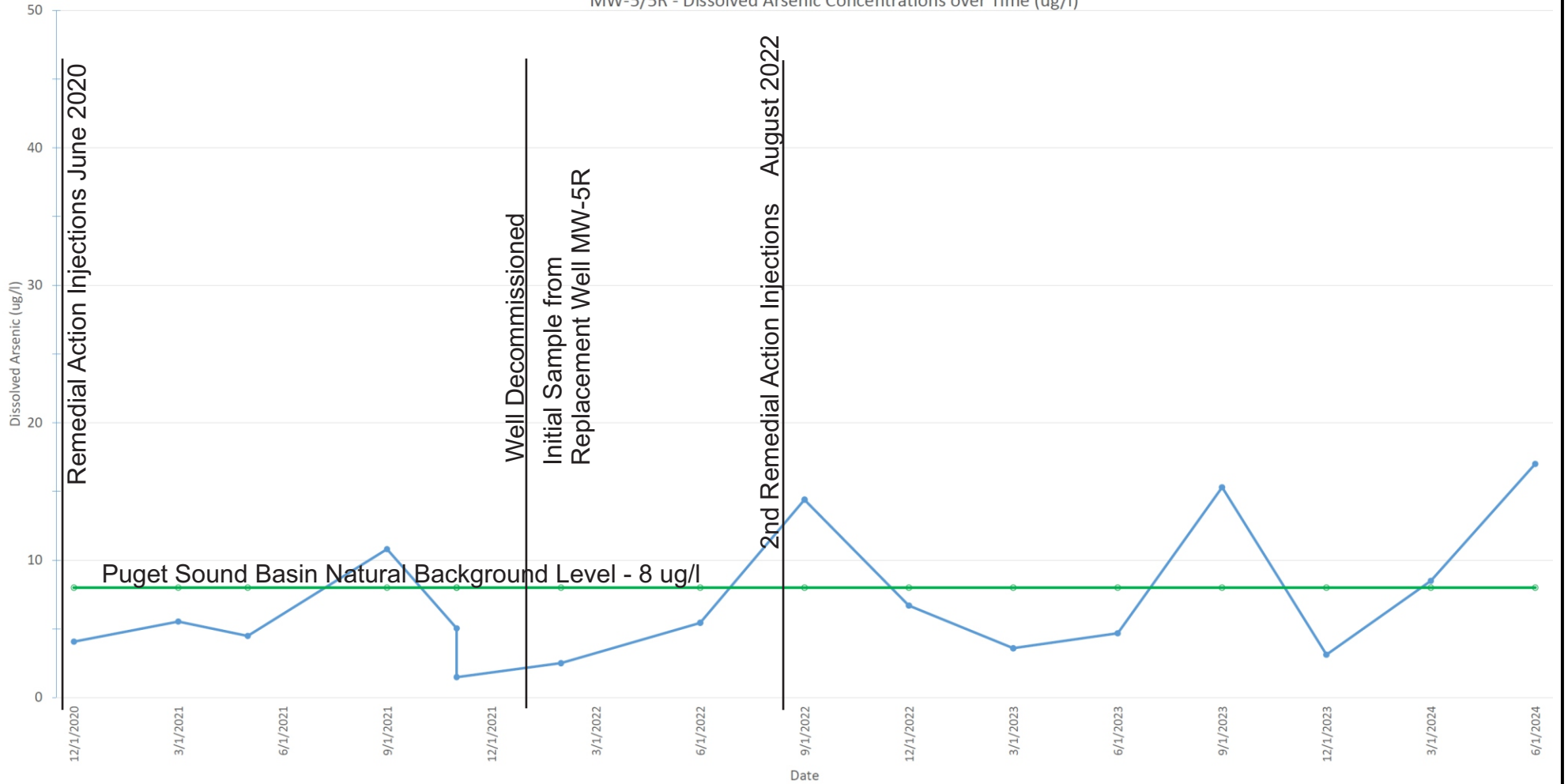
MW-1R - Dissolved Arsenic Concentrations over Time (ug/l)



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	July 2024
File ID.	1591TSMW18
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

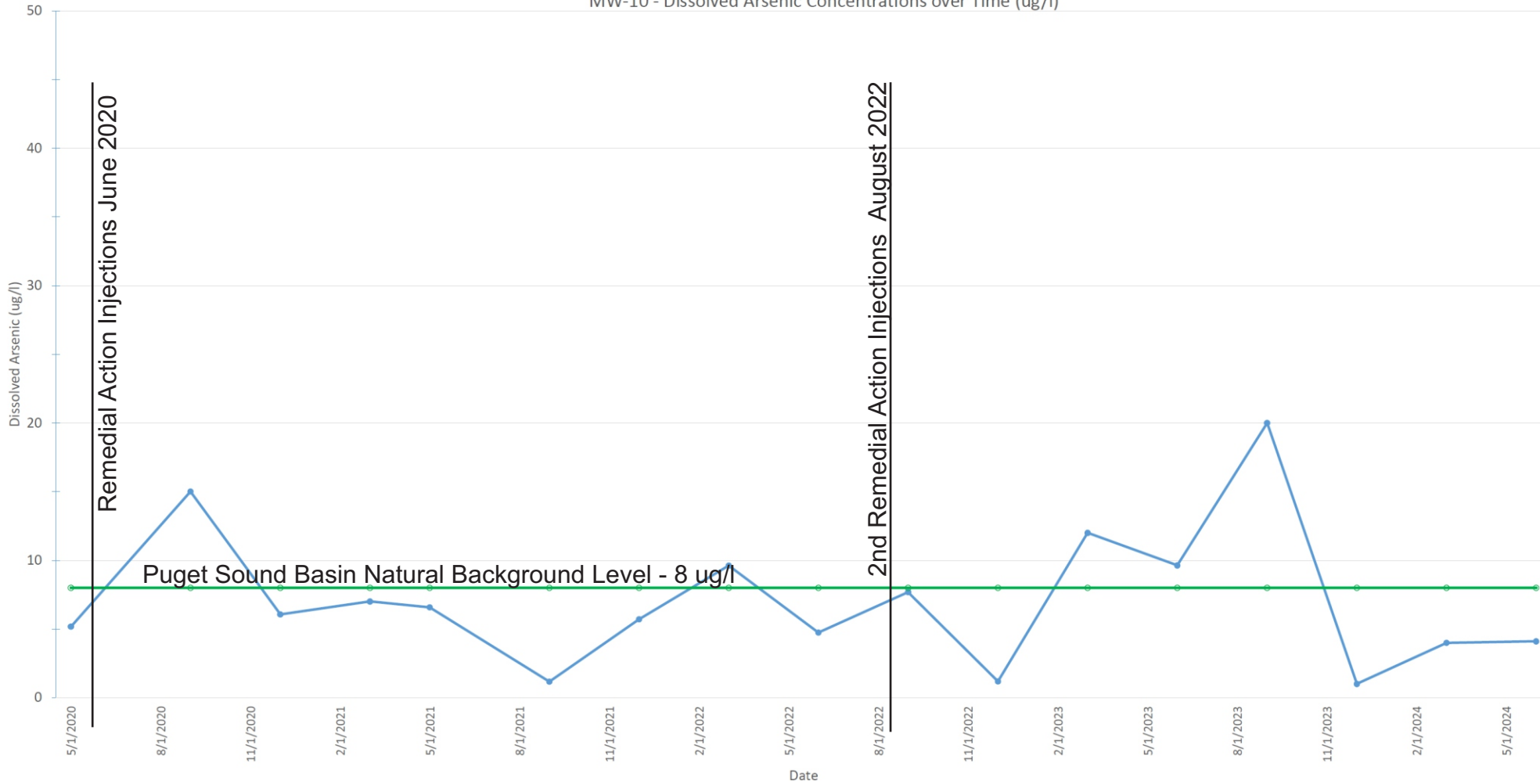
Project No. WES - 1591A

Date July 2024

File ID. 1591TSMW5

**WHITMAN**  
 Environmental Sciences

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



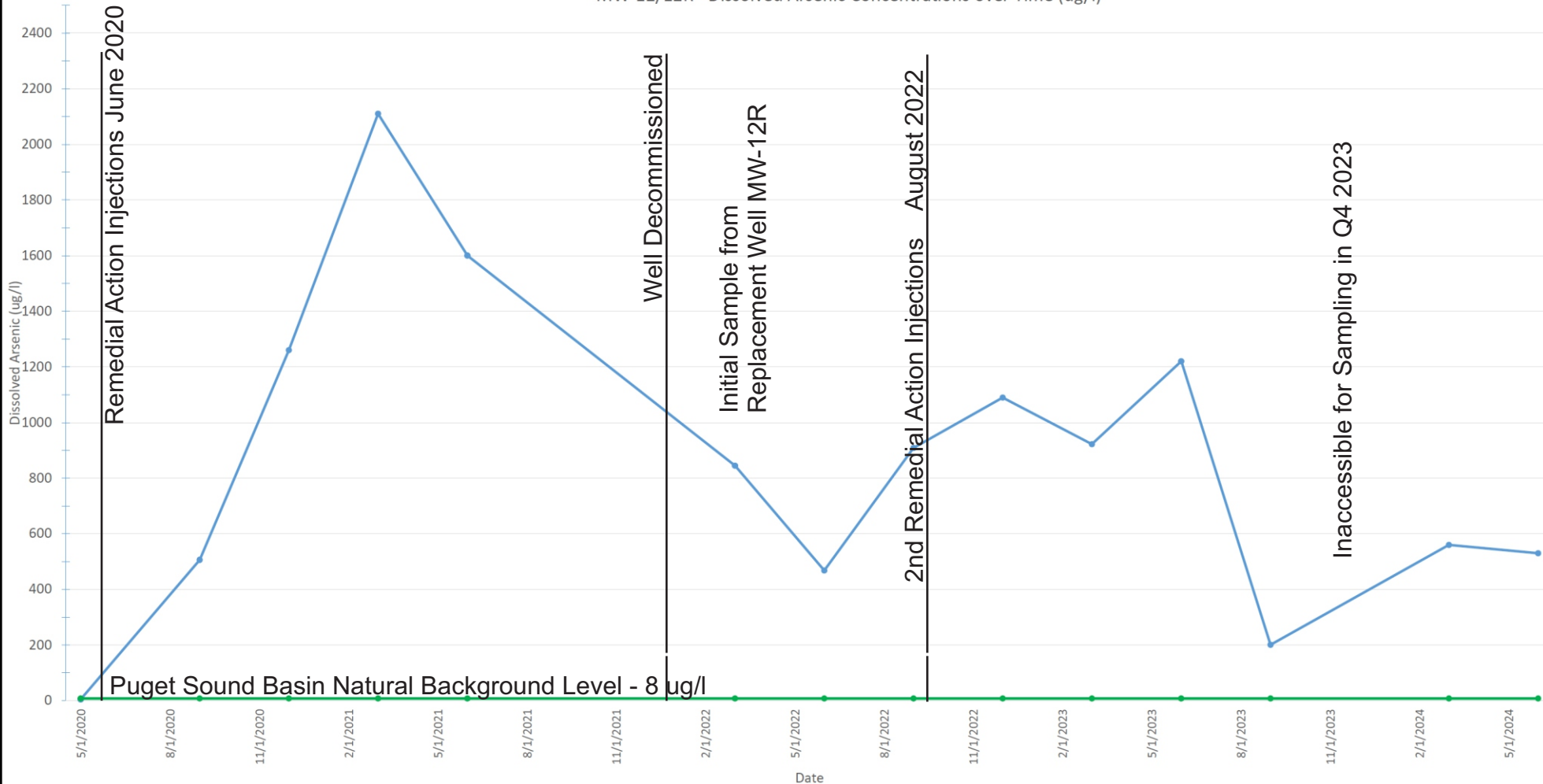
Dissolved Arsenic Over Time - MW-10

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

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

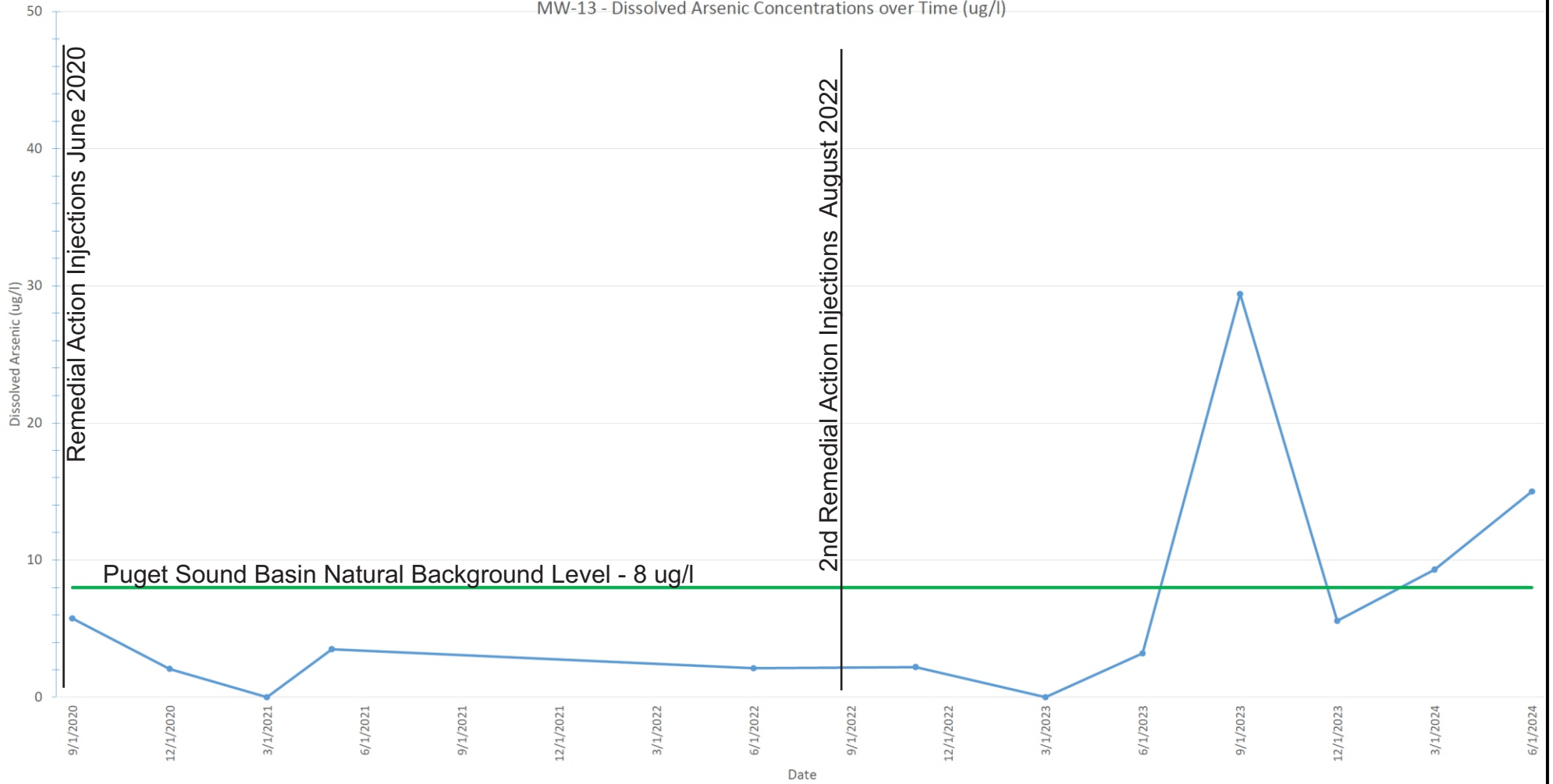
**WHITMAN**  
 Environmental Sciences

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	July 2024
File ID.	1591TSMW12
<b>WHITMAN</b> 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

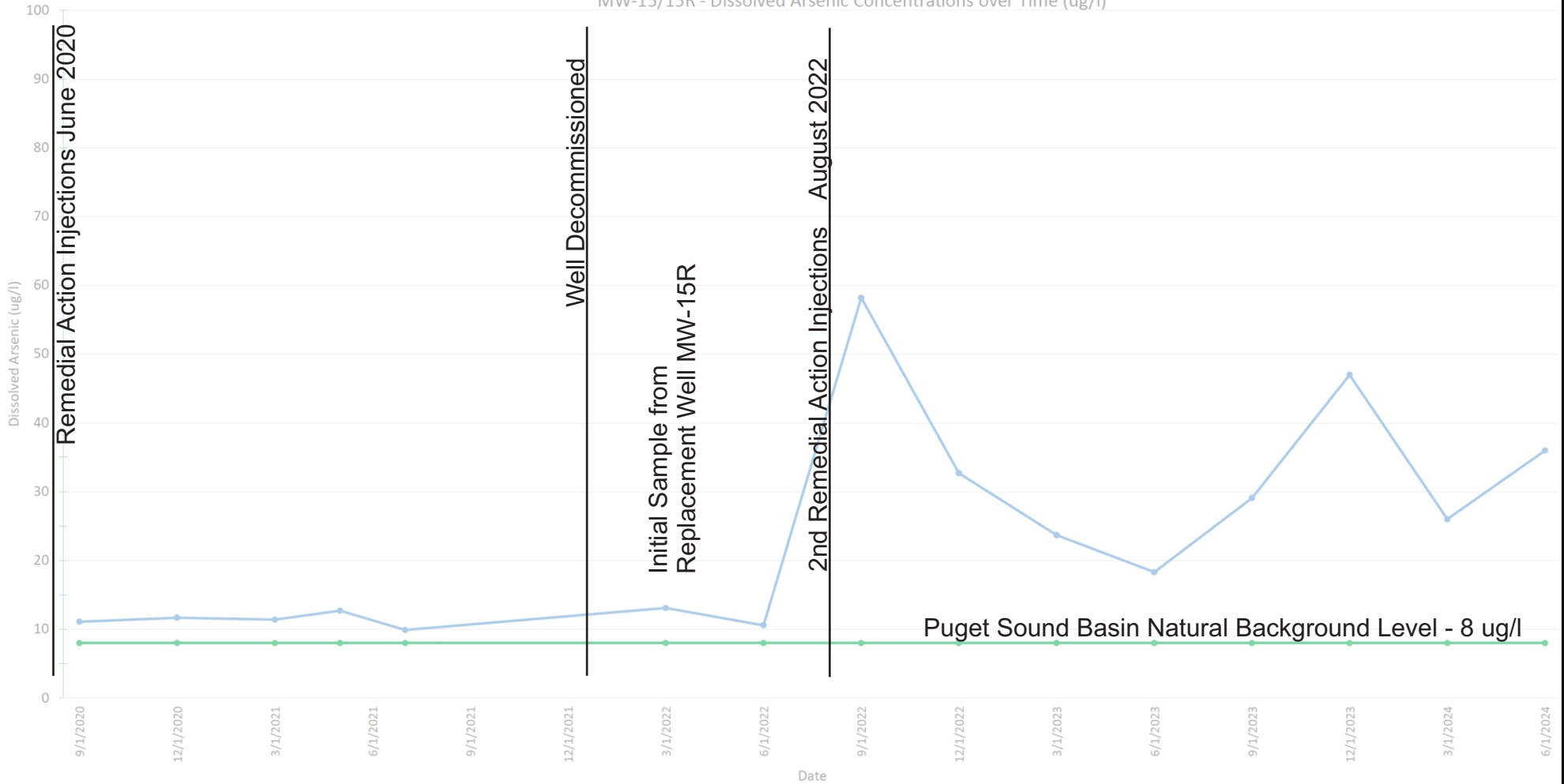
Project No. WES - 1591A

Date July 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

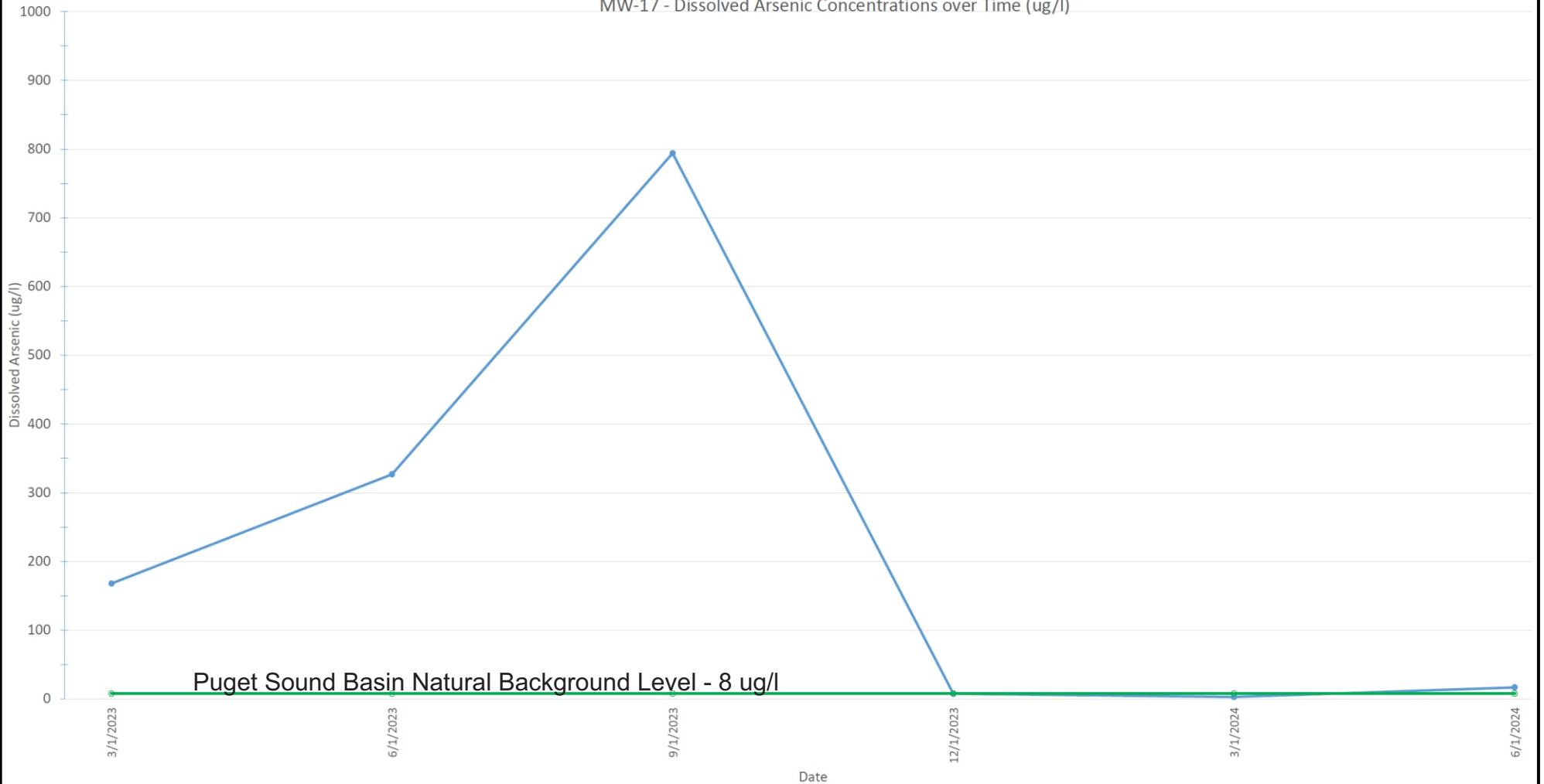
Project No. WES - 1591A

Date July 2024

File ID. 1591TSMW15

**WHITMAN**  
 Environmental Sciences

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



Puget Sound Basin Natural Background Level - 8 ug/l

Dissolved Arsenic Over Time - MW-17

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

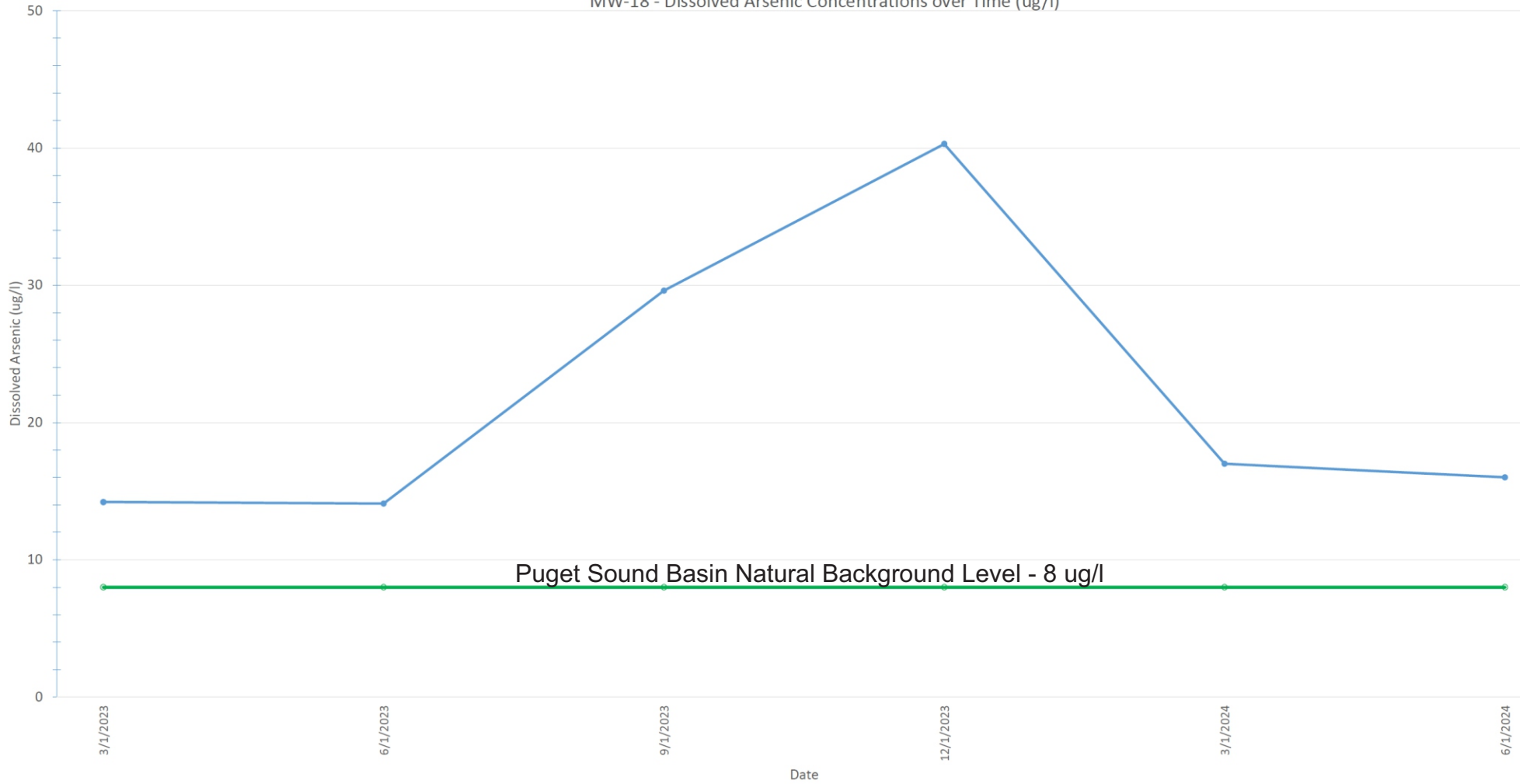
Project No. WES - 1591A

Date July 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 July 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

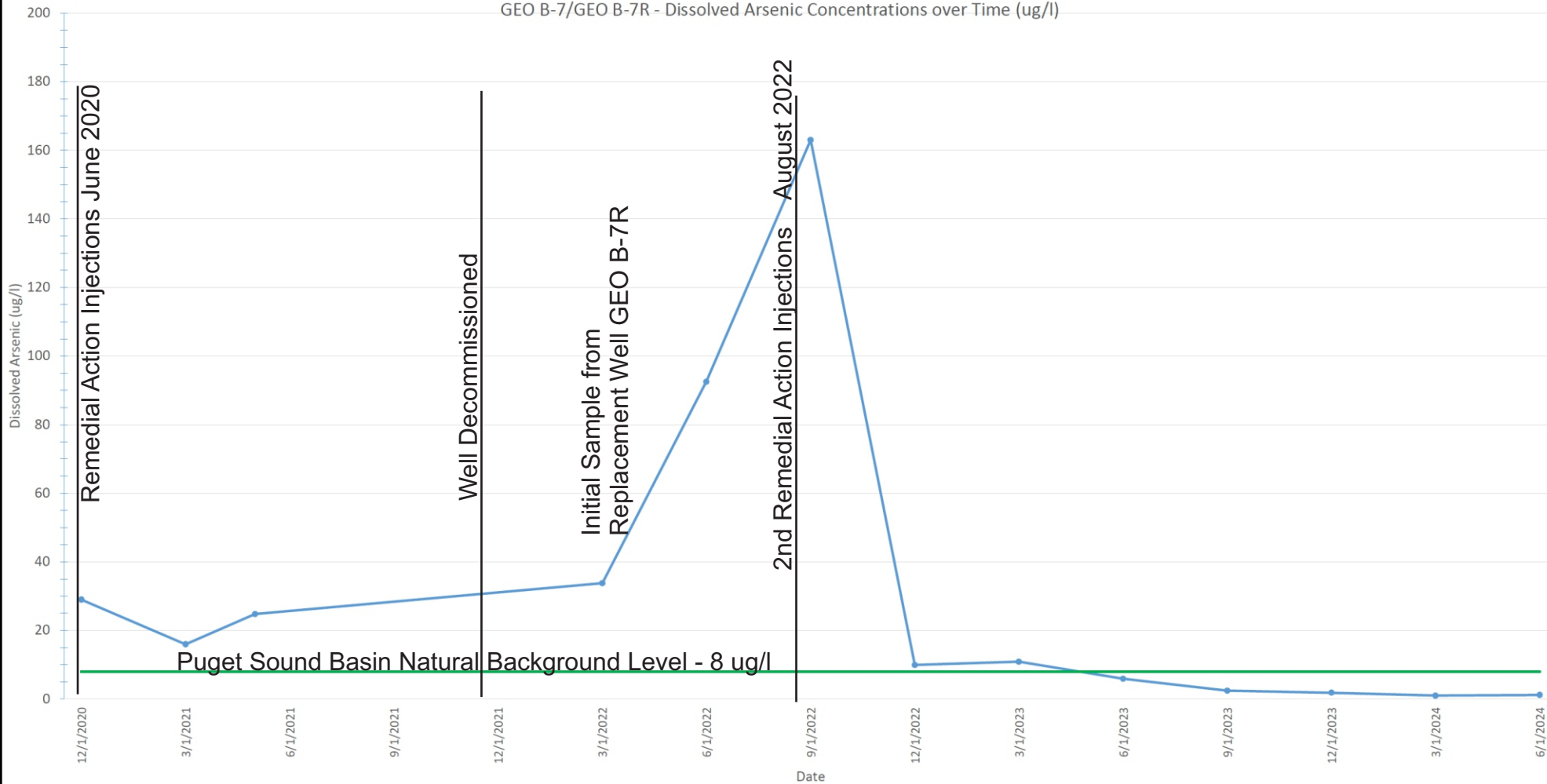
Project No. WES - 1591A

Date July, 2024

File ID. 1591TSMW19

**WHITMAN**  
Environmental Sciences

GEO B-7/GEO B-7R - Dissolved Arsenic Concentrations over Time (ug/l)



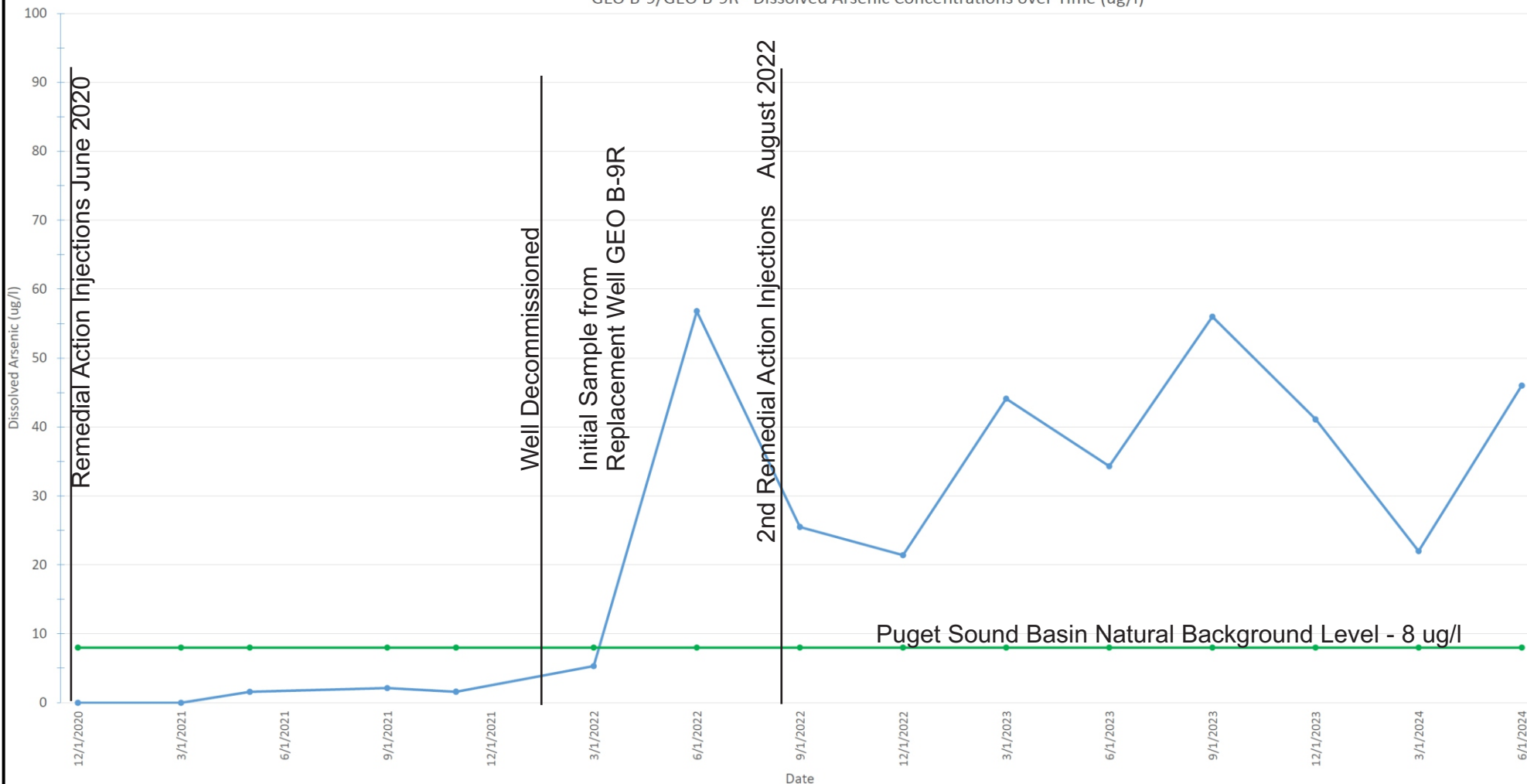
Dissolved Arsenic over Time - GEO B-7

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

Project No.	WES - 1591A
Date	Apr 8, 2024
File ID.	1591TSGEOB7

**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	<b>WHITMAN</b> Environmental Sciences
Date	July 2024	
File ID.	1591TSGEOB9	