

September 5, 2017

Pasco School District No. 1
Attn: Randy D. Nunamaker, Executive Director of Operations
1215 West Lewis Street
Pasco, Washington, 99301

**RE: Winter 2016 Drinking Water Sampling Results
Pasco High School, 1108 North 10th Avenue, Pasco, Washington**

Dear Randy:

On Friday, November 11, 2016, Fulcrum Environmental Consulting, Inc. (Fulcrum) collected 50 drinking water samples for lead and copper analysis from Pasco High School (School) located at 1108 North 10th Avenue in Pasco, Washington. Initial sampling identified one fixture location with lead concentrations above guidance levels. Fulcrum returned to the School to collect samples after replacement of the fixtures and found results 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 November 11, 2016. Initial results identified one sample with a lead concentration above the Environmental Protection Agency (EPA) action level of 15 micrograms per liter (µg/L). Upon receipt of results, Fulcrum and the District consulted with the Benton-Franklin Health District in development of a remedial action plan.

The fixture identified with an elevated lead concentration and two additional fixtures of the same style were replaced and preconditioned by running cold water continuously through the fixtures for 24 hours, as specified in WAC 246-366A-130. Following replacement and preconditioning, Fulcrum returned to the School on April 6, 2017 and collected follow-up samples to confirm the success of fixture replacement. Follow-up samples yielded results below the EPA action level, confirming fixture replacement was

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

successful. Following sampling and review of laboratory results, Benton-Franklin Health District supported Fulcrum's recommendation and the District's request to return the fixtures to service.

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 November 2021).

Sampling Methodology

As a portion of this project, Fulcrum prepared a Sampling and Analysis Plan (SAP) in consultation with the Benton-Franklin Health District 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 on 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 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 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 with a lead concentration above the EPA action level of 15 micrograms per liter ($\mu\text{g/L}$). No samples were identified with copper concentrations above the EPA action level of 1,300 $\mu\text{g/L}$.

Remedial Sampling

Immediately following receipt of initial sampling results, the District removed the identified fixtures from service pending remediation and further testing. To remediate elevated lead concentrations, the District replaced all identified fixtures and all of the same style. Fulcrum returned on April 6, 2017 following fixture replacement and preconditioning to collect follow-up samples from the one initially identified fixtures and two fixtures of the same style.

Analytical results from remedial sampling indicated the fixture replacement was successful at reducing lead concentrations below the action level for the fixtures 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 two fixtures of the same style and preconditioned the fixtures for 24 hours as specified in WAC 246-366A-130. Follow-up sampling demonstrated that all lead concentrations were below the action level. Following fixture replacement sampling and review of laboratory results, Benton-Franklin Health District supported Fulcrum's recommendation and the District's request to return the fixtures to service.

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 November 2021).

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

Sincerely,



Amanda Enbysk, GIT
Environmental Geologist

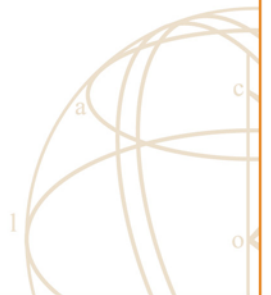


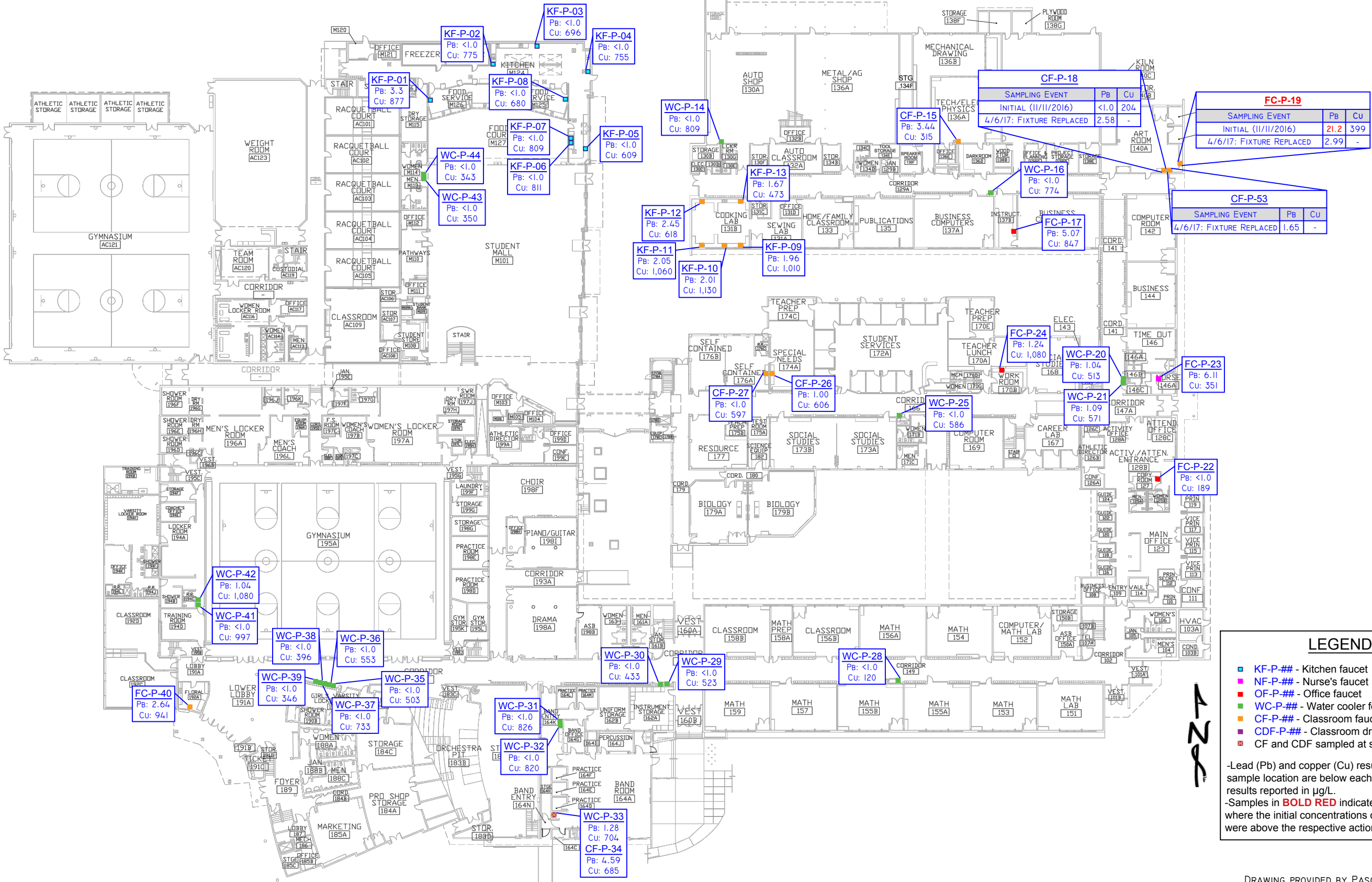
Ryan K. Mathews, CIH, CHMM
Principal



ATTACHMENT A

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





DRAWING PROVIDED BY PASCO SCHOOL DISTRICT No. 1



LEGEND

■

 KF-P-## - Kitchen faucet

■

 NF-P-## - Nurse's faucet

■

 OF-P-## - Office faucet

■

 WC-P-## - Water cooler fountain

■

 CF-P-## - Classroom faucet

■

 CDF-P-## - Classroom drinking fountain

■

 CF and CDF sampled at same sink

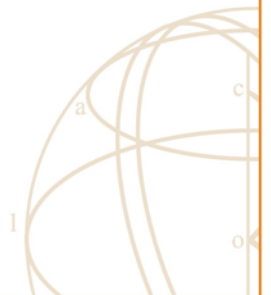
-Lead (Pb) and copper (Cu) results for each sample location are below each identifier. All results reported in µg/L.

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

DRAWING PROVIDED BY PASCO SCHOOL DISTRICT NO. 1

ATTACHMENT B

Site-Specific Sampling and Analysis Plan



Site-Specific Sampling and Analysis Plan

Pasco School District No. 1 – 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/Building: Pasco High School Address: 1108 North 10th Avenue, Pasco, WA 99301

☐ Elementary ☐ Middle School ☒ High School ☐ Administration

Date of Construction: 1952 Modernizations: 1954; 1958; 1969; 1971; 1995; 2005; 2016

Fixture Type	Fixture Locations	Fixture Styles¹	Samples Collected	Ratio
Drinking fountain/water cooler (DF/WC)	42	4	24	57%
Kitchen Fixture (KF)	9	6	8	89%
Classroom faucet, including faucets in Food Labs and Life Sciences Classrooms (CF)	26	5	13	50%
Classroom drinking fountain at sink (CDF)	2	1	1	50%
Nurse's Office/Health Room (NF)	1	1	1	100%
Teacher's Lounges/Work Rooms (OF)	4	2	3	75%
TOTALS	78		50	64%

1 Fixture styles are approximate and based on sampler's observations

Lead Sampler: Kyle Ames Date: 11/11/2016

Sample Prefix: PHS - 111116 - P - 01-51
School Code Date Fixture Type Sample Type Sample Number

Laboratory: R. J. Lee Group, Columbia Basin Analytical Delivery Date: 11/11/2016

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)
PHS111116-KF-P-01: Food Service, Room M126	Kitchen Faucet	3.3	877
PHS111116-KF-P-02: Kitchen, Room M124, west wall	Kitchen Faucet	<1.0	775
PHS111116-KF-P-03: Kitchen, Room M124 north wall	Kitchen Faucet	<1.0	696
PHS111116-KF-P-04: Kitchen, Room M124 east wall, north fixture	Kitchen Faucet	<1.0	755
PHS111116-KF-P-05: Kitchen, Room M124 east wall, south fixture	Kitchen Faucet	<1.0	609
PHS111116-KF-P-06: Kitchen, Room M124 southeast, center fixture	Kitchen Faucet	<1.0	811
PHS111116-KF-P-07: Kitchen, Room M124 southeast, north fixture	Kitchen Faucet	<1.0	809
PHS111116-KF-P-08: Food Service, Room M125	Kitchen Faucet	<1.0	680
PHS111116-KF-P-09: Room 131B, south wall, east fixture	Classroom Faucet	1.96	1,010
PHS111116-KF-P-10: Room 131B, south wall, center fixture	Classroom Faucet	2.01	1,130
PHS111116-KF-P-11: Room 131B, south wall, west fixture	Classroom Faucet	2.05	1,060
PHS111116-KF-P-12: Room 131B, north wall, west fixture	Classroom Faucet	2.45	618
PHS111116-KF-P-13: Room 131B, north wall, east fixture	Classroom Faucet	1.67	473
PHS111116-WC-P-14: Auto Shop, Room 130A	Water Cooler Fountain	<1.0	809
PHS111116-CF-P-15: Tech/Elec Physics, Room 136A	Classroom Faucet	3.44	315
PHS111116-WC-P-16: Corridor 129A opposite Dark Room 136D	Water Cooler Fountain	<1.0	774
PHS111116-FC-P-17: Workroom 137B	Office Faucet	5.07	847
PHS111116-CF-P-18: Art Room 140A, south wall, right fixture	Classroom Faucet	<1.0	204
PHS111116-FC-P-19: Art Room 140A, east wall, south corner	Classroom Faucet	21.2	399
PHS111116-WC-P-20: Corridor 141, left fixture	Water Cooler Fountain	1.04	513
PHS111116-WC-P-21: Corridor 141, right fixture	Water Cooler Fountain	1.09	571
PHS111116-FC-P-22: Copy Room 127	Office Faucet	<1.0	189
PHS111116-FC-P-23: Nurse's Office, Room 146A	Nurse's Faucet	6.11	351
PHS111116-FC-P-24: Work Room 170B	Office Faucet	1.24	1,080
PHS111116-WC-P-25: Corridor 166, adjacent Room 173A	Water Cooler Fountain	<1.0	586
PHS111116-CF-P-26: Room 174A	Classroom Faucet	1.00	606
PHS111116-CF-P-27: Room 176A	Classroom Faucet	<1.0	597
PHS111116-WC-P-28: Corridor 149, left fixture opposite 156A	Water Cooler Fountain	<1.0	120
PHS111116-WC-P-29: Corridor 160 opposite stairs, left fixture	Water Cooler Fountain	<1.0	523
PHS111116-WC-P-30: Corridor 160, opposite stairs, right fixture	Water Cooler Fountain	<1.0	433
PHS111116-WC-P-31: Band Entry, left fixture	Water Cooler Fountain	<1.0	826
PHS111116-WC-P-32: Band Entry, right fixture	Water Cooler Fountain	<1.0	820
PHS111116-WC-P-33: Room 164D	Classroom Drinking Fountain	1.28	704
PHS111116-CF-P-34: Room 164D	Classroom Faucet	4.59	685
PHS111116-WC-P-35: Corridor 193, leftmost fixture	Water Cooler Fountain	<1.0	503
PHS111116-WC-P-36: Corridor 193, left center fixture	Water Cooler Fountain	<1.0	553
PHS111116-WC-P-37: Corridor 193, center fixture	Water Cooler Fountain	<1.0	733

Sample Identification and Location	Fixture Type	Lead Results (µg/L)	Copper Results (µg/L)
PHS111116-WC-P-38: Corridor 193, right center fixture	Water Cooler Fountain	<1.0	396
PHS111116-WC-P-39: Corridor 193, rightmost fixture	Water Cooler Fountain	<1.0	346
PHS111116-FC-P-40: Room 192A	Classroom Faucet	2.64	941
PHS111116-WC-P-41: Room 194C, west wall, south fixture	Water Cooler Fountain	<1.0	997
PHS111116-WC-P-42: Room 194C, west wall, north fixture	Water Cooler Fountain	1.04	1,080
PHS111116-WC-P-43: Student Mall, west wall, left fixture	Water Cooler Fountain	<1.0	350
PHS111116-WC-P-44: Student Mall, west wall, right fixture	Water Cooler Fountain	<1.0	343
PHS111116-WC-P-45: 2nd floor Corridor adjacent Room AC207, left fixture	Water Cooler Fountain	<1.0	517
PHS111116-WC-P-46: 2nd floor Corridor, adjacent Room AC207, right fixture	Water Cooler Fountain	<1.0	524
PHS111116-WC-P-47: Corridor 276 opposite Learning Resource Center	Water Cooler Fountain	<1.0	390
PHS111116-CF-P-48: Magazine Storage, Room 270D	Classroom Faucet	13.3	596
PHS111116-WC-P-49: Corridor 249A adjacent Room 250B	Water Cooler Fountain	<1.0	546
PHS111116-FC-P-50: Corridor 266, opposite Room 256, left fixture	Water Cooler Fountain	<1.0	316
<i>PHS111116-FC-P-51: Laboratory Spike</i>	<i>Lead and Copper Spike</i>	15	1,270
<i>PHS111116-FC-P-52: Laboratory Blank</i>	<i>Distilled Water Blank</i>	<1.0	<1.00
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 and Location	Fixture Type	pH Flush	pH Sample	Temperature Flush (°C)	Temperature Sample (°C)
PHS111116-KF-P-04: Kitchen, Room M124 east wall, north fixture	Kitchen Faucet	8.01	7.86	18.4	14.9
PHS111116-KF-P-08: Food Service, Room M125	Kitchen Faucet	7.83	7.75	17.9	16.8
PHS111116-KF-P-12: Room 131B, north wall, west fixture	Kitchen Faucet	7.99	7.72	20	17
PHS111116-WC-P-16: Corridor 129A opposite Dark Room 136D	Water Cooler Fountain	-	7.74	-	11.6
PHS111116-WC-P-20: Corridor 141, left fixture	Water Cooler Fountain	8.09	7.94	13.8	12.2
PHS111116-FC-P-24: Work Room 170B	Office Faucet	7.76	7.75	22.1	19.4
PHS111116-WC-P-28: Corridor 149, left fixture opposite 156A	Water Cooler Fountain	8.07	7.71	11.7	10.4
PHS111116-WC-P-32: Band Entry, right fixture	Water Cooler Fountain	7.91	7.69	15.2	16.5
PHS111116-WC-P-36: Corridor 193, left center fixture	Water Cooler Fountain	8	7.83	14.1	12.5

Sample Number and Location	Fixture Type	pH Flush	pH Sample	Temperature Flush (°C)	Temperature Sample (°C)
PHS111116-FC-P-40: Room 192A	Classroom Faucet	7.75	7.61	19.2	20.7
PHS111116-WC-P-44: Student Mall, west wall, right fixture	Water Cooler Fountain	7.97	7.92	16	11.7
PHS111116-CF-P-48: Magazine Storage, Room 270D	Classroom Faucet	7.78	7.77	18.2	17.8

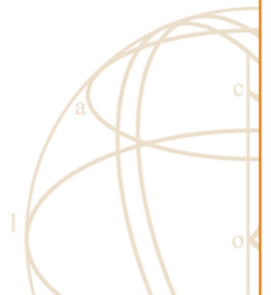
Table 3: Remedial Sampling Analytical Results Summary

Sample Identification and Location	Fixture Type	Initial Lead Results (µg/L)	4/6/17 Lead Results (µg/L)
CF-P-18: Art, Room 140A, south wall, right fixture	Classroom Faucet	<1.0	2.58
FC-P-19: Art, Room 140A, east wall, south corner	Classroom Faucet	21.2	2.99
CF-P-53: Art, Room 140A, south wall, left fixture	Classroom Faucet	-	1.65
<i>Laboratory Blank (-52, -54)</i>	<i>Distilled Water Blank</i>	<1.0	<1.00
<i>Laboratory Spike (-51, -55)</i>	<i>Lead and Copper Spike</i>	15	15.7
EPA Action Level		15	15

- 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 indicated in **bold** indicate concentrations above the action levels of 15 µg/L for lead
 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 52 sample(s) on 11/11/16 for analysis. These sample(s) have been assigned a login order number of W611057. 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.

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:

A handwritten signature in black ink, appearing to read "Fernanda Pincheira".

12/13/16

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

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

Client Project:

No Project

RJ Lee Group No.: W611057
COC No.:
Samples Received: 11/11/16
Analysis/Prep Date: 12/09/16
Report Date: 12/13/16

Sample Name: PHS111116-KF-P-01 **Date Received:** 11/11/16
RJ Lee Grp. ID: W611057-01 **Matrix:** Potable Water **Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.877	0.0100	
Lead	EPA 200.8	0.00330	0.001	

Sample Name: PHS111116-KF-P-02 **Date Received:** 11/11/16
RJ Lee Grp. ID: W611057-02 **Matrix:** Potable Water **Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.775	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-KF-P-03 **Date Received:** 11/11/16
RJ Lee Grp. ID: W611057-03 **Matrix:** Potable Water **Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.696	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-KF-P-04 **Date Received:** 11/11/16
RJ Lee Grp. ID: W611057-04 **Matrix:** Potable Water **Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.755	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-KF-P-05 **Date Received:** 11/11/16
RJ Lee Grp. ID: W611057-05 **Matrix:** Potable Water **Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.609	0.0100	
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_v18.rpt

Approved: 12/12/16 13:50
Report Time Stamp: 12/13/16 10:04

**Sample Name:** PHS111116-KF-P-06**RJ Lee Grp. ID:** W611057-06**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.811	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-KF-P-07**RJ Lee Grp. ID:** W611057-07**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.809	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-KF-P-08**RJ Lee Grp. ID:** W611057-08**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.680	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-KF-P-09**RJ Lee Grp. ID:** W611057-09**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.01	0.0100	
Lead	EPA 200.8	0.00196	0.001	

Sample Name: PHS111116-KF-P-10**RJ Lee Grp. ID:** W611057-10**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.13	0.0100	
Lead	EPA 200.8	0.00201	0.001	

Sample Name: PHS111116-KF-P-11**RJ Lee Grp. ID:** W611057-11**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.06	0.0100	
Lead	EPA 200.8	0.00205	0.001	

**Sample Name:** PHS111116-KF-P-12**RJ Lee Grp. ID:** W611057-12**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.618	0.0100	
Lead	EPA 200.8	0.00245	0.001	

Sample Name: PHS111116-KF-P-13**RJ Lee Grp. ID:** W611057-13**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.473	0.0100	
Lead	EPA 200.8	0.00167	0.001	

Sample Name: PHS111116-WC-P-14**RJ Lee Grp. ID:** W611057-14**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.809	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-CF-P-15**RJ Lee Grp. ID:** W611057-15**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.315	0.0100	
Lead	EPA 200.8	0.00344	0.001	

Sample Name: PHS111116-WC-P-16**RJ Lee Grp. ID:** W611057-16**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.774	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-FC-P-17**RJ Lee Grp. ID:** W611057-17**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.847	0.0100	
Lead	EPA 200.8	0.00507	0.001	



Sample Name: PHS111116-CF-P-18

RJ Lee Grp. ID: W611057-18

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.204	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-FC-P-19

RJ Lee Grp. ID: W611057-19

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.399	0.0100	
Lead	EPA 200.8	0.0212	0.001	

Sample Name: PHS111116-WC-P-20

RJ Lee Grp. ID: W611057-20

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.513	0.0100	
Lead	EPA 200.8	0.00104	0.001	

Sample Name: PHS111116-WC-P-21

RJ Lee Grp. ID: W611057-21

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.571	0.0100	
Lead	EPA 200.8	0.00109	0.001	

Sample Name: PHS111116-FC-P-22

RJ Lee Grp. ID: W611057-22

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.189	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-FC-P-23

RJ Lee Grp. ID: W611057-23

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.351	0.0100	
Lead	EPA 200.8	0.00611	0.001	

**Sample Name:** PHC111116-FC-P-24**RJ Lee Grp. ID:** W611057-24**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.08	0.0100	
Lead	EPA 200.8	0.00124	0.001	

Sample Name: PHS111116-WC-P-25**RJ Lee Grp. ID:** W611057-25**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.586	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-CF-P-26**RJ Lee Grp. ID:** W611057-26**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.606	0.0100	
Lead	EPA 200.8	0.00100	0.001	

Sample Name: PHS111116-CF-P-27**RJ Lee Grp. ID:** W611057-27**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.597	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-WC-P-28**RJ Lee Grp. ID:** W611057-28**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.120	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-WC-P-29**RJ Lee Grp. ID:** W611057-29**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.523	0.0100	
Lead	EPA 200.8	< 0.001	0.001	


Sample Name: PHS111116-WC-P-30

RJ Lee Grp. ID: W611057-30

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.433	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-WC-P-31

RJ Lee Grp. ID: W611057-31

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.826	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-WC-P-32

RJ Lee Grp. ID: W611057-32

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.820	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHC111116-WC-P-33

RJ Lee Grp. ID: W611057-33

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.704	0.0100	
Lead	EPA 200.8	0.00128	0.001	

Sample Name: PHS111116-CF-P-34

RJ Lee Grp. ID: W611057-34

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.685	0.0100	
Lead	EPA 200.8	0.00459	0.001	

Sample Name: PHS111116-WC-P-35

RJ Lee Grp. ID: W611057-35

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.503	0.0100	
Lead	EPA 200.8	< 0.001	0.001	


Sample Name: PHS111116-WC-P-36

RJ Lee Grp. ID: W611057-36

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.553	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-WC-P-37

RJ Lee Grp. ID: W611057-37

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.733	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-WC-P-38

RJ Lee Grp. ID: W611057-38

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.396	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-WC-P-39

RJ Lee Grp. ID: W611057-39

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.346	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-FC-P-40

RJ Lee Grp. ID: W611057-40

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.941	0.0100	
Lead	EPA 200.8	0.00264	0.001	

Sample Name: PHS111116-WC-P-41

RJ Lee Grp. ID: W611057-41

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.997	0.0100	
Lead	EPA 200.8	< 0.001	0.001	


Sample Name: PHS111116-WC-P-42

RJ Lee Grp. ID: W611057-42

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.08	0.0100	
Lead	EPA 200.8	0.00104	0.001	

Sample Name: PHS111116-WC-P-43

RJ Lee Grp. ID: W611057-43

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.350	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-WC-P-44

RJ Lee Grp. ID: W611057-44

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.343	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-WC-P-45

RJ Lee Grp. ID: W611057-45

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.517	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-WC-P-46

RJ Lee Grp. ID: W611057-46

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.524	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-WC-P-47

RJ Lee Grp. ID: W611057-47

Matrix: Potable Water

Date Received: 11/11/16

Date Analyzed: 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.390	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

**Sample Name:** PHS111116-CF-P-48**RJ Lee Grp. ID:** W611057-48**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.596	0.0100	
Lead	EPA 200.8	0.0133	0.001	

Sample Name: PHS111116-WC-P-49**RJ Lee Grp. ID:** W611057-49**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.546	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-FC-P-50**RJ Lee Grp. ID:** W611057-50**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.316	0.0100	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: PHS111116-FC-P-51**RJ Lee Grp. ID:** W611057-51**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.27	0.0100	
Lead	EPA 200.8	0.0150	0.001	

Sample Name: PHS111116-FC-P-52**RJ Lee Grp. ID:** W611057-52**Matrix:** Potable Water**Date Received:** 11/11/16**Date Analyzed:** 12/09/16

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	< 0.0100	0.0100	
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

W611057

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ATTENTION TO:		Project No.: <u>W611057</u>		Client Job No.: <u>16184801</u>	
Lab Use Only	Project No.: Date Logged In: Logged In By:	Client No.: Name: Amanda Embys, Ryan Matthews 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: aembys@fulcrum.net, cc: rmatthews@fulcrum.net Email Results To: aembys@fulcrum.net, cc: rmatthews@fulcrum.net Fax Results To:			
Report Results To	Name: Lorie Boutilier Company: Fulcrum Environmental Address: 406 N 2nd Street City, State, Zip: Yakima, WA, 98901 Phone: (509) 574-0839 Fax: (509) 575-8453	Turnaround Request Standard: Yes No If 'No', No. of Business Days: Sample Purpose: Information X Regulatory ☐ Accreditation (please list below): System ID #: DOH Source #: Multiple Sources #:			
Send Invoice To	Name: Lorie Boutilier Company: Fulcrum Environmental Address: 406 N 2nd Street City, State, Zip: Yakima, WA, 98901 Phone: (509) 574-0839 Fax: (509) 575-8453	Drinking Water Sample Only Sample Purpose: Information X Regulatory ☐ Accreditation (please list below): System ID #: DOH Source #: Multiple Sources #:			
Special Instructions		Chemistry Analysis Key Preservation: Unpres H ₂ SO ₄ 4°C HCl NaOH Na ₂ SO ₄ E=Extract Matrix: WW=Wastewater GW=Groundwater S=Soil/Sludge Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube) SW=Surface Water DW=Drinking Water O=Oil X=Other			
Client Sample ID	Sample Description	Sample Date	Start	Stop	Wipe Area / Air Volume
PHS11116-KF-P-01	Kitchen fixture	11-11-16			
PHS11116-KF-P-02	Kitchen fixture	11-11-16			
PHS11116-KF-P-03	Kitchen fixture				
PHS11116-KF-P-04					
PHS11116-KF-P-05					
PHS11116-KF-P-06					
PHS11116-KF-P-07					
PHS11116-KF-P-08					
PHS11116-KF-P-09					
PHS11116-KF-P-10					
PHS11116-KF-P-11					
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Date: 11-11-16 Time: 1200 Relinquished To: Method of Shipment:	Chain of Custody		
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Date: 11-11-16 Time: 1135 Relinquished To: Method of Shipment:	Chain of Custody		
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Date: 11-11-16 Time: 1135 Relinquished To: Method of Shipment:	Chain of Custody		



RJ LEE GROUP
DELIVERING SCIENTIFIC RESOLUTION

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R4_12032015

Request for Environmental and IH Laboratory Analytical Services

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W611057, Page 14 of 16

ATTENTION TO:		Project No.: <u>1618946.01</u>		Client Job No.: <u>1618946.01</u>	
Lab Use Only	Project No.: <u>1618946.01</u>	Client No.: <u>1618946.01</u>		Turnaround Request	
	Date Logged In: <u>11-11-16</u>	Logged In By: <u>Kyle Ames</u>		Standard: Yes No If 'No,' No. of Business Days: <u>1618946.01</u>	
Report Results To	Name: <u>Amber Enbysk, Ryan Mathews</u>	Company: <u>Fulcrum Environmental Consulting</u>		Sample Purpose: Information X Regulatory ☐ Accreditation (please list below):	
	Address: <u>406 North 2nd Street</u>	City, State, Zip: <u>Yakima, WA, 98901</u>		System ID #: <u> </u>	
	Phone: <u>(509) 574-0839</u>	Fax: <u>(509) 575-8453</u>		DOH Source #: <u> </u>	
	Call with Verbal Results: <u> </u>	Email Results To: <u>aenbysk@fulcrum.net, cc: rmathews@fulcrum.net</u>		Multiple Sources #: <u> </u>	
	Fax Results To: <u> </u>	Name: <u>Lorrie Boutiller</u>		Sample Purpose: ☐ A ☐ B ☐ Other ☐	
Send Invoice To	Company: <u>Fulcrum Environmental</u>		Email: <u>lboutiller@fulcrum.net</u>		Chemistry Analysis Key Unpres H ₂ SO ₄ Matrix: ☐ W=Wastewater ☐ SW=Surface Water 4°C HCl ☐ GW=Groundwater ☐ DW=Drinking Water HNO ₃ NaOH ☐ S=Soil/Sludge ☐ O=Oil Other Na ₂ SO ₄ E=Extract ☐ X=Other Container: ☐ P=Plastic ☐ G=Glass ☐ W=Wipe ☐ A=Air (filter or tube)
City, State, Zip: <u>406 N 2nd Street</u>	City, State, Zip: <u>Yakima, WA, 98901</u>		Fax: <u>(509) 575-8453</u>		
Phone: <u>(509) 574-0839</u>	Fax: <u>(509) 575-8453</u>				
Special Instructions					
Client Sample ID	Sample Description	Sample Date	Sample Time	Wipe Area / Air Volume	Analysis Requested
PT511116-FC-P-23	free choice	11-11-16			EPA 200.8: Pb, Cu Preservation Matrix Container Type pH No. Containers
PT511116-FC-P-24	free choice				
PT511116-WC-P-25	water cooler				
PT511116-FC-P-26	classroom faucet				
PT511116-FC-P-27	classroom faucet				
PT511116-WC-P-28	water cooler				
PT511116-WC-P-29	water cooler				
PT511116-WC-P-30	water cooler				
PT511116-WC-P-31	water cooler				
PT511116-WC-P-32	water cooler				
PT511116-WC-P-33	water cooler				
Chain of Custody	Relinquished By (Signature): <u>Kyle Ames</u>	Date: <u>11-11-16</u>	Time: <u>1200</u>	Chain of Custody	
	Relinquished By (Print Name): <u>Kyle Ames</u>	Relinquished To: <u> </u>	Method of Shipment: <u> </u>	Chain of Custody	
	Company Name: <u>Fulcrum</u>	Date: <u> </u>	Time: <u> </u>	Chain of Custody	
	Relinquished By (Signature): <u> </u>	Date: <u> </u>	Time: <u> </u>	Chain of Custody	
	Relinquished By (Print Name): <u> </u>	Relinquished To: <u> </u>	Method of Shipment: <u> </u>	Chain of Custody	
	Company Name: <u> </u>	Date: <u> </u>	Time: <u> </u>	Chain of Custody	



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509.544.6010 Fax

RA_12032015

Page 4 of 5

ATTENTION TO:						Purchase Order No.:	Client Job No.:			
Lab Use Only	Project No.: Date Logged In:	Client No.: Logged In By:	Turnaround Request	Standard: Yes No	If No., No. of Business Days:		16189801			
Report Results To	Name: Amanda Embysky, Ryan Matthews		Drinking Water	Sample Purpose: Information X Regulatory	Accreditation (please list below):					
	Company: Fulcrum Environmental Consulting		System ID #:	DOH Source #:						
	Address: 406 North 2nd Street		Multiple Sources #s:							
	City, State, Zip: Yakima, WA, 98901	Fax: (509) 575-8453	Sample Purpose: A B Other	Preservation: Matrix: SW=Surface Water DW=Drinking Water O=Oil W=Wipe A=Air (filter or tube)						
Send Invoice To	Email Results To: aembysky@fulcrum.net, cc: rmatthews@fulcrum.net		Chemistry Analysis Key	Unpres H2SO4 4°C NaOH HNO3 Other	Matrix: WW=Wastewater GW=Groundwater S=Soil/Sediment E=Extract					
	Fax Results To:		Analysis Requested							
Special Instructions	Name: Lorrie Boutillier		EPA 200.8: Pb, Cu							
	Company: Fulcrum Environmental	Email: lboutillier@fulcrum.net								
	Address: 406 N 2nd Street									
	City, State, Zip: Yakima, WA, 98901	Fax: (509) 575-8453								
Client Sample ID	Sample Description	Sample Date	Sample Time Start Stop	Wipe Area / Air Volume	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
PTSI11116-CF-P-34	classroom faucet	11-11-16								14.8°
PTSI11116-WC-P-35	water cooler									14.4°
PTSI11116-WC-P-36	water cooler									14.3°
PTSI11116-WC-P-37	water cooler									15.3°
PTSI11116-WC-P-38	water cooler									
PTSI11116-WC-P-39	water cooler									
PTSI11116-FG-P-40	free choice									
PTSI11116-WC-P-41	water cooler									
PTSI11116-WC-P-42	water cooler									
PTSI11116-WC-P-43	water cooler									
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Kyle Ames Company Name: Fulcrum	Date: 11-11-16 Time: 1200	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:	Date: Time:	Relinquished To: Method of Shipment:	Date: Time:	Relinquished To: Method of Shipment:	Date: Time:	Relinquished To: Method of Shipment:
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Date: Time:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:	Date: Time:	Relinquished To: Method of Shipment:	Date: Time:	Relinquished To: Method of Shipment:	Date: Time:	Relinquished To: Method of Shipment:

Request for Environmental and IH Laboratory Analytical Services

Page 5 of 5

ATTENTION TO: Ryan Mathews		Purchase Order No.:		Client Job No.: 1618946.01					
Lab Use Only	Project No.: Date Logged In: Logged In By:	Client No.:	Standard: Yes	No	If 'No,' No. of Business Days:				
Report Results To	Name: Amanda Enbyk, Ryan Mathews	Sample Only	Drinking Water	System ID #:	Sample Purpose: Information X Regulatory ☐ Accreditation (please list below):				
	Company: Fulcrum Environmental Consulting		DOH Source #:	Multiple Sources #s:					
	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: aenbyk@fulcrum.net, cc: rmathews@fulcrum.net	Chemistry Analysis Key	Preservation: Unpres H ₂ SO ₄ 4°C HCl NaOH 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)				
Send Invoice To	Name: Lorrie Boutilier Company: Fulcrum Environmental Address: 406 N 2nd Street City, State, Zip: Yakima, WA, 98901 Phone: (509) 574-0839 Fax: (509) 575-8453	Analysis Requested							
Special Instructions		EPA 200.8: Pb, Cu	Pres. Upon Receipt (Y/N)						
Client Sample ID	Sample Description	Sample Date	Sample Time	Wipe Area / Air Volume	Preservation	Matrix	Container Type	pH	No. Containers
	PTS11116-WC-P-44	water cooler	11-11-16						
	PTS11116-WC-P-45	water cooler							
	PTS11116-WC-P-46	water cooler							
	PTS11116-WC-P-47	water cooler							
	PTS11116-WC-P-48	classroom faucet							
	PTS11116-WC-P-49	water cooler							
	PTS11116-WC-P-50	free choice							
	PTS11116-WC-P-51	free choice							
	PTS11116-WC-P-52	free choice							
Chain of Custody	Relinquished By (Signature): [Signature] Relinquished By (Print Name): Kyle Aves Company Name: Fulcrum	Date: 11-11-16 Time: 1200	Relinquished To:	Method of Shipment:	Chain of Custody	Received By (Signature): [Signature] Received By (Print Name): [Signature] Company Name: [Signature]	Date: 11/11/16 Time: 1135	Relinquished To:	Method of Shipment:
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Date: Relinquished To: Time:	Relinquished To:	Method of Shipment:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:	Date: Relinquished To: 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



R4_12032015

ATTACHMENT E

Remedial Analytical Results





Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Fulcrum Environmental

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

RE: Pasco School District DW - Pasco High School

Work Order Number: 1704091

April 07, 2017

Attention Ryan Mathews:

Fremont Analytical, Inc. received 11 sample(s) on 4/7/2017 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

DoD/ELAP Certification #L2371, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)

CLIENT: Fulcrum Environmental
Project: Pasco School District DW - Pasco High Sch
Work Order: 1704091

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1704091-001	PHS4617-CF-P-18	04/06/2017 8:00 AM	04/07/2017 10:25 AM
1704091-002	PHS4617-CF-S-18	04/06/2017 8:00 AM	04/07/2017 10:25 AM
1704091-003	PHS4617-CF-T-18	04/06/2017 8:00 AM	04/07/2017 10:25 AM
1704091-004	PHS4617-CF-P-19	04/06/2017 8:00 AM	04/07/2017 10:25 AM
1704091-005	PHS4617-CF-S-19	04/06/2017 8:00 AM	04/07/2017 10:25 AM
1704091-006	PHS4617-CF-T-19	04/06/2017 8:00 AM	04/07/2017 10:25 AM
1704091-007	PHS4617-CF-P-53	04/06/2017 8:00 AM	04/07/2017 10:25 AM
1704091-008	PHS4617-CF-S-53	04/06/2017 8:00 AM	04/07/2017 10:25 AM
1704091-009	PHS4617-CF-T-53	04/06/2017 8:00 AM	04/07/2017 10:25 AM
1704091-010	PHS4617-OF-P-54	04/06/2017 8:00 AM	04/07/2017 10:25 AM
1704091-011	PHS4617-DF-P-55	04/06/2017 8:00 AM	04/07/2017 10:25 AM

CLIENT: Fulcrum Environmental
Project: Pasco School District DW - Pasco High School

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:

1704091-001A 214685: Prep Comments for EPA200.8, Sample 1704091-001A: Turbidity: 0.15 NTU

1704091-004A 214686: Prep Comments for EPA200.8, Sample 1704091-004A: Turbidity: 0.17 NTU

1704091-007A 214687: Prep Comments for EPA200.8, Sample 1704091-007A: Turbidity: 0.08 NTU

1704091-010A 214688: Prep Comments for EPA200.8, Sample 1704091-010A: Turbidity: 0.01 NTU

1704091-011A 214689: Prep Comments for EPA200.8, Sample 1704091-011A: Turbidity: 0.01 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



Work Order: 1704091

Date Reported: 4/7/2017

CLIENT: Fulcrum Environmental

Project: Pasco School District DW - Pasco High School

Lab ID: 1704091-001

Client Sample ID: PHS4617-CF-P-18

Collection Date: 4/6/2017 8:00:00 AM

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: 16723

Analyst: TN

Lead	2.58	1.00		µg/L	1	4/7/2017 4:14:02 PM
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Lab ID: 1704091-004

Client Sample ID: PHS4617-CF-P-19

Collection Date: 4/6/2017 8:00:00 AM

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: 16723

Analyst: TN

Lead	2.99	1.00		µg/L	1	4/7/2017 4:18:04 PM
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Lab ID: 1704091-007

Client Sample ID: PHS4617-CF-P-53

Collection Date: 4/6/2017 8:00:00 AM

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: 16723

Analyst: TN

Lead	1.65	1.00		µg/L	1	4/7/2017 4:22:05 PM
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Analytical Report

Work Order: 1704091

Date Reported: 4/7/2017

CLIENT: Fulcrum Environmental

Project: Pasco School District DW - Pasco High School

Lab ID: 1704091-010

Client Sample ID: PHS4617-OF-P-54

Collection Date: 4/6/2017 8:00:00 AM

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: 16723

Analyst: TN

Lead	ND	1.00		µg/L	1	4/7/2017 4:26:06 PM
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Lab ID: 1704091-011

Client Sample ID: PHS4617-DF-P-55

Collection Date: 4/6/2017 8:00:00 AM

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: 16723

Analyst: TN

Lead	15.7	1.00		µg/L	1	4/7/2017 4:30:08 PM
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Work Order: 1704091
CLIENT: Fulcrum Environmental
Project: Pasco School District DW - Pasco High Sch

QC SUMMARY REPORT

Drinking Water Metals by EPA Method 200.8

Sample ID	MB-16723	SampType: MBLK		Units: µg/L		Prep Date: 4/7/2017		RunNo: 35429			
Client ID:	MBLKW	Batch ID: 16723				Analysis Date: 4/7/2017		SeqNo: 678502			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	1.00									
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Sample ID	LCS-16723	SampType: LCS			Units: µg/L		Prep Date: 4/7/2017			RunNo: 35429		
Client ID:	LCSW	Batch ID: 16723			Analysis Date: 4/7/2017			SeqNo: 678505				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Lead	50.5	1.00	50.00	0	101	85	115				
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Sample ID	1704069-009ADUP	SampType:	DUP	Units:	µg/L	Prep Date:	4/7/2017	RunNo:	35429		
Client ID:	BATCH	Batch ID:	16723	Analysis Date:				4/7/2017	SeqNo:	678507	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	1.00						0		30	
------	----	------	--	--	--	--	--	---	--	----	--

Sample ID	1704069-009AMS	SampType: MS			Units: µg/L		Prep Date: 4/7/2017			RunNo: 35429		
Client ID:	BATCH	Batch ID: 16723			Analysis Date: 4/7/2017					SeqNo: 678508		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Lead	102	1.00	100.0	0	102	70	130				
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Sample ID	1704069-009AMSD	SampType: MSD			Units: µg/L		Prep Date: 4/7/2017			RunNo: 35429		
Client ID:	BATCH	Batch ID: 16723			Analysis Date: 4/7/2017					SeqNo: 678509		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Lead	107	1.00	100.0	0	107	70	130	102.1	4.32	30	
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Work Order Number: **1704091**

Date Received: **4/7/2017 10:25:00 AM**

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

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 $>0^{\circ}\text{C}$ 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 ☐
			HNO ₃
12. Is there headspace in the VOA vials?	Yes ☐	No ☐	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 ☐	

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

Person Notified: Date:
 By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding:
 Client Instructions:

19. Additional remarks:

Item #	Temp °C
Cooler	3.3
Sample	2.3

Original



Fremont

Analytical

3600 Fremont Ave N.
Seattle, WA 98103

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

Client: Fulcrum Environmental Consulting

Address: 406 North Second Street

City, State, Zip: Yakima, WA, 98901

Telephone: 509.574.0839

Fax: 509.575.8453

PM Email:

rmathews@fulcrum.net; cc: aenbysk@fulcrum.net

Project Name:

Pasco School District DW - Pasco High School

Project No:

160898.15

Collected by: Amanda Enbysk

Location:

Pasco High School, Pasco, WA

Report To (PM):

Ryan Mathews

Date: 4/6/2017

Laboratory Project No (Internal):

1704691

Page: 1 of 2

Chain of Custody Record and Laboratory Services Agreement

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (C)***	EDB (8011)	Comments
1 PHS 4617-CF-P-18	4/6/17	0800	DW														H ₂ O ₂ preserved
2 PHS 4617-CF-S-18																	HOLD; unpreserved
3 PHS 4617-CF-T-18																	↓
4 PHS 4617-CF-P-19																	HOLD; unpreserved
5 PHS 4617-CF-S-19																	↓
6 PHS 4617-CF-T-19																	↓
7 PHS 4617-CF-P-53																	HOLD; unpreserved
8 PHS 4617-CF-S-53																	↓
9 PHS 4617-CF-T-53																	↓
10 PHS 4617-CF-P-54																	↓

***Metals Analysis (Circle): MTCA-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 Ti 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: Amada Mathews Date/Time: 4/6/2017, 1500 Received: AM Date/Time: 4/7/17 1025

Reinquired: J Date/Time: Received: X Date/Time:

TAT → SameDay^ NextDay^ 2 Day 3 Day STD

Please coordinate with the lab in advance



Fremont

Analytical

3600 Fremont Ave N.
Seattle, WA 98103

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

Client: Fulcrum Environmental Consulting

Address: 406 North Second Street
Yakima, WA, 98901

City, State, Zip: 509.574.0839

Fax: 509.575.8453

Project Name:

Base School District Du-Rose High School

Collected by: Amanda Embysk

Project No:

16898.15

Base High School, Rose, WA

Location:

Ryan Mathews

Report To (PM):

rmathews@fulcrum.net; cc: aembysk@fulcrum.net

Date: 4/6/2017

Laboratory Project No (Internal):
Page: 2 of 2

Chain of Custody Record and Laboratory Services Agreement

*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)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (801.1)	Comments
1) HX4617-DF-P-55	4/6/17	0800	DW														
2)																	
3)																	
4)																	
5)																	
6)																	
7)																	
8)																	
9)																	
10)																	

**Metals Analysis (Circle): MTCA-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 Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite Turn-around times for samples received after 4:00pm will begin on the following business day.

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.)

see page 1

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 Date/Time 4/6/17 1500 Received Date/Time 4/7/17 1025

Relinquished Date/Time 4/6/17 1500 Received Date/Time 4/7/17 1025

Relinquished Date/Time 4/6/17 1500 Received Date/Time 4/7/17 1025

TAT → SameDay^ NextDay^ 2 Day 3 Day STD

Please coordinate with the lab in advance