

November 3, 2017

Kennewick School District No. 17
Attn: Keith Colee, Maintenance and Operations Manager
1000 West Fourth Avenue
Kennewick, Washington, 99336

**RE: Winter 2016 Drinking Water Sampling Results
Cottonwood Elementary School, 16734 Cottonwood Creek Boulevard, Kennewick,
Washington**

Dear Keith:

On Wednesday, December 21, 2016, Fulcrum Environmental Consulting, Inc. (Fulcrum) collected 21 drinking water samples for lead and copper analysis from Cottonwood Elementary School (School) located at 16734 Cottonwood Creek Boulevard in Kennewick, Washington. Initial sampling identified one fixture location with a lead concentration above guidance levels. Fulcrum returned to the School to collect samples after replacement of the fixture and and laboratory results found concentrations to be below guidance levels. Sampling was completed as part of a District-wide project and all analysis was completed by Washington State Department of Ecology (Ecology) accredited laboratories.

Summary

The purpose of initial sampling was to evaluate current drinking water quality conditions with respect to lead and copper as a result of the increased national and local interest related to lead in drinking water. The intent of sampling was to meet the requirements of the pending regulations set forth in Washington Administrative Code (WAC) 246-366A-130 and 246-366A-135¹. Consistent with the regulations, Fulcrum completed sampling at the rates of at least 50% of plumbing fixtures used regularly for drinking or cooking in elementary and preschools and at least 25% of drinking or cooking fixtures in middle schools, junior high schools, and high schools. In addition, Fulcrum sampled administrative facilities in the District at the same rate as elementary schools, of at least 50% of drinking and cooking fixtures.

Fulcrum completed initial sampling on December 21, 2016. Initial results identified one sample with a lead concentration of 25 micrograms per liter ($\mu\text{g/L}$), above the Environmental Protection Agency (EPA) action level of 15 $\mu\text{g/L}$. Upon receipt of results, the District removed the identified fixture from service pending remediation and further testing.

The fixture identified with an elevated lead concentration was replaced and preconditioned by running cold water continuously through the fixture for 24 hours, as specified in WAC 246-366A-130. Following replacement and preconditioning, Fulcrum returned to the School on January 28, 2017 and collected a

¹ Washington State Department of Health, WAC 246-366A, *The Environmental Health and Safety Standards of Primary and Secondary Schools*, <http://apps.leg.wa.gov/WAC/default.aspx?cite=246-366A>, July 26, 2016

follow-up sample to confirm the success of fixture replacement. No other fixtures of like style were replaced. Follow-up sampling yielded results below the EPA action level, confirming fixture replacement was successful. Following sampling and review of laboratory results, Fulcrum recommended, and the District elected, to return the fixtures to service. Fulcrum recommended that the District replace all fixtures of like style to those initially identified with elevated lead.

As all samples now report concentrations below lead and copper action levels, at this time Fulcrum does not recommend any additional sampling. However, consistent with industry practice and the intent of WAC 246-366A, Fulcrum recommends that the District complete re-sampling of the building within the next five years (before December 2021). Additionally, if WAC 246-366A-130 is enacted, the regulations would require testing of all remaining fixtures within two years of the effective date (July 1, 2017). See Figure 1-A and Figure 1-B in Attachment A for fixture locations and laboratory results.

Sampling Methodology

As a portion of this project, Fulcrum prepared a Sampling and Analysis Plan (SAP) intended to satisfy future initial sampling requirements under pending regulations.

For initial evaluation purposes, Fulcrum collected “first draw” samples. This “first draw” water volume consists of 250 milliliters (mL) and is intended to represent the water quality in the fixture, tubing connecting the fixture to the building piping, and potentially a portion of the building piping. If lead and copper are present, this first-draw sample typically contains the highest lead levels and indicates high copper from the associated building piping.

For most post-remediation evaluation sampling, Fulcrum collected three-part samples consisting of the first draw, “second draw”, and “third draw” water volumes. Second and third draw samples are intended to represent the water quality of building piping and plumbing components behind the fixture and the water entering the building from the water main.

As a quality control measure, Fulcrum also included a laboratory blank of distilled water and a laboratory “spike” sample with known concentrations of lead and copper at the selected action levels for the project during all sampling events. Blank and spike sample results are included in the results tables for reference.

Blank and spike samples were used to evaluate laboratory performance. The reported lead and copper concentrations of quality assurance samples provided a metric to determine accuracy of the analyses. If the reported concentration of the spike sample differed from the action level, then the spike sample concentration was used as the action level.

Field evaluation of pH and temperature of drinking water was completed during the cold water flush and immediately following sample collection on select fixtures during the initial sampling event as a general evaluation of water quality.

Sampling Activities

Fulcrum's two-part sampling process consisted of an initial site visit the prior afternoon/evening to locate and flush each water sampling location (fixture). Sample collection occurred the following morning, after the fixture sat motionless for more than eight but no less than 18 hours, typically approximately 14 hours.

Initial Sampling

On the initial visit, Fulcrum flushed cold water through each fixture selected for sampling for approximately one minute. Following the flush, each fixture was covered and secured within a plastic bag. The plastic bags were marked with signage indicating testing was in progress and the fixture should not be used. Fulcrum returned to the school eight to 18 hours later to collect the samples. Each sample consisted of the first draw collected into 250-mL unpreserved polyethylene bottles and was immediately placed on ice in a chilled cooler.

Samples collected from the initial sampling event were delivered under chain-of-custody to RJ Lee Group's Columbia Basin Analytical Laboratory (Ecology Lab ID: C859-16) in Pasco, Washington for analysis.

Fixture Replacement and Flushing

Fixtures identified with elevated lead concentrations were replaced and preconditioned by running cold water continuously through the fixture for 24 hours, as outlined in WAC 246-366A-130. Following replacement and preconditioning, Fulcrum collected follow-up samples to confirm the success of fixture replacement.

Fixtures producing elevated copper concentrations were generally identified in newer District buildings and were not associated with specific fixture styles. The relationship between building construction age and fixture styles indicates elevated copper concentrations are principally associated with construction debris in the plumbing system.

All fixtures with elevated copper were flushed aggressively by running water through the fixture at high flow with the aerator removed for approximately 30 minutes to clear the plumbing of any debris potentially causing elevated copper concentrations. Following an aggressive flush, fixtures were resampled to evaluate the effectiveness at reducing copper concentrations. The District elected to install filters, install signage indicating the fixtures should be used only for handwashing, or permanently removed fixtures that did not respond to an aggressive flush. Filtered fixtures were resampled following filter installation to verify effectiveness of the filter.

Remedial Sampling

Remedial sampling typically consisted of first, second, and third draw samples from the fixture locations and plumbing system in question. First draw samples were collected into 250 mL polyethylene bottles preserved with nitric acid. The second draw water volume consists of water collected into a 250 mL

unpreserved polyethylene container immediately following the first draw. No water was lost between collection of the first and second draw samples. The third draw water volume is a 1,000 mL sample collected into a one liter unpreserved polyethylene container after the fixture has been flushed for about three to five minutes.

Samples collected following remedial activities were shipped by common carrier under chain of custody to Fremont Analytical Laboratory (Ecology Lab ID: C910-16) in Seattle, Washington for analysis. Fremont was selected based on their availability to complete analysis on an expedited schedule.

Analytical Results

Samples from both initial and remedial sampling events were analyzed for lead and copper in drinking water by EPA Method 200.8.

Initial Sampling

Sample locations from the initial sampling event are presented in Figure 1-A and Figure 1-B in Attachment A of this letter. A site-specific sampling and analysis plan (SSSAP) that provides a building specific summary of the location, number, and sampling frequency of water fixture locations is located in Attachment B. Initial analytical results are summarized in Table 1 located in Attachment C of this letter. Laboratory analytical results from the initial sampling event are located in Attachment D of this letter.

In addition, pH and temperature data from the initial sampling event is presented in Table 2 in Attachment C of this letter.

Remedial Sampling

Sample locations from remedial sampling events are presented in Figure 1-A and Figure 1-B in Attachment A of this letter. The remedial analytical results from this project are summarized in Table 3 located in Attachment C of this letter. Laboratory analytical results from the remedial sampling event are located in Attachment E of this letter.

Discussion

Initial Sampling

Analytical results identified one sample, located in the Teacher's Lounge, with a lead concentration of 25 µg/L, above the EPA action level of 15 µg/L. No samples were identified with copper concentrations above the EPA action level of 1,300 µg/L.

Remedial Sampling

Immediately following receipt of initial sampling results, the District removed the identified fixture from service pending remediation and further testing. To remediate elevated lead concentrations, the District

replaced the identified fixture. Fulcrum returned on January 28, 2017 following fixture replacement and preconditioning to collect follow-up samples from the initially identified fixture. No other fixtures of like style were replaced. See Attachment F for a photograph layout with the identified fixture style.

Analytical results from remedial sampling indicated the fixture replacement was successful at reducing the lead concentration below the action level for the fixture in question.

Recommendations

No samples were found to contain copper concentrations above guidance levels. One initial sample contained lead above the EPA action level of 15 µg/L. The District replaced the identified fixture with elevated lead and preconditioned the fixture for 24 hours as specified in WAC 246-366A-130. Follow-up sampling demonstrated that the lead concentration was below the action level. Following fixture replacement sampling and review of laboratory results, Fulcrum recommended, and the District elected, to return the fixtures to service. Fulcrum recommends the District replace all fixtures of like style to those initially identified with elevated lead. See Attachment F for a photograph layout of the identified fixture style.

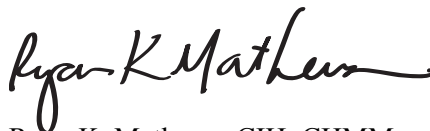
As all samples now report concentrations below lead and copper action levels, Fulcrum does not recommend any additional sampling at this time. However, consistent with industry practice and the intent of WAC 246-366A, Fulcrum recommends that the District complete re-sampling of the building within the next five years (before December 2021). Additionally, if WAC 246-366A-130 is enacted, the regulations would require testing of all remaining fixtures within two years of the effective date (July 1, 2017).

If you have any questions, please feel free to contact me at (509) 574-0839.

Sincerely,



Amanda Enbysk, GIT
Environmental Geologist



Ryan K. Mathews, CIH, CHMM
Principal



ATTACHMENT A

Figure 1-A: Sample Location Map – First Floor
Figure 1-B: Sample Location Map – Second Floor



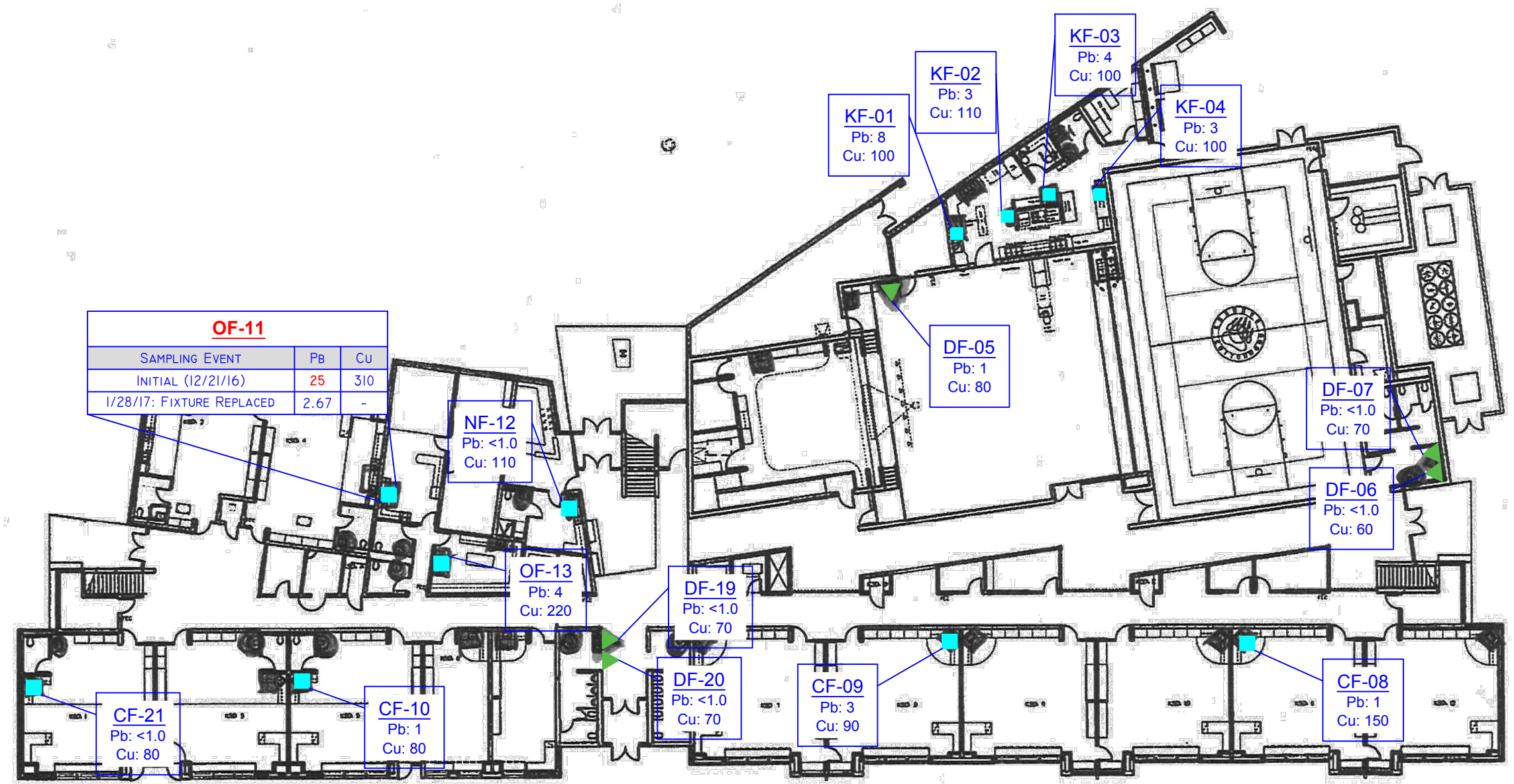
LEGEND

- KF-## - Kitchen faucet
- CF-## - Classroom faucet
- CDF-## - Classroom drinking fountain
- OF-## - Office faucet
- WC-## - Water cooler fountain
- BF-## - Bottle filler fountain
- NF-## - Nurse's faucet

- - Sample location: faucet
- - Sample location: drinking fountain at sink
- ■ - Sample location: faucet and drinking fountain at same sink
- ▼ - Sample location: water cooler fountain

-Lead (Pb) and copper (Cu) results for each sample location are below each identifier. All results reported in µg/L.

-Samples in **BOLD RED** indicate fixture locations where the initial concentrations of lead or copper were above the respective action level.



DRAWING PROVIDED BY KENNEWICK SCHOOL DISTRICT

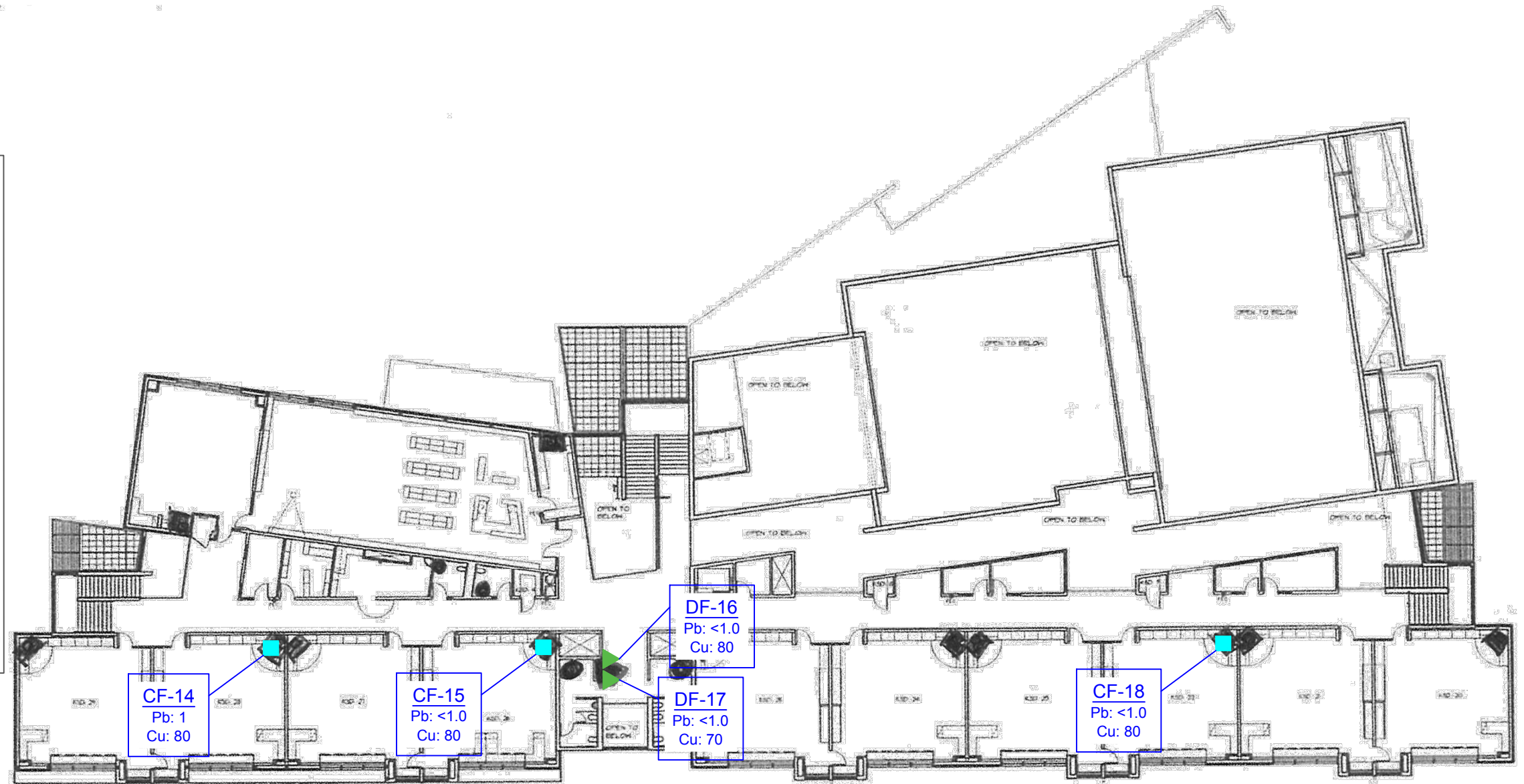
LEGEND

- KF-## - Kitchen faucet
- CF-## - Classroom faucet
- CDF-## - Classroom drinking fountain
- OF-## - Office faucet
- WC-## - Water cooler fountain
- BF-## - Bottle filler fountain
- NF-## - Nurse's faucet

- - Sample location: faucet
- - Sample location: drinking fountain at sink
- ■ - Sample location: faucet and drinking fountain at same sink
- ▼ - Sample location: water cooler fountain

-Lead (Pb) and copper (Cu) results for each sample location are below each identifier. All results reported in µg/L.

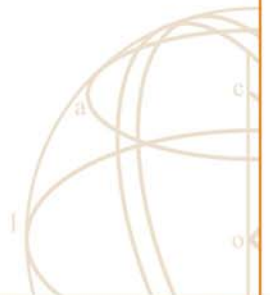
-Samples in **BOLD RED** indicate fixture locations where the initial concentrations of lead or copper were above the respective action level.



DRAWING PROVIDED BY KENNEWICK SCHOOL DISTRICT

ATTACHMENT B

Site-Specific Sampling and Analysis Plan



Site-Specific Sampling and Analysis Plan

Kennewick School District – Winter 2016 Drinking Water Sampling

Note: This SSSAP has been prepared as a supplement to the project SAP/QAPP and provide a building specific summary of the location, number, and sampling frequency of water fixture locations.

Campus: Cottonwood Elementary Address: 16734 Cottonwood Creek Boulevard, Kennewick, WA

Elementary Middle School High School Administration

Date of Construction: 2010 Modernizations: N/A

Fixture Type	Locations	Fixture Styles ¹	Samples	Ratio
Drinking fountain/water cooler (DF/WC)	7	1	7	100%
Kitchen Fixture (KF)	4	3	4	100%
Classroom faucet, including faucets in Food Labs and Life Sciences Classrooms (CF)	21	2	7	33%
Classroom drinking fountain at sink (CDF)	N/A	-	N/A	-
Nurse’s Office/Health Room (NF)	1	1	1	100%
Teacher’s Lounges/Work Rooms (OF)	4	2	2	50%
TOTALS	38		21	55%

¹ Fixture styles are approximate based on sampler’s observations

Lead Sampler: Levi Wyatt Date: 12/21/2016

Sample Prefix: CWE – 122116 – P (first-draw) – 01-23
School Code Date Sample Type Fixture Type Sample Number

Laboratory: R. J. Lee Group, Columbia Basin Analytical Delivery Date: December 21, 2016

Comments:

ATTACHMENT C

Table 1: Initial Sampling Analytical Results Summary Table
Table 2: pH and Temperature Data Summary Table
Table 3: Remedial Sampling Analytical Results Summary Table



Table 1: Initial Sampling Analytical Results

Sample Identification and Location	Fixture Type	Lead Results (µg/L)	Copper Results (µg/L)
CWE122116-P-KF-01: Kitchen, W. wall	Kitchen Faucet	8	100
CWE122116-P-KF-02: Kitchen, Middle island, W. fixture	Kitchen Faucet	3	110
CWE122116-P-KF-03: Kitchen, Middle island, N. fixture	Kitchen Faucet	4	100
CWE122116-P-KF-04: Kitchen, E. wall	Kitchen Faucet	3	100
CWE122116-P-DF-05: Cafeteria	Drinking Fountain	1	80
CWE122116-P-DF-06: East entry, S. fixture	Drinking Fountain	<1.0	60
CWE122116-P-DF-07: East entry, N. fixture	Drinking Fountain	<1.0	70
CWE122116-P-CF-08: Room 11	Classroom Faucet	1	150
CWE122116-P-CF-09: Room 8	Classroom Faucet	3	90
CWE122116-P-CF-10: Room 5	Classroom Faucet	1	80
CWE122116-P-OF-11: Teacher's Lounge	Office Faucet	25	310
CWE122116-P-NF-12: Nurse's Office	Nurse's Faucet	<1.0	110
CWE122116-P-OF-13: Work Room	Office Faucet	4	220
CWE122116-P-CF-14: Room 28	Classroom Faucet	1	80
CWE122116-P-CF-15: Room 26	Classroom Faucet	<1.0	80
CWE122116-P-DF-16: Second Floor, N. fixture	Drinking Fountain	<1.0	80
CWE122116-P-DF-17: Second Floor, S. fixture	Drinking Fountain	<1.0	70
CWE122116-P-CF-18: Room 22	Classroom Faucet	<1.0	80
CWE122116-P-DF-19: S. entry, N. fixture	Drinking Fountain	<1.0	70
CWE122116-P-DF-20: S. entry, S. fixture	Drinking Fountain	<1.0	70
CWE122116-P-DF-21: Room 1	Drinking Fountain	<1.0	80
<i>CWE122116-P-CF-22: Laboratory Spike</i>	<i>Lead and Copper Spike</i>	<i>15</i>	<i>1,200</i>
<i>CWE122116-P-CF-23: Laboratory Blank</i>	<i>Distilled Water Blank</i>	<i><1.0</i>	<i>10</i>
EPA Action Level		15	1,300

1 µg/L means microgram per liter or parts per billion (ppb).

2 Action levels based on the U.S. EPA's Lead and Copper Rule.

Results in **bold** indicate concentrations above the action levels of 15 µg/L for lead and 1,300 µg/L for copper

Results in *italics* are quality assurance spike and blank samples

Table 2: pH and Temperature Data Summary

Sample Number	Fixture Type	pH Flush	pH Sample	Temperature (°C) Flush	Temperature (°C) Sample
CWE122116-P-KF-01: Kitchen, W. wall, S. fixture	Kitchen Faucet	8.25	8.20	19.5	21.5
CWE122116-P-KF-04: Kitchen, E. wall	Kitchen Faucet	8.30	8.18	19.1	22.2
CWE122116-P-CF-08: Classroom 11	Classroom Faucet	8.28	8.14	21.6	21.8
CWE122116-P-NF-12: Nurse's office	Nurse's Faucet	8.32	8.24	18.3	20.2
CWE122116-P-DF-16: Second floor, right fixture	Drinking Fountain	8.29	8.31	19.8	21.4
CWE122116-P-DF-20: Near S. entrance, left fixture	Drinking Fountain	8.30	8.20	19.1	20.2

Table 3: Remedial Sampling Analytical Results Summary

Sampling Event	Sample Identification		
	OF-11	Laboratory Spike (-22)	Laboratory Blank (-23)
Initial (12-21-16)	25	<i>15</i>	<i><1</i>
Fixture Replacement (1-28-17)	2.67	<i>15.0</i>	<i><1.00</i>
EPA Action Level	15	15	15

- 1 $\mu\text{g/L}$ means microgram per liter or parts per billion (ppb).
- 2 Action levels based on the U.S. EPA's Lead and Copper Rule.
Results indicated in **bold** indicate concentrations above the action levels of 15 $\mu\text{g/L}$ for lead and 1,300 $\mu\text{g/L}$ for copper
Results indicated in *italics* are quality assurance spike and blank samples

ATTACHMENT D

Initial Analytical Results





RJ LeeGroup, Inc. | Columbia Basin Analytical Laboratories

2710 North 20th Avenue, Pasco WA 99301

Tel: (509) 545-4989 | Fax: (509) 544-6010

Fulcrum Environmental
406 N. 2nd St.
Yakima, WA 98901

Subject: Chemical Analysis Report

Columbia Basin Analytical Laboratories received 23 sample(s) on 12/21/16 for analysis. These sample(s) have been assigned a login order number of W612098. Enclosed is the final report that consists of a summary report of the sample(s), and a copy of the chain of custody.

General Lab Comments

The results provided in this report relate only to the items tested. Sample(s) were received in acceptable conditions unless otherwise noted in the comments above. Sample(s) have not been field blank corrected unless otherwise noted in the general set comments above. The sample(s) were prepared in accordance with EPA 200.8 and analyzed in compliance with EPA 200.8. This test report shall not be reproduced, except in full, without written approval of Columbia Basin Analytical Laboratories. Any questions, please contact our office.

All samples were diluted 1:10.

X - Samples that exceeded the instrument calibration range were rerun at a 1:100 dilution, necessitating a 10-fold increase in the PQL.

-Revision is due to a missing qualifier in the summary page. No actual data were impacted.

Release of the data contained in the hard copy report has been authorized by the Laboratory Director or a designee as verified by the following signature. This report has been administratively reviewed by the following individual:

01/11/17

Project Coordinator II, M. Fernanda Pincheira

Date

If you have any questions please feel free to contact Fernanda Pincheira at MPincheira@rjleegroup.com.



Laboratory Report

Amanda Enbysk
Fulcrum Environmental
406 N. 2nd St.
Yakima, WA 98901

RJ Lee Group No.: W612098
COC No.: Kennewick
Samples Received: 12/21/16
Analysis/Prep Date: 01/09/17
Report Date: 01/11/17

Client Project:

Fulcrum Kennewick

Sample Name: CWE122116-P-KF-01 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-01 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.10	0.01	
Lead	EPA 200.8	0.008	0.001	

Sample Name: CWE122116-P-KF-02 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-02 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.11	0.01	
Lead	EPA 200.8	0.003	0.001	

Sample Name: CWE122116-P-KF-03 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-03 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.10	0.01	
Lead	EPA 200.8	0.004	0.001	

Sample Name: CWE122116-P-KF-04 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-04 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.10	0.01	
Lead	EPA 200.8	0.003	0.001	

Sample Name: CWE122116-P-DF-05 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-05 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.08	0.01	
Lead	EPA 200.8	0.001	0.001	

Columbia Basin Analytical Laboratories | 2710 North 20th Avenue, Pasco WA 93301 | 509.545.4989

WWW.RJLEEGROUP.COM

Report Template: GenMetalReportFull_v12.rpt

Approved: 01/9/17 17:13
Report Time Stamp: 01/11/17 15:02



Sample Name: CWE122116-P-DF-06 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-06 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.06	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: CWE122116-P-DF-07 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-07 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.07	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: CWE122116-P-CF-08 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-08 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.15	0.01	
Lead	EPA 200.8	0.001	0.001	

Sample Name: CWE122116-P-CF-09 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-09 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.09	0.01	
Lead	EPA 200.8	0.003	0.001	

Sample Name: CWE122116-P-CF-10 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-10 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.08	0.01	
Lead	EPA 200.8	0.001	0.001	

Sample Name: CWE122116-P-OF-11 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-11 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.31	0.01	
Lead	EPA 200.8	0.025	0.001	



Sample Name: CWE122116-P-NF-12 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-12 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.11	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: CWE122116-P-OF-13 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-13 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.22	0.01	
Lead	EPA 200.8	0.004	0.001	

Sample Name: CWE122116-P-CF-14 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-14 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.08	0.01	
Lead	EPA 200.8	0.001	0.001	

Sample Name: CWE122116-P-CF-15 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-15 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.08	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: CWE122116-P-DF-16 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-16 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.08	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: CWE122116-P-DF-17 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-17 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.07	0.01	
Lead	EPA 200.8	< 0.001	0.001	



Sample Name: CWE122116-P-CF-18 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-18 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.08	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: CWE122116-P-DF-19 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-19 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.07	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: CWE122116-P-DF-20 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-20 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.07	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: CWE122116-P-CF-21 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-21 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.08	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: CWE122116-P-CF-22 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-22 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.2	0.1	X
Lead	EPA 200.8	0.015	0.001	

Sample Name: CWE122116-P-CF-23 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612098-23 **Date Analyzed:** 01/09/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.01	0.01	
Lead	EPA 200.8	< 0.001	0.001	



Report Qualifiers:

A = Target Analyte media breakthrough suspect, see analytical report

D = Analyte analyzed in a dilution

E = Report concentration was above the instrument calibration range

J = Analyte detected below quantitation limits, concentration is estimated

P = Library spectrum match, $rsd > 90\%$ w RT match

Q = Result out of method specific acceptance QC criteria

S = Spike Recovery outside accepted recovery limits

Z = Not ELAP accredited analyte

ND = Not Detected

B = Analyte detected in the associated blank

d = Data that exceeds the RSD criteria set by the SOP

H = Holding times for preparation or analysis exceeded

L = Sample condition at receipt out of compliance with method defined conditions

R = RPD (relative percent difference) outside accepted recovery limits

U = Analyte analyzed for but not detected

N/A = Not Applicable

Scientist III J Grissmerson

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any samples. Unless otherwise noted, samples were received in an acceptable condition. This laboratory operates in accordance with ISO 17025 guidelines, and holds limited scopes of accreditation under ORELAP Lab Code 4061 AIHA-LAP, LLC Lab ID 178656 EPA ID WA01195 and WA DOE Lab ID C859. This report may not be used to claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or to the sample(s) as received by the laboratory. Any reproduction of this document must be in full for the report to be valid. Quality control data is available upon request.

Request for Environmental and IH Laboratory Analytical Services

W612098

ATTENTION TO: **RYAN MATHEWS** Client Job No.: **162017**

Lab Use Only Project No.: Client No.:
 Date Logged In: Logged In By:

Report Results To Name: Amanda Enbysk, Ryan Mathews
 Company: Fulcrum Environmental Consulting
 Address: 406 North 2nd Street
 City, State, Zip: Yakima, WA, 98901
 Phone: (509) 574-0839 Fax: (509) 575-8453
 Call with Verbal Results:
 Email Results To: aenbysk@fulcrum.net, CC: rmathews@fulcrum.net
 Fax Results To:

Send Invoice To Name: Lorrie Boutillier
 Company: Fulcrum Environmental Email: lboutillier@fulcrum.net
 Address: 406 North 2nd Street
 City, State, Zip: Yakima, WA, 98901
 Phone: (509) 574-0839 Fax: (509) 575-8453

Special Instructions
 Turnaround Request Standard: **Yes** No If 'No,' No. of Business Days:
 Sample Purpose: **Information X** Regulatory Accreditation (please list below):
 Drinking Water System ID #: DOH Source #:
 Multiple Sources #s:
 Sample Purpose: A B Other
 Preservation: Unpres H₂SO₄ Matrix: WW=Wastewater GW=Groundwater SW=Surface Water P=Plastic
 4°C HCl NaOH S=Soil/Sludge DW=Drinking Water G=Glass
 HNO₃ NaOH E=Extract O=Oil W=Wipe
 Other Na₂SO₄ X=Other A=Air (filter or tube)

Client Sample ID	Sample Description	Sample Date	Sample Time		Wipe Area / Air Volume	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:	Date: Relinquished To: Method of Shipment:	Time: Relinquished To: Method of Shipment:	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
			Start	Stop											
CUE122116-P-KF01	Kitchen	12/24								X	UNPR	DW	A		16.7
CUE122116-P-KF02	Kitchen (NW)														16.6
CUE122116-P-KF03	Kitchen														15.9
CUE122116-P-KF04	Kitchen														16.1
CUE122116-P-DF-05	Cabena														16.3
CUE122116-P-DF-06	East entry														13.7
CUE122116-P-DF-07	East entry														14.4
CUE122116-P-DF-08	Room 11														16.3
CUE122116-P-DF-09	Room 8														14.3
CUE122116-P-DF-10	Room 5														17.5
CUE122116-P-DF-11	Teacher lounge														18.3

Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Date: Relinquished To: Method of Shipment:	Time: Relinquished To: Method of Shipment:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:	Date: Relinquished To: Method of Shipment:	Time: Relinquished To: Method of Shipment:
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Date: Relinquished To: Method of Shipment:	Time: Relinquished To: Method of Shipment:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:	Date: Relinquished To: Method of Shipment:	Time: Relinquished To: Method of Shipment:

Pennsylvania - HQ
 350 Hochberg Road
 Monroeville, PA 15146
 724.325.1776 Phone
 724.733.1799 Fax

Washington
 Columbia Basin Analytical Laboratories
 2710 North 20th Avenue
 Pasco, WA 99301
 509.545.4989 Phone
 509.544.6010 Fax



Request for Environmental and IH Laboratory Analytical Services

W612098

ATTENTION TO: RYAN MATHEWS		Purchase Order No.:	Client Job No.:	162017
Lab Use Only	Project No.:	Client No.:	Logged In By:	
Report Results To	Name: Amanda Enbysk, Ryan Mathews	Company: Fulcrum Environmental Consulting	Address: 406 North 2nd Street	City, State, Zip: Yakima, WA, 98901
Phone: (509) 574-0839	Fax: (509) 575-8453	Call with Verbal Results:	Email Results To: aenbysk@fulcrum.net, CC: rmathews@fulcrum.net	Fax Results To:
Send Invoice To	Name: Lorrin Boutillier	Company: Fulcrum Environmental	Address: 406 North 2nd Street	City, State, Zip: Yakima, WA, 98901
Phone: (509) 574-0839	Fax: (509) 575-8453	Special Instructions		
Client Sample ID	Sample Description	Sample Date	Sample Time	Wipe Area / Air Volume
CUE12116-P-NF-12	Nurse office	12/21		
CUE12116-P-OF-13	workroom			
CUE12116-P-OF-14	Room 26			
CUE12116-P-DF-15	Room 26			
CUE12116-P-DF-16	2nd floor RR center			
CUE12116-P-DF-17	↓			
CUE12116-P-CF-18	Room 22			
CUE12116-P-DF-19	South entry			
CUE12116-P-DF-20	South entry			
CUE12116-P-CF-21	Room 1			
CUE12116-P-CF-22	Art room			
CUE12116-P-SF-23	Health room			
Chain of Custody	Relinquished By (Signature):	Date: 12/21/16	Time: 1:53	
Chain of Custody	Relinquished By (Print Name):	Method of Shipment:		
Chain of Custody	Relinquished By (Signature):	Date:	Time:	
Chain of Custody	Relinquished By (Print Name):	Method of Shipment:		
Turnaround Request	Standard: Yes No	If 'No,' No. of Business Days:		
Drinking Water	Sample Purpose: Information X Regulatory	Accreditation (please list below):		
Sample Only	System ID #:	DOH Source #:		
Chemistry Analysis Key	Multiple Sources #s:	Sample Purpose: A B Other		
Preservation: Unpres 4°C HNO ₃ Other	Matrix: WW=Wastewater GW=Groundwater S=Soil/Sludge E=Extract	Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)		
EPA 200.8: Pb, Cu	Analysis Requested	Pres. Upon Receipt (Y/N)	UNPR	DW
		Preservation		
		Matrix		
		Container Type		
		pH		
		No. Containers		174
				166
				176
				172
				166
				171
				157
				157
				151
				8.8

Pennsylvania - HQ
350 Hochberg Road
Monroeville, PA 15146

Washington
Columbia Basin Analytical Laboratories
2710 North 20th Avenue
Pasco, WA 99301

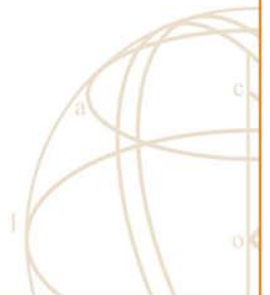
724.325.1776 Phone
724.733.1799 Fax

509.545.4989 Phone
509.544.6010 Fax



ATTACHMENT E

Remedial Analytical Results





Fulcrum Environmental

Ryan Mathews
406 N. 2nd Street
Yakima, WA 98901

**RE: Kennewick SD - Cottonwood Elementary Follow-Up Sampling
Work Order Number: 1701343**

February 08, 2017

Attention Ryan Mathews:

Fremont Analytical, Inc. received 5 sample(s) on 1/30/2017 for the analyses presented in the following report.

Drinking Water Metals by EPA Method 200.8

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager



Date: 02/08/2017

CLIENT: Fulcrum Environmental
Project: Kennewick SD - Cottonwood Elementary Fol
Work Order: 1701343

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1701343-001	CWE12817-P-OF-11	01/28/2017 9:30 AM	01/30/2017 9:40 AM
1701343-002	CWE12817-S-OF-11	01/28/2017 9:30 AM	01/30/2017 9:40 AM
1701343-003	CWE12817-T-OF-11	01/28/2017 9:30 AM	01/30/2017 9:40 AM
1701343-004	CWE12817-P-CF-22	01/28/2017 9:30 AM	01/30/2017 9:40 AM
1701343-005	CWE12817-P-CF-23	01/28/2017 9:30 AM	01/30/2017 9:40 AM

CLIENT: Fulcrum Environmental
Project: Kennewick SD - Cottonwood Elementary Follow-Up Sampling

WorkOrder Narrative:

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Prep Sample Comments:

1701343-001A 205374: Prep Comments for EPA200.8, Sample 1701343-001A: Turbidity: 0.04 NTU

1701343-004A 205375: Prep Comments for EPA200.8, Sample 1701343-004A: Turbidity: 0.07 NTU

1701343-005A 205376: Prep Comments for EPA200.8, Sample 1701343-005A: Turbidity: 0.10 NTU

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



CLIENT: Fulcrum Environmental
Project: Kennewick SD - Cottonwood Elementary Follow-Up Sampling

Lab ID: 1701343-001 **Collection Date:** 1/28/2017 9:30:00 AM
Client Sample ID: CWE12817-P-OF-11 **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Drinking Water Metals by EPA Method 200.8

Batch ID: 16138 Analyst: TN

Lead	2.67	1.00		µg/L	1	2/6/2017 6:54:58 PM
------	------	------	--	------	---	---------------------

Lab ID: 1701343-004 **Collection Date:** 1/28/2017 9:30:00 AM
Client Sample ID: CWE12817-P-CF-22 **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Drinking Water Metals by EPA Method 200.8

Batch ID: 16138 Analyst: TN

Lead	15.0	1.00		µg/L	1	2/6/2017 6:58:35 PM
------	------	------	--	------	---	---------------------

Lab ID: 1701343-005 **Collection Date:** 1/28/2017 9:30:00 AM
Client Sample ID: CWE12817-P-CF-23 **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Drinking Water Metals by EPA Method 200.8

Batch ID: 16138 Analyst: TN

Lead	ND	1.00		µg/L	1	2/6/2017 7:02:11 PM
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Work Order: 1701343
CLIENT: Fulcrum Environmental
Project: Kennewick SD - Cottonwood Elementary Fo

QC SUMMARY REPORT
Drinking Water Metals by EPA Method 200.8

Sample ID MB-16138	SampType: MBLK	Units: µg/L	Prep Date: 2/6/2017	RunNo: 34292							
Client ID: MBLKW	Batch ID: 16138	Analysis Date: 2/6/2017	SeqNo: 653845								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 1.00

Sample ID LCS-16138	SampType: LCS	Units: µg/L	Prep Date: 2/6/2017	RunNo: 34292							
Client ID: LCSW	Batch ID: 16138	Analysis Date: 2/6/2017	SeqNo: 653846								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 50.3 1.00 50.00 0 101 85 115

Sample ID 1701297-003ADUP	SampType: DUP	Units: µg/L	Prep Date: 2/6/2017	RunNo: 34292							
Client ID: BATCH	Batch ID: 16138	Analysis Date: 2/6/2017	SeqNo: 653848								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 5.02 1.00 5.257 4.58 30

Sample ID 1701297-003AMS	SampType: MS	Units: µg/L	Prep Date: 2/6/2017	RunNo: 34292							
Client ID: BATCH	Batch ID: 16138	Analysis Date: 2/6/2017	SeqNo: 653849								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 108 1.00 100.0 5.257 103 70 130

Sample ID 1701297-003AMSD	SampType: MSD	Units: µg/L	Prep Date: 2/6/2017	RunNo: 34292							
Client ID: BATCH	Batch ID: 16138	Analysis Date: 2/6/2017	SeqNo: 653850								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 99.4 1.00 100.0 5.257 94.1 70 130 108.0 8.26 30

Client Name: **FE**

Work Order Number: **1701343**

Logged by: **Erica Silva**

Date Received: **1/30/2017 9:40:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No HNO3 NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Samples were in a cooler that was not delivered on-time. Samples were received on 2/3/17.

Item Information

Item #	Temp °C
Cooler	8.9
Sample	9.1

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record and Laboratory Services Agreement

Date: 1/28/2017

Laboratory Project No (Internal): 1701343

Page: 1 of 1

Client: Fulcrum Environmental Consulting
Address: 406 North Second Street
City, State, zip: Yakima, WA 98901
Telephone: 509.574.0839

Project Name: Kennewick SD - Cottonwood Elementary Follow-Up Sampling
Project No: 162017
Location: Cottonwood Elementary School, Kennewick, WA
Report To (PM): Ryan Mathews
PM Email: rmathews@fulcrum.net; cc: aenbysk@fulcrum.net

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes											Comments			
				VOCs (EPA 8260 / 624)	GW/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HClD)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 / 608)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)		Anions (IC)**	EDB (801)	
CWE 12817-P-OF-11	1/28/2017	0930	DW															Analyze; Pre-preserved
CWE 12817-S-OF-11																		Hold; NO HNO3
CWE 12817-T-OF-11																		↓
CWE 12817-R-CE-11																		Analyze; Pre HNO3
CWE 12817-P-CE-11																		↓

**Metals Analysis (Circle): MICA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Sample Disposal: Return to Client Disposal by Lab (Samples will be held for 30 days unless otherwise noted. A fee may be assessed if samples are retained after 30 days.)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished 1/30/2017; 1530 Date/Time Received 1/30/17 0940 Date/Time

Reinquired 1/30/2017; 1530 Date/Time Received 1/30/17 0940 Date/Time

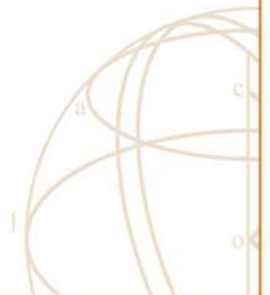
Relinquished X Date/Time Received X Date/Time

TAT → SameDay^ NextDay^ 2 Day 3 Day STD

*Please coordinate with the lab in advance

ATTACHMENT F

Fixture Style Photographs





Sample CWE122116-P-OF-11: **25 µg/L** initial lead concentration. Fixture style above is identified producing elevated lead concentrations.



Sample CWE122116-P-OF-11: **4 µg/L** initial lead concentration. Same fixture style as initial sample with elevated lead concentration.