

# **Report of Drinking Water Testing for Lead Content**

Tukwila School District  
4640 South 144th Street  
Tukwila, Washington

Prepared for:  
Liliana Cardenas  
Director of Maintenance and Operations  
Tukwila School District  
Tukwila, Washington

February 10, 2025  
PBS Project 24012914



214 EAST GALER STREET, SUITE 300  
SEATTLE, WA 98102  
206.233.9639 MAIN  
866.727.0140 FAX  
[PBSUSA.COM](http://PBSUSA.COM)

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## 1 INTRODUCTION

PBS Engineering and Environmental LLC (PBS) performed limited drinking water sampling for the Tukwila School District (District). Drinking water in Washington State is regulated by the State of Washington Engrossed Second Substitute House Bill 1139. The testing process followed the protocols described in the Environmental Protection Agency (EPA) document, "3Ts for Reducing Lead in Drinking Water in Schools." Our scope of work included first-draw water sampling of fixtures used for drinking water. The work scope included analysis for lead in drinking water from select taps, bubblers, and bottle fillers selected by the Tukwila School District. This was not intended to be a comprehensive drinking water testing activity. The following facilities were included in the survey: Thorndyke Elementary School, Tukwila Elementary School, Cascade View Elementary School, Showalter Middle School, Foster High School, the Administration Building, the Service Center, the Transportation Building, and Neudorf Stadium.

The District understands that public education and communication is an important element to this project. The Lead Contamination Control Act of 1988 has mandatory public notice requirements for reporting lead test results.

### 1.1 Background Information

Lead is a metal commonly found in drinking water. Levels of these metals in drinking water are regulated by the EPA and Washington State Department of Health (DOH) due to their ability to have negative impacts on human health.

Lead, a metal found in natural deposits, is commonly found in plumbing materials and water service lines. Although the main sources of exposure to lead are ingestion of paint chips and dust inhalation, EPA estimates that 10 to 20% of human exposure may come from lead in drinking water. Infants who consume mixed formula can receive 40 to 60% of their exposure to lead from drinking water.

Lead in drinking water can cause a variety of adverse health effects. The health effects of lead are most severe for infants and children, for whom exposure to lead in drinking water above the action level can result in delays in physical and mental development along with slight deficits in attention span and learning abilities. In adults, it can cause increases in blood pressure. Adults who drink this water over many years can develop kidney problems or high blood pressure.

Lead is rarely found in source water. Typically, lead gets into the system after the water leaves the local treatment plant or well. The source of lead in a facility's water is most likely the corrosion of lead-containing pipes, fixtures, or solder. This corrosion often occurs from a reaction between the water and the plumbing materials caused by dissolved oxygen, low pH (acidity), and low mineral content in water.

In summary, homes and other buildings built before 1986 are more likely to have lead pipes, fixtures, and solder. New buildings are not likely to have lead pipes in their plumbing systems but are very likely to have copper pipes with solder joints or fixtures that contain lead alloys. However, new facilities are also at risk because plumbing that is legally considered "lead-free" may still contain lead in the alloy.

## 2 METHODOLOGY

A sampling plan was developed by the Tukwila School District. Maps of each school with drinking water locations identified were provided to PBS.

The drinking water sampling was conducted between December 10–13, 2024. The sample collection procedures were generally as follows:

1. First-draw water samples were collected by PBS Industrial Hygienists after a normal day of usage and the water had been sitting in the pipes for 8 to 18 hours. The first-draw samples consisted of the first 250 milliliters (ml) of water from the source without wasting any water.
2. The samples were assigned unique identification numbers, and the drawings were labeled to identify each location.
3. Chain-of-custody documentation was completed and cross-matched with drawings and container labels.

All samples were collected in pre-cleaned 250 ml lead-free plastic bottles provided by the laboratory. The sample numbering scheme for sample identification is as follows:

School code – Sample number

For Showalter Middle School sample one, the sample identification would be: SMS-1

### 3 FINDINGS

A total of 124 samples were collected from the schools and facilities selected and delivered for analysis under chain-of-custody protocols to Onsite Environmental Inc. in Redmond, Washington (Washington State Certified Drinking Water Laboratory). All samples were collected and tested in accordance with EPA Method 200.8 for total lead drinking water.

Water samples collected from the District buildings were compared to the State of Washington Engrossed Second Substitute House Bill 1139 elevated lead level threshold of greater than 5 (>5) parts per billion (ppb). All fixtures with lead levels of >5 ppb lead need to be included in a school action plan within 6 months of receiving sample results. All fixtures that came back >15 ppb lead need to be shut off as soon as practicable.

The following is a summary of fixtures at this site that were found to exceed the drinking water threshold for lead of >5 ppb.

**Table 1. Fixtures with Elevated Lead Levels**

Sample Number	Location	Result (lead ppb)
TES-5	Thorndyke Elementary School/Kitchen/Wash Sink Tap	16
TES-6	Thorndyke Elementary School/Kitchen/Rinse Sink Tap	5.1
SMS-9	Showalter Middle School/Kitchen/Prep Sink Tap	5.8

Fixtures with special conditions during sampling efforts are as follows:

1. Showalter Middle School Science Classroom A217. The cold water was shut off. Only hot water was available at sinks. No samples were collected.

Refer to Appendix A for a sample location diagram. Refer to Appendix B for laboratory reports and chain-of-custody documentation. Copies of the laboratory drinking water certifications are provided in Appendix C.

### 4 CONCLUSIONS AND RECOMMENDATIONS

Three fixtures were found to contain lead levels >5 ppb by laboratory analysis. Non-operational fixtures should be sampled prior to use.



The State of Washington Engrossed Second Substitute House Bill 1139 requires for any school that receives an elevated sample result of >5 ppb lead at one or more drinking water outlets the school's governing body is to adopt a school action plan in accordance with Revised Code of Washington (RCW) 28A.210.410 section 5 within 6 months of receipt of results. All fixtures with sample results of >15 ppb lead need to be shut off as soon as practicable until a lead contamination mitigation measure, such as use of a filter or fixture replacement, is implemented.

The DOH Technical Guidance lists the following as remediation options for fixtures with elevated lead levels:

- Shutting off outlets or taking them out of service.
  - This is the lowest cost option. Generally used for outlets that are in areas of infrequent use or if there are other fixtures in the area as alternate options.
- Mark outlets as "hand wash only."
  - All fixtures not sampled or not intended for consumption should be labeled "hand wash only" or "non-potable water" (e.g., restrooms, the science room, science prep rooms, art rooms, hose spigots, or other fixtures not intended for consumption).
- Fixture and/or plumbing replacement.
  - This option requires follow-up testing after replacement to ensure remediation actions have reduced lead levels to less than 5 ppb. For fixture replacement, PBS recommends collecting flush (second draw) samples to help determine if the lead contamination is coming from the fixture or the building's plumbing.

Please do not hesitate to contact us if you have any questions regarding this report or require additional information.

**Report prepared by:**  
**PBS Engineering and Environmental LLC,**

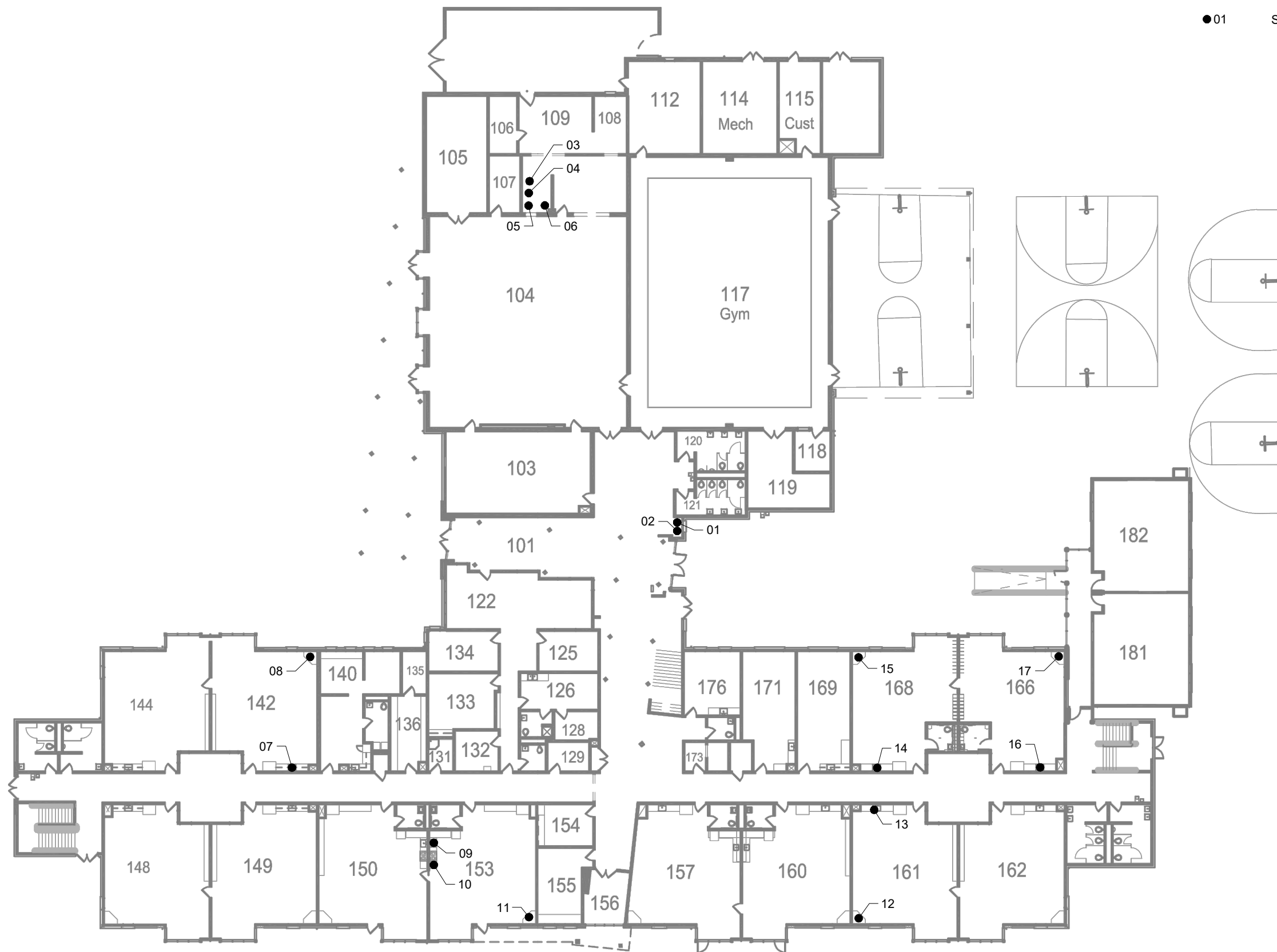
Janet Murphy  
Project Manager

Reviewed by: GM

# Appendix A

## Sample Location Diagram

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### LEGEND

● 01      SAMPLE NUMBER AND LOCATION

1 FIRST FLOOR DRINKING WATER SAMPLE PLAN  
APPROXIMATE SCALE: 1" = 30'-0"



Full Size Sheet Format Is 11x17; If Printed Size Is Not 11x17, Then This Sheet Format Has Been Modified & Indicated Drawing Scale Is Not Accurate.

PREPARED FOR: TUKWILA SCHOOL DISTRICT

DRINKING WATER TESTING SAMPLE PLAN  
THORNDYKE ELEMENTARY SCHOOL DRINKING WATER TESTING  
4415 SOUTH 150TH ST, TUKWILA, WASHINGTON

PROJECT
24012914
DATE
JAN 2025
SHEET ID
HM1



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1

SECOND FLOOR DRINKING WATER SAMPLE PLAN

APPROXIMATE SCALE: 1" = 30'-0"



LEGEND

●01      SAMPLE NUMBER AND LOCATION

DRINKING WATER TESTING SAMPLE PLAN  
THORNDYKE ELEMENTARY SCHOOL DRINKING WATER TESTING  
4415 SOUTH 150TH ST, TUKWILA, WASHINGTON

PROJECT

24012914

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**1 FIRST FLOOR DRINKING WATER SAMPLE PLAN**  
APPROXIMATE SCALE: 1" = 40'-0"

**LEGEND**

●01      SAMPLE NUMBER AND LOCATION

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**DRINKING WATER TESTING SAMPLE PLAN**  
**TUKWILA ELEMENTARY SCHOOL DRINKING WATER TESTING**  
**5939 SOUTH 149TH ST, TUKWILA, WASHINGTON**

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DATE
JAN 2025
SHEET ID

**HM1**



## 1 SECOND FLOOR DRINKING WATER SAMPLE PLAN

APPROXIMATE SCALE: 1" = 40'-0"



## LEGEND

●01 SAMPLE NUMBER AND LOCATION

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206.233.9639  
**pbsusa.com**



**DRINKING WATER TESTING SAMPLE PLAN**  
**TUKWILA ELEMENTARY SCHOOL DRINKING WATER TESTING**  
**5939 SOUTH 149TH ST, TUKWILA, WASHINGTON**

PROJECT

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DATE \_\_\_\_\_

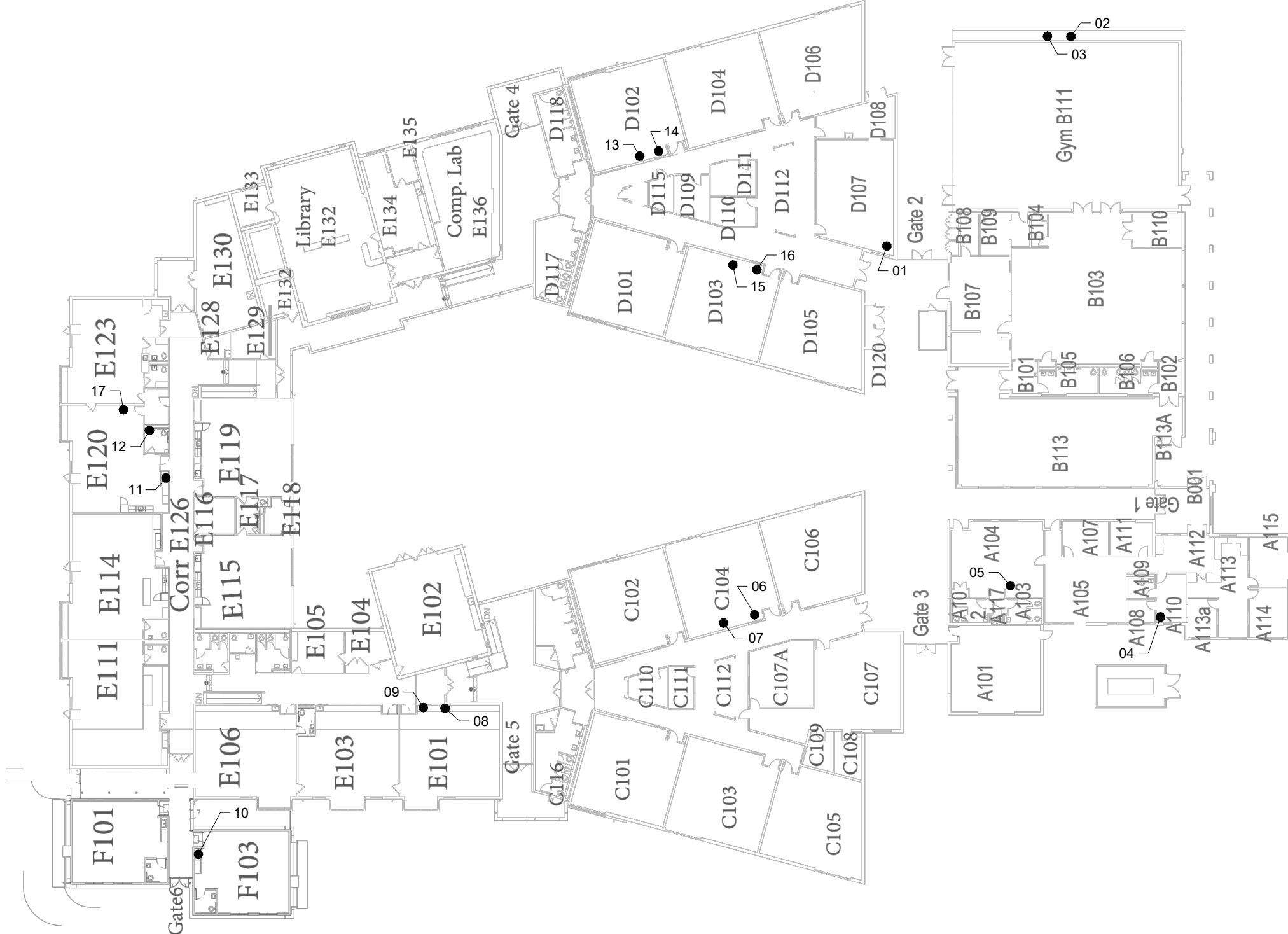
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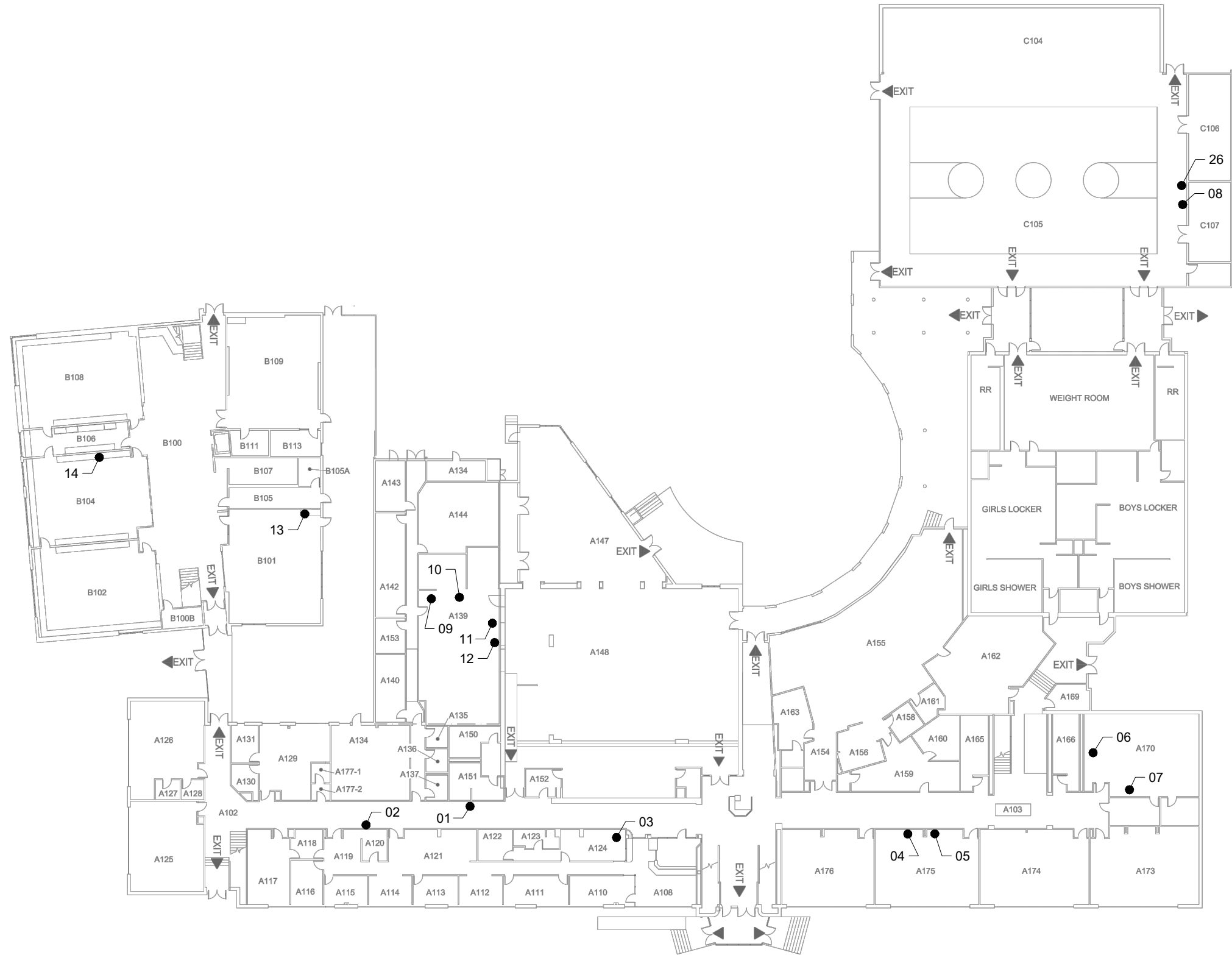
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**1 FIRST FLOOR DRINKING WATER SAMPLE PLAN**  
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**DRINKING WATER TESTING SAMPLE PLAN**  
**SHOWALTER MIDDLE SCHOOL CENTER DRINKING WATER TESTING**  
**4628 SOUTH 144TH ST, TUKWILA, WASHINGTON**

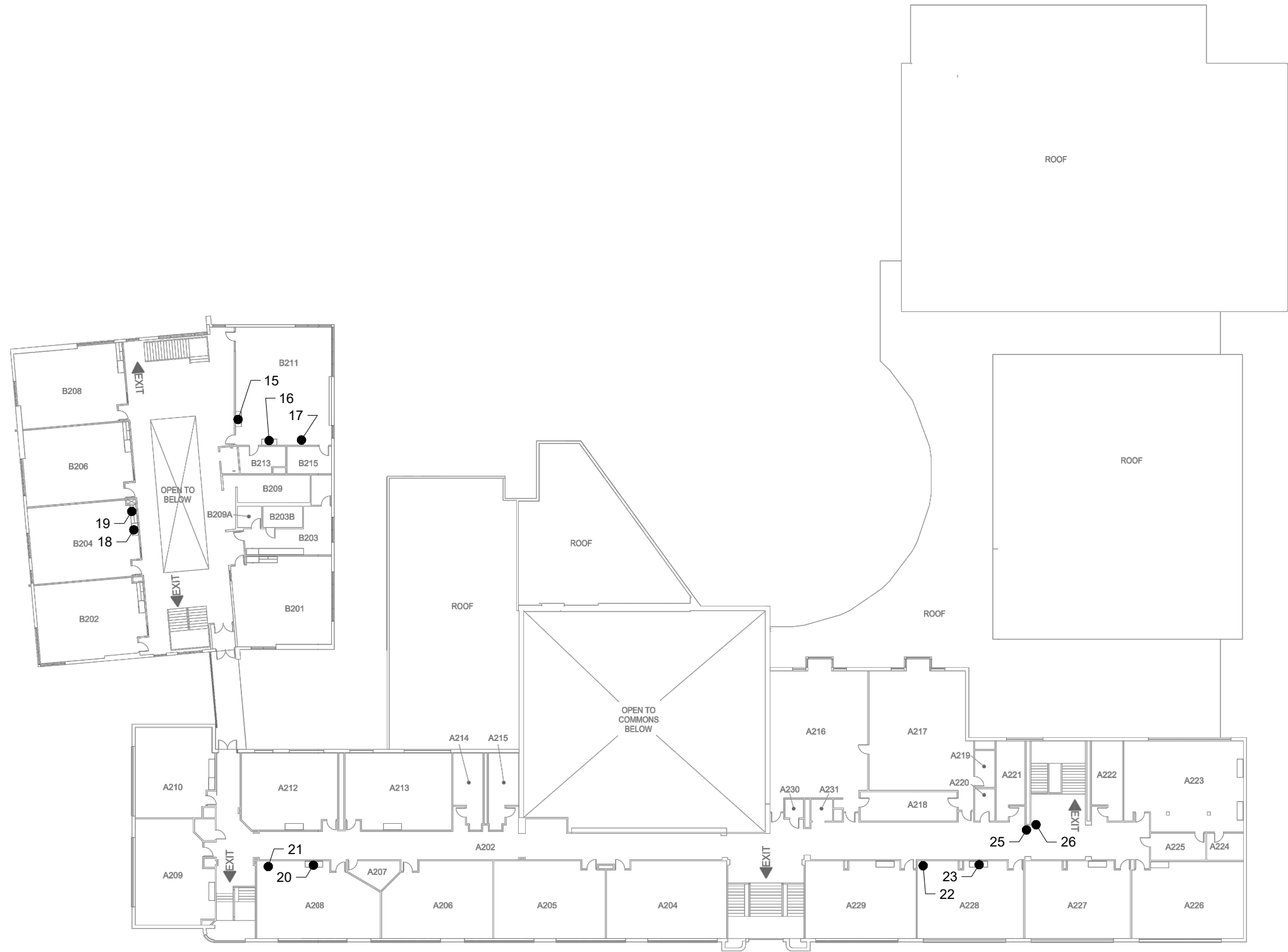
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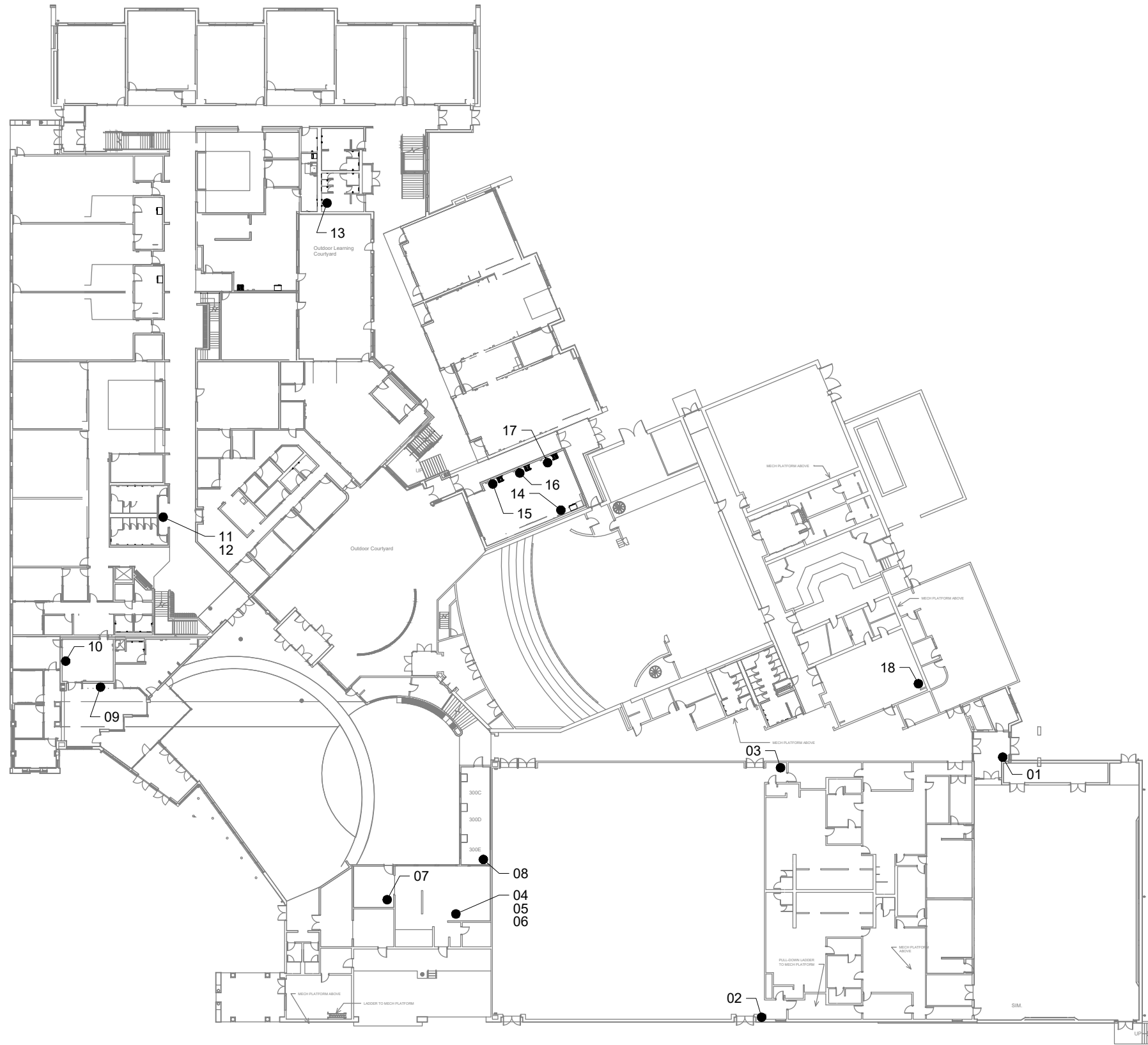
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**DRINKING WATER TESTING SAMPLE PLAN**  
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SCALE: 1" = 50'-0"

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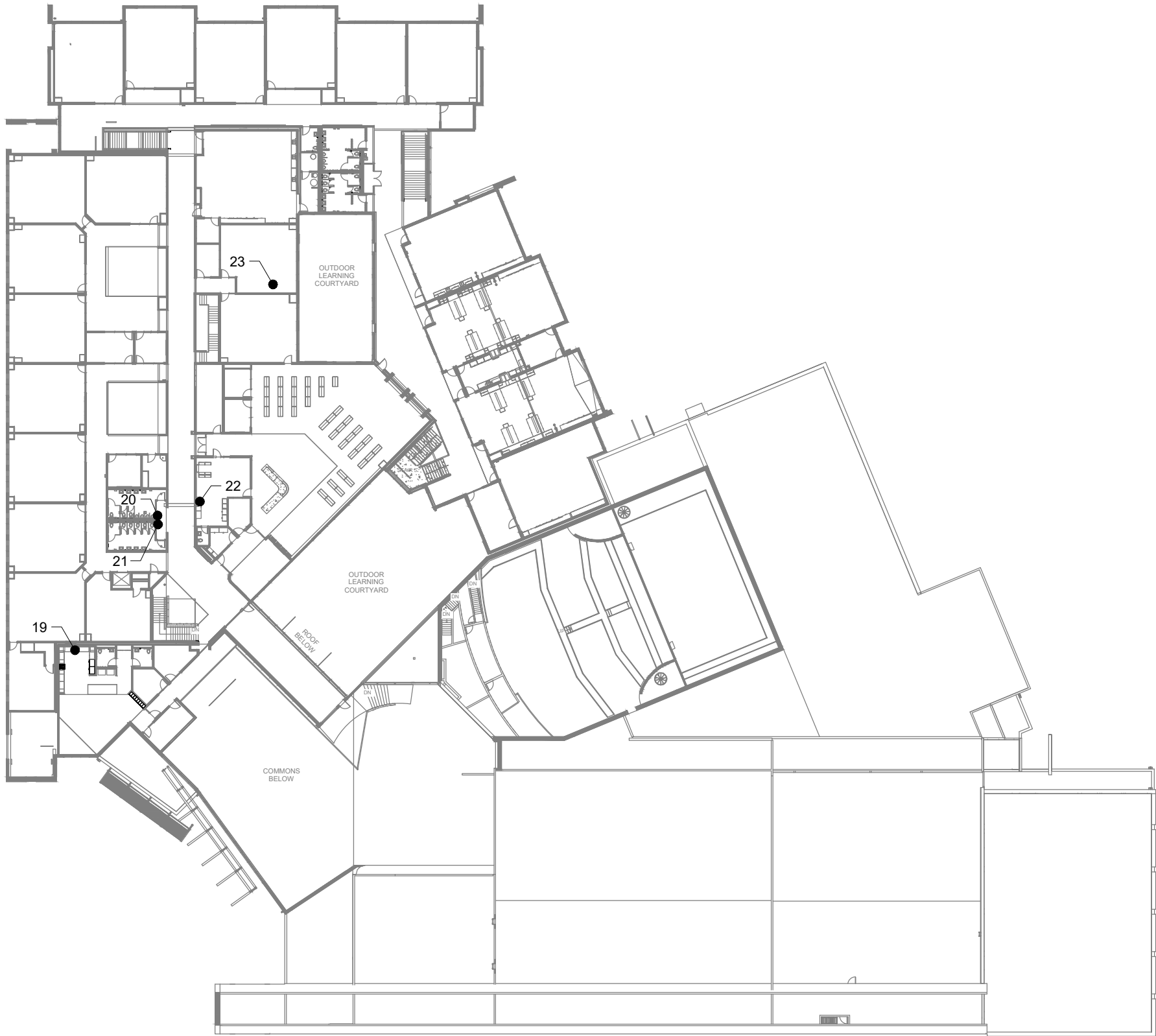
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**DRINKING WATER SAMPLE PLAN**  
**FOSTER HIGH SCHOOL DRINKING WATER TESTING**  
**4242 SOUTH 144TH ST, TUKWILA, WASHINGTON**

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1

FIRST FLOOR DRINKING WATER SAMPLE PLAN

SCALE: 1" = 50'-0"



LEGEND

●01      SAMPLE NUMBER AND LOCATION

DRINKING WATER SAMPLE PLAN  
FOSTER HIGH SCHOOL DRINKING WATER TESTING  
4242 SOUTH 144TH ST, TUKWILA, WASHINGTON

PROJECT

24012914

DATE

JAN 2025

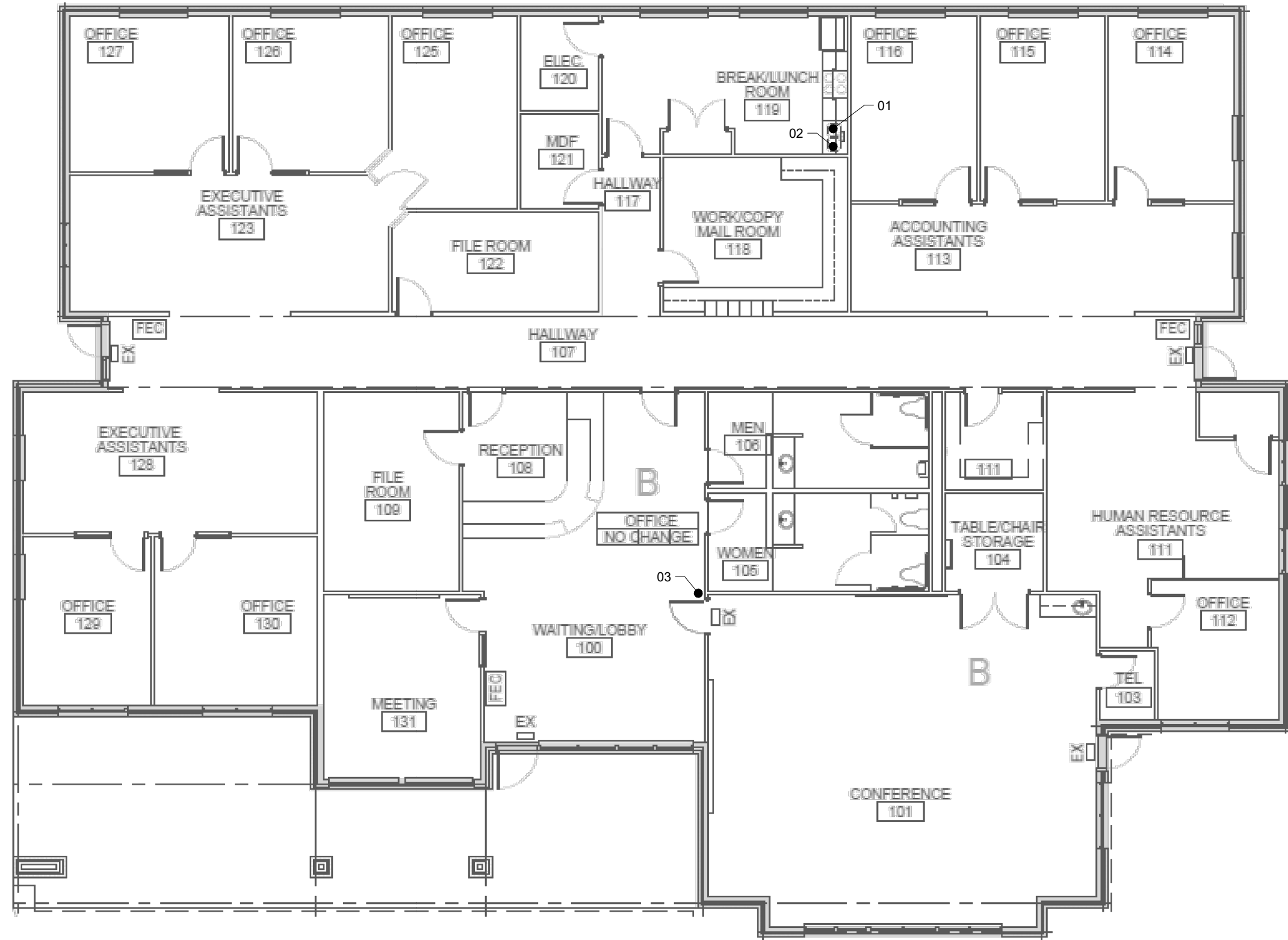
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1 FIRST FLOOR DRINKING WATER SAMPLE PLAN  
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**LEGEND**

● 01      SAMPLE NUMBER AND LOCATION

DRINKING WATER SAMPLE PLAN

**TSD ADMIN BUILDING DRINKING WATER TESTING**

4640 SOUTH 144TH ST, TUKWILA, WASHINGTON

PROJECT

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DATE

JAN 2025

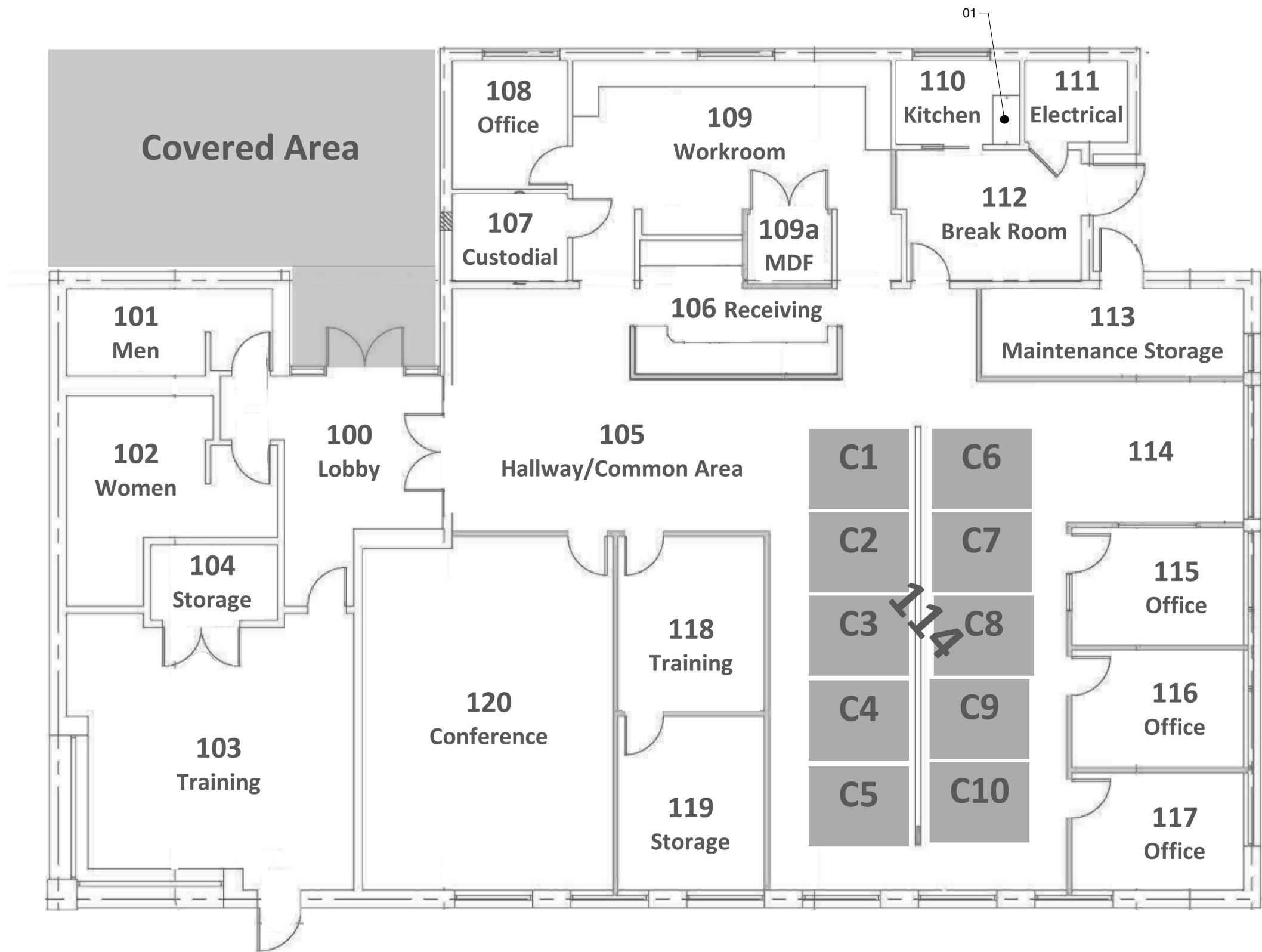
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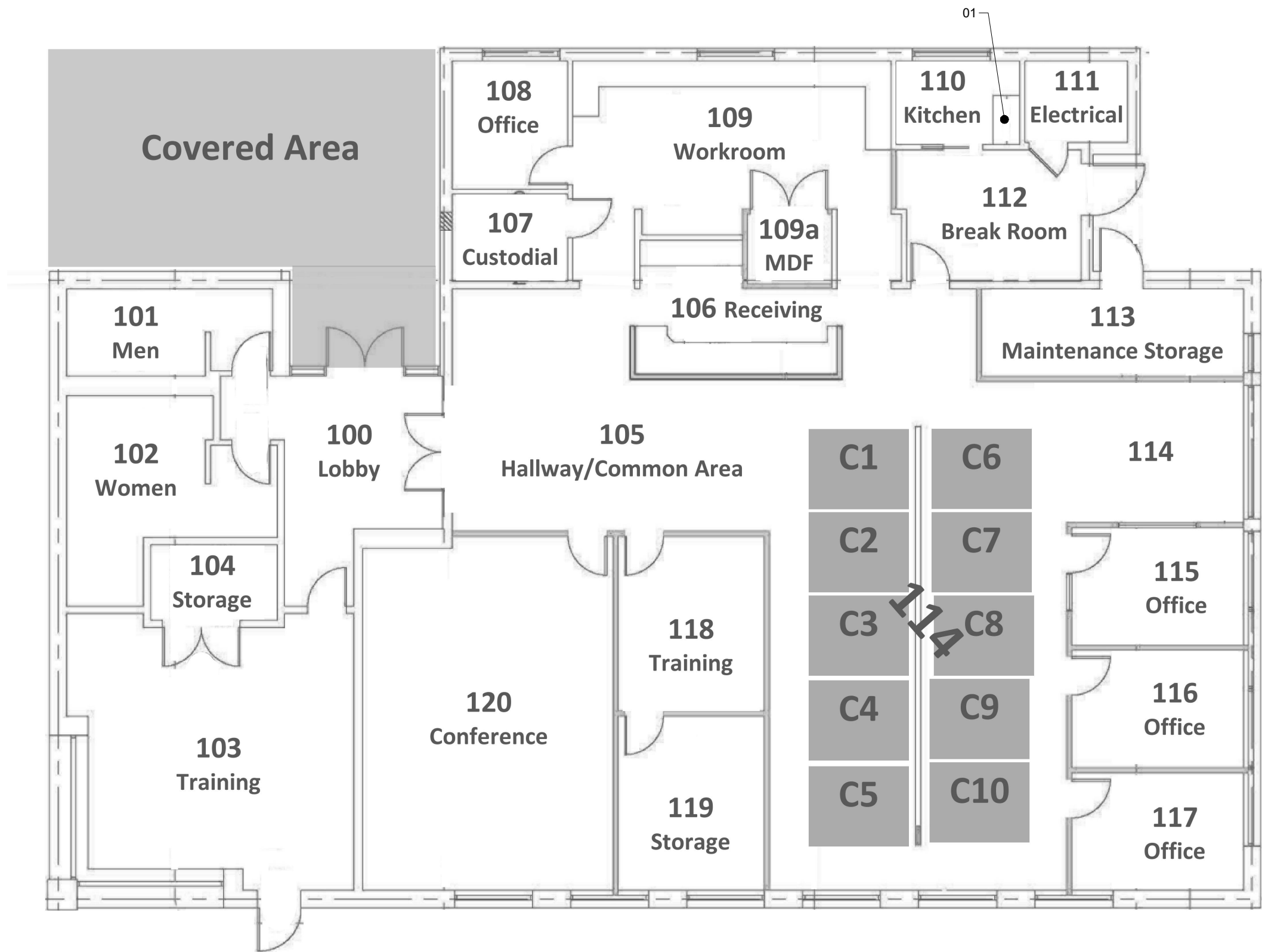
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1 FIRST FLOOR DRINKING WATER SAMPLE PLAN  
APPROXIMATE SCALE: 1" = 8'-0"

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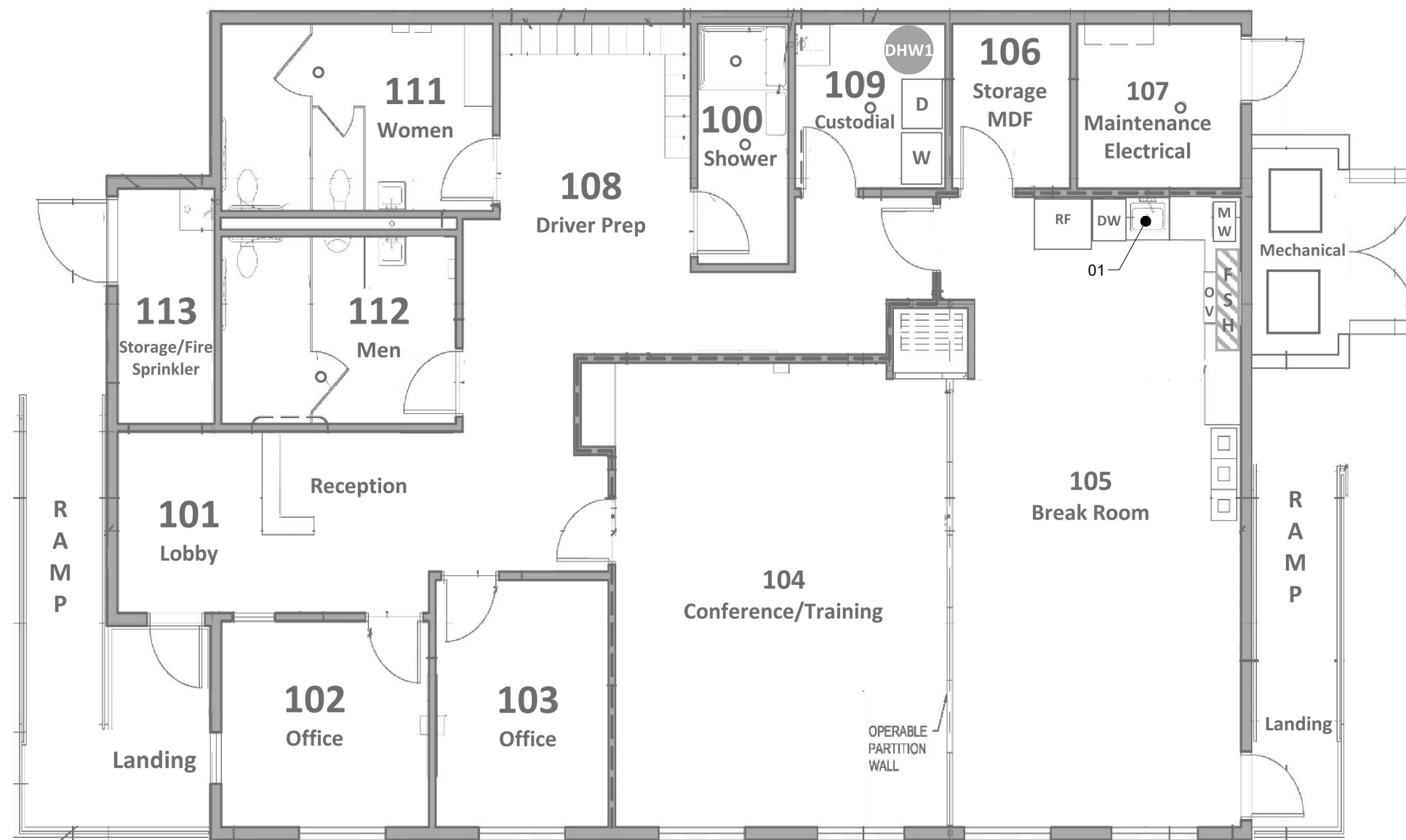
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Seattle, WA 98102  
206.233.9639  
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DRINKING WATER TESTING SAMPLE PLAN  
TSD SERVICE CENTER DRINKING WATER TESTING  
4060 SOUTH 144TH ST, TUKWILA, WASHINGTON

PROJECT
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DATE
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SHEET ID
HM1





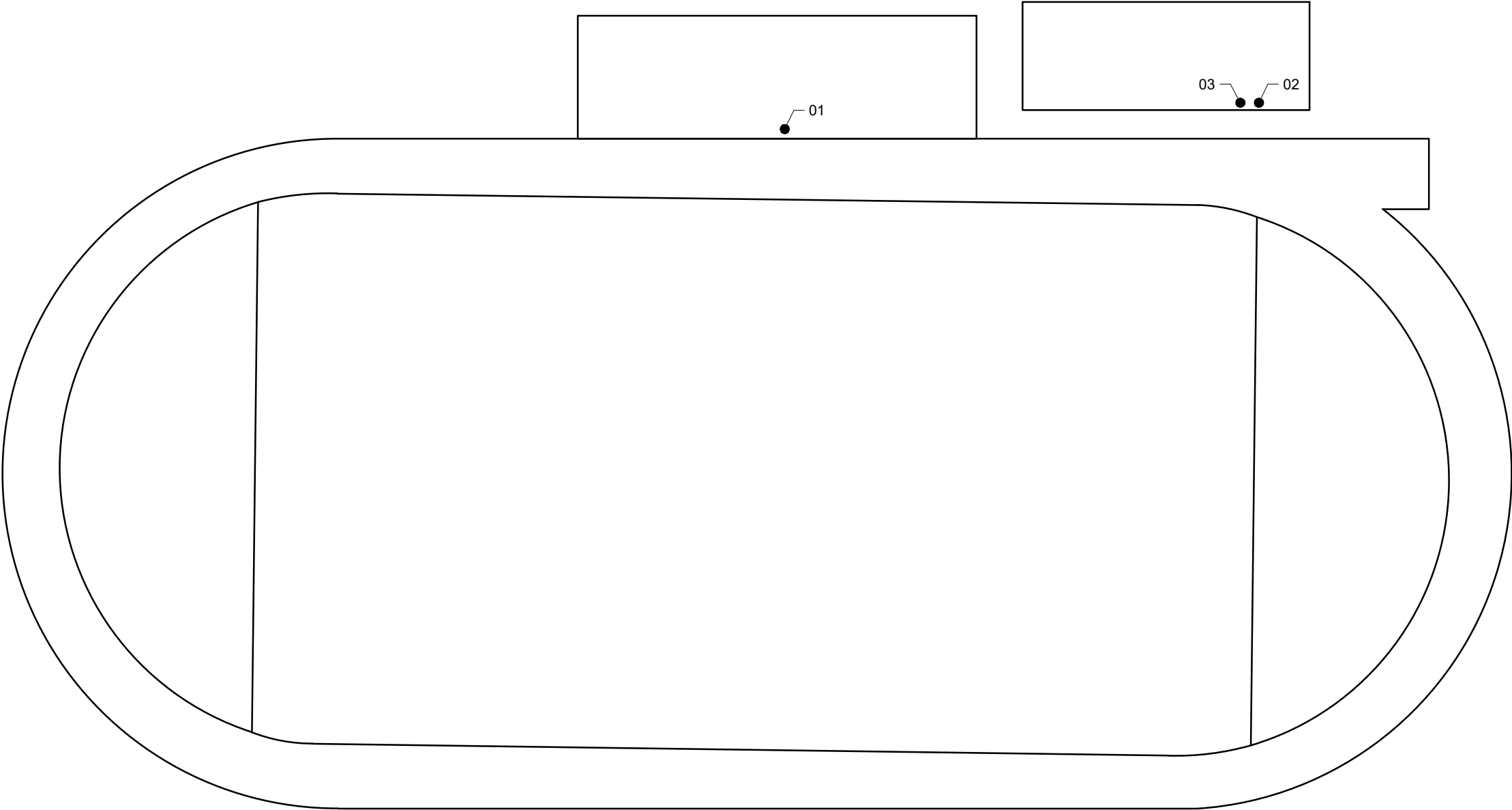
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## LEGEND

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LEGEND

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1

STADIUM DRINKING WATER SAMPLE PLAN

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DRINKING WATER SAMPLE PLAN  
NEUDORF STADIUM DRINKING WATER TESTING  
4242 SOUTH 144TH ST, TUKWILA, WASHINGTON

PROJECT
24012914
DATE
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# **Appendix B**

## **Lead Drinking Water Sampling Information**

Lead Laboratory Data Sheets and Chain-of-Custody Documentation

Lead Sample Inventory



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

December 31, 2024

Janet Murphy  
PBS Engineering & Environmental  
214 E Galer Street, Suite 300  
Seattle, WA 98102

Re: Analytical Data for Project TUK002-24012914; Thorndyke ES  
Laboratory Reference No. 2412-241

Dear Janet:

Enclosed are the analytical results and associated quality control data for samples submitted on December 13, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister  
Project Manager

Enclosures



---

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 31, 2024  
Samples Submitted: December 13, 2024  
Laboratory Reference: 2412-241  
Project: TUK002-24012914; Thorndyke ES

### **Case Narrative**

Samples were collected on December 13, 2024 and received by the laboratory on December 13, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 31, 2024  
 Samples Submitted: December 13, 2024  
 Laboratory Reference: 2412-241  
 Project: TUK002-24012914; Thorndyke ES

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>TES-1</b>					
Laboratory ID:	12-241-01					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-2</b>					
Laboratory ID:	12-241-02					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-3</b>					
Laboratory ID:	12-241-03					
Lead	<b>5.0</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-4</b>					
Laboratory ID:	12-241-04					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-5</b>					
Laboratory ID:	12-241-05					
Lead	<b>16</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-6</b>					
Laboratory ID:	12-241-06					
Lead	<b>5.1</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-7</b>					
Laboratory ID:	12-241-07					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-8</b>					
Laboratory ID:	12-241-08					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	



Date of Report: December 31, 2024  
 Samples Submitted: December 13, 2024  
 Laboratory Reference: 2412-241  
 Project: TUK002-24012914; Thorndyke ES

**DRINKING WATER LEAD  
 EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>TES-9</b>					
Laboratory ID:	12-241-09					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
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Laboratory ID:	12-241-10					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
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Laboratory ID:	12-241-11					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-12</b>					
Laboratory ID:	12-241-12					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-13</b>					
Laboratory ID:	12-241-13					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-14</b>					
Laboratory ID:	12-241-14					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-15</b>					
Laboratory ID:	12-241-15					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-16</b>					
Laboratory ID:	12-241-16					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	



Date of Report: December 31, 2024  
 Samples Submitted: December 13, 2024  
 Laboratory Reference: 2412-241  
 Project: TUK002-24012914; Thorndyke ES

**DRINKING WATER LEAD  
 EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>TES-17</b>					
Laboratory ID:	12-241-17					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-18</b>					
Laboratory ID:	12-241-18					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-19</b>					
Laboratory ID:	12-241-19					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-20</b>					
Laboratory ID:	12-241-20					
Lead	<b>ND</b>	2.5	EPA 200.8		12-31-24	
<b>Client ID:</b>	<b>TES-21</b>					
Laboratory ID:	12-241-21					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-22</b>					
Laboratory ID:	12-241-22					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-23</b>					
Laboratory ID:	12-241-23					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>TES-24</b>					
Laboratory ID:	12-241-24					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	



Date of Report: December 31, 2024  
 Samples Submitted: December 13, 2024  
 Laboratory Reference: 2412-241  
 Project: TUK002-24012914; Thorndyke ES

**DRINKING WATER LEAD  
 EPA 200.8  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB1230DW1					
Lead	ND	1.0	EPA 200.8		12-30-24	
Laboratory ID:	MB1230DW3					
Lead	ND	1.0	EPA 200.8		12-30-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	12-241-01							
	ORIG	DUP						
Lead	ND	ND	NA	NA	NA	NA	NA	20
Laboratory ID:	12-298-01							
	ORIG	DUP						
Lead	ND	ND	NA	NA	NA	NA	NA	20

**MATRIX SPIKES**

Laboratory ID:	12-241-01									
	MS	MSD	MS	MSD		MS	MSD			
Lead	172	201	200	200	ND	86	100	75-125	16	20
Laboratory ID:	12-298-01									
	MS	MSD	MS	MSD		MS	MSD			
Lead	80.6	82.0	80.0	80.0	ND	101	103	75-125	2	20





### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference







# LABORATORY CHAIN OF CUSTODY

12-241

Project: Tukwila 2024 Drinking Water Testing District Wide

Project #: TUK002-24012914

Sampling Site: Thorndyke ES

Analysis requested: Lead in Drinking Water

Date: 12/13/2024

Relinq'd by/Signature: Janet Murphy

Date/Time: 12/13/24

Received by/Signature: [Signature]

Date/Time: 12/13/24 / 1500

E-mail results to

[janet.murphy@pbsusa.com](mailto:janet.murphy@pbsusa.com)

TURN AROUND TIME: Standard

LAB: Onsite Environmental

## DRINKING WATER SAMPLE DATA FORM

Sample  
No.

Location (Building/Room/Fixture)

1	TES-1	The upper drinking fountain in the Pre Function Corridor 102
2	TES-2	The lower drinking fountain in the Pre Function Corridor 102
3	TES-3	kitchen hand sink tap
4	TES-4	kitchen prep sink tap
5	TES-5	kitchen wash sink tap
6	TES-6	kitchen Rinse Sink tap.
7	TES-7	Classroom 142 Tap at Sink
8	TES-8	Classroom 142 Bubbler at sink
9	TES-9	ECEAP 153 Low sink Tap/wheelchair accessible
10	TES-10	ECEAP 153 Tap at Sink
11	TES-11	ECEAP 153 Bubbler at Sink
12	TES-12	Pre-School Tap at Sink
13	TES-13	Pre-School Bubbler at Sink
14	TES-14	Classroom 168 Tap at Sink
15	TES-15	Classroom 168 Bubbler at Sink.
16	TES-16	Classroom 166 Tap at Sink
17	TES-17	Classroom 166 Bubbler at Sink





14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

December 20, 2024

Janet Murphy  
PBS Engineering & Environmental  
214 E Galer Street, Suite 300  
Seattle, WA 98102

Re: Analytical Data for Project TUK002-24012914  
Laboratory Reference No. 2412-130

Dear Janet:

Enclosed are the analytical results and associated quality control data for samples submitted on December 10, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



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OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 20, 2024  
Samples Submitted: December 10, 2024  
Laboratory Reference: 2412-130  
Project: TUK002-24012914

### Case Narrative

Samples were collected on December 10, 2024 and received by the laboratory on December 10, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 20, 2024  
 Samples Submitted: December 10, 2024  
 Laboratory Reference: 2412-130  
 Project: TUK002-24012914

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>TES-1</b>					
Laboratory ID:	12-130-01					
Lead	ND	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>TES-2</b>					
Laboratory ID:	12-130-02					
Lead	ND	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>TES-3</b>					
Laboratory ID:	12-130-03					
Lead	ND	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>TES-4</b>					
Laboratory ID:	12-130-04					
Lead	ND	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>TES-5</b>					
Laboratory ID:	12-130-05					
Lead	ND	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>TES-6</b>					
Laboratory ID:	12-130-06					
Lead	ND	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>TES-7</b>					
Laboratory ID:	12-130-07					
Lead	ND	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>TES-8</b>					
Laboratory ID:	12-130-08					
Lead	ND	2.5	EPA 200.8		12-18-24	



Date of Report: December 20, 2024  
 Samples Submitted: December 10, 2024  
 Laboratory Reference: 2412-130  
 Project: TUK002-24012914

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>TES-9</b>					
Laboratory ID:	12-130-09					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>TES-10</b>					
Laboratory ID:	12-130-10					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>TES-11</b>					
Laboratory ID:	12-130-11					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>TES-12</b>					
Laboratory ID:	12-130-12					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>TES-13</b>					
Laboratory ID:	12-130-13					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>TES-14</b>					
Laboratory ID:	12-130-14					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>TES-15</b>					
Laboratory ID:	12-130-15					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>TES-16</b>					
Laboratory ID:	12-130-16					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	



Date of Report: December 20, 2024  
Samples Submitted: December 10, 2024  
Laboratory Reference: 2412-130  
Project: TUK002-24012914

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TES-17					
Laboratory ID:	12-130-17					
Lead	ND	2.5	EPA 200.8		12-18-24	

Client ID:	TES-18					
Laboratory ID:	12-130-18					
Lead	ND	2.5	EPA 200.8		12-18-24	



Date of Report: December 20, 2024  
 Samples Submitted: December 10, 2024  
 Laboratory Reference: 2412-130  
 Project: TUK002-24012914

**DRINKING WATER LEAD  
 EPA 200.8  
 QUALITY CONTROL**

Matrix: Water

Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB1218DW4					
Lead	ND	1.0	EPA 200.8		12-18-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	12-130-01							
	ORIG	DUP						
Lead	ND	ND	NA	NA	NA	NA	NA	20

**MATRIX SPIKES**

Laboratory ID:	12-130-01									
	MS	MSD	MS	MSD		MS	MSD			
Lead	187	196	200	200	ND	93	98	75-125	5	20







### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





## LABORATORY CHAIN OF CUSTODY

12-130

Project: Tukwila 2024 Drinking Water Testing District WideProject #: TUK002-24012914Sampling Site: Tukwila ESAnalysis requested: Lead in Drinking WaterDate: 12/10/2024Relinquished by/Signature: Janet MurphyDate/Time: 12/10/24 13:29Received by/Signature: [Signature]Date/Time: 12/10/24 16:2412/10/24 1624

E-mail results to

[janet.murphy@pbsusa.com](mailto:janet.murphy@pbsusa.com)

TURN AROUND TIME: Standard

LAB: Onsite Environmental

## DRINKING WATER SAMPLE DATA FORM

Sample  
No.

Location (Building/Room/Fixture)

1	TES-1-	Tap at sink in A116
2	TES-2-	Drinking Fountain - closest to front door
3	TES-3-	Drinking Fountain - closest to A106
4	TES-4-	Bubbler in B116
5	TES-5-	Tap in B116
6	TES-6-	Tap in B119
7	TES-7-	Bubbler in B119
8	TES-8-	Tap in C112
9	TES-9-	Bubbler in C112
10	TES-10-	Bubbler in D109
11	TES-11-	Tap in D109
12	TES-12-	Bubbler in D102
13	TES-13-	Tap in D102
14	TES-14-	Tap in B204
15	TES-15-	Tap in B210
16	TES-16-	Bubbler in B210
17	TES-17-	Bubbler in C203
18	TES-18-	Tap in C203



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

December 20, 2024

Janet Murphy  
PBS Engineering & Environmental  
214 E Galer Street, Suite 300  
Seattle, WA 98102

Re: Analytical Data for Project TUK002-24012914; Cascade ES  
Laboratory Reference No. 2412-129

Dear Janet:

Enclosed are the analytical results and associated quality control data for samples submitted on December 10, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister  
Project Manager

Enclosures



---

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 20, 2024  
Samples Submitted: December 10, 2024  
Laboratory Reference: 2412-129  
Project: TUK002-24012914; Cascade ES

### Case Narrative

Samples were collected on December 10, 2024 and received by the laboratory on December 10, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 20, 2024  
 Samples Submitted: December 10, 2024  
 Laboratory Reference: 2412-129  
 Project: TUK002-24012914; Cascade ES

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>CVES-1</b>					
Laboratory ID:	12-129-01					
Lead	ND	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>CVES-2</b>					
Laboratory ID:	12-129-02					
Lead	ND	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>CVES-3</b>					
Laboratory ID:	12-129-03					
Lead	ND	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>CVES-4</b>					
Laboratory ID:	12-129-04					
Lead	ND	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>CVES-5</b>					
Laboratory ID:	12-129-05					
Lead	ND	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>CVES-6</b>					
Laboratory ID:	12-129-06					
Lead	ND	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>CVES-7</b>					
Laboratory ID:	12-129-07					
Lead	ND	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>CVES-8</b>					
Laboratory ID:	12-129-08					
Lead	ND	2.5	EPA 200.8		12-18-24	



Date of Report: December 20, 2024  
 Samples Submitted: December 10, 2024  
 Laboratory Reference: 2412-129  
 Project: TUK002-24012914; Cascade ES

**DRINKING WATER LEAD  
 EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>CVES-9</b>					
Laboratory ID:	12-129-09					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>CVES-10</b>					
Laboratory ID:	12-129-10					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>CVES-11</b>					
Laboratory ID:	12-129-11					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>CVES-12</b>					
Laboratory ID:	12-129-12					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>CVES-13</b>					
Laboratory ID:	12-129-13					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>CVES-14</b>					
Laboratory ID:	12-129-14					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>CVES-15</b>					
Laboratory ID:	12-129-15					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	
<b>Client ID:</b>	<b>CVES-16</b>					
Laboratory ID:	12-129-16					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	



Date of Report: December 20, 2024  
Samples Submitted: December 10, 2024  
Laboratory Reference: 2412-129  
Project: TUK002-24012914; Cascade ES

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CVES-17					
Laboratory ID:	12-129-17					
Lead	ND	2.5	EPA 200.8		12-18-24	



Date of Report: December 20, 2024  
 Samples Submitted: December 10, 2024  
 Laboratory Reference: 2412-129  
 Project: TUK002-24012914; Cascade ES

**DRINKING WATER LEAD  
 EPA 200.8  
 QUALITY CONTROL**

Matrix: Water

Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB1218DW3					
Lead	ND	1.0	EPA 200.8		12-18-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	12-137-02							
	ORIG	DUP						
Lead	ND	ND	NA	NA	NA	NA	NA	20

**MATRIX SPIKES**

Laboratory ID:	12-137-02									
	MS	MSD	MS	MSD		MS	MSD			
Lead	189	192	200	200	ND	95	96	75-125	2	20







### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





## LABORATORY CHAIN OF CUSTODY

12-129

Project: Tukwila 2024 Drinking Water Testing District WideProject #: TUK002-24012914Sampling Site: Cascade ESAnalysis requested: Lead in Drinking WaterDate: 12/10/2024Relinquished by/Signature: Janet MurphyDate/Time: 12/10/24 / 13:29Received by/Signature: [Signature]Date/Time: 12/10/24 / 16:2412/10/24 1624

E-mail results to

[janet.murphy@pbsusa.com](mailto:janet.murphy@pbsusa.com)

TURN AROUND TIME: Standard

LAB: Onsite Environmental

## DRINKING WATER SAMPLE DATA FORM

Sample  
No.

Location (Building/Room/Fixture)

- |    |          |                             |
|----|----------|-----------------------------|
| 1  | CVES -1  | Tap at Sink B107            |
| 2  | CVES -2  | Drinking Fountain in Gym E. |
| 3  | CVES -3  | Drinking Fountain in Gym W. |
| 4  | CVES -4  | Tap in Infirmary A110       |
| 5  | CVES -5  | Tap in Staff Lunch Rm. A104 |
| 6  | CVES -6  | Bubbler in Rm. C104         |
| 7  | CVES -7  | Tap in Rm. C104             |
| 8  | CVES -8  | Bubbler in Rm E101          |
| 9  | CVES -9  | Tap in Rm E101              |
| 10 | CVES -10 | Tap at sink in F103         |
| 11 | CVES -11 | Tap at sink W. Rm 120       |
| 12 | CVES -12 | Tap at sink E. Rm 120       |
| 13 | CVES -13 | Bubbler in Rm D102          |
| 14 | CVES -14 | Tap in Rm D102              |
| 15 | CVES -15 | Bubbler in Rm D103          |
| 16 | CVES -16 | Tap in Rm D103              |
| 17 | CVES -17 | Bubbler in Rm E120          |



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

December 31, 2024

Janet Murphy  
PBS Engineering & Environmental  
214 E Galer Street, Suite 300  
Seattle, WA 98102

Re: Analytical Data for Project TUK002-24012914  
Laboratory Reference No. 2412-240

Dear Janet:

Enclosed are the analytical results and associated quality control data for samples submitted on December 12, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister  
Project Manager

Enclosures



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OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 31, 2024  
Samples Submitted: December 12, 2024  
Laboratory Reference: 2412-240  
Project: TUK002-24012914

### Case Narrative

Samples were collected on December 12, 2024 and received by the laboratory on December 13, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 31, 2024  
 Samples Submitted: December 12, 2024  
 Laboratory Reference: 2412-240  
 Project: TUK002-24012914

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: SMS-1</b>						
Laboratory ID: 12-240-01						
Lead	ND	2.5	EPA 200.8		12-30-24	
<b>Client ID: SMS-2</b>						
Laboratory ID: 12-240-02						
Lead	ND	2.5	EPA 200.8		12-30-24	
<b>Client ID: SMS-3</b>						
Laboratory ID: 12-240-03						
Lead	2.8	2.5	EPA 200.8		12-30-24	
<b>Client ID: SMS-4</b>						
Laboratory ID: 12-240-04						
Lead	ND	2.5	EPA 200.8		12-30-24	
<b>Client ID: SMS-5</b>						
Laboratory ID: 12-240-05						
Lead	ND	2.5	EPA 200.8		12-30-24	
<b>Client ID: SMS-6</b>						
Laboratory ID: 12-240-06						
Lead	2.9	2.5	EPA 200.8		12-30-24	
<b>Client ID: SMS-7</b>						
Laboratory ID: 12-240-07						
Lead	ND	2.5	EPA 200.8		12-30-24	
<b>Client ID: SMS-8</b>						
Laboratory ID: 12-240-08						
Lead	ND	2.5	EPA 200.8		12-30-24	



Date of Report: December 31, 2024  
 Samples Submitted: December 12, 2024  
 Laboratory Reference: 2412-240  
 Project: TUK002-24012914

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>SMS-9</b>					
Laboratory ID:	12-240-09					
Lead	<b>5.8</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-10</b>					
Laboratory ID:	12-240-10					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-11</b>					
Laboratory ID:	12-240-11					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-12</b>					
Laboratory ID:	12-240-12					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-13</b>					
Laboratory ID:	12-240-13					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-14</b>					
Laboratory ID:	12-240-14					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-15</b>					
Laboratory ID:	12-240-15					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-16</b>					
Laboratory ID:	12-240-16					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	



Date of Report: December 31, 2024  
 Samples Submitted: December 12, 2024  
 Laboratory Reference: 2412-240  
 Project: TUK002-24012914

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>SMS-17</b>					
Laboratory ID:	12-240-17					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-18</b>					
Laboratory ID:	12-240-18					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-19</b>					
Laboratory ID:	12-240-19					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-20</b>					
Laboratory ID:	12-240-20					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-21</b>					
Laboratory ID:	12-240-21					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-22</b>					
Laboratory ID:	12-240-22					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-23</b>					
Laboratory ID:	12-240-23					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-24</b>					
Laboratory ID:	12-240-24					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	



Date of Report: December 31, 2024  
 Samples Submitted: December 12, 2024  
 Laboratory Reference: 2412-240  
 Project: TUK002-24012914

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>SMS-25</b>					
Laboratory ID:	12-240-25					
Lead	<b>3.2</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-26</b>					
Laboratory ID:	12-240-26					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-27</b>					
Laboratory ID:	12-240-27					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-28</b>					
Laboratory ID:	12-240-28					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-29</b>					
Laboratory ID:	12-240-29					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-30</b>					
Laboratory ID:	12-240-30					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-31</b>					
Laboratory ID:	12-240-31					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	
<b>Client ID:</b>	<b>SMS-32</b>					
Laboratory ID:	12-240-32					
Lead	<b>ND</b>	2.5	EPA 200.8		12-30-24	





Date of Report: December 31, 2024  
Samples Submitted: December 12, 2024  
Laboratory Reference: 2412-240  
Project: TUK002-24012914

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SMS-33					
Laboratory ID:	12-240-33					
Lead	ND	2.5	EPA 200.8		12-30-24	



Date of Report: December 31, 2024  
 Samples Submitted: December 12, 2024  
 Laboratory Reference: 2412-240  
 Project: TUK002-24012914

**DRINKING WATER LEAD  
 EPA 200.8  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB1230DW1					
Lead	ND	1.0	EPA 200.8		12-30-24	
Laboratory ID:	MB1230DW2					
Lead	ND	1.0	EPA 200.8		12-30-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	12-240-02							
	ORIG	DUP						
Lead	ND	ND	NA	NA	NA	NA	NA	20
Laboratory ID:	12-298-01							
	ORIG	DUP						
Lead	ND	ND	NA	NA	NA	NA	NA	20

**MATRIX SPIKES**

Laboratory ID:	12-240-02									
	MS	MSD	MS	MSD		MS	MSD			
Lead	184	182	200	200	ND	92	91	75-125	1	20
Laboratory ID:	12-298-01									
	MS	MSD	MS	MSD		MS	MSD			
Lead	80.6	82.0	80.0	80.0	ND	101	103	75-125	2	20





### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





## LABORATORY CHAIN OF CUSTODY

12-240

Project: Tukwila 2024 Drinking Water Testing District WideProject #: TUK002-24012914Sampling Site: Showalter MSAnalysis requested: Lead in Drinking WaterDate: 12/12/2024Relinquished by/Signature: Janet MurphyDate/Time: 12/12/24Received by/Signature: [Signature]Date/Time: 12/13/24 1:500

E-mail results to

[janet.murphy@pbsusa.com](mailto:janet.murphy@pbsusa.com)

TURN AROUND TIME: Standard

LAB: Onsite Environmental

## DRINKING WATER SAMPLE DATA FORM

Sample No.	Location (Building/Room/Fixture)
1 SMS-1	Drinking Fountain (lower) between (A137-A151) in Corridor
2 SMS-2	Drinking Fountain (lower) between (A137-A151) in Corridor
3 SMS-3	B101 Tap at Sink
4 SMS-4	A175 Bubbler at Sink
5 SMS-5	A175 Tap at Sink
6 SMS-6	A170 Bubbler at Sink
7 SMS-7	A170 Tap at Sink
8 SMS-8	Drinking Fountain in Corridor at C
9 SMS-9	kitchen - Prep Sink
10 SMS-10	kitchen - Prep Sink
11 SMS-11	kitchen - Pot filler
12 SMS-12	kitchen - Pot filler
13 SMS-13	A124 Tap at Sink
14 SMS-14	B104 Tap at Sink 1
15 SMS-15	B211 Tap at Sink Prep Sink 1
16 SMS-16	B211 Tap at Sink Prep Sink 2
17 SMS-17	B211 Tap at Sink Prep Sink 3





14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

December 24, 2024

Janet Murphy  
PBS Engineering & Environmental  
214 E Galer Street, Suite 300  
Seattle, WA 98102

Re: Analytical Data for Project TUK002-24012914; Foster HS  
Laboratory Reference No. 2412-181

Dear Janet:

Enclosed are the analytical results and associated quality control data for samples submitted on December 12, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister  
Project Manager

Enclosures



---

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 24, 2024  
Samples Submitted: December 12, 2024  
Laboratory Reference: 2412-181  
Project: TUK002-24012914; Foster HS

### Case Narrative

Samples were collected on December 11, 2024 and received by the laboratory on December 12, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 24, 2024  
 Samples Submitted: December 12, 2024  
 Laboratory Reference: 2412-181  
 Project: TUK002-24012914; Foster HS

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>FHS-1</b>					
Laboratory ID:	12-181-01					
Lead	ND	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-2</b>					
Laboratory ID:	12-181-02					
Lead	ND	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-3</b>					
Laboratory ID:	12-181-03					
Lead	ND	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-4</b>					
Laboratory ID:	12-181-04					
Lead	ND	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-5</b>					
Laboratory ID:	12-181-05					
Lead	2.5	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-6</b>					
Laboratory ID:	12-181-06					
Lead	ND	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-7</b>					
Laboratory ID:	12-181-07					
Lead	2.6	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-8</b>					
Laboratory ID:	12-181-08					
Lead	ND	2.5	EPA 200.8		12-24-24	





Date of Report: December 24, 2024  
 Samples Submitted: December 12, 2024  
 Laboratory Reference: 2412-181  
 Project: TUK002-24012914; Foster HS

**DRINKING WATER LEAD  
 EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>FHS-9</b>					
Laboratory ID:	12-181-09					
Lead	<b>ND</b>	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-10</b>					
Laboratory ID:	12-181-10					
Lead	<b>ND</b>	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-11</b>					
Laboratory ID:	12-181-11					
Lead	<b>ND</b>	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-12</b>					
Laboratory ID:	12-181-12					
Lead	<b>ND</b>	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-13</b>					
Laboratory ID:	12-181-13					
Lead	<b>ND</b>	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-14</b>					
Laboratory ID:	12-181-14					
Lead	<b>ND</b>	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-15</b>					
Laboratory ID:	12-181-15					
Lead	<b>ND</b>	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-16</b>					
Laboratory ID:	12-181-16					
Lead	<b>ND</b>	2.5	EPA 200.8		12-24-24	



Date of Report: December 24, 2024  
 Samples Submitted: December 12, 2024  
 Laboratory Reference: 2412-181  
 Project: TUK002-24012914; Foster HS

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>FHS-17</b>					
Laboratory ID:	12-181-17					
Lead	ND	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-18</b>					
Laboratory ID:	12-181-18					
Lead	ND	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-19</b>					
Laboratory ID:	12-181-19					
Lead	ND	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-20</b>					
Laboratory ID:	12-181-20					
Lead	ND	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-21</b>					
Laboratory ID:	12-181-21					
Lead	ND	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-22</b>					
Laboratory ID:	12-181-22					
Lead	ND	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-23</b>					
Laboratory ID:	12-181-23					
Lead	ND	2.5	EPA 200.8		12-24-24	
<b>Client ID:</b>	<b>FHS-24</b>					
Laboratory ID:	12-181-24					
Lead	ND	2.5	EPA 200.8		12-24-24	



Date of Report: December 24, 2024  
 Samples Submitted: December 12, 2024  
 Laboratory Reference: 2412-181  
 Project: TUK002-24012914; Foster HS

**DRINKING WATER LEAD  
 EPA 200.8  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB1224DW2					
Lead	ND	1.0	EPA 200.8		12-24-24	
Laboratory ID:	MB1224DW3					
Lead	ND	1.0	EPA 200.8		12-24-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	12-181-01							
	ORIG	DUP						
Lead	ND	ND	NA	NA	NA	NA	NA	20
Laboratory ID:	12-181-21							
	ORIG	DUP						
Lead	ND	ND	NA	NA	NA	NA	NA	20

**MATRIX SPIKES**

Laboratory ID:	12-181-01									
	MS	MSD	MS	MSD		MS	MSD			
Lead	188	185	200	200	ND	94	92	75-125	2	20
Laboratory ID:	12-181-21									
	MS	MSD	MS	MSD		MS	MSD			
Lead	189	184	200	200	ND	95	92	75-125	3	20





### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





## LABORATORY CHAIN OF CUSTODY

12-181

Project: Tukwila 2024 Drinking Water Testing District WideProject #: TUK002-24012914Sampling Site: Foster HSAnalysis requested: Lead in Drinking WaterDate: 12/11/2024Relinquished by/Signature: Janet MurphyDate/Time: 12/11/24Received by/Signature: [Signature]Date/Time: 12/12/24 /1500

E-mail results to

[janet.murphy@pbsusa.com](mailto:janet.murphy@pbsusa.com)

TURN AROUND TIME: Standard

LAB: Onsite Environmental

## DRINKING WATER SAMPLE DATA FORM

Sample  
No.

Location

1	FHS -1	Drinking Fountain 313 Entry Way
2	FHS -2	Drinking Fountain 306 outside Gym
3	FHS -3	Drinking Fountain at Gym Foyer Corridor 303
4	FHS -4	kitchen 337 Tap at Hand Wash Sink at Door
5	FHS -5	kitchen 337 Tap at Hand Wash Sink at Dishwasher
6	FHS -6	kitchen 337 Dish Wash Sink
7	FHS -7	kitchen 337 B Tap at Sink
8	FHS -8	kitchen 300E Tap at Sink
9	FHS -9	Tap in Health Rm at Sink
10	FHS -10	Rm 102 kitchen sink
11	FHS -11	Drinking Fountain Corridor 114
12	FHS -12	Bottle Filler at Fountain Corridor 114
13	FHS -13	Room 148 Tap at Sink
14	FHS -14	Tap at Sink 1 Rm 139
15	FHS -15	Tap at Sink 2 Rm 139
16	FHS -16	Tap at Sink 4 (dishwash sink) Rm 139
17	FHS -17-	Tap at Sink 3 Rm 139
18	FHS -18	Drinking Fountain in Rm 319
19	FHS -19-	Tap in Staff Lounge 211





**OnSite  
Environmental Inc.**

14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

December 24, 2024

Janet Murphy  
PBS Engineering & Environmental  
214 E Galer Street, Suite 300  
Seattle, WA 98102

Re: Analytical Data for Project TUK002-24012914; Administration Center  
Laboratory Reference No. 2412-182

Dear Janet:

Enclosed are the analytical results and associated quality control data for samples submitted on December 12, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister  
Project Manager

Enclosures



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OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

December 24, 2024

Janet Murphy  
PBS Engineering & Environmental  
214 E Galer Street, Suite 300  
Seattle, WA 98102

Re: Analytical Data for Project TUK002-24012914; Service Center  
Laboratory Reference No. 2412-179

Dear Janet:

Enclosed are the analytical results and associated quality control data for samples submitted on December 12, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal line extending to the right.

David Baumeister  
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.



Date of Report: December 24, 2024  
Samples Submitted: December 12, 2024  
Laboratory Reference: 2412-179  
Project: TUK002-24012914; Service Center

### Case Narrative

Samples were collected on December 11, 2024 and received by the laboratory on December 12, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 24, 2024  
Samples Submitted: December 12, 2024  
Laboratory Reference: 2412-179  
Project: TUK002-24012914; Service Center

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-1					
Laboratory ID:	12-179-01					
Lead	ND	2.5	EPA 200.8		12-24-24	



Date of Report: December 24, 2024  
 Samples Submitted: December 12, 2024  
 Laboratory Reference: 2412-179  
 Project: TUK002-24012914; Service Center

**DRINKING WATER LEAD  
 EPA 200.8  
 QUALITY CONTROL**

Matrix: Water

Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB1224DW3					
Lead	ND	1.0	EPA 200.8		12-24-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	12-181-21							
	ORIG	DUP						
Lead	ND	ND	NA	NA	NA	NA	NA	20

**MATRIX SPIKES**

Laboratory ID:	12-181-21									
	MS	MSD	MS	MSD		MS	MSD			
Lead	189	184	200	200	ND	95	92	75-125	3	20





### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





Date of Report: December 24, 2024  
Samples Submitted: December 12, 2024  
Laboratory Reference: 2412-182  
Project: TUK002-24012914; Administration Center

### Case Narrative

Samples were collected on December 12, 2024 and received by the laboratory on December 12, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 24, 2024  
 Samples Submitted: December 12, 2024  
 Laboratory Reference: 2412-182  
 Project: TUK002-24012914; Administration Center

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>AC-1</b>					
Laboratory ID:	12-182-01					
Lead	<b>ND</b>	2.5	EPA 200.8		12-24-24	

<b>Client ID:</b>	<b>AC-2</b>					
Laboratory ID:	12-182-02					
Lead	<b>ND</b>	2.5	EPA 200.8		12-24-24	

<b>Client ID:</b>	<b>AC-3</b>					
Laboratory ID:	12-182-03					
Lead	<b>ND</b>	2.5	EPA 200.8		12-24-24	



Date of Report: December 24, 2024  
 Samples Submitted: December 12, 2024  
 Laboratory Reference: 2412-182  
 Project: TUK002-24012914; Administration Center

**DRINKING WATER LEAD  
 EPA 200.8  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB1224DW3					
Lead	ND	1.0	EPA 200.8		12-24-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	12-181-21							
	ORIG	DUP						
Lead	ND	ND	NA	NA	NA	NA	NA	20

**MATRIX SPIKES**

Laboratory ID:	12-181-21									
	MS	MSD	MS	MSD		MS	MSD			
Lead	189	184	200	200	ND	95	92	75-125	3	20







### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference







14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

December 20, 2024

Janet Murphy  
PBS Engineering & Environmental  
214 E Galer Street, Suite 300  
Seattle, WA 98102

Re: Analytical Data for Project TUK002-24012914; Transportation Center  
Laboratory Reference No. 2412-128

Dear Janet:

Enclosed are the analytical results and associated quality control data for samples submitted on December 10, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



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OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 20, 2024  
Samples Submitted: December 10, 2024  
Laboratory Reference: 2412-128  
Project: TUK002-24012914; Transportation Center

### Case Narrative

Samples were collected on December 10, 2024 and received by the laboratory on December 10, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 20, 2024  
Samples Submitted: December 10, 2024  
Laboratory Reference: 2412-128  
Project: TUK002-24012914; Transportation Center

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>TC-1</b>					
Laboratory ID:	12-128-01					
Lead	<b>ND</b>	2.5	EPA 200.8		12-18-24	



Date of Report: December 20, 2024  
 Samples Submitted: December 10, 2024  
 Laboratory Reference: 2412-128  
 Project: TUK002-24012914; Transportation Center

**DRINKING WATER LEAD  
 EPA 200.8  
 QUALITY CONTROL**

Matrix: Water

Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB1218DW4					
Lead	ND	1.0	EPA 200.8		12-18-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	12-130-01							
	ORIG	DUP						
Lead	ND	ND	NA	NA	NA	NA	NA	20

**MATRIX SPIKES**

Laboratory ID:	12-130-01									
	MS	MSD	MS	MSD		MS	MSD			
Lead	187	196	200	200	ND	93	98	75-125	5	20





### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



**LABORATORY CHAIN OF CUSTODY**  
**12-128**

**Project:** Tukwila 2024 Drinking Water Testing District Wide

**Project #: TUK002-24012914**

**Sampling Site:** Transportation Center

Analysis requested: Lead in Drinking Water

**Date:** \_\_12/10/2024

Relinq'd by/Signature: Janet Murphy

Date/Time: 12/10/24 13:29

Received by/Signature: [Signature]

Date/Time: 12/10/24 / 16:24 ✓  
12/10/24 1624

**E-mail results to**

janet.murphy@pbsusa.com

**TURN AROUND TIME:** Standard

**LAB:** Onsite Environmental

[illegible]





14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

December 24, 2024

Janet Murphy  
PBS Engineering & Environmental  
214 E Galer Street, Suite 300  
Seattle, WA 98102

Re: Analytical Data for Project TUK002-24012914; Neudorf Stadium  
Laboratory Reference No. 2412-180

Dear Janet:

Enclosed are the analytical results and associated quality control data for samples submitted on December 12, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal line extending to the right.

David Baumeister  
Project Manager

Enclosures



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OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 24, 2024  
Samples Submitted: December 12, 2024  
Laboratory Reference: 2412-180  
Project: TUK002-24012914; Neudorf Stadium

### **Case Narrative**

Samples were collected on December 11, 2024 and received by the laboratory on December 12, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 24, 2024  
 Samples Submitted: December 12, 2024  
 Laboratory Reference: 2412-180  
 Project: TUK002-24012914; Neudorf Stadium

**DRINKING WATER LEAD**  
**EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-1</b>					
Laboratory ID:	12-180-01					
Lead	<b>2.5</b>	2.5	EPA 200.8		12-24-24	

<b>Client ID:</b>	<b>NS-2</b>					
Laboratory ID:	12-180-02					
Lead	<b>ND</b>	2.5	EPA 200.8		12-24-24	

<b>Client ID:</b>	<b>NS-3</b>					
Laboratory ID:	12-180-03					
Lead	<b>ND</b>	2.5	EPA 200.8		12-24-24	



Date of Report: December 24, 2024  
 Samples Submitted: December 12, 2024  
 Laboratory Reference: 2412-180  
 Project: TUK002-24012914; Neudorf Stadium

**DRINKING WATER LEAD  
 EPA 200.8  
 QUALITY CONTROL**

Matrix: Water

Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>METHOD BLANK</b>						
Laboratory ID:	MB1224DW3					
Lead	<b>ND</b>	1.0	EPA 200.8		12-24-24	

<b>Analyte</b>	<b>Result</b>	<b>Spike Level</b>	<b>Source Result</b>	<b>Percent Recovery</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>RPD Limit</b>	<b>Flags</b>
<b>DUPLICATE</b>								
Laboratory ID:	12-181-21							
	ORIG	DUP						
Lead	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	NA	20

**MATRIX SPIKES**

Laboratory ID:	12-181-21									
	MS	MSD	MS	MSD		MS	MSD			
Lead	<b>189</b>	<b>184</b>	200	200	ND	<b>95</b>	<b>92</b>	75-125	3	20





### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





DRINKING WATER SAMPLE INVENTORY

<u>PBS Sample #</u>	<u>Sample Location</u>	<u>Lab Result (µg/L (ppb))</u>	<u>Lab</u>
TES - 1	Corridor 102 Upper Drinking Fountain	ND	OnSite Environmental, Inc.
TES - 2	Corridor 102 Lower Drinking Fountain	ND	OnSite Environmental, Inc.
TES - 3	Kitchen Tap at Hank Sink	5	OnSite Environmental, Inc.
TES - 4	Kitchen Tap at Prep Sink	ND	OnSite Environmental, Inc.
TES - 5	Kitchen Tap at Wash Sink	16	OnSite Environmental, Inc.
TES - 6	Kitchen Tap at Rinse Sink	5.1	OnSite Environmental, Inc.
TES - 7	Room 142 Tap at Sink	ND	OnSite Environmental, Inc.
TES - 8	Room 142 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
TES - 9	ECEAP Room 153 Tap at Low Sink/Wheelchair Accessible	ND	OnSite Environmental, Inc.
TES - 10	ECEAP Room 153 Tap at Sink	ND	OnSite Environmental, Inc.
TES - 11	ECEAP Room 153 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
TES - 12	Preschool Room Tap at Sink	ND	OnSite Environmental, Inc.
TES - 13	Preschool Room Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
TES - 14	Room 168 Tap at Sink	ND	OnSite Environmental, Inc.
TES - 15	Room168 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.

µg/L: Micrograms per Liter  
ND: None Detected  
ppb: Parts per Billion

**Thorndyke ES  
Tukwila School District**

**PBS Engineering and Environmental LLC  
PBS Project 24012914**

<u>PBS Sample #</u>	<u>Sample Location</u>	<u>Lab Result (µg/L (ppb))</u>	<u>Lab</u>
TES - 16	Room 166 Tap at Sink	ND	OnSite Environmental, Inc.
TES - 17	Room 166 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
TES - 18	Room 209 Tap at Sink	ND	OnSite Environmental, Inc.
TES - 19	Room 209 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
TES - 20	Room 217 Tap at Sink	ND	OnSite Environmental, Inc.
TES - 21	Room 217 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
TES - 22	Staff Lounge Room 238 Tap at Sink	ND	OnSite Environmental, Inc.
TES - 23	Staff Lounge Room 238 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
TES - 24	Room 230 Tap at Sink	ND	OnSite Environmental, Inc.

**µg/L: Micrograms per Liter**  
**ND: None Detected**  
**ppb: Parts per Billion**



**DRINKING WATER SAMPLE INVENTORY**

<b><u>PBS Sample #</u></b>	<b><u>Sample Location</u></b>	<b><u>Lab Result (µg/L (ppb))</u></b>	<b><u>Lab</u></b>
TES - 1	Room A116 Tap at Sink	ND	OnSite Environmental, Inc.
TES - 2	Drinking Fountain in Foyer Close to the Front Door	ND	OnSite Environmental, Inc.
TES - 3	Drinking Fountain in Hall Closes to Room A106	ND	OnSite Environmental, Inc.
TES - 4	Room B116 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
TES - 5	Room B116 Tap at Sink	ND	OnSite Environmental, Inc.
TES - 6	Room B119 Tap at Sink	ND	OnSite Environmental, Inc.
TES - 7	Room B119 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
TES - 8	Room C112 Tap at Sink	ND	OnSite Environmental, Inc.
TES - 9	Room C112 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
TES - 10	Room D109 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
TES - 11	Room D109 Tap at Sink	ND	OnSite Environmental, Inc.
TES - 12	D102 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
TES - 13	Room D102 Tap at Sink	ND	OnSite Environmental, Inc.
TES - 14	Room B204 Tap at Sink	ND	OnSite Environmental, Inc.
TES - 15	Room B216 Tap at Sink	ND	OnSite Environmental, Inc.

**µg/L: Micrograms per Liter**  
**ND: None Detected**  
**ppb: Parts per Billion**

**Tukwila ES  
Tukwila School District**

**PBS Engineering and Environmental LLC  
PBS Project 24012914**

<u>PBS Sample #</u>	<u>Sample Location</u>	<u>Lab Result (µg/L (ppb))</u>	<u>Lab</u>
TES - 16	Room B210 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
TES - 17	Room C203 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
TES - 18	Room C203 Tap at Sink	ND	OnSite Environmental, Inc.

**DRINKING WATER SAMPLE INVENTORY**

<b><u>PBS Sample #</u></b>	<b><u>Sample Location</u></b>	<b><u>Lab Result (µg/L (ppb))</u></b>	<b><u>Lab</u></b>
CVES -1	Room B107 Tap at Sink	ND	OnSite Environmental, Inc.
CVES -2	Gym East Drinking Fountain	ND	OnSite Environmental, Inc.
CVES -3	Gym West Drinking Fountain	ND	OnSite Environmental, Inc.
CVES -4	Infirmery A110 Tap at Sink	ND	OnSite Environmental, Inc.
CVES -5	Staff Lunch Room A104 Tap at Sink	ND	OnSite Environmental, Inc.
CVES -6	Room C104 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
CVES -7	Room C104 Tap at Sink	ND	OnSite Environmental, Inc.
CVES -8	Room E101 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
CVES -9	Room E101 Tap at Sink	ND	OnSite Environmental, Inc.
CVES -10	Room F103 Tap at Sink	ND	OnSite Environmental, Inc.
CVES -11	Room 120 Tap at West Sink	ND	OnSite Environmental, Inc.
CVES -12	Room 120 Tap at East Sink	ND	OnSite Environmental, Inc.
CVES -13	Room D102 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
CVES -14	Room 102 Tap at Sink	ND	OnSite Environmental, Inc.
CVES -15	Room D103 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.

**µg/L: Micrograms per Liter**  
**ND: None Detected**  
**ppb: Parts per Billion**

**Cascade View ES  
Tukwila School District**

**PBS Engineering and Environmental LLC  
PBS Project 24012914**

<u>PBS Sample #</u>	<u>Sample Location</u>	<u>Lab Result (µg/L (ppb))</u>	<u>Lab</u>
CVES -16	Room D103 Tap in Sink	ND	OnSite Environmental, Inc.
CVES -17	Room E120 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.

DRINKING WATER SAMPLE INVENTORY

<u>PBS Sample #</u>	<u>Sample Location</u>	<u>Lab Result (µg/L (ppb))</u>	<u>Lab</u>
SMS - 1	Drinking Fountain Bubbler (lower) Between (A137 and A151) in Corridor	ND	OnSite Environmental, Inc.
SMS - 2	Drinking Fountain Bubbler (lower) Between (A137 and A151) in Corridor	ND	OnSite Environmental, Inc.
SMS - 3	Room B101 Tap at Sink	2.8	OnSite Environmental, Inc.
SMS - 4	Room A175 Bubbler at Sink	ND	OnSite Environmental, Inc.
SMS - 5	Room A175 Tap at Sink	ND	OnSite Environmental, Inc.
SMS - 6	Room A170 Bubbler at Sink	2.9	OnSite Environmental, Inc.
SMS - 7	Room A170 Tap at Sink	ND	OnSite Environmental, Inc.
SMS - 8	Drinking Fountain Bubbler in Corridor at Room C101	ND	OnSite Environmental, Inc.
SMS - 9	Kitchen Tap at Prep Sink	5.8	OnSite Environmental, Inc.
SMS - 10	Kitchen Tap at Prep Sink	ND	OnSite Environmental, Inc.
SMS - 11	Kitchen Pot Filler #1	ND	OnSite Environmental, Inc.
SMS - 12	Kitchen Pot Filler #2	ND	OnSite Environmental, Inc.
SMS - 13	Room A124 Tap at Sink	ND	OnSite Environmental, Inc.

µg/L: Micrograms per Liter  
ND: None Detected  
ppb: Parts per Billion

**Showalter MS  
Tukwila School District**

**PBS Engineering and Environmental LLC  
PBS Project 24012914**

<u>PBS Sample #</u>	<u>Sample Location</u>	<u>Lab Result (µg/L (ppb))</u>	<u>Lab</u>
SMS - 14	Room B104 Tap at Sink 1	ND	OnSite Environmental, Inc.
SMS - 15	Room B211 Tap at Prep Sink 1	ND	OnSite Environmental, Inc.
SMS - 16	Room B211 Tap at Prep Sink 2	ND	OnSite Environmental, Inc.
SMS - 17	Room B211 Tap at Prep Sink 3	ND	OnSite Environmental, Inc.
SMS - 18	Room B204 Tap at Sink	ND	OnSite Environmental, Inc.
SMS - 19	Room B204 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
SMS - 20	Room A208 Tap at Sink	ND	OnSite Environmental, Inc.
SMS - 21	Room A208 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
SMS - 22	Room A229 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
SMS - 23	Room A229 Tap at Sink	ND	OnSite Environmental, Inc.
SMS - 24	Corridor A203 Upper Drinking Fountain	ND	OnSite Environmental, Inc.
SMS - 25	Corridor A203 Lower Drinking Fountain	3.2	OnSite Environmental, Inc.
SMS - 26	Gym Bottle Filler at Drinking Fountain	ND	OnSite Environmental, Inc.
SMS - 27	Room B104 Tap at Sink 2	ND	OnSite Environmental, Inc.

**µg/L: Micrograms per Liter**  
**ND: None Detected**  
**ppb: Parts per Billion**

**Showalter MS  
Tukwila School District**

**PBS Engineering and Environmental LLC  
PBS Project 24012914**

<u>PBS Sample #</u>	<u>Sample Location</u>	<u>Lab Result (µg/L (ppb))</u>	<u>Lab</u>
SMS - 28	Room B104 Tap at Sink 3	ND	OnSite Environmental, Inc.
SMS - 29	Room B104 Tap at Sink 4	ND	OnSite Environmental, Inc.
SMS - 30	Room B104 Tap at Sink 5	ND	OnSite Environmental, Inc.
SMS - 31	Room B104 Tap at Sink 6	ND	OnSite Environmental, Inc.
SMS - 32	Room B104 Tap at Sink 7	ND	OnSite Environmental, Inc.
SMS - 33	Room B104 Tap at Sink 8	ND	OnSite Environmental, Inc.

µg/L: Micrograms per Liter  
ND: None Detected  
ppb: Parts per Billion

**DRINKING WATER SAMPLE INVENTORY**

<b><u>PBS Sample #</u></b>	<b><u>Sample Location</u></b>	<b><u>Lab Result (µg/L (ppb))</u></b>	<b><u>Lab</u></b>
FHS - 1	Drinking Fountain Corridor 313 at Entryway	ND	OnSite Environmental, Inc.
FHS - 2	Drinking Fountain Corridor 306 Outside Gym	ND	OnSite Environmental, Inc.
FHS - 3	Drinking Fountain Corridor 303 at Gym Foyer	ND	OnSite Environmental, Inc.
FHS - 4	Kitchen Room 337 Tap at Hand Wash Sink at Door	ND	OnSite Environmental, Inc.
FHS - 5	Kitchen Room 337 Tap at Hand Wash Sink at Dishwasher	2.5	OnSite Environmental, Inc.
FHS - 6	Kitchen Room 337 Tap at Dish Wash Sink	ND	OnSite Environmental, Inc.
FHS - 7	Kitchen Room 337B Tap at Sink	2.6	OnSite Environmental, Inc.
FHS - 8	Kitchen Room 300E Tap at Sink	ND	OnSite Environmental, Inc.
FHS - 9	Health Room Tap at Sink	ND	OnSite Environmental, Inc.
FHS - 10	Room 102 Tap at Kitchen Sink	ND	OnSite Environmental, Inc.
FHS - 11	Drinking Fountain in Corridor 114	ND	OnSite Environmental, Inc.
FHS - 12	Bottle Filler at Drinking Fountain in Corridor 114	ND	OnSite Environmental, Inc.
FHS - 13	Room 148, Tap at Sink	ND	OnSite Environmental, Inc.
FHS - 14	Room 139 Tap at Sink 1	ND	OnSite Environmental, Inc.
FHS - 15	Room 139 Tap at Sink 2	ND	OnSite Environmental, Inc.

**µg/L: Micrograms per Liter**  
**ND: None Detected**  
**ppb: Parts per Billion**



**Foster High School  
Tukwila School District**

**PBS Engineering and Environmental LLC  
PBS Project 24012914**

<b><u>PBS Sample #</u></b>	<b><u>Sample Location</u></b>	<b><u>Lab Result (µg/L (ppb))</u></b>	<b><u>Lab</u></b>
FHS - 16	Room 139 Tap at Sink 4 (Dishwasher Sink)	ND	OnSite Environmental, Inc.
FHS - 17	Room 139 Tap at Sink 3	ND	OnSite Environmental, Inc.
FHS - 18	Room 319 Drinking Fountain at Sink	ND	OnSite Environmental, Inc.
FHS - 19	Staff Lounge Room 211 Tap at Sink	ND	OnSite Environmental, Inc.
FHS - 20	Drinking Fountain Between Restroom 220 and 221 in Hall	ND	OnSite Environmental, Inc.
FHS - 21	Bottle Filler in Drinking Fountain Between Restroom 220 and 221 in Hall Hall	ND	OnSite Environmental, Inc.
FHS - 22	Library Work Room Tap at Sink	ND	OnSite Environmental, Inc.
FHS - 23	Room 243 Tap at Sink	ND	OnSite Environmental, Inc.
FHS - 24	Room 313 Water Bottle Filler in Drinking Fountain	ND	OnSite Environmental, Inc.

**µg/L: Micrograms per Liter**  
**ND: None Detected**  
**ppb: Parts per Billion**

DRINKING WATER SAMPLE INVENTORY

<u>PBS Sample #</u>	<u>Sample Location</u>	<u>Lab Result (µg/L (ppb))</u>	<u>Lab</u>
AC-1	Lower Drinking Fountain Next to Reception Counter	ND	OnSite Environmental, Inc.
AC-2	Bottle Filler in High Drinking Fountain Next to Reception	ND	OnSite Environmental, Inc.
AC-3	Kitchen Sink Tap	ND	OnSite Environmental, Inc.

µg/L: Micrograms per Liter  
ND: None Detected  
ppb: Parts per Billion

DRINKING WATER SAMPLE INVENTORY

<u>PBS Sample #</u>	<u>Sample Location</u>	<u>Lab Result (ug/L (ppb))</u>	<u>Lab</u>
SC - 1	Tap at Kitchen Sink in Service Center	ND	OnSite Environmental, Inc.

DRINKING WATER SAMPLE INVENTORY

<u>PBS Sample #</u>	<u>Sample Location</u>	<u>Lab Result (µg/L (ppb))</u>	<u>Lab</u>
TC - 1	Employee Lounge/Break Room Tap at Sink	ND	OnSite Environmental, Inc.

DRINKING WATER SAMPLE INVENTORY

<u>PBS Sample #</u>	<u>Sample Location</u>	<u>Lab Result (µg/L (ppb))</u>	<u>Lab</u>
NS - 1	Drinking Fountain Outside Stadium Kitchen	2.5	OnSite Environmental, Inc.
NS - 2	Tap at the Small Kitchen Sink	ND	OnSite Environmental, Inc.
NS - 3	Tap at the Dish Sink/Prep Sink	ND	OnSite Environmental, Inc.

# **Appendix C**

## **Laboratory Certification**

The State of  
Department



Washington  
of Ecology

**OnSite Environmental, Inc.**  
**Redmond, WA**

has complied with provisions set forth in Chapter 173-50 WAC and is hereby recognized by the Department of Ecology as an ACCREDITED LABORATORY for the analytical parameters listed on the accompanying Scope of Accreditation.

This certificate is effective July 27, 2024 and shall expire July 26, 2025.

Witnessed under my hand on August 13, 2024.

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Rebecca Wood  
Lab Accreditation Unit Supervisor

Laboratory ID  
**C591**