

November 2, 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
Southgate Elementary School, 3121 West 19th Avenue, Kennewick, Washington

Dear Keith:

On Wednesday, December 21, 2016, Fulcrum Environmental Consulting, Inc. (Fulcrum) collected 45 drinking water samples for lead and copper analysis from Southgate Elementary School (School) located at 3121 West 19th Avenue in Kennewick, Washington. Initial sampling identified 15 fixture locations with copper concentrations above guidance levels. Fulcrum returned to the School on January 21, January 28, and March 2, 2017 to collect samples after remediation of the fixtures and laboratory results found concentrations to be below guidance levels. Sampling was completed as part of a District-wide project and all analysis was completed by Washington State Department of Ecology (Ecology) accredited laboratories.

Summary

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

Fulcrum completed initial sampling on December 21, 2016. Initial results identified 15 samples with copper concentrations above the Environmental Protection Agency (EPA) action level of 1,300 micrograms per liter (μ g/L). Upon receipt of results, the District removed the identified fixtures from service pending remediation and further testing.

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 fixtures with cold water to clear the plumbing of copper construction debris. Fulcrum returned on January 21, January 28, and March 2, 2017 and collected samples to evaluate the success of the remediation. The follow-up samples yielded a result confirming the

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



remediation was successful at reducing copper below the EPA action level. Following sampling and review of laboratory results, Fulcrum recommended, and the District elected, 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 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 and Figure 2 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 from service 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 location 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 the remedial sampling event are presented in Figure 2 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 15 samples, with copper concentrations above the EPA action level of 1,300 micrograms per liter (μ g/L). No samples were identified with lead concentrations above the EPA action level of 15 μ 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 copper concentrations, the District completed aggressive flushes of the fixtures and requested sampling of four additional fixtures not sampled during the initial event. Fulcrum returned on the morning following the aggressive flushes, January 21, January 28, and March 2, 2017, to collect follow-up samples.



Analytical results from remedial sampling indicated aggressive flushes were successful at reducing copper concentrations below the action level for the fixtures in question.

Recommendations

No samples were found to contain lead concentrations above the EPA action level of 15 μ g/L. A total of 15 initial samples contained copper above the EPA action level of 1,300 μ g/L. The District completed an aggressive flush to reduce the copper concentration of the fixtures and follow-up sampling yielded results below the 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.

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

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Ryan K. Mathews, CIH, CHMM

Ryan K. Matheur

Principal

9916 CP



ATTACHMENT A

Figure 1: Initial Sample Location Map Figure 2: Remedial Sample Location Map





LEGEND

KF-## - Kitchen faucet

CF-## - Classroom faucet

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CDF-## - Classroom drinking fountain

OF-## - Office faucet

WC-## - Water cooler fountain

BF-## - Bottle filler fountain

NF-## - Nurse's faucet

Sample location: faucet

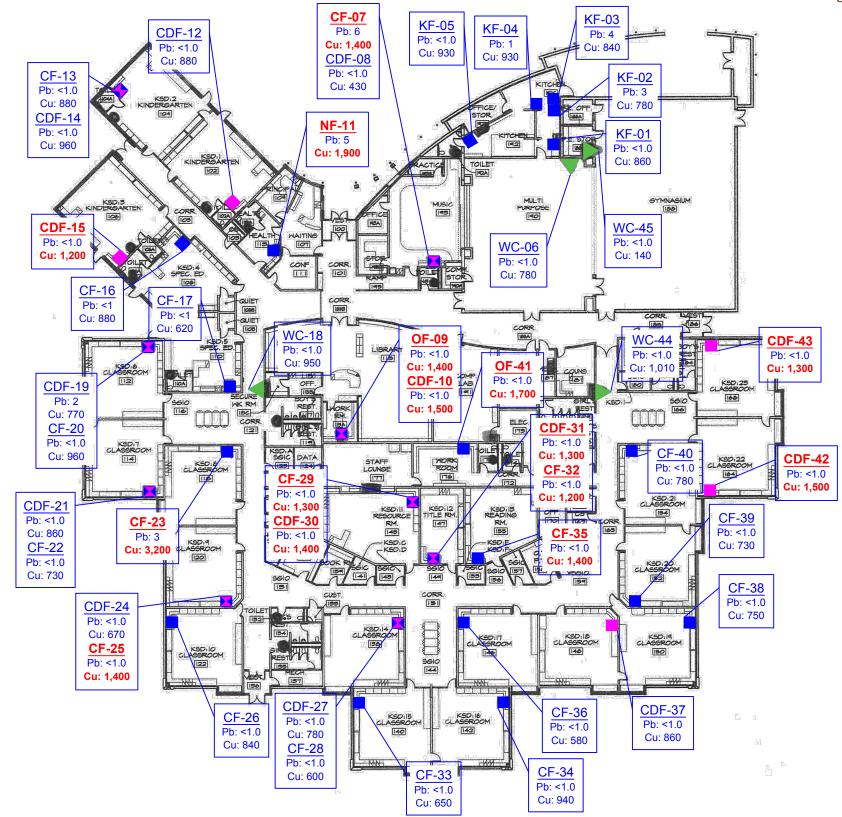
- Sample location: drinking fountain at sink

Sample location: faucet and drinking fountain at same sink

- Sample location: water cooler fountain

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

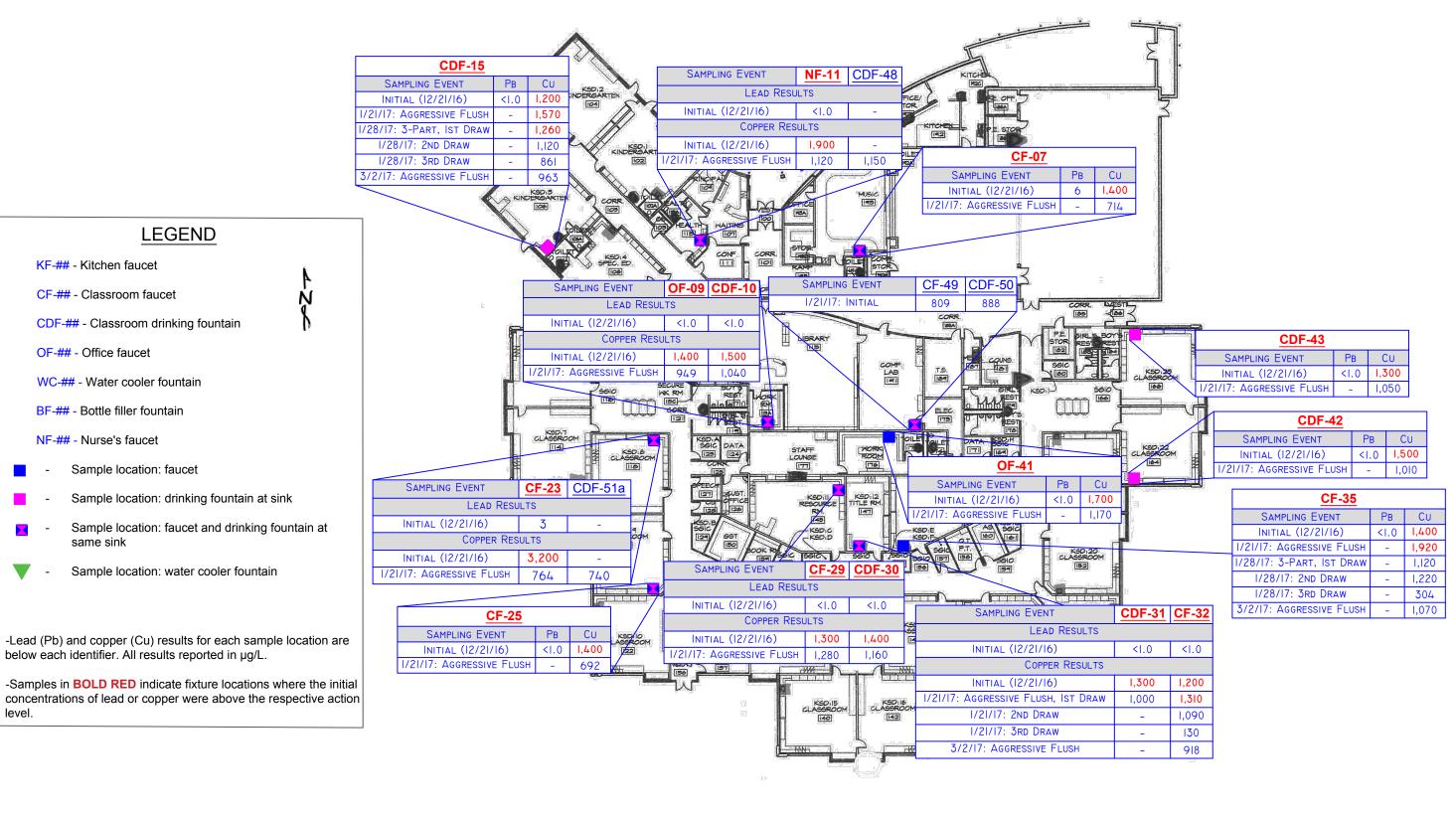
-Samples in **BOLD RED** indicate fixture locations where the initial concentrations of lead or copper were above the respective action level.



DRAWING PROVIDED BY KENNEWICK SCHOOL DISTRICT

Kennewick, Washington





DRAWING PROVIDED BY KENNEWICK SCHOOL DISTRICT

Fulcrum Environmental Consulting, Inc.

level.

406 North Second Street, Yakima, Washington 98901 p: 509.574.0839 f: 509.575.8453 efulcrum.net

Kennewick SD Drinking Water Sampling. 162017.00. AME. 10172017

LEGEND

KF-## - Kitchen faucet

OF-## - Office faucet

CF-## - Classroom faucet

CDF-## - Classroom drinking fountain

Sample location: faucet

below each identifier. All results reported in µg/L.

Sample location: drinking fountain at sink

Sample location: water cooler fountain

WC-## - Water cooler fountain

BF-## - Bottle filler fountain

NF-## - Nurse's faucet

Southgate Elementary School 3121 West 19th Avenue Kennewick, Washington

Remedial Sample Location Map

FIGURE



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 specific summary of the location, number		1 0	~ 1	· ·
Campus/Building: Southgate Elemen	tary School	Address: 3121	West 19 th Aven	ue, Kennewick,
Elementary	ool 🗆 H	ligh School	☐ Administration	on
Date of Construction: 1978		Modernizations:	20	011
Fixture Type	Locations	Fixture Styles ¹	Samples	Ratio
Drinking fountain/water cooler (DF/WC)	4	2	4	100%
Kitchen Fixture (KF)	5	4	5	100%
Classroom faucet, including faucets in Food Labs and Life Sciences Classrooms (CF)	28	3	19	67%
Classroom drinking fountain at sink (CDF)	28	1	14	50%
Nurse's Office/Health Room (NF)	1	1	1	100%
Teacher's Lounges/Work Rooms (OF)	3	1	2	66%
TOTALS	80		45	56%
Fixture styles are approximate based	d on sampler's	observations		
Lead Sampler: Kyle Ames		Date:	12/21/2016	
Sample Prefix: SGE - 1221: School Code Date		draw) – Type Fixture Type		
Laboratory: R. J. Lee Group, Columb	oia Basin Ana	<u>alytical</u> Deliver	y Date: <u>Decem</u>	nber 21, 2016
Comments:				a



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	Copper Results
SGE122116-P-KF-01: E. wall, S. fixture	Kitchen Faucet	(μg/L) <1.0	(μ g/L) 860
SGE122116-P-KF-02: E. wall, middle fixture	Kitchen Faucet	3	780
SGE122116-P-KF-03: E. wall, N. fixture	Kitchen Faucet	4	840
SGE122116-P-KF-04: Middle island	Kitchen Faucet	1	930
SGE122116-P-KF-05: N. wall, W. fixture	Kitchen Faucet	<1.0	930
SGE122116-P-WC-06: Multi-Purpose/Cafeteria, left fixture	Water Cooler Fountain	<1.0	780
SGE122116-P-CF-07: Music Room	Classroom Faucet	6	1,400
SGE122116-P-CDF-08: Music Room	Classroom Drinking Fountain	<1.0	430
SGE122116-P-OF-09: Library Work Room	Office Faucet	<1.0	1,400
SGE122116-P-CDF-10: Library Work Room	Classroom Drinking Fountain	<1.0	1,500
SGE122116-P-NF-11: Nurse's Office	Nurse's Faucet	5	1,900
SGE122116-P-CDF-12: Classroom 1	Classroom Drinking Fountain	<1.0	880
SGE122116-P-CF-13: Classroom 2	Classroom Faucet	<1.0	880
SGE122116-P-CDF-14: Classroom 2	Classroom Drinking Fountain	<1.0	960
SGE122116-P-CDF-15: Classroom 3	Classroom Drinking Fountain	<1.0	1,200
SGE122116-P-CF-16: Classroom 4	Classroom Faucet	<1.0	880
SGE122116-P-CF-17: Classroom 5	Classroom Faucet	<1.0	620
SGE122116-P-WC-18: Hallway opposite Classroom 5, left fixture	Water Cooler Fountain	<1.0	950
SGE122116-P-CDF-19: Classroom 6	Classroom Drinking Fountain	2	770
SGE122116-P-CF-20: Classroom 6	Classroom Faucet	<1.0	960
SGE122116-P-CDF-21: Classroom 7	Classroom Drinking Fountain	<1.0	860
SGE122116-P-CF-22: Classroom 7	Classroom Faucet	<1.0	730
SGE122116-P-CF-23: Classroom 8	Classroom Faucet	3	3,200
SGE122116-P-CDF-24: Classroom 9	Classroom Drinking Fountain	<1.0	670
SGE122116-P-CF-25: Classroom 9	Classroom Faucet	<1.0	1,400
SGE122116-P-CF-26: Classroom 10	Classroom Faucet	<1.0	840
SGE122116-P-CDF-27: Classroom 14	Classroom Drinking Fountain	<1.0	780
SGE122116-P-CF-28: Classroom 14	Classroom Faucet	<1.0	600
SGE122116-P-CF-29: Classroom 11	Classroom Faucet	<1.0	1,300
SGE122116-P-CDF-30: Classroom 11	Classroom Drinking Fountain	<1.0	1,400
SGE122116-P-CDF-31: Classroom 12	Classroom Drinking Fountain	<1.0	1,300
SGE122116-P-CF-32: Classroom 12	Classroom Faucet	<1.0	1,200
SGE122116-P-CF-33: Classroom 15	Classroom Faucet	<1.0	650
SGE122116-P-CF-34: Classroom 16	Classroom Faucet	<1.0	940
SGE122116-P-CF-35: Classroom 13	Classroom Faucet	<1.0	1,400
SGE122116-P-CF-36: Classroom 17	Classroom Faucet	<1.0	580
SGE122116-P-CDF-37: Classroom 18	Classroom Drinking Fountain	<1.0	860



		Lead	Copper
Sample Identification and Location	Fixture Type	Results	Results
		(µg/L)	(µg/L)
SGE122116-P-CF-38: Classroom 19	Classroom Faucet	<1.0	750
SGE122116-P-CF-39: Classroom 20	Classroom Faucet	<1.0	730
SGE122116-P-CF-40: Classroom 21	Classroom Faucet	<1.0	780
SGE122116-P-OF-41: Staff Work Room, Room 176	Office Faucet	<1.0	1,700
SGE122116-P-CDF-42: Classroom 22	Classroom Drinking Fountain	<1.0	1,500
SGE122116-P-CDF-43: Classroom 23	Classroom Drinking Fountain	<1.0	1,300
SGE122116-P-WC-44: Hallway opposite Classroom 23, left fixture	Water Cooler Fountain	<1.0	1,010
SGE122116-P-WC-45: Gymnasium, left fixture	Water Cooler Fountain	<1.0	140
SGE122116-P-WC-46: Laboratory Blank	Distilled Water Blank	<1.0	<10
SGE122116-P-WC-47: Laboratory Spike	Lead and Copper Spike	12	1,200
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 indicated in **bold** indicate concentrations above the action levels of 15 μ g/L for lead and 1,300 μ g/L for copper Results indicated 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
SGE122116-P-KF-04: Middle island	Kitchen Faucet	7.84	7.98	16.8	17.8
SGE122116-P-CDF-08: Room 138	Classroom Drinking Fountain	7.78	8.01	16.5	19.1
SGE122116-P-CDF-12: Room 102	Classroom Drinking Fountain	7.70	7.82	19.6	20.4
SGE122116-P-CF-16: Room 108	Classroom Faucet	7.87	7.78	19.0	21.3
SGE122116-P-CF-20: Room 112	Classroom Faucet	7.88	7.95	18.9	16.9
SGE122116-P-CDF-24: Room 120	Classroom Drinking Fountain	7.91	7.76	15.5	21.3
SGE122116-P-CF-28: Room 138	Classroom Faucet	7.97	7.76	16.0	20.3
SGE122116-P-CF-32: Room 147	Classroom Faucet	7.78	7.67	16.8	20.3
SGE122116-P-CF-36: Room 146	Classroom Faucet	7.94	7.67	16.7	21.6
SGE122116-P-CF-40: Room 154	Classroom Faucet	7.95	7.77	17.0	20.8
SGE122116-P-WC-44: N. end of corridor 165	Water Cooler Fountain	8.03	7.78	14.8	20.5

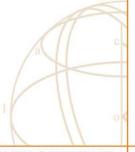




Table 3: Remedial Sampling Analytical Results

										Sampl	e Identif	ication									
Compling Event	CF-07	OF-09	CDF-10	NF-11	CDF-15	CF-23	CF-25	CF-29	CDF-30	CDF-31	CF-32	CF-35	OF-41	CDF-42	CDF-43	CDF-48: Health Room drinking fountain	CF-49: Room 191	CDF-50: Room 191	CDF-51a: Classroom 8	Laboratory Blank (-46, 51b	Laboratory Spike(-47)
Sampling Event Initial (12/21/2016)	1,400	1,400	1,500	1,900	1,200	3,200	1,400	1,300	1,400	1,300	1,200	1,400	1,700	1,500	1,300				-	<10	1,200
` '	· ·								· ·		· ·					1 150	-				1,200
Aggressive Flush (1/21/2017)	714	949	1,040	1,120	1,570	764	692	1,280	1,160	1,000	1,310	1,920	1,170	1,010	1,050	1,150	809	888	740	< 0.5	-
Second Draw (1/21/2017)	-	-	-	-	-	-	-	-	-	-	1,090	-	-	-	-	-	-	-	-	-	-
Third Draw (1/21/2017)	-	-	-	-	-	-	-	-	-	-	130	-	-	-	-	-	-	-	-	-	-
Three-Part Evaluation, 1st Draw (1/28/2017)	-	-	-	-	1,260	-	-	-	-	-	-	1,120	-	-	-	-	-	-	-	< 0.5	1,290
Second Draw (1/28/2017)	-	-	-	-	1,120	-	-	-	-	-	-	1,220	-	-	-	-	_	-	-	-	-
Third Draw (1/28/2017)	-	-	-	-	861	-	-	-	-	-	-	304	-	-	-	-	-	-	-	-	-
Aggressive Flush (3/2/2017)	-	-	-	-	963	-	-	-	-	-	918	1,070	-	-	-	-	-	-	-	< 0.5	1,190
EPA Action Level	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	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 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 Lee Group, 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 47 sample(s) on 12/21/16 for analysis. These sample(s) have been assigned a login order number of W612106. 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 were analyzed on January 12, 2017 and samples requiring dilutions were analyzed on January 13, 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. -Matrix Spike Failed for Copper. Failure a result of spiked sample concentration exceeding upper quantitation limit for target analyte.

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:

01/17/17

Project Coordinator II, M. Fernanda Pincheira

Date

01/17/17 15:37

01/17/17 15:59

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

Approved: Report Template: GenMetalReportFull v12.rpt Report Time Stamp:



Laboratory Report

Ryan Mathews

RJ Lee Group No.:W612106

Fulcrum Environmental

COC No.: Kennewick Samples Received: 12/21/16

406 N. 2nd St. Yakima, WA 98901 Analysis/Prep Date: 01/12/17 Report Date: 01/17/17

Client Project:

Fulcrum Kennewick

Date Received: 12/21/16 Sample Name: SGE122116-P-KF-01 Matrix: Potable Water RJ Lee Grp. ID: W612106-01 **Date Analyzed:** 01/12/17

Result Analyte Method **POL Oualifiers** (mg/L)(mg/L)EPA 200.8 0.86 0.01 Copper EPA 200.8 < 0.0010 0.001 Lead

Date Received: 12/21/16 Sample Name: SGE122116-P-KF-02 Matrix: Potable Water W612106-02 Date Analyzed: 01/12/17 RJ Lee Grp. ID:

Method Result **PQL** Analyte Qualifiers (mg/L)(mg/L)EPA 200.8 0.78 0.01 Copper Lead EPA 200.8 0.003 0.001

Date Received: 12/21/16 Sample Name: SGE122116-P-KF-03 Matrix: Potable Water RJ Lee Grp. ID: W612106-03 **Date Analyzed:** 01/12/17

Analyte Method Result **PQL Qualifiers** (mg/L)(mg/L)EPA 200.8 0.84 0.01 Copper Lead EPA 200.8 0.004 0.001

Date Received: 12/21/16 Sample Name: SGE122116-P-KF-04 Matrix: Potable Water RJ Lee Grp. ID: W612106-04 Date Analyzed: 01/12/17

Method Result **Analyte** POL **Qualifiers** (mg/L)(mg/L)0.93 0.01 Copper EPA 200.8 Lead EPA 200.8 0.001 0.001

Date Received: 12/21/16 Sample Name: SGE122116-P-KF-05 Matrix: Potable Water RJ Lee Grp. ID: W612106-05 Date Analyzed: 01/12/17

Result Method **Analyte PQL** Qualifiers (mg/L)(mg/L)0.93 EPA 200.8 0.01 Copper Lead EPA 200.8 < 0.0010 0.001

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

WWW.RJLEEGROUP.COM

01/17/17 15:37 Approved: Report Template: GenMetalReportFull v12.rpt Report Time Stamp: 01/17/17 15:59



Sample Name:	SGE122116-P-WC-06	Matrix	Potable Wate	yr	Date Received:	12/21/16
RJ Lee Grp. ID:	W612106-06	Matrix.	1 otable wate		Date Analyzed:	01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.78	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CF-07 Matrix: Potable Water

RJ Lee Grp. ID: W612106-07

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/13/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	0.006	0.001	

Sample Name: SGE122116-P-CDF-08 Matrix: Potable Water

RJ Lee Grp. ID: W612106-08

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	< 0.0010	0.001	

Sample Name: SGE122116-P-OF-09 Matrix: Potable Water

RJ Lee Grp. ID: W612106-09

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/13/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CDF-10 Matrix: Potable Water

RJ Lee Grp. ID: W612106-10

Date Received: 12/21/16

Date Analyzed: 01/13/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-NF-11 Matrix: Potable Water

RJ Lee Grp. ID: W612106-11

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/13/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.9	0.1	X
Lead	EPA 200.8	0.005	0.001	



Sample Name:	SGE122116-P-CDF-12 Matrix: Potab	le Water Date Received:	12/21/16
RJ Lee Grp. ID:		Date Analyzed:	01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.88	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CF-13 Matrix: Potable Water

RJ Lee Grp. ID: W612106-13 Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.88	0.01	_
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CDF-14 Matrix: Potable Water

RJ Lee Grp. ID: W612106-14

Date Received: 12/21/16

Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.96	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CDF-15 Matrix: Potable Water

RJ Lee Grp. ID: W612106-15

Date Received: 12/21/16

Date Analyzed: 01/13/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.2	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CF-16 Matrix: Potable Water

RJ Lee Grp. ID: W612106-16

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/12/17

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Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.88	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CF-17 Matrix: Potable Water

RJ Lee Grp. ID: W612106-17

Matrix: Potable Water

Date Received: 12/21/16

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	< 0.0010	0.001	



Sample Name:	SGE12211	6-P-WC-18	Matrix	Matrix: Potable Water	r	D	ate Received	1: 12/21/16
RJ Lee Grp. ID:	W612106-	18	Matrix:	1 Otable Wate	a.	D	ate Analyzeo	d: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.95	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CDF-19 Matrix: Potable Water

RJ Lee Grp. ID: W612106-19

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/12/17

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Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.77	0.01	
Lead	EPA 200.8	0.002	0.001	

Sample Name: SGE122116-P-CF-20 Matrix: Potable Water

RJ Lee Grp. ID: W612106-20

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.96	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CDF-21 Matrix: Potable Water

RJ Lee Grp. ID: W612106-21

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.86	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CF-22 Matrix: Potable Water

RJ Lee Grp. ID: W612106-22

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/12/17

Analy	te	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper		EPA 200.8	0.73	0.01	
Lead		EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CF-23 Matrix: Potable Water

RJ Lee Grp. ID: W612106-23

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/13/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	3.2	0.1	X
Lead	EPA 200.8	0.003	0.001	



Sample Name:	SGE122116-P-CDF-24 Matrix:	Potable Water	Date Received:	12/21/16
RJ Lee Grp. ID:	W612106-24	Totable Water	Date Analyzed:	01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.67	0.01	_
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CF-25 Matrix: Potable Water

RJ Lee Grp. ID: W612106-25

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/13/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CF-26 Matrix: Potable Water

RJ Lee Grp. ID: W612106-26

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.84	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CDF-27 Matrix: Potable Water

RJ Lee Grp. ID: W612106-27

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.78	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CF-28 Matrix: Potable Water

RJ Lee Grp. ID: W612106-28

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/12/17

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	Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Coj	pper	EPA 200.8	0.60	0.01	
Lea	ad	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CF-29 Matrix: Potable Water

RJ Lee Grp. ID: W612106-29

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/13/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	



Sample Name:SGE122116-P-CDF-30 Matrix:Potable WaterDate Received:12/21/16RJ Lee Grp. ID:W612106-30Date Analyzed:01/13/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CDF-31 Matrix: Potable Water

RJ Lee Grp. ID: W612106-31

Date Received: 12/21/16

Date Analyzed: 01/13/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CF-32 Matrix: Potable Water

RJ Lee Grp. ID: W612106-32

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/13/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.2	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CF-33 Matrix: Potable Water

RJ Lee Grp. ID: W612106-33 Matrix: Potable Water

Date Received: 12/21/16

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	< 0.0010	0.001	

Sample Name: SGE122116-P-CF-34 Matrix: Potable Water

RJ Lee Grp. ID: W612106-34

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/12/17

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Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.94	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CF-35 Matrix: Potable Water

RJ Lee Grp. ID: W612106-35

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/13/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Date Received: 12/21/16



SGE122116-P-CF-36

Sample Name:

RJ Lee Grp. ID:	W612106-	36	Matrix:	Potable Water		Date Anal	yzed: 01/12/17
Analyt	te		Method	l	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper			EPA 200.8	<u>.</u>	0.58	0.01	_
Lead		1	EPA 200.8		< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	SGE12211 W612106-	6-P-CDF-37 37	Matrix:	Potable Water		Date Rece Date Anal	
Analyt	te		Method	l	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper			EPA 200.8	•	0.86	0.01	•
Lead		1	EPA 200.8		< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	SGE12211 W612106-	6-P-CF-38 38	Matrix:	Potable Water		Date Rece Date Anal	
Analyt	te		Method	l	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper			EPA 200.8		0.75	0.01	
Lead			EPA 200.8		< 0.0010	0.001	
Sample Name: RJ Lee Grp. ID:	SGE12211 W612106-	6-P-CF-39 39	Matrix:	Potable Water		Date Rece Date Anal	

Matrix: Potable Water

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.73	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name:SGE122116-P-CF-40
RJ Lee Grp. ID:Matrix:Potable WaterDate Received:12/21/16Date Analyzed:01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.78	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-OF-41 Matrix: Potable Water

RJ Lee Grp. ID: W612106-41

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/13/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.7	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

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Sample Name: SGE122116-P-CDF-42 Matrix: Potable Water

RJ Lee Grp. ID: W612106-42

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/13/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-CDF-43 Matrix: Potable Water

RJ Lee Grp. ID: W612106-43

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/13/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-WC-44 Matrix: Potable Water

RJ Lee Grp. ID: W612106-44

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.01	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-WC-45 Matrix: Potable Water Date Received: 12/21/16 W612106-45 Date Analyzed: 01/12/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.14	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-WC-46 Matrix: Potable Water

RJ Lee Grp. ID: W612106-46

Date Received: 12/21/16

Date Analyzed: 01/12/17

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Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	< 0.010	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SGE122116-P-WC-47 Matrix: Potable Water

RJ Lee Grp. ID: W612106-47

Matrix: Potable Water

Date Received: 12/21/16

Date Analyzed: 01/13/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.2	0.1	X
Lead	EPA 200.8	0.012	0.001	

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 $Report\ Template:\ GenMetalReportFull_v12.rpt$



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. Cano

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.

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Report Time Stamp: 01/17/17 15:59

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Company Name:	Relinquished By (Print N	Relinquished By (Signature):	Company Name:	Relinquished By (Print Name):	Relinquished By (Signature):	SGEBAILGP-NF-11	SGE122116-P-CDF-10	SG E122116-P-0F09	SGE122116-P-CDF-08	59 E122116-P-CF-07	SG-E 122116-P-VC-06	SG E111116-P-KF-05	40-21-9-11801355	SG E12116-P-KF-03	SG E122116-8- KF-02	16-P-KF-01	Client Sample ID		Phone: (509) 574-0839	e, Zip:		Company: Fulcrum Er	Name: Lorrie Boutillier	Fax Results To:	Email Results To: a	Call with Verbal Results:	Phone: (509) 574-0839	City, State, Zip: Y	Address: 406 North 2nd Street	Company: Fulcrum Er	Name: Amanda Enbysk, Ryan Mathews	Date Logged In:	Project No.:		
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Metho	Relina	Date:		۸.	Date:	june 1	1848°		Sink #	SWE+	र्					tre 1791	n Sample Date					Email: lboutillier@efulcrum.net			rmathews@efulo							Logged In By:	Client No:		
Method of Shipment:	nished To:		Method of Shipment:	Relinquished To:	12-21-16											Z	Star	S. Carlotte	(509) 575-8453			efulcrum.net			crum.net		(509) 575-8453								
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Company Name:	Received By (Print	Received By (Signature):	Company Name	Received By (Print)	Received By (Signe	5															Analysis Requested	Ottle: 1482304	Other	4	res	Preservation:	Sample Purpose: A	Multiple Sources #s:	DOH Source #:	System ID #:	Sample Purpose: Information X	Stalluaru: Yes		r No.:	
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Method	Relinquished To:	Date:	Method o	Relinquished To:	Date:	7										1	Pres. U		_		'N)		X=Other	0=0il	SW=Surface Water						Accreditation (please list below):	NO. Of Pasitiess Pays.	If 'No ' No of Business Days:	Client Job No.:	
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SGE12116-P-12-18 SG E-122116-P-CDF-14 SGE-12116-P-CF-13 SG F122116-P-GF-G Send Invoice 26-F17116-6-Ct-30 SEE 12116-P-CF-17 SGE-12116-P-CACIS ATTENTION TO: 56 E 122116-P-CF-22 class SC E 122116-P-OF-21 SG E122116-P-CF-16 SG E122116-P-CDF-19 Instructions Chain of Chain of Lab Use Custody Custody Special Results Report ᅙ 7 Client Sample ID Phone: Name: Amanda Enbysk, Ryan Mathews Project No.: Company Name: Relinquished By (Signature): Relinquished By (Print Name): Phone: City, State, Zip: Address: Company: Fulcrum Environmental Name: Lorrie Boutillier Fax Results To: Email Results To: City, State, Zip: Address: Company: Fulcrum Environmental Consulting Date Logged In: Relinquished By (Print Name): Relinquished By (Signature); Company Name: all with Verbal Results: 406 North 2nd Street 406 North 2nd Street (509) 574-0839 (509) 574-0839 **RYAN MATHEWS** FULCYUM aenbysk@efulcrum.net, CC: rmathews@efulcrum.net Yakima, WA, 98901 Yakima, WA, 98901 Chrss Class Ckss cluss drink ft Class CLUSS Class class for at Water Cocker class tower Sample Description SX. drink CHIND GIVE LE towa towicet THE STATES tough THE U Fax: Email: lboutillier@efulcrum.net Fax: Client No: Logged in By: f.f Date: 1221-16 Method of Shipment: Relinquished To: Method of Shipment Relinquished To: 4 509) 575-8453 509) 575-8453 Sample Date Start Time: Time: Stop N 3 Wipe Area / Air Sample Only Multiple Sources #s: Purchase Order No.: ЕРА 200.8: Рь, Си Analysis Key | HNO3 Turnaround Chemistry Drinking Request Chain of Custody Chain of Custody Water 4°C Standard: Received by (Print Name) Unpres H₂SO₄ Company Name Preservation: Sample Purpose: A DOH Source #: System ID #: Received By (Signature): sample Purpose: Company Name: Received By (Print Name): Analysis Requested NaOH HC Yes Information X B - Other -S 0 WW=Wastewater GW=Groudwater S=Soil/Sludge Regulatory o If 'No,' No. of Business Days Accreditation (please list below): Client Job No.: DW=Drinking Water SW=Surface Water Relinquished To: Method of Shipment: Relinquished To: Method of Shipment: DEC 2 1 2016 Time: Pres. Upon Receipt (Y/N) Preservation Matrix G=Glass DW P=Plastic A=Air (filter or tube) W=Wipe Container 162017 Time: Container Type рΗ 210 No. Containers 7 5 35 3 57 167 161 19:5

Pennsylvania - HQ Monroeville, PA 15146 350 Hochberg Road

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W612106, Page 13 of 15

SGE122116-P-CF-26 SG Evall6 - P-C+33 SCE 17116-P-08-17 ATTENTION TO: SG EDJUGP-CF SA SG-EV2116-P-CPF-30 86-75-9-11403-58 565/11116- P-CF-23 Send Invoice SGE12116-P-CF-25 Instructions SG EVAILLY-COF-31 525-2-91/20133S 26-50-911K13-05 Chain of Custody Chain of Lab Use Special Results Report ᇹ Client Sample ID Project No.: Relinquished By (Print Name): City, State, Zip: Address: Company: Fax Results To: Email Results To: Phone: City, State, Zip: Address: Company: Name: Amanda Enbysk, Ryan Mathews Date Logged In: Relinquished By (Signature): Name: Lorrie Boutillier Call with Verbal Results: Relinquished By (Print Name): Relinquished By (Signature): Company Name: Fulcrum Environmental Fulcrum Environmental Consulting 406 North 2nd Street 406 North 2nd Street (509) 574-0839 **RYAN MATHEWS** (509) 574-0839 aenbysk@efulcrum.net, CC: rmathews@efulcrum.net Yakima, WA, 98901 Yakima, WA, 98901 Class drink ff C\255 class drink Class towa class drink fe 6 Jass Classforcet Class tower Class wass tower Jess towart Sample Description drink towast かりなみ Fax: Fax: Client No: Email: lboutillier@efulcrum.net Logged In By: 47 Relinquished To: Method of Shipment: Date: 421-16 Method of Shipment: Relinquished To: 509) 575-8453 509) 575-8453 Sample Date Start Time: Time: Stop 320 Wipe Area / Air Purchase Order No.: Sample Only EPA 200.8: Pb, Cu Analysis Key Turnaround Chemistry Drinking Chain of Request Chain of Custody Water Custody FONH 4°C Multiple Sources #s: Standard: Received By (Print Name): Received By (Signature): Received By (Print Name): Received By Signatur Unpres H₂SO₄ Preservation: Sample Purpose: A 🗆 DOH Source #: System ID #: Company Name ample Purpose: Information X Regulatory Analysis Requested Na₂SO₄ NaOH HC Yes No GW=Groudwater WW=Wastewater Matrix: Other -If 'No,' No. of Business Days Accreditation (please list below): Client Job No.: DW=Drinking Water SW=Surface Water Method of Shipment: Relinquished To: Method of Shipment: Relinquished To: Pres. Upon Receipt (Y/N) 0107 1 7 Preservation Matrix P=Plastic W=Wipe G=Glass Container: A=Air (filter or tube) 162017 Time: Container Type pΗ No. Containers 62 6.8 73

350 Hochberg Road Monroeville, PA 15146 Pennsylvania - HQ

724.733.1799 Fax

509.544.6010 Fax 509.545.4989 Phone

724.325.1776 Phone

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Washington

Pasco, WA 99301 2710 North 20th Avenue

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Date: Relinquished To:	Method of Shipment:	Relinquished To:	Date: (2-21-16	{										12-21	Sample Date		(509) 575-8453			Email: lboutillier@efulcrum.net			ws@efulcrum		(509) 575-8453					By:			
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Pennsylvania - HQ 350 Hochberg Road Monroeville, PA 15146

Columbia Basin Analytical Laboratories

Washington

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RJ LEE GROUP

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Fulcación.	5,0	rre): 1						water cooler	Color cooles	Cym var com	1	Sample Description)839 Fax:	Yakima, WA, 98901	2nd Street	Fulcrum Environmental Email: Ibou			aenbysk@efulcrum.net, CC: rmathews@efulcrum.net)839 Fax:	Takima, WA, 98901	2nd Street	and an electrical constants	vironmental Consulting		Logged In By:	Client No:	ATHEWS	
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DELIVERING SCIENTIFIC RESOLUTION

RJ LEE GROUP

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ATTACHMENT E

Remedial Analytical Results





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: Kennewick SD Drinking Water - Southgate Elementary

Work Order Number: 1701233

January 24, 2017

Attention Ryan Mathews:

Fremont Analytical, Inc. received 26 sample(s) on 1/23/2017 for the analyses presented in the following report.

Drinking Water Metals by EPA Method 200.8

This report consists of the following:

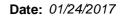
- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

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





CLIENT: Fulcrum Environmental Work Order Sample Summary

Project: Kennewick SD Drinking Water - Southgate

Work Order: 1701233

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1701233-001	SGE12117-P-CF-07	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-002	SGE12117-P-OF-09	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-003	SGE12117-P-CDF-10	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-004	SGE12117-S-CDF-10	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-005	SGE12117-T-CDF-10	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-006	SGE12117-P-NF-11	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-007	SGE12117-P-CDF-15	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-008	SGE12117-P-CF-23	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-009	SGE12117-P-CF-25	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-010	SGE12117-P-CF-29	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-011	SGE12117-S-CF-29	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-012	SGE12117-T-CF-29	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-013	SGE12117-P-CDF-30	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-014	SGE12117-P-CDF-31	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-015	SGE12117-P-CF-32	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-016	SGE12117-S-CF-32	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-017	SGE12117-T-CF-32	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-018	SGE12117-P-CF-35	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-019	SGE12117-P-OF-41	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-020	SGE12117-P-CDF-42	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-021	SGE12117-P-CDF-43	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-022	SGE12117-P-CF-49	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-023	SGE12117-P-CDF-50	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-024	SGE12117-P-CDF-51a	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-025	SGE12117-P-CDF-51b	01/21/2017 9:15 AM	01/23/2017 12:25 PM
1701233-026	SGE12117-P-CDF-48	01/21/2017 9:15 AM	01/23/2017 12:25 PM



Case Narrative

WO#: **1701233**Date: **1/24/2017**

CLIENT: Fulcrum Environmental

Project: Kennewick SD Drinking Water - Southgate 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:

1701233-001A 202777: Prep Comments for EPA200.8, Sample 1701233-001A: Turbidity: 0.01 NTU 1701233-002A 202778: Prep Comments for EPA200.8, Sample 1701233-002A: Turbidity: 0.10 NTU 1701233-003A 202779: Prep Comments for EPA200.8, Sample 1701233-003A: Turbidity: 0.00 NTU 1701233-006A 202780: Prep Comments for EPA200.8, Sample 1701233-006A: Turbidity: 0.00 NTU 1701233-007A 202781: Prep Comments for EPA200.8, Sample 1701233-007A: Turbidity: 0.00 NTU 1701233-008A 202782: Prep Comments for EPA200.8, Sample 1701233-008A: Turbidity: 0.05 NTU 1701233-009A 202783: Prep Comments for EPA200.8, Sample 1701233-009A: Turbidity: 0.00 NTU 1701233-010A 202784: Prep Comments for EPA200.8, Sample 1701233-010A: Turbidity: 0.09 NTU 1701233-013A 202785: Prep Comments for EPA200.8, Sample 1701233-013A: Turbidity: 0.01 NTU 1701233-014A 202789: Prep Comments for EPA200.8, Sample 1701233-014A: Turbidity: 0.01 NTU 1701233-015A 202790: Prep Comments for EPA200.8, Sample 1701233-015A: Turbidity: 0.03 NTU 1701233-018A 202791: Prep Comments for EPA200.8, Sample 1701233-018A: Turbidity: 0.13 NTU 1701233-019A 202792: Prep Comments for EPA200.8, Sample 1701233-019A: Turbidity: 0.07 NTU 1701233-020A 202793: Prep Comments for EPA200.8, Sample 1701233-020A: Turbidity: 0.01 NTU 1701233-021A 202794: Prep Comments for EPA200.8, Sample 1701233-021A: Turbidity: 0.01 NTU 1701233-022A 202795: Prep Comments for EPA200.8, Sample 1701233-022A: Turbidity: 0.03 NTU 1701233-023A 202796: Prep Comments for EPA200.8, Sample 1701233-023A: Turbidity: 0.01 NTU 1701233-024A 202797: Prep Comments for EPA200.8, Sample 1701233-024A: Turbidity: 0.19 NTU 1701233-025A 202932: Prep Comments for EPA200.8, Sample 1701233-025A: Turbidity: 0.01 NTU 1701233-026A 202936: Prep Comments for EPA200.8, Sample 1701233-026A: Turbidity: 0.01 NTU



Qualifiers & Acronyms

WO#: **1701233**

Date Reported: 1/24/2017

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



Analytical Report

Work Order: 1701233

Date Reported: 1/24/2017

CLIENT: Fulcrum Environmental

Project: Kennewick SD Drinking Water - Southgate Elementary

Lab ID: 1701233-001 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-CF-07 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>
Batch ID: 15996 Analyst: TN

Copper 714 0.500 μg/L 1 1/23/2017 5:38:46 PM

Lab ID: 1701233-002 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-OF-09 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>
Batch ID: 15996 Analyst: TN

Copper 949 0.500 μ g/L 1 1/23/2017 5:42:23 PM

Lab ID: 1701233-003 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-CDF-10 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>

Batch ID: 15996

Analyst: TN

Copper 1,040 0.500 µg/L 1 1/23/2017 5:45:59 PM

Original



Work Order: 1701233

Date Reported: 1/24/2017

CLIENT: Fulcrum Environmental

Project: Kennewick SD Drinking Water - Southgate Elementary

Lab ID: 1701233-006 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-NF-11 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>
Batch ID: 15996 Analyst: TN

Copper 1,120 0.500 µg/L 1 1/23/2017 5:49:35 PM

Lab ID: 1701233-007 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-CDF-15 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>

Batch ID: 15996

Analyst: TN

Copper 1,570 0.500 µg/L 1 1/23/2017 5:53:12 PM

Lab ID: 1701233-008 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-CF-23 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>

Batch ID: 15996

Analyst: TN

Copper 764 0.500 µg/L 1 1/23/2017 5:56:48 PM



Work Order: 1701233

Date Reported: 1/24/2017

CLIENT: Fulcrum Environmental

Project: Kennewick SD Drinking Water - Southgate Elementary

Lab ID: 1701233-009 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-CF-25 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>
Batch ID: 15996 Analyst: TN

Copper 692 0.500 µg/L 1 1/23/2017 6:00:24 PM

Lab ID: 1701233-010 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-CF-29 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>

Batch ID: 15996

Analyst: TN

Copper 1,280 0.500 μg/L 1 1/23/2017 6:04:00 PM

Lab ID: 1701233-013 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-CDF-30 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>

Batch ID: 15997

Analyst: TN

Copper 1,160 0.500 µg/L 1 1/23/2017 6:28:07 PM



Work Order: 1701233

Date Reported: 1/24/2017

CLIENT: Fulcrum Environmental

Project: Kennewick SD Drinking Water - Southgate Elementary

Lab ID: 1701233-014 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-CDF-31 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>
Batch ID: 15997 Analyst: TN

Copper 1,000 0.500 µg/L 1 1/23/2017 6:42:31 PM

Lab ID: 1701233-015 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-CF-32 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>
Batch ID: 15997 Analyst: TN

Copper 1,310 0.500 μg/L 1 1/23/2017 6:46:07 PM

Client Sample ID: SGE12117-P-CF-35 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>

Batch ID: 15997

Analyst: TN

Copper 1,920 0.500 µg/L 1 1/23/2017 6:49:44 PM



Work Order: 1701233

Date Reported: 1/24/2017

CLIENT: Fulcrum Environmental

Project: Kennewick SD Drinking Water - Southgate Elementary

Lab ID: 1701233-019 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-OF-41 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>
Batch ID: 15997 Analyst: TN

Copper 1,170 0.500 μg/L 1 1/23/2017 6:53:20 PM

Lab ID: 1701233-020 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-CDF-42 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>
Batch ID: 15997 Analyst: TN

Copper 1,010 0.500 μg/L 1 1/23/2017 7:04:11 PM

Lab ID: 1701233-021 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-CDF-43 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>

Batch ID: 15997

Analyst: TN

Copper 1,050 0.500 µg/L 1 1/23/2017 7:07:48 PM



Work Order: 1701233

Date Reported: 1/24/2017

CLIENT: Fulcrum Environmental

Project: Kennewick SD Drinking Water - Southgate Elementary

Lab ID: 1701233-022 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-CF-49 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>
Batch ID: 15997 Analyst: TN

Copper 809 0.500 μg/L 1 1/23/2017 7:11:24 PM

Lab ID: 1701233-023 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-CDF-50 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>
Batch ID: 15997 Analyst: TN

Copper 888 0.500 μg/L 1 1/23/2017 7:15:00 PM

Lab ID: 1701233-024 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-CDF-51a Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>

Batch ID: 15997

Analyst: TN

Copper 740 0.500 μg/L 1 1/23/2017 7:18:37 PM



Work Order: 1701233

Date Reported: 1/24/2017

CLIENT: Fulcrum Environmental

Project: Kennewick SD Drinking Water - Southgate Elementary

Lab ID: 1701233-025 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-CDF-51b Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>
Batch ID: 16006 Analyst: TN

Copper ND 0.500 μg/L 1 1/23/2017 11:56:34 PM

Lab ID: 1701233-026 **Collection Date:** 1/21/2017 9:15:00 AM

Client Sample ID: SGE12117-P-CDF-48 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>
Batch ID: 16006 Analyst: TN

Copper 1,150 0.500 B $\mu g/L$ 1 1/24/2017 12:18:14 AM





Work Order: 1701233

QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Project:	Kennewick S	D Drinking Water -	Southgate				D	rinking Water	Metals by EF	PA Metho	d 200.8
Sample ID	MB-16006	SampType: MBLK			Units: µg/L		Prep Date:	1/23/2017	RunNo: 34	027	
Client ID:	MBLKW	Batch ID: 16006					Analysis Date:	1/23/2017	SeqNo: 64	7625	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit RPD Ref V	al %RPD	RPDLimit	Qual
Copper		1.99	0.500								
Sample ID	LCS-16006	SampType: LCS			Units: µg/L		Prep Date:	1/23/2017	RunNo: 34	027	
Client ID:	LCSW	Batch ID: 16006					Analysis Date:	1/23/2017	SeqNo: 64	7626	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit RPD Ref V	al %RPD	RPDLimit	Qual
Copper		92.5	0.500	100.0	0	92.5	85	115			
Sample ID	1701233-025ADUP	SampType: DUP			Units: µg/L		Prep Date:	1/23/2017	RunNo: 34	027	
Client ID:	SGE12117-P-CDF-51b	Batch ID: 16006					Analysis Date:	1/24/2017	SeqNo: 64	7630	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit RPD Ref V	al %RPD	RPDLimit	Qual
Copper		ND	0.500						0	30	
Sample ID	1701233-025AMS	SampType: MS			Units: µg/L		Prep Date:	1/23/2017	RunNo: 34	027	
Client ID:	SGE12117-P-CDF-51b	Batch ID: 16006					Analysis Date:	1/24/2017	SeqNo: 64	7631	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit RPD Ref V	al %RPD	RPDLimit	Qual
Copper		167	0.500	200.0	0	83.7	70	130			
Sample ID	1701233-025AMSD	SampType: MSD			Units: µg/L		Prep Date:	1/23/2017	RunNo: 34	027	
Client ID:	SGE12117-P-CDF-51b	Batch ID: 16006					Analysis Date:	1/24/2017	SeqNo: 64	7632	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit RPD Ref V	al %RPD	RPDLimit	Qual
Copper		186	0.500	200.0	0	92.9	70	130 167	.5 10.4	30	

Page 12 of 18 Original

Date: 1/24/2017



Work Order: 1701233

Analyte

QC SUMMARY REPORT

%RPD RPDLimit

Qual

CLIENT: Fulcrum Environmental

Drinking Water Metals by EPA Method 200.8

%REC LowLimit HighLimit RPD Ref Val

Project: Kennewick SD Drinking Water - Southgate

 Sample ID
 MB-15997
 SampType:
 MBLK
 Units:
 μg/L
 Prep Date:
 1/23/2017
 RunNo:
 34024

 Client ID:
 MBLKW
 Batch ID:
 15997
 Analysis Date:
 1/23/2017
 SeqNo:
 647478

SPK value SPK Ref Val

Copper ND 0.500

Result

Sample ID LCS-15997 SampType: LCS Units: µq/L Prep Date: 1/23/2017 RunNo: 34024 Analysis Date: 1/23/2017 Client ID: LCSW Batch ID: 15997 SeqNo: 647479 LowLimit HighLimit RPD Ref Val Analyte Result RL SPK value SPK Ref Val %REC %RPD RPDLimit Qual 85 87.4 0.500 100.0 0 87.4 115 Copper

SampType: **DUP** Sample ID 1701233-013ADUP Units: µg/L Prep Date: 1/23/2017 RunNo: 34024 Client ID: SGE12117-P-CDF-30 Analysis Date: 1/23/2017 Batch ID: 15997 SeqNo: 647481 Result RL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual Analyte Copper 1,130 0.500 1.157 2.37 30

Sample ID 1701233-013AMS	SampType: MS			Units: µg/L		Prep Da	te: 1/23/20	17	RunNo: 340	024	
Client ID: SGE12117-P-CDF-30	Batch ID: 15997					Analysis Da	te: 1/23/20	17	SeqNo: 647	7482	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	1,230	0.500	200.0	1,157	35.0	70	130				S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Sample ID 1701233-013AMSD	SampType: MSD			Units: µg/L		Prep Da	te: 1/23/20	17	RunNo: 340)24	
Client ID: SGE12117-P-CDF-30	Batch ID: 15997					Analysis Da	te: 1/23/20	17	SeqNo: 647	7483	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	1,260	0.500	200.0	1,157	50.7	70	130	1,227	2.53	30	S

NOTES:

Original Page 13 of 18

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.





Work Order: 1701233

QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Sample ID N Client ID: N Analyte Copper Sample ID L	MBLKW LCS-15996	SampType: MBLK Batch ID: 15996 Result ND SampType: LCS	RL 0.500	SPK value	Units: µg/L SPK Ref Val	%REC	Prep Date: Analysis Date:			RunNo: 340 SeqNo: 647		
Analyte Copper	LCS-15996	Result ND		SPK value	SPK Ref Val		Analysis Date:	1/23/20	17	SeaNo: 64 7	7.420	
Copper		ND		SPK value	SPK Ref Val	%REC				004.10. 01.	430	
			0.500				LowLimit H	ighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sample ID L		SampType: LCS										
					Units: µg/L		Prep Date:	1/23/20	17	RunNo: 340)23	
Client ID: L	LCSW	Batch ID: 15996					Analysis Date:	1/23/20	17	SeqNo: 647	7431	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	ighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		90.6	0.500	100.0	0	90.6	85	115				
Sample ID 1	1701204-001ADUP	SampType: DUP			Units: µg/L		Prep Date:	1/23/20	17	RunNo: 340	023	
Client ID: B	ВАТСН	Batch ID: 15996					Analysis Date:	1/23/20	17	SeqNo: 647	7433	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	ighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		21.1	0.500						22.00	4.04	30	
Sample ID 1	1701204-001AMS	SampType: MS			Units: µg/L		Prep Date:	1/23/20	17	RunNo: 340)23	
Client ID: B	ВАТСН	Batch ID: 15996					Analysis Date:	1/23/20	17	SeqNo: 647	7434	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	ighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		207	0.500	200.0	22.00	92.5	70	130				
Sample ID 1	1701204-001AMSD	SampType: MSD			Units: µg/L		Prep Date:	1/23/20	17	RunNo: 340)23	
Client ID: B	ВАТСН	Batch ID: 15996					Analysis Date:	1/23/20	17	SeqNo: 647	7435	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	ighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		207	0.500	200.0	22.00	92.7	70	130	207.0	0.202	30	

Page 14 of 18 Original



Sample Log-In Check List

CI	ient Name:	FE			Work Ord	ler Num	nber: 1701233	1	
Lo	ogged by:	Erica Silva	a		Date Rec	eived:	1/23/201	7 12:25:00 PM	
<u>Cha</u>	in of Custo	od <u>y</u>							
1.	Is Chain of C	ustody com	plete?		Yes [✓	No 🗌	Not Present	
2.	How was the	sample deli	vered?		Client				
Log	In								
_	— Coolers are p	resent?			Yes [✓	No 🗌	NA 🗌	
4.	Shipping con	tainer/coole	r in good condition?		Yes	✓	No \square		
5.			n shipping container/cooler? Custody Seals not intact)		Yes [No 🗌	Not Required 🗹	
6.	Was an atten	npt made to	cool the samples?		Yes [✓	No 🗌	NA 🗌	
7.	Were all item	s received a	at a temperature of >0°C to 10.0°	C*	Yes [No 🗸	na 🗆	
			<u>Sam</u> g	oles re	ceived at a	ppropr	iate temperat	<u>ure</u>	
8.	Sample(s) in	proper cont	ainer(s)?		Yes	✓	No 📙		
9.	Sufficient sar	nple volume	e for indicated test(s)?		Yes	✓	No 🗌		
10.	Are samples	properly pre	eserved?		Yes	✓	No 🗌		
11.	Was preserva	ative added	to bottles?		Yes	✓	No \square	NA \square	
						3 to 00		A, 012A, 016A, 017A	
	Is there head				Yes l		No \square	NA 🗸	
13.	Did all sample	es containe	rs arrive in good condition(unbrok	en)?	,	✓	No 🗀		
14.	Does paperw	ork match b	oottle labels?		Yes	✓	No 📙		
15.	Are matrices	correctly ide	entified on Chain of Custody?		,	✓	No 🗌		
16.	Is it clear wha	at analyses	were requested?			✓	No 🗀		
17.	Were all hold	ing times at	ple to be met?		Yes	✓	No 🗀		
Spe	cial Handli	ing (if ap	plicable)						
18.	Was client no	otified of all	discrepancies with this order?		Yes [✓	No \square	NA 🗌	
	Person	Notified:	Amanda Enbysk	Date			1/23/2017		
	By Who	m:	Erica Silva	Via:	✓ eMail	✓ P	hone 🗌 Fax	☐ In Person	
	Regardi	ng:	Two bottles labeled "51" receive	d, one	bottle label	ed "P-C	DF-48" receive	ed	
	Client In	structions:	Designate one "51a" and one "5	1b" and	d run both, a	add "48	" to COC and	run	
19.	Additional rer	marks:							<u> </u>
<u>ltem</u>	Information								
		Item #	Temp °C						

11.3

9.7

Cooler

Sample

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

	1
The second secon	O
15	3
alytu	9
a.	7

Chain of Custody Record and Laboratory Services Agreement

	Analytical	Date:	1/21/2017 Laboratory Project No (internal):	1701733
3600 Fremont Ave N. Seattle, WA 98103	Tel: 206-352-3790 Fax: 206-352-7178		Connected SD Drinkin Water - Southerate Councertar	te Clamentary 16 0
Client:	Fulcrum Environmental Consulting	Project No: 162		•
Address:	406 North Second Street	Location: Southga	Southgake Elementany, Kennewick, WA	Control of the Contro
City, State, Zip:	Yakima, WA 98901	Report To (PM): Ryan Mathews	news	
Telephone:	509.574.0839 Fax: 509.545.8453	PM Email: rmathews	rmathews@efulcrum.net; cc: aenbysk@efulcrum.net	
A = Air,	c, O = Other, P = Product, S = Soil, SD = Sediment,	SL = Solid, W = Water, DW = Drinking Water,	r, GW = Ground Water, SW = Storm Water, WW = Waste Water	OF DESCRIPTION OF STREET OF STREET STREET
Figure 19 Agental States of the States of States of the Additional States of Additional States of the Additional States o	Sample A Sign County	Rotte Other Control of the Control o	24 8 6 2	
Sample Name	CE /21/200 (All) DIN (Madua)	8		
100	P-0F-09 1	a ⊗	THE STATE OF THE S	FELDER STREET ST
01-300-1-11181319S	-IO	⊗	e	
01-300-5-till1995	TO STATE OF	100円の日本の金の金の金の金の金の一の一の一の一の一の一の一の一の一の一の一の一の一の一の	tow, unpreserved	at and show the control of the party of the control
01-307-1-41181362			HOLD; unpresured	
54E12117-8-NF-11		⊗	#NO3 presured	minoral seed of the seed
59512117-8-605-15	F-15 and the ment for discussions concern series and series	XX	CONTRACTOR AND STATE OF STATE	
SGE12117-P-4-23	2-33	18		anchi
36-77-9-41161365	-25 - Francisco S. Essalu por l'use professione a percepsione de l'	⊗	is the hendro diengle dien use to the to the 235.00 (sample	for samples requiring specie
865-21-8-4-208	- 29 I V V			
**Metals Analysis (Circle):	4-5 RCRA-8 Priority Pollutants TAL Individual: Ag	Al As B Ba Be Ca Cd Co Cr Cu F	망	
***Anions (Circle): Nitrate	Nitrite Chloride	Fluoride Nitrate+Nitrite	received after 4:00pm will begin of the state of the stat	reserved samples
Sample Disposal:	Disposal by Lab (Samples will be held for 30 days unless otherwise noted. A ret may be assessed if samples are retained after 30 days.)	s unless otherwise noted. A fee may be	lay.	
I represent that I am auth	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.	half of the Client named above, tha		
Relinquished MAA	Date/Time Process of the Process of	Date/Time	isphase and the outside embidying on the XI.	
Relinquished		Date/Time	TAT → SameDay^ NextDay^ 2	2 Day 3 Day STD
x Dwyd M	() × 35 61 +12/16 × ()	100000000000000000000000000000000000000		

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Tal: 206 252 2700	naly	0
250 270	tical	

Chain of Custody Record and Laboratory Services Agreement

		nate: 1/21/2017	1701722
	Analytical		\$
3600 Fremont Ave N. Seattle, WA 98103	Tel: 206-352-3790 Fax: 206-352-7178	Kinnewick SO prinking b	ater - Southeate Glementar 17
THE STREET SALES OF THE SALES O	Fulcrum Environmental Consulting	Project No: 162017 C	y;
Address:	406 North Second Street	Southgate Elementary,	Kennewick, WA
City, State, Zip:	Yakima, WA 98901	Report To (PM): Ryan Mathews	C. Toda, Sec. (2) Assessed. Commission of the commission. Period opening of the commission of the commission of the commission of the commission.
Telephone:	509.574.0839 Fax: 509.545.8453	PM Email: rmathews@efulcrum.net; cc: aenbysk@efulcrum.net)efulcrum.net
*Matrix Codes: A = Air, AQ =	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
Type of the Transmission of the August of th		Re Official States of Stat	
Sample Name	Sample Sample Time (Matrix)*	2501 MATO CIES (S.O.) CATS CES V	Comments
E12117-5-CF-29	mo gibo #/12/		HOLD, improvinced
P6-72-T-411613109	29 1 1 1		HOLD; unpreserved
28-1911-P-9P-30	0F-30	89	HNO2 preserved
59E17117-18-00F-3	0 = -3]		and by the property of the well be used to have a page as
56812117-8-6-32	F-37	⊗	<
18-70-5-41141795	37		How; impressived
そろこうしてーナーインろう	2.33		HOLD; unpreserved
SGE12117-8-CF-35	F-36	8	HNO3 preserved
17-40-9-411R17DS	14-41		and the second control of the contro
CH-700-9- TIMBIDD	0F-43 4 4 4	⊗	_
**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	B
***Anions (Circle): Nitrate	Nitrite Chloride	O-Phosphate Fluoride Nitrate+Nitrite received after 4:00pm will begin	7
Sample Disposal:	Return to Client Disposal by Lab (Samples will be held for 30 days.) assessed if samples are retained after 30 days.	Disposal by Lab (Samples will be held for 30 days unless otherwise noted. A ree may be on the following business day. assessed if samples are retained after 30 days.)	& Mise beserve of confer one
I represent that I am auth	I represent that I am authorized to enter into this Agreement with Fremont Anal agreement to each of the terms on the front and backside of this Agreement.	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 percement to each of the terms on the front and backside of this Agreement.	
Relinquished		Received Date/Time Date/Time	1950 20 1950
X/ Mound Miles	1/21/2014; Heco		The company of the co
	Date/Time Re	x Note of the section	Aplease coordinate with the lah in advance
			Aplease coordinate with the lah in advance

Distribution: White - Lab, Yellow - File, Pink - Originator

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COC 1.1 - 4.5.16 - 1 of 2

Date Imme (Matrix) (Matrix)	3600 Fremont Ave N. Seattle, WA 98103 Client: Address: City, State, Zip: Telephone: *Matrix Codes: A = Air, AG	Tel: 206-352-3790 Fax: 206-352-7178 Fulcrum Environmental Consulting 406 North Second Street Yakima, WA 98901 509.574.0839 Fax: 509.545.845: Sample Sample Sample Sample Type	Chain of Project Nan Project No: Location: Report To (PM Email: SL = Solid, W = Water, State of the state o
A=Air, AQ=Aqueous, B=Bulk, O=Other, P=Product, S=Soil, SD=Sediment, St=Soild, W=Water, DW=Dni A=Air, AQ=Aqueous, B=Bulk, O=Other, P=Product, S=Soil, SD=Sediment, St=Soild, W=Water, DW=Dni A=Air, AQ=Aqueous, B=Bulk, O=Other, P=Product, S=Soil, SD=Sediment, St=Soild, W=Water, DW=Dni A=Air, AQ=Aqueous, B=Bulk, O=Other, P=Product, S=Soil, SD=Sediment, St=Soild, W=Water, DW=Dni A=Air, AQ=Aqueous, B=Bulk, O=Other, P=Product, S=Soil, SD=Sediment, St=Soild, W=Water, DW=Dni A=Air, AQ=Aqueous, B=Bulk, O=Other, P=Product, S=Soil, SD=Sediment, St=Soild, W=Water, DW=Dni A=Air, AQ=Aqueous, B=Bulk, O=Other, P=Product, S=Soil, SD=Sediment, St=Soild, W=Water, DW=Dni A=Air, AQ=Aqueous, B=Bulk, O=Other, P=Product, S=Soild, W=Water, DW=Dni A=Air, AQ=Aqueous, B=Bulk, O=Other, P=Product, S=Soild, W=Water, DW=Dni A=Air, AQ=Aqueous, B=Bulk, O=Other, DW=Dni A=Aqueous, B=Bu	Address:	406 North Second Street	(PM):
A=Air, AQ=Aqueous, B=Bulk, O=Other, P=Product, S=Soil, SD=Sediment, SL=Soild, W=Water, DW=Driver, AQ=Aqueous, B=Bulk, O=Other, P=Product, S=Soil, SD=Sediment, SL=Soild, W=Water, DW=Driver, AQ=Aqueous, B=Bulk, O=Other, P=Product, S=Soil, SD=Sediment, SL=Soild, W=Water, DW=Driver, DW=Dri	City, State, Zip:	8901	1
Sample Sample Sample Sample Sample Sample Type Date Time (Marrin)* OF GET STAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe P-COF-51 a Priority Pollulants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Applis (Circle): MTCA-5 RCRA-8 Priority Pollulants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe The Coff-51 b Surface Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite intele): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite Date/Time Date/Time Date/Time Date/Time Date/Time Date/Time Date/Time Date/Time Date/Time Date/Time Date/Time	A = Air.	B = Bulk, O = Other, P = Product, S = Soil,	SL = Solid, W = Water, DW = Dri
COF-51 a	A = Air,	B = Bulk, O = Ottlet, F = Flower, Sample Sample Sample Type	S (34) Sacine Rate Openic Ope
COF-51 b COF-51	1-1-4-1181375	1 1 0915 pw	<i>p</i> ⊗ ⊗
CDF-48 CDF-48	00	COF-50	⊗ (⊗
Metals Analysis (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe *Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Tanions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Tanions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Tanions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Tanions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Tanions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Tanions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Tanions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Tanions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Tanions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Tanions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Tanions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Tanions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Tanions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Tanions (Circle): Nitrate Nitrite Sulfate Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Tanions (Circle): Nitrate Nitrite Sulfate Su		CDE-51 b	3 8
Metals Analysis (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe *Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ****Anions (Circle): Nitrate Nitrate+Nitrite ****Anions (Circle): Nitrate Nitrite Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite *****Anions (Circle): Nitrate Nitrate+Nitrite *****Anions (Circle): Nitrate Nitrate Nitrate+Nitrite ***********************************	12117-	CDE-48 A A	
Metals Analysis (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe *Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite Sample Disposal: Return to Client assessed if 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 agreement to each of the terms on the front and backside of this Agreement. Recripquished Date/Time Date/Time Relinquished Date/Time Date/Time Date/Time Date/Time			
***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite ***Anions (Circle): Nitrate Nitrite Sulfate ***Anions (Circle): Nitrate Nitrite ***Anions (Circle): Nitrate Nitrate Nitrate Nitrite ***Anions (Circle): Nitrate Nitrate Nitrite ***Anion	**Notale Applysis (Circ	MTCA-5 RCRA-8 Priority Pollutants TAL	Al As B Ba Be Ca Cd Co Cr Cu
Sample Disposal: Return to Client 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 agreement to each of the terms on the front and backside of this Agreement. Retinguished Relinquished Date/Time Relinquished Date/Time Date/Time Relinquished Date/Time Relinquished Date/Time Relinquished Relinquished Date/Time Relinquished Relinquished Relinquished Date/Time	***Anions (Circle): N	te Nitrite Chloride	hosphate Fluoride Nitrate+Nitrite or 30 days unless otherwise noted. A fee may be
77.	Sample Disposal: I represent that I am	Return to Client assessed if samples are retained after and the assessed if samples are retained after and the remont Analytic	30 days.) al on behalf of the Client named above, tha
Relinquished MAC 1/2/16/14 1875 (Reprised 123)	TT AA	the terms on the front and backside of this Agreement. Date/Time Receive	ad Date/Time
7	× Re ×	Date/fine (193/) (193/)	23

www.fremontanalytical.com



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: Kennewick SD - Southgate Elementary Follow-Up Sampling

Work Order Number: 1701342

February 08, 2017

Attention Ryan Mathews:

Fremont Analytical, Inc. received 8 sample(s) on 1/30/2017 for the analyses presented in the following report.

Drinking Water Metals by EPA Method 200.8

This report consists of the following:

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

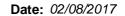
All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward Project Manager CC:

Amanda Enbysk





CLIENT: Fulcrum Environmental Work Order Sample Summary

Project: Kennewick SD - Southgate Elementary Follo

Work Order: 1701342

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1701342-001	SGE12817-P-CDF-15	01/28/2017 9:00 AM	01/30/2017 9:44 AM
1701342-002	SGE12817-S-CDF-15	01/28/2017 9:00 AM	01/30/2017 9:44 AM
1701342-003	SGE12817-T-CDF-15	01/28/2017 9:00 AM	01/30/2017 9:44 AM
1701342-004	SGE12817-P-CF-35	01/28/2017 9:00 AM	01/30/2017 9:44 AM
1701342-005	SGE12817-S-CF-35	01/28/2017 9:00 AM	01/30/2017 9:44 AM
1701342-006	SGE12817-T-CF-35	01/28/2017 9:00 AM	01/30/2017 9:44 AM
1701342-007	SGE12817-P-CDF-51B	01/28/2017 9:00 AM	01/30/2017 9:44 AM
1701342-008	SGE12817-P-WC-47	01/28/2017 9:00 AM	01/30/2017 9:44 AM



Case Narrative

WO#: **1701342**Date: **2/8/2017**

CLIENT: Fulcrum Environmental

Project: Kennewick SD - Southgate 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:

1701342-003A 204409: Prep Comments for EPA200.8, Sample 1701342-003A: Turbidity: 0.03 NTU 1701342-006A 204410: Prep Comments for EPA200.8, Sample 1701342-006A: Turbidity: 0.09 NTU 1701342-001A 205368: Prep Comments for EPA200.8, Sample 1701342-001A: Turbidity: 0.01 NTU 1701342-002A 205369: Prep Comments for EPA200.8, Sample 1701342-002A: Turbidity: 0.15 NTU 1701342-004A 205370: Prep Comments for EPA200.8, Sample 1701342-004A: Turbidity: 0.06 NTU 1701342-005A 205371: Prep Comments for EPA200.8, Sample 1701342-005A: Turbidity: 0.09 NTU 1701342-007A 205372: Prep Comments for EPA200.8, Sample 1701342-007A: Turbidity: 0.02 NTU 1701342-008A 205373: Prep Comments for EPA200.8, Sample 1701342-008A: Turbidity: 0.16 NTU



Qualifiers & Acronyms

WO#: **1701342**

Date Reported: 2/8/2017

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: 1701342

Date Reported: 2/8/2017

CLIENT: Fulcrum Environmental

Project: Kennewick SD - Southgate Elementary Follow-Up Sampling

Lab ID: 1701342-001 **Collection Date:** 1/28/2017 9:00:00 AM

Client Sample ID: SGE12817-P-CDF-15 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>
Batch ID: 16138 Analyst: TN

Copper 1,260 0.500 µg/L 1 2/6/2017 6:26:05 PM

Lab ID: 1701342-002 **Collection Date:** 1/28/2017 9:00:00 AM

Client Sample ID: SGE12817-S-CDF-15 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

Drinking Water Metals by EPA Method 200.8 Batch ID: 16138 Analyst: TN

Copper 1,120 0.500 $\mu g/L$ 1 2/6/2017 6:29:42 PM

Lab ID: 1701342-003 **Collection Date:** 1/28/2017 9:00:00 AM

Client Sample ID: SGE12817-T-CDF-15 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>

Batch ID: 16089

Analyst: TN

Copper 861 0.500 μg/L 1 1/31/2017 7:01:15 PM



Work Order: 1701342

Date Reported: 2/8/2017

CLIENT: Fulcrum Environmental

Project: Kennewick SD - Southgate Elementary Follow-Up Sampling

Lab ID: 1701342-004 **Collection Date:** 1/28/2017 9:00:00 AM

Client Sample ID: SGE12817-P-CF-35 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>

Batch ID: 16138

Analyst: TN

Copper 1,120 0.500 µg/L 1 2/6/2017 6:33:18 PM

Lab ID: 1701342-005 **Collection Date:** 1/28/2017 9:00:00 AM

Client Sample ID: SGE12817-S-CF-35 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>

Batch ID: 16138

Analyst: TN

Copper 1,220 0.500 µg/L 1 2/6/2017 6:36:55 PM

Client Sample ID: SGE12817-T-CF-35 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>

Batch ID: 16089

Analyst: TN

Copper 304 0.500 µg/L 1 1/31/2017 7:04:52 PM



Work Order: 1701342

Date Reported: 2/8/2017

CLIENT: Fulcrum Environmental

Project: Kennewick SD - Southgate Elementary Follow-Up Sampling

Lab ID: 1701342-007 **Collection Date:** 1/28/2017 9:00:00 AM

Client Sample ID: SGE12817-P-CDF-51B Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>
Batch ID: 16138 Analyst: TN

Copper ND 0.500 µg/L 1 2/6/2017 6:47:46 PM

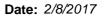
Lab ID: 1701342-008 **Collection Date:** 1/28/2017 9:00:00 AM

Client Sample ID: SGE12817-P-WC-47 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>
Batch ID: 16138
Analyst: TN

Copper 1,290 0.500 $\mu g/L$ 1 2/6/2017 6:51:22 PM





Work Order: 1701342

QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

	SD - Southgate Elem	entary Fo	oll		Drinking Water Metals by EPA Method 200.
Sample ID MB-16138	SampType: MBLK			Units: µg/L	Prep Date: 2/6/2017 RunNo: 34292
Client ID: MBLKW	Batch ID: 16138				Analysis Date: 2/6/2017 SeqNo: 653845
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Copper	ND	0.500			
Sample ID LCS-16138	SampType: LCS			Units: µg/L	Prep Date: 2/6/2017 RunNo: 34292
Client ID: LCSW	Batch ID: 16138				Analysis Date: 2/6/2017 SeqNo: 653846
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Copper	98.7	0.500	100.0	0	98.7 85 115
Sample ID 1701297-003ADUP	SampType: DUP			Units: µg/L	Prep Date: 2/6/2017 RunNo: 34292
Client ID: BATCH	Batch ID: 16138				Analysis Date: 2/6/2017 SeqNo: 653848
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Copper	17.3	0.500			17.01 1.58 30
Sample ID 1701297-003AMS	SampType: MS			Units: µg/L	Prep Date: 2/6/2017 RunNo: 34292
Client ID: BATCH	Batch ID: 16138				Analysis Date: 2/6/2017 SeqNo: 653849
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Copper	222	0.500	200.0	17.01	102 70 130
Sample ID 1701297-003AMSD	SampType: MSD			Units: µg/L	Prep Date: 2/6/2017 RunNo: 34292
Client ID: BATCH	Batch ID: 16138				Analysis Date: 2/6/2017 SeqNo: 653850
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Copper	204	0.500	200.0	17.01	93.3 70 130 222.0 8.60 30

Page 8 of 11 Original





Work Order: 1701342

QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

	SD - Southgate Elem	entary Fo	oll		Drinking Water Met	tals by EPA Method 200.
Sample ID MB-16089	SampType: MBLK			Units: µg/L	Prep Date: 1/31/2017	RunNo: 34194
Client ID: MBLKW	Batch ID: 16089				Analysis Date: 1/31/2017	SeqNo: 651595
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Copper	ND	0.500				
Sample ID LCS-16089	SampType: LCS			Units: µg/L	Prep Date: 1/31/2017	RunNo: 34194
Client ID: LCSW	Batch ID: 16089				Analysis Date: 1/31/2017	SeqNo: 651596
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Copper	112	0.500	100.0	0	112 85 115	
Sample ID 1701340-033ADUP	SampType: DUP			Units: µg/L	Prep Date: 1/31/2017	RunNo: 34194
Client ID: BATCH	Batch ID: 16089				Analysis Date: 1/31/2017	SeqNo: 651598
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Copper	1,310	0.500			1,344	2.78 30
Sample ID 1701340-033AMS	SampType: MS			Units: µg/L	Prep Date: 1/31/2017	RunNo: 34194
Client ID: BATCH	Batch ID: 16089				Analysis Date: 1/31/2017	SeqNo: 651599
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Copper	1,570	0.500	200.0	1,344	111 70 130	
Sample ID 1701340-033AMSD	SampType: MSD			Units: µg/L	Prep Date: 1/31/2017	RunNo: 34194
Client ID: BATCH	Batch ID: 16089				Analysis Date: 1/31/2017	SeqNo: 651600
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Copper	1,530	0.500	200.0	1,344	93.3 70 130 1,566	2.26 30

Page 9 of 11 Original



Sample Log-In Check List

С	lient Name:	FE	Work Order Numb	er: 1701342	
L	ogged by:	Clare Griggs	Date Received:	1/30/2017	9:44:00 AM
<u>Cha</u>	in of Cust	<u>ody</u>			
1.	Is Chain of C	sustody complete?	Yes 🗸	No 🗌	Not Present
2.	How was the	sample delivered?	Client		
Log	ı İn				
_	Coolers are p	present?	Yes 🗸	No 🗌	NA \square
4.	Shipping con	tainer/cooler in good condition?	Yes 🗸	No 🗌	
5.	Custody Seal (Refer to com	Is present on shipping container/cooler? nments for Custody Seals not intact)	Yes	No 🗌	Not Required 🗹
6.		npt made to cool the samples?	Yes 🗸	No 🗌	NA \square
7.	Were all item	as 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 sar	mple volume for indicated test(s)?	Yes 🗸	No 🗌	
10.	Are samples	properly preserved?	Yes 🗹	No 🗌	
11.	Was preserva	ative added to bottles?	Yes	No 🗸	NA 🗌
12.	Is there head	Ispace in the VOA vials?	Yes	No 🗌	NA 🗹
13.	Did all sampl	es containers arrive in good condition(unbroken)?	Yes 🗸	No 🗌	
14.	Does paperw	ork match bottle labels?	Yes 🗸	No 🗌	
15.	Are matrices	correctly identified on Chain of Custody?	Yes 🗸	No 🗆	
16.	Is it clear wha	at analyses were requested?	Yes 🗸	No 🗌	
17.	Were all hold	ling times able to be met?	Yes 🗸	No 🗌	
<u>Spe</u>	ecial Handl	ing (if applicable)			
18.	Was client no	otified of all discrepancies with this order?	Yes	No 🗌	NA 🗹
	Person	Notified: Dat	е		
	By Who	om: Via	: _ eMail _ Pho	one Fax	In Person
	Regardi	ing:			
	_	nstructions:			
19	Additional rer	marks:			
		imples were in a cooler that was not delivered on-ti	me. Remaining sampl	es were receiv	ved on 2/3/17.

Item Information

	Item #	Temp ⁰C
Cooler		8.5
Sample		8.8

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

3600 Fremont Ave N		
ont Ave N.	3	
Tel: 206-352-3790	Analy	
352-3790	iteal	5

Chain of Custody Record and Laboratory Services Agreement

Date:

1/28/2017

Laboratory Project No (internal):

9

24-2m-1-11861396 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 Sample Disposal: ***Anions (Circle): Nitrate **Metals Analysis (Circle): MTCA-5 *Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, Relinquished greement to each of the terms on the front and backside of this Agreement. 30 Sample Name Client: City, State, Zip: Telephone: Address: Seattle, WA 98103 mana G 7417-12 1/82 2817-15-02-85 12812-P-CDF-18 Return to Client 509.574.0839 Yakima, WA 98901 406 North Second Street **Fulcrum Environmental Consulting** 1-65-35 Nitrite Fax: 206-352-7178 17136/86 Date/Time RCRA-8 Sample Date 1/28/2017 Chloride **Priority Pollutants** assessed if samples are retained after 30 days 0900 Disposal by Lab (Samples will be held for 30 days unless otherwise noted. A fee may be Sample Time Sulfate Fax: 509.545.8453 (Matrix)* Sample DW Bromide TAL Individual: Ag Al O-Phosphate As B Ba Be Fluoride W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water PM Email: Report To (PM): Location: Project No: Project Name: Ca Cd Co Cd Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl Nitrate+Nitrite 88888 Ryan Mathews rmathews@efulcrum.net; cc: aenbysk@efulcrum.net Southgate Elementary School, Kennewick, WA Kennewick SD - Southgate Elementary Follow-Up Samplin on the following business day. received after 4:00pm will begin Turn-around times for samples Collected by: Logs Cope 7 TAT → SameDay^ NextDay^ 2 Day 3 Day STD Special Remarks: all thos preserved _ Page 11 of 11



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: Kennewick SD Drinking Water - Southgate Elementary

Work Order Number: 1703023

March 10, 2017

Attention Ryan Mathews:

Fremont Analytical, Inc. received 11 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

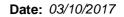
All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward Project Manager CC:

Amanda Enbysk





CLIENT: Fulcrum Environmental Work Order Sample Summary

Project: Kennewick SD Drinking Water - Southgate

Work Order: 1703023

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1703023-001	SGE3217-P-CDF-15	03/02/2017 7:00 AM	03/03/2017 9:30 AM
1703023-002	SGE3217-S-CDF-15	03/02/2017 7:00 AM	03/03/2017 9:30 AM
1703023-003	SGE3217-T-CDF-15	03/02/2017 7:00 AM	03/03/2017 9:30 AM
1703023-004	SGE3217-P-CDF-32	03/02/2017 7:00 AM	03/03/2017 9:30 AM
1703023-005	SGE3217-S-CDF-32	03/02/2017 7:00 AM	03/03/2017 9:30 AM
1703023-006	SGE3217-T-CDF-32	03/02/2017 7:00 AM	03/03/2017 9:30 AM
1703023-007	SGE3217-P-CF-35	03/02/2017 7:00 AM	03/03/2017 9:30 AM
1703023-008	SGE3217-S-CF-35	03/02/2017 7:00 AM	03/03/2017 9:30 AM
1703023-009	SGE3217-T-CF-35	03/02/2017 7:00 AM	03/03/2017 9:30 AM
1703023-010	SGE3217-P-WC-46	03/02/2017 7:00 AM	03/03/2017 9:30 AM
1703023-011	SGE3217-P-WC-47	03/02/2017 7:00 AM	03/03/2017 9:30 AM



Case Narrative

WO#: **1703023**Date: **3/10/2017**

CLIENT: Fulcrum Environmental

Project: Kennewick SD Drinking Water - Southgate 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:

1703023-001A 209595: Prep Comments for EPA200.8, Sample 1703023-001A: Turbidity: 0.00 NTU 1703023-004A 209596: Prep Comments for EPA200.8, Sample 1703023-004A: Turbidity: 0.00 NTU 1703023-007A 209597: Prep Comments for EPA200.8, Sample 1703023-007A: Turbidity: 0.00 NTU 1703023-010A 209598: Prep Comments for EPA200.8, Sample 1703023-010A: Turbidity: 0.00 NTU 1703023-011A 209599: Prep Comments for EPA200.8, Sample 1703023-011A: Turbidity: 0.00 NTU



Qualifiers & Acronyms

WO#: **1703023**

Date Reported: 3/10/2017

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: 1703023

Date Reported: 3/10/2017

CLIENT: Fulcrum Environmental

Project: Kennewick SD Drinking Water - Southgate Elementary

Lab ID: 1703023-001 Collection Date: 3/2/2017 7:00:00 AM

Client Sample ID: SGE3217-P-CDF-15 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>

Batch ID: 16420 Analyst: TN

Copper 963 0.500 µg/L 1 3/10/2017 11:24:01 AM

Lab ID: 1703023-004 **Collection Date:** 3/2/2017 7:00:00 AM

Client Sample ID: SGE3217-P-CDF-32 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>
Batch ID: 16420 Analyst: TN

Copper 918 0.500 μg/L 1 3/10/2017 11:29:32 AM

Lab ID: 1703023-007 **Collection Date:** 3/2/2017 7:00:00 AM

Client Sample ID: SGE3217-P-CF-35 Matrix: Drinking Water

Analyses Result RL Qual Units DF Date Analyzed

<u>Drinking Water Metals by EPA Method 200.8</u>

Batch ID: 16420

Analyst: TN

Copper 1,070 0.500 µg/L 1 3/10/2017 11:35:03 AM



Work Order: 1703023 Date Reported:

3/10/2017

CLIENT: Fulcrum Environmental

Project: Kennewick SD Drinking Water - Southgate Elementary

Lab ID: 1703023-010 Collection Date: 3/2/2017 7:00:00 AM

Client Sample ID: SGE3217-P-WC-46 Matrix: Drinking Water

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

Batch ID: 16420 Analyst: TN **Drinking Water Metals by EPA Method 200.8**

Copper ND 0.500 μg/L 3/10/2017 12:50:16 PM

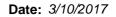
Collection Date: 3/2/2017 7:00:00 AM Lab ID: 1703023-011

Client Sample ID: SGE3217-P-WC-47 Matrix: Drinking Water

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

Batch ID: 16420 **Drinking Water Metals by EPA Method 200.8** Analyst: TN

Copper 1,190 0.500 μg/L 3/10/2017 12:54:18 PM





Work Order: 1703023

QC SUMMARY REPORT

CLIENT: Fulcrum Environmental

Project:	Kennewick	SD Drinking Water -	Southgate	:			D	rinking	Water Me	tals by EF	PA Metho	d 200.8
Sample ID I	MB-16420	SampType: MBLK			Units: µg/L		Prep Date:	3/6/2017	,	RunNo: 34	873	
Client ID: I	MBLKW	Batch ID: 16420					Analysis Date:	3/10/201	17	SeqNo: 66	5786	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		ND	0.500									
Sample ID I	LCS-16420	SampType: LCS			Units: µg/L		Prep Date:	3/6/2017	7	RunNo: 34	873	
Client ID: I	LCSW	Batch ID: 16420					Analysis Date:	3/10/201	17	SeqNo: 66	5787	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		89.3	0.500	100.0	0	89.3	85	115				
Sample ID '	1703021-001ADUP	SampType: DUP			Units: µg/L		Prep Date:	3/6/2017	,	RunNo: 34	873	
Client ID:	ВАТСН	Batch ID: 16420					Analysis Date:	3/10/201	17	SeqNo: 66	5789	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		16.6	0.500						18.64	11.8	30	
Sample ID '	1703021-001AMS	SampType: MS			Units: µg/L		Prep Date:	3/6/2017	,	RunNo: 34	873	
Client ID:	ВАТСН	Batch ID: 16420					Analysis Date:	3/10/201	7	SeqNo: 66	5790	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		200	0.500	200.0	18.64	90.5	70	130				
Sample ID '	1703021-001AMSD	SampType: MSD			Units: µg/L		Prep Date:	3/6/2017	7	RunNo: 34	873	
Client ID:	ВАТСН	Batch ID: 16420					Analysis Date:	3/10/201	17	SeqNo: 66	5791	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		202	0.500	200.0	18.64	91.8	70	130	199.6	1.32	30	

Page 7 of 10 Original



Sample Log-In Check List

CI	ient Name:	FE		Work Or	der Numb	per: 1703023		
Lo	gged by:	Erica Silva		Date Red	ceived:	3/3/2017	9:30:00 AM	
<u>Cha</u>	in of Custo	ody						
1.	Is Chain of C	ustody complete?		Yes	✓	No 🗌	Not Present	
2.	How was the	sample delivered?		<u>UPS</u>				
Log	In							
_	Coolers are p	resent?		Yes	✓	No 🗌	NA 🗆	
0.	·							
4.	Shipping con	ainer/cooler in good condition?		Yes	✓	No \square		
5.		s present on shipping container/cool ments for Custody Seals not intact)	er?	Yes		No 🗸	Not Required	
6.	Was an atten	npt made to cool the samples?		Yes	✓	No 🗌	NA 🗆	
7.	Were all item	s received at a temperature of >0°C	to 10.0°C*	Yes	✓	No 🗆	NA \square	
8.	Sample(s) in	proper container(s)?		Yes	✓	No 🗌		
9.	Sufficient sar	nple volume for indicated test(s)?		Yes	✓	No \square		
10.	Are samples	properly preserved?		Yes	✓	No \square		
11.	Was preserva	ative added to bottles?		Yes	✓	No \square	NA \square	
				.,		\Box	HNO3	
		space in the VOA vials?	- (l	Yes		No □	NA 🗸	
		es containers arrive in good condition	n(unbroken)?		✓	No □		
14.	Does paperw	ork match bottle labels?		Yes	•	No L		
15.	Are matrices	correctly identified on Chain of Custo	ody?	Yes	✓	No \square		
16.	Is it clear wha	at analyses were requested?		Yes	✓	No \square		
17.	Were all hold	ing times able to be met?		Yes	✓	No \square		
<u>Spe</u>	<u>cial Handlı</u>	ing (if applicable)						
18.	Was client no	tified of all discrepancies with this or	rder?	Yes		No 🗌	NA 🗸	
	Person	Notified:	Date					
	By Who	m:	Via:	eMai	I 🗌 Ph	one 🗌 Fax	☐ In Person	
	Regardi	ng:						
	Client In	structions:						
19.	Additional rer	narks:						_1
	HNO3 a	dded to 002A, 003A, 005A, 006A, 00	08A, 009A					
Item I	nformation							

Item #	Temp ºC
Cooler	2.7
Sample	1.3

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

3600 Fremont Ave N.		-
ont Ave N.	Fre	
Tel: 206-35	Analya	
206-352-3790		

Chain of Custody Record and Laboratory Services Agreement

				レンペン
	Analytical	Date:	3/2/201/	Laboratory Project No (internal): 103015 10
3600 Fremont Ave N. Seattle, WA 98103	Tel: 206-352-3790 Fax: 206-352-7178		Page:	e 9 of
		Project Name: Kennewick SE	Kennewick SD Drinking Water - Southgate Elementary	
Client:	Fulcrum Environmental Consulting	Project No: 162017.02		Collected by: Amanda Enbysk
Address:	406 North Second Street	Location: Southgate Eleme	ntary, Kennewick, W	
City, State, Zip:	Yakima, WA, 98901	(PM):	18	\$10 \$10 max2
Telephone:	509.574.0839 Fax: 509.575.8453	PM Email: rmathews@	rmathews@efulcrum.net; cc: aenbysk@efulcrum.net	um.net
*Matrix Codes: A = Air, AQ	AQ = Aqueous, $B = Bulk$, $O = Other$, $P = Product$, $S = Soil$, $SD = Sediment$, $SL = Soil$	SL = Solid, W = Water, DW = Drinking Water,	GW = Ground Water, SW = Storm W	SW = Storm Water, WW = Waste Water
	1	Re Official Cox	30 30 43	S. A. LEWIN
Sample Name	Sample Sample Type Date Time (Matrix)*	4 60	11075 (C)**	Comments
21-94-0-C12839SI	32-11 0000 pw	X	2	
2 SGE 3217-S-COP-15	CDP -15		720	4-10
3 SGE3217-T-COF-15	COF -15			~
4 SGE 3217 - P-CDF-32	CDF-32	X	×	
5 SGE3217 -S-	-S-CDF-32		1	4612
6 SCE3217 -T-COP -32	ODF -32			
7 SGE3217-P-CF-35	CF-35	X	X	
8 SLE 3217-5-CF	CF-35		-	(Ho (d)
, SGF3217-T-42-35	CP -35			
1036年3217-7-65-46	- WC-46 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	X	×	
**Metals Analysis (Circle): MTCA-5	: MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al	As B Ba Be Ca Cd Co Cr 📵 Fe Hg K	Hg K Mg Mn Mo Na Ni Pb Sb	Se Sr Sn Ti Tl U V Zn
***Anions (Circle): Nitrate	Nitrite Chloride		Turn-around times for samples Spe	Special Remarks:
Sample Disposal:	 Return to Client			please perser all unpr. semples
I represent that I am au agreement to each of the	I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have agreement to each of the terms on the front and backside of this Agreement.	alf of the Client named above, that I	verified Client's	
x John Ba	Date/Time Received	3 3 70 1	7 6930	TAT: ASA
elin	Date/Time Received	Date/Time	TAT	「 → SameDay^ NextDay^ 2 Day 3 Day STD
×	×		^Ple	^Please coordinate with the lab in advance

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alytica	91
cal.	

Chain of Custody Record and Laboratory Services Agreement

	Analytical		Date: 3/2/2017	Laboratory Project No (internal):	1/000025
3600 Fremont Ave N.	Tel: 206-352-3790			Page: 2 of: 2	
Seattle, WA 98103	Fax: 206-352-7178				
		Project Name:	Kennewick SD Drinking Water - Southgate Elementary	outhgate Elementary	
Client:	Fulcrum Environmental Consulting	Project No:	162017.02	Collected by: Amanda Enbysk	
Address:	406 North Second Street	Location:	Southgate Elementary, Kennewick, WA	wick, WA	
City, State, Zip:	Yakima, WA, 98901	Report To (PM):	Ryan Mathews		A Company of the Comp
Telephone:	509.574.0839 Fax: 509.575.8453	PM Email:	rmathews@efulcrum.net; cc: aenbysk@efulcrum.net	aenbysk@efulcrum.net	8

1 elephone: 509.574.0839	SS Fax:	rax: 509.575.8453	PM Email:r	rmathews@efulcrum.net; cc: aenbysk@efulcrum.net	@efulcrum.net
Sample Name Sample Name Sample Name Sample Sample Time Sample Name Bulk, O = Other, P = Pro Sample Sample Sample Time	Sample Type (Matrix)* Sediment, SL = Sediment, SL	SL = Solid, W = Water, DW = Drinking Water, W = Water, DW = Drinking Water, St. = Solid, W = Water, DW = Drinkin	= Drinking Water, GW = Ground Water, SW = S The Color of	Storm Water, WW = Waste Water Comments	
1 SGE3217-P-WC-47	3-2-17/1400				
2					
3					
4					
5					
6	The Manager of the Same				
7					
8			9		
9					
10					
**Metals Analysis (Circle): MTCA-5	RCRA-8 Priority Pollutants	ants TAL Individual: Ag Al	Al As B Ba Be Ca Cd Co Cr	r Cu Fe Hg K Mg Mn Mo Na Ni Pb	Pb Sb Se Sr Sn Ti Tl U V Zn
***Anions (Circle): Nitrate Nitrite	Chloride Sulfate	e Bromide O-Phosphate	ate Fluoride Nitrate+Nitrite		Special Remarks:
Sample Disposal: Return to Client	ent Disposal by assessed if s	Disposal by Lab (Samples will be held for 30 days.) assessed if samples are retained after 30 days.)	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.)	on the following business day.	2
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.	er into this Agreement ont and backside of th	with Fremont Analytical on is Agreement.	behalf of the Client named abo	ve, that I have verified Client's	See 8 +
12/17	Date/Time	Received	Date	5)3/2017 0950	
Relinquished Dat ×	Date/Time	Received ×	Date	Date/Time	TAT → SameDay [^] NextDay [^] 2 Day 3 Day STD
					APlease coordinate with the lab in advance