

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
Ridge View Elementary School, 7001 West 13th Avenue, Kennewick, Washington**

Dear Keith:

On Wednesday, December 21, 2016, Fulcrum Environmental Consulting, Inc. (Fulcrum) collected 40 drinking water samples for lead and copper analysis from Ridge View Elementary School (School) located at 7001 West 13th Avenue in Kennewick, Washington. Initial sampling identified three fixture locations with lead concentrations above guidance levels and one fixture location with a copper concentration above guidance levels. Fulcrum returned to the School on January 28, and May 2, 2017 to collect samples after remediation 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 December 21, 2016. Initial results identified three samples with lead concentrations above the Environmental Protection Agency (EPA) action level of 15 micrograms per liter ($\mu\text{g/L}$), and one sample with a copper concentration above the EPA action level of 1,300 $\mu\text{g/L}$. Upon receipt of results, the District removed the identified fixtures from service pending remediation and further testing.

The fixtures identified with an elevated lead concentration were 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, and May 2, 2017 and

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

collected follow-up samples to confirm the success of fixture replacements. No other fixtures of like style were replaced. Follow-up samples yielded results below the EPA action level, confirming fixture replacements were successful.

Copper is not a significant component in fixtures, but is the primary material in the plumbing system. To remediate elevated copper, the District aggressively flushed the fixture, located in Classroom 38, with cold water to clear the plumbing of copper construction debris. Fulcrum returned on January 28, 2017 and collected samples to evaluate the success of the remediation. Follow-up samples found copper concentrations below the EPA action level, confirming the remediation 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 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 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 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 three samples with lead concentrations above the EPA action level of 15 µg/L and one sample with a copper concentration above the EPA action level of 1,300 µg/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 the identified fixtures. Fulcrum returned on January 28, and May 2, 2017 following fixture replacement and preconditioning to collect follow-up samples from the initially identified fixtures. No other fixtures of like style were replaced. See Attachment F for a photograph layout with the identified fixture styles.

To remediate elevated copper concentrations, the District completed an aggressive flush of the identified fixture. Fulcrum returned on the morning following the aggressive flush, January 28, 2017, to collect follow-up samples from the fixture.

Analytical results from remedial sampling indicated the fixture replacement and aggressive flushing were successful at reducing lead and copper concentrations below action levels for the fixtures in question.

Recommendations

Three initial samples contained lead above the EPA action level of 15 µg/L and one initial sample contained copper above the EPA action level of 1,300 µg/L. The District replaced the identified fixtures with elevated lead and preconditioned the fixtures for 24 hours as specified in WAC 246-366A-130. The District completed an aggressive flush of the fixture identified with elevated copper. Follow-up sampling demonstrated that all lead and copper concentrations were below action levels. Following remedial 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 styles.

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: Sample Location Map



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

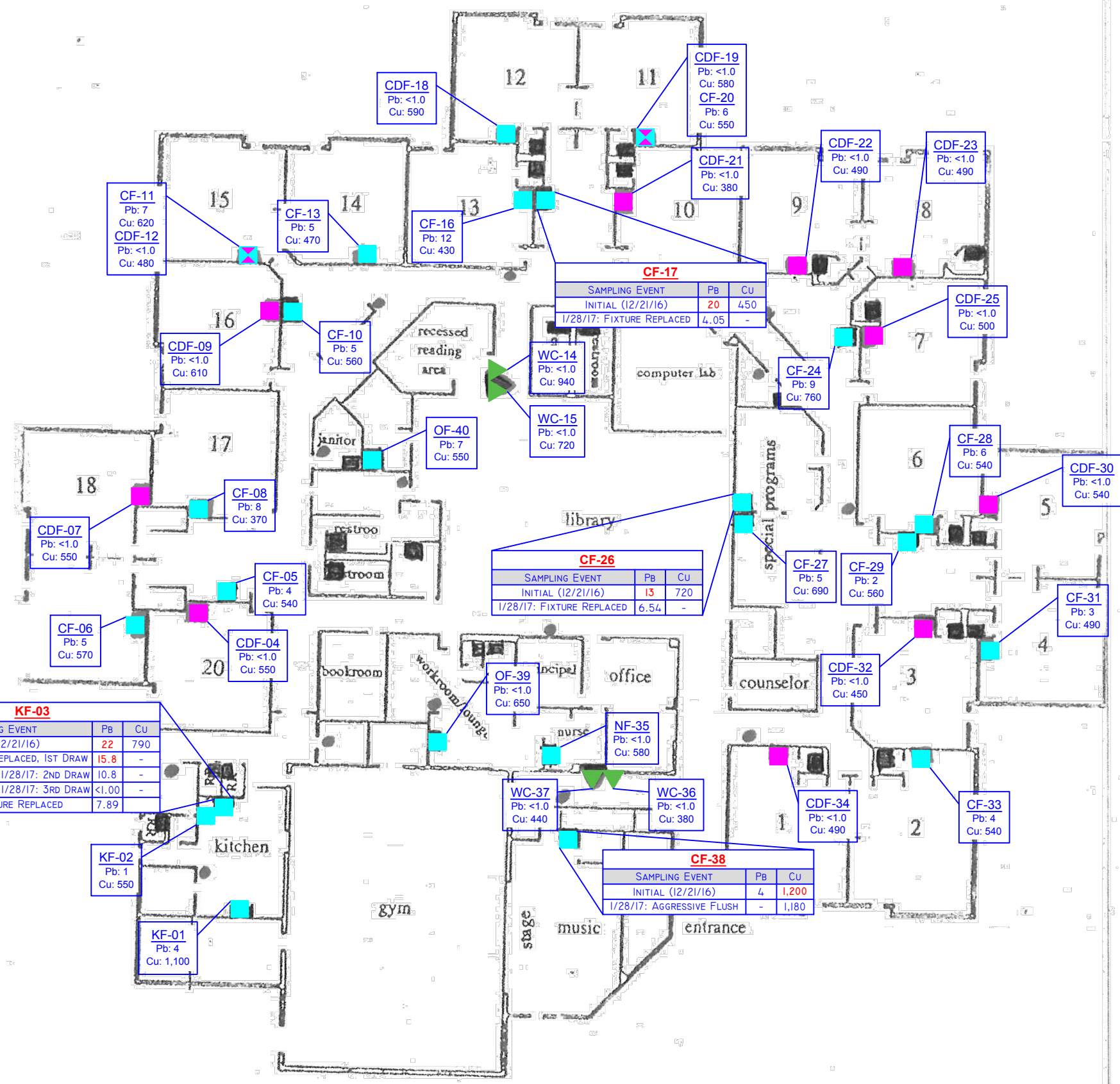
■ - Sample location: faucet
 ■ - Sample location: drinking fountain at sink
 ■ - Sample location: faucet and drinking fountain at same sink
 ▼ - Sample location: water cooler fountain

-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.

KF-03

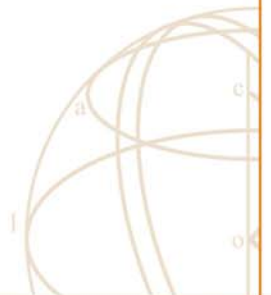
SAMPLING EVENT	Pb	Cu
INITIAL (12/21/16)	22	790
1/28/17: FIXTURE REPLACED, 1ST DRAW	15.8	-
1/28/17: 2ND DRAW	10.8	-
1/28/17: 3RD DRAW	<1.00	-
3/21/17: FIXTURE REPLACED	7.89	-



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/Building: Ridge View Elementary Address: 7001 West 13th Avenue, Kennewick, WA

Elementary Middle School High School Administration

Date of Construction: 1993 Modernizations: N/A

Fixture Type	Locations	Fixture Styles¹	Samples	Ratio
Drinking fountain/water cooler (DF/WC)	4	1	4	100%
Kitchen Fixture (KF)	3	3	3	100%
Classroom faucet, including faucets in Food Labs and Life Sciences Classrooms (CF)	29	1	17	59%
Classroom drinking fountain at sink (CDF)	20	1	13	65%
Nurse's Office/Health Room (NF)	1	1	1	100%
Teacher's Lounges/Work Rooms (OF)	2	2	2	100%
TOTALS	59		40	68%

¹ Fixture styles are approximate based on sampler's observations

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

Sample Prefix: RVE – 122116 – P (first-draw) – 01-42
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

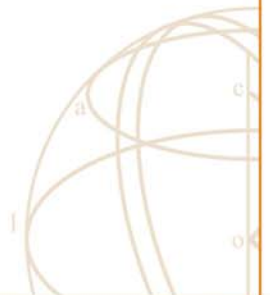


Table 1: Initial Sampling Analytical Results

Sample Identification and Location	Fixture Type	Lead Results (µg/L)	Copper Results (µg/L)
RVE122116-P-KF-01: Kitchen, N. Fixture	Kitchen Faucet	4	1,100
RVE122116-P-KF-02: Kitchen, E. wall, N. Fixture	Kitchen Faucet	1	550
RVE122116-P-KF-03: Kitchen, S. Fixture	Kitchen Faucet	22	790
RVE122116-P-CDF-04: Room 20	Classroom Drinking Fountain	<1.0	550
RVE122116-P-CF-05: Outside room 20	Classroom Faucet	4	540
RVE122116-P-CF-06: Room 19	Classroom Faucet	5	570
RVE122116-P-CDF-07: Room 18	Classroom Drinking Fountain	<1.0	550
RVE122116-P-CF-08: Room 17	Classroom Faucet	8	370
RVE122116-P-CDF-09: Room 16	Classroom Drinking Fountain	<1.0	610
RVE122116-P-CF-10: Outside room 16	Classroom Faucet	5	560
RVE122116-P-CF-11: Room 15	Classroom Faucet	7	620
RVE122116-P-CDF-12: Room 15	Classroom Drinking Fountain	<1.0	480
RVE122116-P-CF-13: Room 14	Classroom Faucet	5	470
RVE122116-P-WC-14: Outside recessed reading room, S. fixture	Water Cooler Fountain	<1.0	940
RVE122116-P-WC-15: Outside recessed reading room, N. fixture	Water Cooler Fountain	<1.0	720
RVE122116-P-CF-16: Room 13	Classroom Faucet	12	430
RVE122116-P-CF-17: Corridor adjacent Room 13	Classroom Faucet	20	450
RVE122116-P-CDF-18: Room 12	Classroom Drinking Fountain	<1.0	590
RVE122116-P-CDF-19: Room 11	Classroom Drinking Fountain	<1.0	580
RVE122116-P-CF-20: Room 11	Classroom Faucet	6	550
RVE122116-P-CDF-21: Room 10	Classroom Drinking Fountain	<1.0	380
RVE122116-P-CDF-22: Room 09	Classroom Drinking Fountain	<1.0	490
RVE122116-P-CDF-23: Room 08	Classroom Drinking Fountain	<1.0	490
RVE122116-P-CF-24: Corridor adjacent Room 07	Classroom Faucet	9	760
RVE122116-P-CDF-25: Room 07	Classroom Drinking Fountain	<1.0	500
RVE122116-P-CF-26: Support Services 2	Classroom Faucet	13	720
RVE122116-P-CF-27: Support Services	Classroom Faucet	5	690
RVE122116-P-CF-28: Room 06	Classroom Faucet	6	540
RVE122116-P-CF-29: Corridor adjacent Room 06	Classroom Faucet	2	560
RVE122116-P-CDF-30: Room 05	Classroom Drinking Fountain	<1.0	540
RVE122116-P-CF-31: Room 04	Classroom Faucet	3	490
RVE122116-P-CDF-32: Room 03	Classroom Drinking Fountain	<1.0	450
RVE122116-P-CF-33: Room 02	Classroom Faucet	4	540
RVE122116-P-CDF-34: Room 01	Classroom Drinking Fountain	<1.0	490
RVE122116-P-NF-35: Nurse's office	Nurse's Faucet	<1.0	580
RVE122116-P-WC-36: Corridor adjacent Nurse's Office, right fixture	Water Cooler Fountain	<1.0	380
RVE122116-P-WC-37: Corridor adjacent Nurse's Office, left fixture	Water Cooler Fountain	<1.0	440

Sample Identification and Location	Fixture Type	Lead Results (µg/L)	Copper Results (µg/L)
RVE122116-P-CF-38: Music Room	Classroom Faucet	4	1,200
RVE122116-P-OF-39: Staff Workroom/Lounge	Office Faucet	<1.0	650
RVE122116-P-OF-40: Library Workroom	Office Faucet	7	550
<i>RVE122116-P-CF-41: Laboratory Spike</i>	<i>Lead and Copper Spike</i>	<i>13</i>	<i>1,200</i>
<i>RVE122116-P-CF-42: 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
RVE122116-P-KF-01: Kitchen, N. Fixture	Kitchen Faucet	7.86	7.90	19.7	18.0
RVE122116-P-CDF-04: Room 20	Classroom Drinking Fountain	7.71	7.78	20.5	19.6
RVE122116-P-CF-08: Room 17	Classroom Faucet	7.83	7.86	17.4	20.4
RVE122116-P-CDF-12: Room 15	Classroom Drinking Fountain	7.74	7.76	16.1	20.9
RVE122116-P-CF-16: Room 13	Classroom Faucet	7.81	7.80	15.9	20.7
RVE122116-P-CF-20: Room 11	Classroom Faucet	7.85	7.91	17.7	20.7
RVE122116-P-CF-24: Outside room 07	Classroom Faucet	7.87	7.81	18.8	20.8
RVE122116-P-CF-28: Room 06	Classroom Faucet	7.76	7.86	18.6	20.9
RVE122116-P-CDF-32: Room 03	Classroom Drinking Fountain	7.60	7.84	21.4	22.0
RVE122116-P-WC-36: Outside Nurse's Office, W. fixture	Water Cooler Fountain	7.68	7.89	12.7	13.0
RVE122116-P-OF-40: Library Work room	Office Fountain	7.78	7.53	18.5	17.4

Table 3: Remedial Sampling Analytical Results Summary

Sampling Event	Sample Identification					
	KF-03	CF-17	CF-26	CF-38	Laboratory Spike (-41)	Laboratory Blank (-42)
Lead Results						
Initial (12/21/16)	22	20	13	4	<i>13</i>	<i><1.0</i>
Fixture Replaced, First Draw (1/28/17)	15.8	4.05	6.54	-	<i>15.6</i>	<i><1.0</i>
Second Draw (1/28/17)	10.8	-	-	-	-	-
Third Draw (1/28/17)	<1.0	-	-	-	-	-
Aggressive Flush (3/21/17)	7.89	-	-	-	<i>16.7</i>	<i><1.0</i>
EPA Action Level	15	15	15	15	15	15
Copper Results						
Initial (12/21/16)	790	450	720	1,200	<i>1,200</i>	<i><10</i>
Aggressive Flush (1/28/17)	-	-	-	1,180	<i>1,320</i>	<i><0.5</i>
EPA Action Level	1,300	1,300	1,300	1,300	1,300	1,300

1 Results reported in micrograms per liter (µg/L) or parts per billion (ppb).

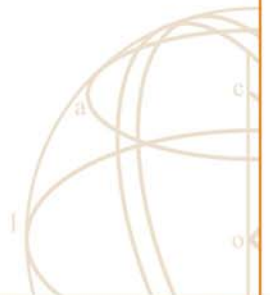
2 Action levels based on the U.S. EPA's Lead and Copper Rule.

Results indicated in **bold** indicate concentrations above the action levels of 15 µg/L for lead and 1,300 µg/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 42 sample(s) on 12/21/16 for analysis. These sample(s) have been assigned a login order number of W612105. 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.

-Samples analyzed on January 11, 2017 were run on separate instrumentation runs and remaining samples were analyzed on January 12, 2017.

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.

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:

01/13/17

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

Ryan Mathews

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

Client Project:

Fulcrum Kennewick

RJ Lee Group No.: W612105

COC No.: Kennewick

Samples Received: 12/21/16

Analysis/Prep Date: 01/12/17

Report Date: 01/13/17

Sample Name: RVE122116-P-KF-01 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-01 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.1	0.1	X
Lead	EPA 200.8	0.004	0.001	

Sample Name: RVE122116-P-KF-02 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-02 **Date Analyzed:** 01/11/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.55	0.01	
Lead	EPA 200.8	0.001	0.001	

Sample Name: RVE122116-P-KF-03 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-03 **Date Analyzed:** 01/11/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.79	0.01	
Lead	EPA 200.8	0.022	0.001	

Sample Name: RVE122116-P-CDF-04 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-04 **Date Analyzed:** 01/11/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.55	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-P-CF-05 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-05 **Date Analyzed:** 01/11/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.54	0.01	
Lead	EPA 200.8	0.004	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: 01/13/17 10:01
Report Time Stamp: 01/13/17 12:30



Sample Name: RVE122116-P-CF-06 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-06 **Date Analyzed:** 01/11/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.57	0.01	
Lead	EPA 200.8	0.005	0.001	

Sample Name: RVE122116-P-CDF-07 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-07 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.55	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-P-CF-08 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-08 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.37	0.01	
Lead	EPA 200.8	0.008	0.001	

Sample Name: RVE122116-P-CDF-09 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-09 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.61	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-P-CF-10 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-10 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.56	0.01	
Lead	EPA 200.8	0.005	0.001	

Sample Name: RVE122116-P-CF-11 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-11 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.62	0.01	
Lead	EPA 200.8	0.007	0.001	



Sample Name: RVE122116-P-CDF-12 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-12

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.48	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-P-CF-13 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-13

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.47	0.01	
Lead	EPA 200.8	0.005	0.001	

Sample Name: RVE122116-P-WC-14 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-14

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.94	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-P-WC-15 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-15

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.72	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-P-CF-16 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-16

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.43	0.01	
Lead	EPA 200.8	0.012	0.001	

Sample Name: RVE122116-P-CF-17 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-17

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.45	0.01	
Lead	EPA 200.8	0.020	0.001	



Sample Name: RVE122116-P-CDF-18 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-18

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.59	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-P-CDF-19 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-19

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.58	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-P-CF-20 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-20

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.55	0.01	
Lead	EPA 200.8	0.006	0.001	

Sample Name: RVE122116-P-CDF-21 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-21

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.38	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-P-CDF-22 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-22

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.49	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-P-CDF-23 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-23

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.49	0.01	
Lead	EPA 200.8	< 0.001	0.001	



Sample Name: RVE122116-P-CF-24 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-24 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.76	0.01	
Lead	EPA 200.8	0.009	0.001	

Sample Name: RVE122116-PC-CDF-25 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-25 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.50	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-PC-CF-26 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-26 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.72	0.01	
Lead	EPA 200.8	0.013	0.001	

Sample Name: RVE122116-PC-CF-27 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-27 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.69	0.01	
Lead	EPA 200.8	0.005	0.001	

Sample Name: RVE122116-P-CF-28 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-28 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.54	0.01	
Lead	EPA 200.8	0.006	0.001	

Sample Name: RVE122116-P-CF-29 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-29 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.56	0.01	
Lead	EPA 200.8	0.002	0.001	



Sample Name: RVE122116-P-CDF-30 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-30

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.54	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-P-CF-31 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-31

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.49	0.01	
Lead	EPA 200.8	0.003	0.001	

Sample Name: RVE122116-P-CDF-32 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-32

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.45	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-P-CF-33 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-33

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.54	0.01	
Lead	EPA 200.8	0.004	0.001	

Sample Name: RVE122116-P-CDF-34 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-34

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.49	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-P-NF-35 **Matrix:** Potable Water
RJ Lee Grp. ID: W612105-35

Date Received: 12/21/16
Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.58	0.01	
Lead	EPA 200.8	< 0.001	0.001	



Sample Name: RVE122116-P-WC-36 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-36 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.38	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-P-WC-37 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-37 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.44	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-P-CF-38 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-38 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.2	0.1	X
Lead	EPA 200.8	0.004	0.001	

Sample Name: RVE122116-P-OF-39 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-39 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.65	0.01	
Lead	EPA 200.8	< 0.001	0.001	

Sample Name: RVE122116-P-OF-40 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-40 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.55	0.01	
Lead	EPA 200.8	0.007	0.001	

Sample Name: RVE122116-P-CF-41 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612105-41 **Date Analyzed:** 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.20	0.01	X
Lead	EPA 200.8	0.013	0.001	


Sample Name: RVE122116-P-CF-42

Matrix: Potable Water

Date Received: 12/21/16

RJ Lee Grp. ID: W612105-42

Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	< 0.010	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
QA Officer/Organic Analytical SME John Coddington

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

WWW.RJLEEGROUP.COM

Report Template: GenMetalReportFull_v12.rpt

 Approved: 01/13/17 10:01
 Report Time Stamp: 01/13/17 12:30

Request for Environmental and IH Laboratory Analytical Services

W612105

ATTENTION TO: RYAN MATHEWS		Purchase Order No.: 162017	Client Job No.: 162017									
Lab Use Only	Project No.: Date Logged In: Client No.: Logged In By:	Turnaround Request	Standard: Yes No <input type="checkbox"/> If 'No', No. of Business Days: Accreditation (please list below):									
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: mathews@fulcrum.net Fax Results To:	Drinking Water Sample Only	Sample Purpose: Information X Regulatory <input type="checkbox"/> Accreditation DOH Source #: Multiple Sources #s: Preservation: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>									
Send Invoice To	Name: Lorrie Boutillier Company: Fulcrum Environmental Address: 406 North 2nd Street City, State, Zip: Yakima, WA, 98901 Phone: (509) 574-0839 Fax: (509) 575-8453	Chemistry Analysis Key	Matrix: <input type="checkbox"/> W=Water <input type="checkbox"/> S=Soil/Sediment <input type="checkbox"/> E=Extract <input type="checkbox"/> Unpres <input type="checkbox"/> HCl <input type="checkbox"/> NaOH <input type="checkbox"/> Na ₂ SO ₄ <input type="checkbox"/> 4°C <input type="checkbox"/> HNO ₃ <input type="checkbox"/> Other									
Special Instructions		Analysis Requested	Container: <input type="checkbox"/> P=Plastic <input type="checkbox"/> G=Glass <input type="checkbox"/> W=Wipe <input type="checkbox"/> A=Air (filter or tube)									
Client Sample ID	Sample Description	Sample Date	Start	Stop	Wipe Area / Air Volume	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers	
RVE122116-P-KF-01	Kitchen	12/21				X	UNPR	DW			18.9	
RVE122116-P-KF-02	Kitchen										19.0	
RVE122116-P-KF-03	Kitchen										19.0	
RVE122116-P-0F-04	Room 20										19.0	
RVE122116-P-0F-05	Outside Room 20										19.0	
RVE122116-P-CF-06	Room 19										19.0	
RVE122116-P-0F-07	Room 18										19.0	
RVE122116-P-CF-08	Room 17										19.0	
RVE122116-P-0F-09	Room 16										19.0	
RVE122116-P-CF-10	Outside Room 16										19.0	
RVE122116-P-CF-11	Room 15										18.9	
Chain of Custody	Relinquished By (Signature): <i>[Signature]</i> Relinquished By (Print Name): <i>Levi Wyatt</i> Company Name: <i>ECM</i>	Date: 12/21/16 Time: 1:53	Relinquished To:	Method of Shipment:	Chain of Custody	Received By (Signature): <i>[Signature]</i> Received By (Print Name): <i>[Signature]</i> Company Name: <i>[Signature]</i>	Date: DEC 21 2016 Time: 2:00	Relinquished To:	Method of Shipment:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:	Date: 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

W612105

Page 2 of 4

ATTENTION TO: RYAN MATHEWS		Purchase Order No.: 162017		Client Job No.: 162017						
Lab Use Only	Project No.: Date Logged In: Logged In By:	Client No.: 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:	Turnaround Request	Standard: Yes No Sample Purpose: Information X Regulatory <input type="checkbox"/> Accreditation (please list below): System ID #: DOH Source #: Multiple Sources #:	If 'No,' No. of Business Days: Accreditation (please list below):					
Report Results To	Name: Lorrie Boutillier Company: Fulcrum Environmental Address: 406 North 2nd Street City, State, Zip: Yakima, WA, 98901 Phone: (509) 574-0839 Fax: (509) 575-8453	Report Results To: Email Results To: aenbysk@fulcrum.net, CC: rmathews@fulcrum.net Fax Results To:	Drinking Water Sample Only	Preservation: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/> Matrix: <input type="checkbox"/> W=Surface Water <input type="checkbox"/> S=Soil/Sediment <input type="checkbox"/> E=Extract <input type="checkbox"/> Unpres <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HCl <input type="checkbox"/> NaOH <input type="checkbox"/> Na ₂ SO ₄ 4 °C <input type="checkbox"/> HNO ₃ <input type="checkbox"/> Other	Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)					
Send Invoice To	Name: Lorrie Boutillier Company: Fulcrum Environmental Address: 406 North 2nd Street City, State, Zip: Yakima, WA, 98901 Phone: (509) 574-0839 Fax: (509) 575-8453	Send Invoice To: Email: lboutillier@fulcrum.net	Chemistry Analysis Key	Matrix: <input type="checkbox"/> W=Surface Water <input type="checkbox"/> S=Soil/Sediment <input type="checkbox"/> E=Extract <input type="checkbox"/> Unpres <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HCl <input type="checkbox"/> NaOH <input type="checkbox"/> Na ₂ SO ₄ 4 °C <input type="checkbox"/> HNO ₃ <input type="checkbox"/> Other	Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)					
Special Instructions			Analysis Requested	Matrix: <input type="checkbox"/> W=Surface Water <input type="checkbox"/> S=Soil/Sediment <input type="checkbox"/> E=Extract <input type="checkbox"/> Unpres <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HCl <input type="checkbox"/> NaOH <input type="checkbox"/> Na ₂ SO ₄ 4 °C <input type="checkbox"/> HNO ₃ <input type="checkbox"/> Other	Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)					
Client Sample ID	Sample Description	Sample Date	Sample Time	Wipe Area / Air Volume	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
RNE122116-P-DF-12	Room 15	12/21			X	UNPR	DW			18.5
RVE122116-P-CF-13	Room 14									18.3
RVE122116-P-UC-14	Library									19.0
RVE122116-P-UC-15	Library									18.5
RVE122116-P-CF-16	Room 13									19.0
RVE122116-P-CF-17	Outside room 13									19.0
RVE122116-P-DF-16	Room 12									18.4
RVE122116-P-CF-19	Room 11									18.9
RVE122116-P-CF-20	Room 11									19.0
RNE122116-P-DF-21	Room 10									19.1
RVE122116-P-CF-22	Room 9									19.1
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Date: 12/21/16 Time: 1:53	Relinquished To: Method of Shipment:		Received By (Signature): Received By (Print Name): Company Name:	Date: DEC 21 2016 Time: 2:00	Relinquished To: Method of Shipment:			
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Date: Time:	Relinquished To: Method of Shipment:		Received By (Signature): Received By (Print Name): Company Name:	Date: Time:	Relinquished To: Method of Shipment:			

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

Washington
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2710 North 20th Avenue
Pasco, WA 99301
509.545.4989 Phone
509.544.6010 Fax



Request for Environmental and IH Laboratory Analytical Services

W612105

Page 3 of 4

ATTENTION TO: RYAN MATHEWS		Purchase Order No.: 162017	Client Job No.: 162017
Lab Use Only	Project No.: Date Logged In: Logged In By:	Client No.: Name: Amanda Enbyusk, 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	Standard: Yes No If 'No,' No. of Business Days: Sample Purpose: Information X Regulatory <input type="checkbox"/> Accreditation (please list below): System ID #: DOH Source #: Multiple Sources #s:
Report Results To	Call with Verbal Results: Email Results To: aenbyusk@fulcrum.net, CC: rmathews@fulcrum.net Fax Results To:	Drinking Water Sample Only	Matrix: <input type="checkbox"/> Other <input type="checkbox"/> Preservation: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>
Send Invoice To	Company: Fulcrum Environmental Address: 406 North 2nd Street City, State, Zip: Yakima, WA, 98901 Phone: (509) 574-0839 Fax: (509) 575-8453	Chemistry Analysis Key	Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube) SW=Surface Water DW=Drinking Water O=Oil X=Other
Special Instructions		Analysis Requested	
Client Sample ID	Sample Description	Sample Date	Sample Time
RVE122116-PCDF-23	Room 8	12/21	
RVE122116-PCF-24	Outside Room 8		
RVE122116-PCDF-25	Room 7		
RVE122116-PCF-26	Support Services 2		
RVE122116-PCF-27	Support Services 1		
RVE122116-PCF-28	Room 6		
RVE122116-PCF-29	Outside Room 6		
RVE122116-PCDF-30	Room 5		
RVE122116-PCF-31	Room 4		
RVE122116-PCDF-32	Room 3		
RVE122116-PCF-33	Room 2		
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:
	RYAN MATHEWS		KATELOR
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:
Turnaround Request	Standard: Yes No If 'No,' No. of Business Days: Sample Purpose: Information X Regulatory <input type="checkbox"/> Accreditation (please list below): System ID #: DOH Source #: Multiple Sources #s:	Drinking Water Sample Only	Matrix: <input type="checkbox"/> Other <input type="checkbox"/> Preservation: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>
Chemistry Analysis Key	Unpres H ₂ SO ₄ 4°C HCl HNO ₃ NaOH Other Na ₂ SO ₄	Analysis Requested	
Special Instructions		Analysis Requested	
Client Sample ID	Sample Description	Sample Date	Sample Time
RVE122116-PCDF-23	Room 8	12/21	
RVE122116-PCF-24	Outside Room 8		
RVE122116-PCDF-25	Room 7		
RVE122116-PCF-26	Support Services 2		
RVE122116-PCF-27	Support Services 1		
RVE122116-PCF-28	Room 6		
RVE122116-PCF-29	Outside Room 6		
RVE122116-PCDF-30	Room 5		
RVE122116-PCF-31	Room 4		
RVE122116-PCDF-32	Room 3		
RVE122116-PCF-33	Room 2		
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:
	RYAN MATHEWS		KATELOR
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:
Turnaround Request	Standard: Yes No If 'No,' No. of Business Days: Sample Purpose: Information X Regulatory <input type="checkbox"/> Accreditation (please list below): System ID #: DOH Source #: Multiple Sources #s:	Drinking Water Sample Only	Matrix: <input type="checkbox"/> Other <input type="checkbox"/> Preservation: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>
Chemistry Analysis Key	Unpres H ₂ SO ₄ 4°C HCl HNO ₃ NaOH Other Na ₂ SO ₄	Analysis Requested	
Special Instructions		Analysis Requested	
Client Sample ID	Sample Description	Sample Date	Sample Time
RVE122116-PCDF-23	Room 8	12/21	
RVE122116-PCF-24	Outside Room 8		
RVE122116-PCDF-25	Room 7		
RVE122116-PCF-26	Support Services 2		
RVE122116-PCF-27	Support Services 1		
RVE122116-PCF-28	Room 6		
RVE122116-PCF-29	Outside Room 6		
RVE122116-PCDF-30	Room 5		
RVE122116-PCF-31	Room 4		
RVE122116-PCDF-32	Room 3		
RVE122116-PCF-33	Room 2		
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:
	RYAN MATHEWS		KATELOR
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:
Turnaround Request	Standard: Yes No If 'No,' No. of Business Days: Sample Purpose: Information X Regulatory <input type="checkbox"/> Accreditation (please list below): System ID #: DOH Source #: Multiple Sources #s:	Drinking Water Sample Only	Matrix: <input type="checkbox"/> Other <input type="checkbox"/> Preservation: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>
Chemistry Analysis Key	Unpres H ₂ SO ₄ 4°C HCl HNO ₃ NaOH Other Na ₂ SO ₄	Analysis Requested	
Special Instructions		Analysis Requested	
Client Sample ID	Sample Description	Sample Date	Sample Time
RVE122116-PCDF-23	Room 8	12/21	
RVE122116-PCF-24	Outside Room 8		
RVE122116-PCDF-25	Room 7		
RVE122116-PCF-26	Support Services 2		
RVE122116-PCF-27	Support Services 1		
RVE122116-PCF-28	Room 6		
RVE122116-PCF-29	Outside Room 6		
RVE122116-PCDF-30	Room 5		
RVE122116-PCF-31	Room 4		
RVE122116-PCDF-32	Room 3		
RVE122116-PCF-33	Room 2		
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:
	RYAN MATHEWS		KATELOR
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:
Turnaround Request	Standard: Yes No If 'No,' No. of Business Days: Sample Purpose: Information X Regulatory <input type="checkbox"/> Accreditation (please list below): System ID #: DOH Source #: Multiple Sources #s:	Drinking Water Sample Only	Matrix: <input type="checkbox"/> Other <input type="checkbox"/> Preservation: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>
Chemistry Analysis Key	Unpres H ₂ SO ₄ 4°C HCl HNO ₃ NaOH Other Na ₂ SO ₄	Analysis Requested	
Special Instructions		Analysis Requested	
Client Sample ID	Sample Description	Sample Date	Sample Time
RVE122116-PCDF-23	Room 8	12/21	
RVE122116-PCF-24	Outside Room 8		
RVE122116-PCDF-25	Room 7		
RVE122116-PCF-26	Support Services 2		
RVE122116-PCF-27	Support Services 1		
RVE122116-PCF-28	Room 6		
RVE122116-PCF-29	Outside Room 6		
RVE122116-PCDF-30	Room 5		
RVE122116-PCF-31	Room 4		
RVE122116-PCDF-32	Room 3		
RVE122116-PCF-33	Room 2		
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:
	RYAN MATHEWS		KATELOR
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:
Turnaround Request	Standard: Yes No If 'No,' No. of Business Days: Sample Purpose: Information X Regulatory <input type="checkbox"/> Accreditation (please list below): System ID #: DOH Source #: Multiple Sources #s:	Drinking Water Sample Only	Matrix: <input type="checkbox"/> Other <input type="checkbox"/> Preservation: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>
Chemistry Analysis Key	Unpres H ₂ SO ₄ 4°C HCl HNO ₃ NaOH Other Na ₂ SO ₄	Analysis Requested	
Special Instructions		Analysis Requested	
Client Sample ID	Sample Description	Sample Date	Sample Time
RVE122116-PCDF-23	Room 8	12/21	
RVE122116-PCF-24	Outside Room 8		
RVE122116-PCDF-25	Room 7		
RVE122116-PCF-26	Support Services 2		
RVE122116-PCF-27	Support Services 1		
RVE122116-PCF-28	Room 6		
RVE122116-PCF-29	Outside Room 6		
RVE122116-PCDF-30	Room 5		
RVE122116-PCF-31	Room 4		
RVE122116-PCDF-32	Room 3		
RVE122116-PCF-33	Room 2		
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:
	RYAN MATHEWS		KATELOR
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:
Turnaround Request	Standard: Yes No If 'No,' No. of Business Days: Sample Purpose: Information X Regulatory <input type="checkbox"/> Accreditation (please list below): System ID #: DOH Source #: Multiple Sources #s:	Drinking Water Sample Only	Matrix: <input type="checkbox"/> Other <input type="checkbox"/> Preservation: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>
Chemistry Analysis Key	Unpres H ₂ SO ₄ 4°C HCl HNO ₃ NaOH Other Na ₂ SO ₄	Analysis Requested	
Special Instructions		Analysis Requested	
Client Sample ID	Sample Description	Sample Date	Sample Time
RVE122116-PCDF-23	Room 8	12/21	
RVE122116-PCF-24	Outside Room 8		
RVE122116-PCDF-25	Room 7		
RVE122116-PCF-26	Support Services 2		
RVE122116-PCF-27	Support Services 1		
RVE122116-PCF-28	Room 6		
RVE122116-PCF-29	Outside Room 6		
RVE122116-PCDF-30	Room 5		
RVE122116-PCF-31	Room 4		
RVE122116-PCDF-32	Room 3		
RVE122116-PCF-33	Room 2		
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:
	RYAN MATHEWS		KATELOR
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:
Turnaround Request	Standard: Yes No If 'No,' No. of Business Days: Sample Purpose: Information X Regulatory <input type="checkbox"/> Accreditation (please list below): System ID #: DOH Source #: Multiple Sources #s:	Drinking Water Sample Only	Matrix: <input type="checkbox"/> Other <input type="checkbox"/> Preservation: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>
Chemistry Analysis Key	Unpres H ₂ SO ₄ 4°C HCl HNO ₃ NaOH Other Na ₂ SO ₄	Analysis Requested	
Special Instructions		Analysis Requested	
Client Sample ID	Sample Description	Sample Date	Sample Time
RVE122116-PCDF-23	Room 8	12/21	
RVE122116-PCF-24	Outside Room 8		
RVE122116-PCDF-25	Room 7		
RVE122116-PCF-26	Support Services 2		
RVE122116-PCF-27	Support Services 1		
RVE122116-PCF-28	Room 6		
RVE122116-PCF-29	Outside Room 6		
RVE122116-PCDF-30	Room 5		
RVE122116-PCF-31	Room 4		
RVE122116-PCDF-32	Room 3		
RVE122116-PCF-33	Room 2		
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:
	RYAN MATHEWS		KATELOR
Chain of Custody	Relinquished By (Signature): Relinquished By (Print Name): Company Name:	Chain of Custody	Received By (Signature): Received By (Print Name): Company Name:

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

W612105

Page 4 of 4

01/22/16

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

Lab Use Only: Project No.: Client No.: Date Logged In: Logged In By: Turnaround Request: Standard: **Yes** No If 'No', No. of Business Days: Accreditation (please list below):

Report Results To: Name: Amanda Embysk, 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: aembysk@fulcrum.net, Cc: rmathews@fulcrum.net Fax Results To: Name: Lorrie Boutillier Company: Fulcrum Environmental Email: lboutillier@fulcrum.net

Send Invoice To: Address: 406 North 2nd Street City, State, Zip: Yakima, WA, 98901 Phone: (509) 574-0839 Fax: (509) 575-8453

Special Instructions: EPA 200.8: Pb, Cu

Client Sample ID	Sample Description	Sample Date	Sample Time		Wipe Area / Air Volume	Chemistry Analysis Key	Analysis Requested	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
			Start	Stop									
RVE12116-P-CDF-34	Room 1	12/21											18.2
RVE12116-P-NF-35	Nurses' Offices												17.8
RVE12116-P-100C-36	Gym												16.3
RVE12116-P-100C-37	Gym												18.2
RVE12116-P-CE-38	Physical Room												17.8
RVE12116-P-OF-39	Teacher Work Room												18.2
RVE12116-P-OF-40	Library Work Room												18.1
RVE12116-P-CE-41	Computer Lab												11.7
RVE12116-P-CE-42	Resource Room												11.6

Chain of Custody: Relinquished By (Signature): [Signature] Date: 12/21/16 Time: 1:53 Relinquished To: [Signature] Method of Shipment: Chain of Custody: Relinquished By (Print Name): [Signature] Date: 12/21/16 Time: 1:53 Relinquished To: [Signature] Method of Shipment: Chain of Custody: Relinquished By (Signature): [Signature] Date: 12/21/16 Time: 2:00 Relinquished To: [Signature] Method of Shipment: Chain of Custody: Relinquished By (Print Name): [Signature] Date: 12/21/16 Time: 2:00 Relinquished To: [Signature] Method of Shipment: Chain of Custody: Relinquished By (Signature): [Signature] Date: 12/21/16 Time: 2:00 Relinquished To: [Signature] Method of Shipment: Chain of Custody: Relinquished By (Print Name): [Signature] Date: 12/21/16 Time: 2:00 Relinquished To: [Signature] Method of Shipment:

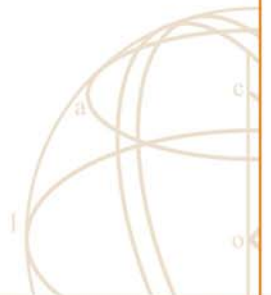
Pennsylvania - HQ
350 Hochberg Road
Monroeville, PA 15146
724.325.1776 Phone
724.733.1799 Fax

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



ATTACHMENT E

Remedial Analytical Results





Fulcrum Environmental

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

**RE: Kennewick SD - Ridgeview Elementary Follow-Up Sampling
Work Order Number: 1702038**

February 07, 2017

Attention Ryan Mathews:

Fremont Analytical, Inc. received 14 sample(s) on 2/3/2017 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: 02/07/2017

CLIENT: Fulcrum Environmental
Project: Kennewick SD - Ridgeview Elementary Follo
Work Order: 1702038

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1702038-001	RVE12817-P-KF-03	01/28/2017 10:00 AM	02/03/2017 3:12 PM
1702038-002	RVE12817-S-KF-03	01/28/2017 10:00 AM	02/03/2017 3:12 PM
1702038-003	RVE12817-T-KF-03	01/28/2017 10:00 AM	02/03/2017 3:12 PM
1702038-004	RVE12817-P-CF-17	01/28/2017 10:00 AM	02/03/2017 3:12 PM
1702038-005	RVE12817-S-CF-17	01/28/2017 10:00 AM	02/03/2017 3:12 PM
1702038-006	RVE12817-T-CF-17	01/28/2017 10:00 AM	02/03/2017 3:12 PM
1702038-007	RVE12817-P-CF-26	01/28/2017 10:00 AM	02/03/2017 3:12 PM
1702038-008	RVE12817-S-CF-26	01/28/2017 10:00 AM	02/03/2017 3:12 PM
1702038-009	RVE12817-T-CF-26	01/28/2017 10:00 AM	02/03/2017 3:12 PM
1702038-010	RVE12817-P-CF-38	01/28/2017 10:00 AM	02/03/2017 3:12 PM
1702038-011	RVE12817-S-CF-38	01/28/2017 10:00 AM	02/03/2017 3:12 PM
1702038-012	RVE12817-T-CF-38	01/28/2017 10:00 AM	02/03/2017 3:12 PM
1702038-013	RVE12817-P-CF-41	01/28/2017 10:00 AM	02/03/2017 3:12 PM
1702038-014	RVE12817-P-CF-42	01/28/2017 10:00 AM	02/03/2017 3:12 PM

CLIENT: Fulcrum Environmental
Project: Kennewick SD - Ridgeview 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:

1702038-001A 205387: Prep Comments for EPA200.8, Sample 1702038-001A: Turbidity: 0.05 NTU
1702038-002A 205388: Prep Comments for EPA200.8, Sample 1702038-002A: Turbidity: 0.01 NTU
1702038-003A 205389: Prep Comments for EPA200.8, Sample 1702038-003A: Turbidity: 0.01 NTU
1702038-004A 205390: Prep Comments for EPA200.8, Sample 1702038-004A: Turbidity: 0.07 NTU
1702038-005A 205391: Prep Comments for EPA200.8, Sample 1702038-005A: Turbidity: 0.01 NTU
1702038-006A 205392: Prep Comments for EPA200.8, Sample 1702038-006A: Turbidity: 0.01 NTU
1702038-007A 205393: Prep Comments for EPA200.8, Sample 1702038-007A: Turbidity: 0.08 NTU
1702038-008A 205394: Prep Comments for EPA200.8, Sample 1702038-008A: Turbidity: 0.01 NTU
1702038-009A 205395: Prep Comments for EPA200.8, Sample 1702038-009A: Turbidity: 0.01 NTU
1702038-010A 205396: Prep Comments for EPA200.8, Sample 1702038-010A: Turbidity: 0.05 NTU
1702038-011A 205397: Prep Comments for EPA200.8, Sample 1702038-011A: Turbidity: 0.01 NTU
1702038-012A 205398: Prep Comments for EPA200.8, Sample 1702038-012A: Turbidity: 0.08 NTU
1702038-013A 205399: Prep Comments for EPA200.8, Sample 1702038-013A: Turbidity: 0.03 NTU
1702038-014A 205400: Prep Comments for EPA200.8, Sample 1702038-014A: 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



CLIENT: Fulcrum Environmental

Project: Kennewick SD - Ridgeview Elementary Follow-Up Sampling

Lab ID: 1702038-001

Collection Date: 1/28/2017 10:00:00 AM

Client Sample ID: RVE12817-P-KF-03

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: 16139

Analyst: TN

Lead	15.8	1.00		µg/L	1	2/6/2017 4:08:57 PM
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Lab ID: 1702038-004

Collection Date: 1/28/2017 10:00:00 AM

Client Sample ID: RVE12817-P-CF-17

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: 16139

Analyst: TN

Lead	4.05	1.00		µg/L	1	2/6/2017 4:19:46 PM
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Lab ID: 1702038-007

Collection Date: 1/28/2017 10:00:00 AM

Client Sample ID: RVE12817-P-CF-26

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: 16139

Analyst: TN

Lead	6.54	1.00		µg/L	1	2/6/2017 4:37:51 PM
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CLIENT: Fulcrum Environmental
Project: Kennewick SD - Ridgeview Elementary Follow-Up Sampling

Lab ID: 1702038-010 **Collection Date:** 1/28/2017 10:00:00 AM
Client Sample ID: RVE12817-P-CF-38 **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Drinking Water Metals by EPA Method 200.8</u>				Batch ID: 16139		Analyst: TN
Copper	1,180	0.500		µg/L	1	2/6/2017 4:48:40 PM

Lab ID: 1702038-013 **Collection Date:** 1/28/2017 10:00:00 AM
Client Sample ID: RVE12817-P-CF-41 **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Drinking Water Metals by EPA Method 200.8</u>				Batch ID: 16139		Analyst: TN
Copper	1,320	0.500		µg/L	1	2/6/2017 4:59:29 PM
Lead	15.6	1.00		µg/L	1	2/6/2017 4:59:29 PM

Lab ID: 1702038-014 **Collection Date:** 1/28/2017 10:00:00 AM
Client Sample ID: RVE12817-P-CF-42 **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Drinking Water Metals by EPA Method 200.8</u>				Batch ID: 16139		Analyst: TN
Copper	ND	0.500		µg/L	1	2/6/2017 5:03:05 PM
Lead	ND	1.00		µg/L	1	2/6/2017 5:03:05 PM

Work Order: 1702038
CLIENT: Fulcrum Environmental
Project: Kennewick SD - Ridgeview Elementary Foll

QC SUMMARY REPORT
Drinking Water Metals by EPA Method 200.8

Sample ID MB-16139	SampType: MBLK	Units: µg/L			Prep Date: 2/6/2017	RunNo: 34291					
Client ID: MBLKW	Batch ID: 16139				Analysis Date: 2/6/2017	SeqNo: 653797					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	ND	0.500									
Lead	ND	1.00									

Sample ID LCS-16139	SampType: LCS	Units: µg/L			Prep Date: 2/6/2017	RunNo: 34291					
Client ID: LCSW	Batch ID: 16139				Analysis Date: 2/6/2017	SeqNo: 653798					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	100	0.500	100.0	0	100	85	115				
Lead	52.7	1.00	50.00	0	105	85	115				

Sample ID 1702037-001ADUP	SampType: DUP	Units: µg/L			Prep Date: 2/6/2017	RunNo: 34291					
Client ID: BATCH	Batch ID: 16139				Analysis Date: 2/6/2017	SeqNo: 653800					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	1,680	0.500						1,726	2.81	30	
Lead	1.68	1.00						1.735	2.94	30	

Sample ID 1702037-001AMS	SampType: MS	Units: µg/L			Prep Date: 2/6/2017	RunNo: 34291					
Client ID: BATCH	Batch ID: 16139				Analysis Date: 2/6/2017	SeqNo: 653801					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	1,880	0.500	200.0	1,726	78.8	70	130				
Lead	100	1.00	100.0	1.735	98.7	70	130				

Sample ID 1702037-001AMSD	SampType: MSD	Units: µg/L			Prep Date: 2/6/2017	RunNo: 34291					
Client ID: BATCH	Batch ID: 16139				Analysis Date: 2/6/2017	SeqNo: 653802					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	1,860	0.500	200.0	1,726	67.3	70	130	1,883	1.22	30	S
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Work Order: 1702038
CLIENT: Fulcrum Environmental
Project: Kennewick SD - Ridgeview Elementary Foll

QC SUMMARY REPORT
Drinking Water Metals by EPA Method 200.8

Sample ID	1702037-001AMSD	SampType:	MSD	Units:	µg/L	Prep Date:	2/6/2017	RunNo:	34291		
Client ID:	BATCH	Batch ID:	16139	Analysis Date:	2/6/2017	SeqNo:	653802				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	98.1	1.00	100.0	1.735	96.3	70	130	100.4	2.37	30	

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed and recovered within range.

Client Name: **FE**

 Work Order Number: **1702038**

 Logged by: **Erica Silva**

 Date Received: **2/3/2017 3:12:00 PM**
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
- Metals in water, preserved**
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 style="width: 95%;" type="text"/>	Date	<input style="width: 95%;" type="text"/>
By Whom:	<input style="width: 95%;" type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input style="width: 95%;" type="text"/>		
Client Instructions:	<input style="width: 95%;" type="text"/>		

19. Additional remarks:
 HNO3 added to: 002A, 003A, 005A, 006A, 008A, 009A, 011A, 012A

Item Information

Item #	Temp °C
Cooler	9.4
Sample	10.3

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



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: 509.545.8453

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

Chain of Custody Record and Laboratory Services Agreement

Date: 1/28/2017 Laboratory Project No (Internal): 1702038

Page: 1 of 2

*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)	GY/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heav Oil Range Organics (HCO)	SVOCs (EPA 8270 - SIM)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals ** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDS (8011)	Comments
RVE 12817-P-KF-03	1/28/2017	1000	DW														HNO3 preserved; Analyte for Pb only
RVE 12817-S-KF-03																	HOLD - unpr.
RVE 12817-T-KF-03																	HOLD - unpr.
RVE 12817-P-CF-17																	HNO3 pres; Analyte for Pb only
RVE 12817-S-CF-17																	HOLD - unpr.
RVE 12817-T-CF-17																	HOLD - unpr.
RVE 12817-P-CF-26																	HNO3 pres; analyze for Cu only
RVE 12817-S-CF-26																	HOLD - unpr.
RVE 12817-T-CF-26																	HOLD - unpr.
RVE 12817-P-CF-38																	HNO3 pres; analyze for Cu only

**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.)
Turn-around times for samples received after 4:00pm will begin on the following business day.

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	Received	Date/Time
<i>[Signature]</i>	1/28/2017, 1530	<i>[Signature]</i>	2/3/17 1512
Relinquished	Date/Time	Received	Date/Time
<i>[Signature]</i>		<i>[Signature]</i>	



Fremont Analytical

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):

1762038

Page: 2 of 2

Project Name: Kennewick SD - Ridgeview Elementary Follow-Up Sampling

Project No: 162017

Collected by:

Location: Ridgeview Elementary School, Kennewick, WA

Report To (PM): Ryan Mathews

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

Client: Fulcrum Environmental Consulting
Address: 406 North Second Street
City, State, Zip: Yakima, WA 98901
Telephone: 509.574.0839 Fax: 509.545.8453

*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)	GY/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 - SIM)	PAHs (EPA 8270 / 625)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)		Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	
RVE 12817-5-CF-38	1/28/2017	1000	DW															HOLD; unpr.
RVE 12817-8-CF-38																		HOLD; unpr.
RVE 12817-P-CF-41																		HNO3 preserved; analyze for Pb & Cu
RVE 12817-P-CF-42a																		HNO3 pres; analyze for Pb & Cu

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.)

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: 1/30/17 15:30 Received Date/Time: 2/3/17 15:12

Refined Date/Time: 1/30/17 15:30 Received Date/Time: 2/3/17 15:12

Relinquished Date/Time: 1/30/17 15:30 Received Date/Time: 2/3/17 15:12

Special Remarks: please preserve all unprocessed samples

TAT: ASAP

TAT → SameDay^ NextDay^ 2 Day 3 Day STD
*Please coordinate with the lab in advance



Fulcrum Environmental

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

RE: Kennewick SD Drinking Water - Ridge View Elementary
Work Order Number: 1703027

March 10, 2017

Attention Ryan Mathews:

Fremont Analytical, Inc. received 5 sample(s) on 3/3/2017 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

CC:
Amanda Enbysk



Date: 03/10/2017

CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Ridge View
Work Order: 1703027

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1703027-001	RVE3217-P-KF-08	03/02/2017 6:00 AM	03/03/2017 9:30 AM
1703027-002	RVE3217-S-KF-08	03/02/2017 6:00 AM	03/03/2017 9:30 AM
1703027-003	RVE3217-T-KF-09	03/02/2017 6:00 AM	03/03/2017 9:30 AM
1703027-004	RVE3217-P-CF-41	03/02/2017 6:00 AM	03/03/2017 9:30 AM
1703027-005	RVE3217-P-CF-42	03/02/2017 6:00 AM	03/03/2017 9:30 AM

CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Ridge View Elementary

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:

1703027-001A 209611: Prep Comments for EPA200.8, Sample 1703027-001A: Turbidity: 0.00 NTU

1703027-004A 209612: Prep Comments for EPA200.8, Sample 1703027-004A: Turbidity: 0.00 NTU

1703027-005A 209613: Prep Comments for EPA200.8, Sample 1703027-005A: Turbidity: 0.00 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 Drinking Water - Ridge View Elementary

Lab ID: 1703027-001 **Collection Date:** 3/2/2017 6:00:00 AM
Client Sample ID: RVE3217-P-KF-08 **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: 16420 Analyst: TN

Lead	7.89	1.00		µg/L	1	3/10/2017 1:51:06 PM
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Lab ID: 1703027-004 **Collection Date:** 3/2/2017 6:00:00 AM
Client Sample ID: RVE3217-P-CF-41 **Matrix:** Drinking Water

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

Drinking Water Metals by EPA Method 200.8

Batch ID: 16420 Analyst: TN

Lead	16.7	1.00		µg/L	1	3/10/2017 1:55:07 PM
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Lab ID: 1703027-005 **Collection Date:** 3/2/2017 6:00:00 AM
Client Sample ID: RVE3217-P-CF-42 **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: 16420 Analyst: TN

Lead	ND	1.00		µg/L	1	3/10/2017 1:59:09 PM
------	----	------	--	------	---	----------------------

Work Order: 1703027
CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Ridge View

QC SUMMARY REPORT
Drinking Water Metals by EPA Method 200.8

Sample ID MB-16420	SampType: MBLK	Units: µg/L			Prep Date: 3/6/2017	RunNo: 34873					
Client ID: MBLKW	Batch ID: 16420				Analysis Date: 3/10/2017	SeqNo: 665786					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 1.00

Sample ID LCS-16420	SampType: LCS	Units: µg/L			Prep Date: 3/6/2017	RunNo: 34873					
Client ID: LCSW	Batch ID: 16420				Analysis Date: 3/10/2017	SeqNo: 665787					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 52.4 1.00 50.00 0 105 85 115

Sample ID 1703021-001ADUP	SampType: DUP	Units: µg/L			Prep Date: 3/6/2017	RunNo: 34873					
Client ID: BATCH	Batch ID: 16420				Analysis Date: 3/10/2017	SeqNo: 665789					
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 1703021-001AMS	SampType: MS	Units: µg/L			Prep Date: 3/6/2017	RunNo: 34873					
Client ID: BATCH	Batch ID: 16420				Analysis Date: 3/10/2017	SeqNo: 665790					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 102 1.00 100.0 0.6172 101 70 130

Sample ID 1703021-001AMSD	SampType: MSD	Units: µg/L			Prep Date: 3/6/2017	RunNo: 34873					
Client ID: BATCH	Batch ID: 16420				Analysis Date: 3/10/2017	SeqNo: 665791					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 103 1.00 100.0 0.6172 102 70 130 101.8 0.919 30

Client Name: **FE**

 Work Order Number: **1703027**

 Logged by: **Erica Silva**

 Date Received: **3/3/2017 9:30:00 AM**
Chain of Custody

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

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
 HNO3
 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

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:

HNO3 added to 002A, 003A

Item Information

Item #	Temp °C
Cooler	2.7
Sample	1.3

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



Fremont
Analytical

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
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Chain of Custody Record and Laboratory Services Agreement

Date: 3/2/2017

Laboratory Project No (Internal):

1703027

Page: 1 of 1

Client: Fulcrum Environmental Consulting
Address: 406 North Second Street
City, State, Zip: Yakima, WA, 98901
Telephone: 509.574.0839 Fax: 509.575.8453

Project Name: Kennewick SD DW Sampling - Ridge View Elementary
Project No: 162017.20
Location: Ridge View Elementary, Kennewick, WA
Report To (PM): Ryan Matthews
PM Email: rmathews@fulcrum.net; cc: aenbysk@fulcrum.net

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Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes												Comments				
				VOCS (EPA 8260 / 624)	GW/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 (IC)**		EDB (801)			
1 RVE3217-P-KF-08	3-2-17	0600	D10																	X Lead only
2 RVE3217-S-KF-08																				Hold
3 RVE3217-T-KF-09																				Hold
4 RVE3217-P-CF-41																				X Lead only
5 RVE3217-P-CF-42																				X Lead only
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 Tl U V Zn

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

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Relinquished Received Date/Time: 5-2-17 1:00 PM

Special Remarks: Please preserve all uppr. sample

TAT: ASAP

TAT -> SameDay^ NextDay^ 2 Day 3 Day STD

ATTACHMENT F

Fixture Style Photographs





Sample RVE122116-P-KF-03: **22 µg/L** initial lead concentration. Fixture style above is identified producing elevated lead concentrations.



Sample RVE122116-P-CF-26: **13 µg/L** initial lead concentration. Fixture style above is identified producing elevated lead concentrations.