

November 3, 2017

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

**RE: Winter 2016 Drinking Water Sampling Results
Tri-Tech Skills Center, 5929 West Metaline Street, Kennewick, Washington**

Dear Keith:

On Wednesday, December 21, 2016, Fulcrum Environmental Consulting, Inc. (Fulcrum) collected 36 drinking water samples for lead and copper analysis from Tri-Tech Skills Center (School) located at 5929 Metaline Avenue in Kennewick, Washington. Initial sampling identified six fixture locations with lead concentrations above guidance levels and one fixture location with a copper concentration above guidance levels. Fulcrum returned to the School on January 28 and February 25, 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 six samples with lead concentrations above the Environmental Protection Agency (EPA) action level of 15 micrograms per liter ($\mu\text{g/L}$), and one sample with copper concentrations above the EPA action level of 1,300 $\mu\text{g/L}$. Upon receipt of results, the District removed the identified fixtures from service pending remediation and further testing.

The fixtures identified with elevated lead concentrations were replaced and preconditioned by running cold water continuously through the fixture for 24 hours, as specified in WAC 246-366A-130. Following replacement and preconditioning, Fulcrum returned to the School on January 28, and February 25, 2017

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

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

Copper is not a significant component in fixtures, but is the primary material in the plumbing system. One fixture, located in Welding Classroom 310, was identified with an elevated copper concentration. To remediate elevated copper, Fulcrum recommended and the District elected to permanently remove the fixture from service. Following sampling and review of laboratory results, Fulcrum recommended, and District elected to, return all fixtures reporting below action levels 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). See Figure 1 in Attachment A for fixture locations and laboratory results.

Sampling Methodology

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

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

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

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

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

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

Sampling Activities

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

Initial Sampling

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

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

Fixture Replacement and Flushing

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

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

All fixtures with elevated copper were flushed aggressively by running water through the fixture at high flow with the aerator removed for approximately 30 minutes to clear the plumbing of any debris potentially causing elevated copper concentrations. Following an aggressive flush, fixtures were resampled to evaluate the effectiveness at reducing copper concentrations. The District elected to install filters, install signage indicating the fixtures should be used only for handwashing, or permanently removed 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 locations and plumbing system in question. First draw samples were collected into 250 mL polyethylene bottles preserved with nitric acid. The second draw water volume consists of water collected into a 250 mL

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

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

Analytical Results

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

Initial Sampling

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

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

Remedial Sampling

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

Discussion

Initial Sampling

Analytical results identified six samples with lead concentrations above the EPA action level of 15 µg/L and one sample with a copper concentration above the EPA action level of 1,300 µg/L.

Remedial Sampling

Immediately following receipt of initial sampling results, the District removed the identified fixtures from service pending remediation and further testing. To remediate elevated lead concentrations, the District replaced the identified fixtures. No other fixtures of like style were replaced. Fulcrum returned on January

28, and February 25, 2017 following fixture replacement and preconditioning to collect follow-up samples from the initially identified fixtures. No other fixtures of like style were replaced. See Attachment F for a photograph layout with the identified fixture style.

To remediate elevated copper concentrations, Fulcrum recommended and the District elected to permanently remove the fixture, a water cooler fountain located in Welding Classroom 310, from service.

Analytical results from remedial sampling indicated remediation was successful at reducing lead and copper concentrations below the action level for all but one of the fixtures. Fulcrum recommended, and the District elected, to permanently remove the remaining fixture, identified as the water cooler fountain in Welding Classroom 310, from service.

Recommendations

Six initial samples contained lead above the EPA action level of 15 µg/L and one initial sample contained copper above the EPA action level of 1,300 µg/L. The District replaced the identified fixtures with elevated lead and preconditioned the fixtures for 24 hours as specified in WAC 246-366A-130. Fulcrum recommended, and the District elected, to permanently remove the fixture identified with elevated copper from service. Following remedial sampling and review of laboratory results, Fulcrum recommended, and the District elected, to return all fixtures reporting below action levels to service. Fulcrum recommends the District replace all fixtures of like style to those initially identified with elevated lead. See Attachment F for a photograph layout of the identified fixture styles.

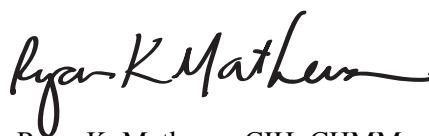
As all samples now report concentrations below lead and copper action levels, Fulcrum does not recommend any additional sampling at this time. However, consistent with industry practice and the intent of WAC 246-366A, Fulcrum recommends that the District complete re-sampling of the building within the next five years (before December 2021).

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

Sincerely,



Amanda Enbysk, GIT
Environmental Geologist

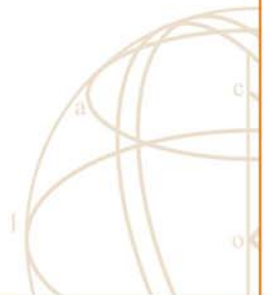


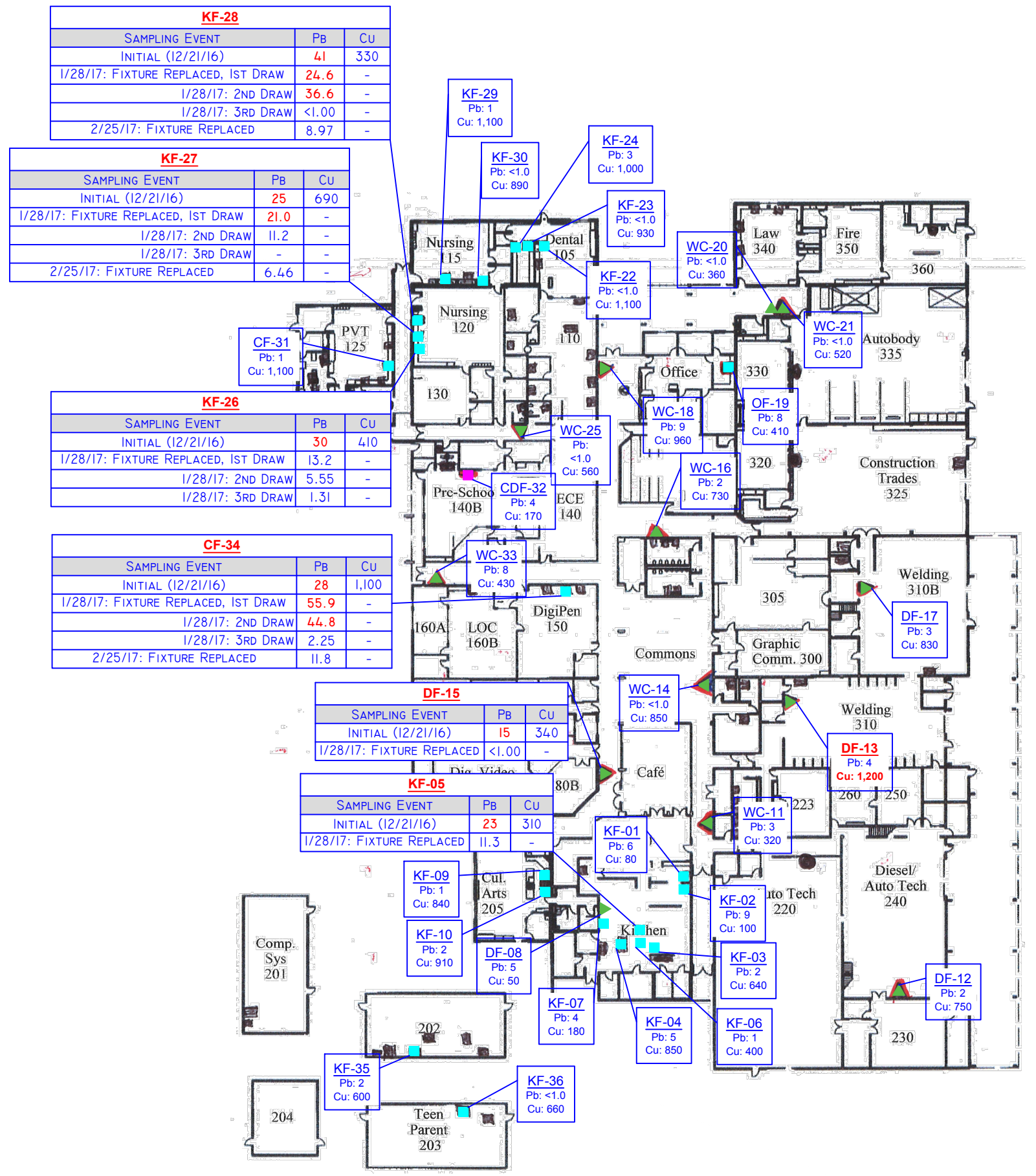
Ryan K. Mathews, CIH, CHMM
Principal



ATTACHMENT A

Figure 1: Sample Location Map





KF-28

SAMPLING EVENT	Pb	Cu
INITIAL (12/21/16)	41	330
1/28/17: FIXTURE REPLACED, 1ST DRAW	24.6	-
1/28/17: 2ND DRAW	36.6	-
1/28/17: 3RD DRAW	<1.00	-
2/25/17: FIXTURE REPLACED	8.97	-

KF-27

SAMPLING EVENT	Pb	Cu
INITIAL (12/21/16)	25	690
1/28/17: FIXTURE REPLACED, 1ST DRAW	21.0	-
1/28/17: 2ND DRAW	11.2	-
1/28/17: 3RD DRAW	-	-
2/25/17: FIXTURE REPLACED	6.46	-

KF-26

SAMPLING EVENT	Pb	Cu
INITIAL (12/21/16)	30	410
1/28/17: FIXTURE REPLACED, 1ST DRAW	13.2	-
1/28/17: 2ND DRAW	5.55	-
1/28/17: 3RD DRAW	1.31	-

CF-34

SAMPLING EVENT	Pb	Cu
INITIAL (12/21/16)	28	1,100
1/28/17: FIXTURE REPLACED, 1ST DRAW	55.9	-
1/28/17: 2ND DRAW	44.8	-
1/28/17: 3RD DRAW	2.25	-
2/25/17: FIXTURE REPLACED	11.8	-

DF-15

SAMPLING EVENT	Pb	Cu
INITIAL (12/21/16)	15	340
1/28/17: FIXTURE REPLACED	<1.00	-

KF-05

SAMPLING EVENT	Pb	Cu
INITIAL (12/21/16)	23	310
1/28/17: FIXTURE REPLACED	11.3	-

LEGEND

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

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

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

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

DRAWING PROVIDED BY KENNEWICK SCHOOL DISTRICT

ATTACHMENT B

Site-Specific Sampling and Analysis Plan



Site-Specific Sampling and Analysis Plan

Kennewick School District – Winter 2016 Drinking Water Sampling

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

Campus/Building: Tri-Tech Skills Center Address: 5929 West Metaline Street, Kennewick, WA

Elementary Middle School High School Administration

Date of Construction: _____ Modernizations: _____

Fixture Type	Locations	Fixture Styles¹	Samples	Ratio
Drinking fountain/water cooler (DF/WC)	13	6	13	100%
Kitchen Fixture (KF)	9	5	9	100%
Classroom faucet, including faucets in Food Labs and Life Sciences Classrooms (CF)	27	9	12	44%
Classroom drinking fountain at sink (CDF)	2	2	1	50%
Nurse's Office/Health Room (NF)	N/A	-	N/A	-
Teacher's Lounges/Work Rooms (OF)	1	1	1	100%
TOTALS	52		36	69%

¹ Fixture styles are approximate based on sampler's observations

Lead Sampler: Amanda Enbysk Date: 12/21/2016

Sample Prefix: TTS – 122116– P (first-draw) – _____ – 01-38
School Code Date Sample Type Fixture Type Sample Number

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

Comments:

-Two fixtures in P-202 and one fixture in P-203 classified as "kitchen fixtures" as these are childcare facilities

ATTACHMENT C

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

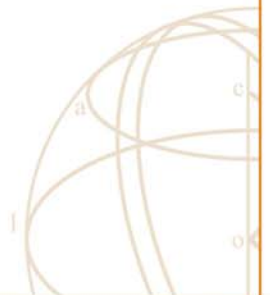


Table 1: Initial Sampling Analytical Results

Sample Identification and Location	Fixture Type	Lead Results (µg/L)	Copper Results (µg/L)
TTS122116-P-KF-01: Kitchen, E. wall, N. fixture	Kitchen Faucet	6	80
TTS122116-P-KF-02: Kitchen, E. wall, S. fixture	Kitchen Faucet	9	100
TTS122116-P-KF-03: Kitchen, S. island, in wood counter	Kitchen Faucet	2	640
TTS122116-P-KF-04: Kitchen, W. island, food prep	Kitchen Faucet	5	850
TTS122116-P-KF-05: Kitchen, N. center island, S. fixture	Kitchen Faucet	23	310
TTS122116-P-KF-06: Kitchen, N. center island, N. fixture	Kitchen Faucet	1	400
TTS122116-P-KF-07: Kitchen, W. wall	Kitchen Faucet	4	180
TTS122116-P-DF-08: Kitchen, W. wall	Drinking Fountain	5	50
TTS122116-P-KF-09: Classroom 205, N. fixture	Kitchen Faucet	1	840
TTS122116-P-KF-10: Classroom 205, S. fixture	Kitchen Faucet	2	910
TTS122116-P-WC-11: S. hallway, E. of café	Water Cooler Fountain	3	320
TTS122116-P-DF-12: Diesel, S. wall	Drinking Fountain	2	750
TTS122116-P-DF-13: Room 310	Drinking Fountain	4	1,200
TTS122116-P-WC-14: Commons, E. wall	Water Cooler Fountain	<1.0	850
TTS122116-P-DF-15: Commons, W. wall	Water Cooler Fountain	15	340
TTS122116-P-WC-16: Hallway, N. of Commons	Water Cooler Fountain	2	730
TTS122116-P-DF-17: Room 310B	Drinking Fountain	3	830
TTS122116-P-WC-18: Entrance, outside office	Water Cooler Fountain	9	960
TTS122116-P-OF-19: Staff kitchen	Office Faucet	8	410
TTS122116-P-WC-20: Entrance, outside Auto Body, right fixture	Water Cooler Fountain	<1.0	360
TTS122116-P-WC-21: Entrance, outside Auto Body, left fixture	Water Cooler Fountain	<1.0	520
TTS122116-P-KF-22: Dental, center island, E. fixture	Kitchen Faucet	<1.0	1,100
TTS122116-P-KF-23: Dental, center island, W. fixture	Kitchen Faucet	<1.0	930
TTS122116-P-KF-24: Dental, W. wall	Kitchen Faucet	3	1,000
TTS122116-P-WC-25: N.W. hallway, outside room 110	Water Cooler Fountain	<1.0	560
TTS122116-P-KF-26: Nursing, S. fixture	Nurse' Faucet	30	410
TTS122116-P-KF-27: Nursing, middle fixture	Kitchen Faucet	25	690
TTS122116-P-KF-28: Nursing, N. fixture	Kitchen Faucet	41	330
TTS122116-P-KF-29: Nursing, W. fixture	Kitchen Faucet	1	1,100
TTS122116-P-KF-30: Nursing, E. fixture	Kitchen Faucet	<1.0	890
TTS122116-P-CF-31: Room 125, E. wall, S. fixture	Classroom Faucet	1	1,100
TTS122116-P-CDF-32: Room 140B	Classroom Drinking Fountain	4	170
TTS122116-P-WC-33: Outside room 160	Water Cooler Fountain	8	430
TTS122116-P-CF-34: Room 150, middle fixture	Classroom Faucet	28	1,100
TTS122116-P-KF-35: P-202 center bottle fixture	Kitchen Faucet	2	600
TTS122116-P-KF-36: P-203	Kitchen Faucet	<1.0	660

Sample Identification and Location	Fixture Type	Lead Results (µg/L)	Copper Results (µg/L)
<i>TTS122116-P-CF-37: Laboratory Blank</i>	<i>Distilled Water Blank</i>	<1.0	<10
<i>TTS122116-P-DF-38: Laboratory Spike</i>	<i>Lead and Copper Spike</i>	14	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 in **bold** indicate concentrations above the action levels of 15 µg/L for lead and 1,300 µg/L for copper
 Results in *italics* are quality assurance spike and blank samples.

Table 2: pH and Temperature Data Summary

Sample Number	Fixture Type	pH Flush	pH Sample	Temperature (°C) Flush	Temperature (°C) Sample
TTS122116-P-KF-04: Kitchen, W. island, food prep	Kitchen Faucet	6.64	7.75	16.2	16.2
TTS122116-P-DF-08: Kitchen, W. wall	Drinking Fountain	6.64	7.48	17.1	18.8
TTS122116-P-DF-12: Diesel, S. wall	Drinking Fountain	6.79	7.67	20.5	20.3
TTS122116-P-WC-16: Hallway, N. of Commons	Water Cooler Fountain	6.86	7.86	14.7	11.0
TTS122116-P-WC-20: Entrance, outside auto body, E. fixture	Water Cooler Fountain	7.31	7.86	13.8	11.8
TTS122116-P-KF-24: Dental, W. wall	Kitchen Faucet	7.33	7.73	16.0	18.9
TTS122116-P-KF-28: Nursing, N. fixture	Kitchen Faucet	7.26	7.58	19.1	21.1
TTS122116-P-CDF-32: Room 140B	Classroom Drinking Fountain	7.36	7.65	20.2	20.4
TTS122116-P-KF-36: Portable P-203	Kitchen Faucet	7.60	7.79	14.3	18.5

Table 3: Remedial Sampling Analytical Results Summary

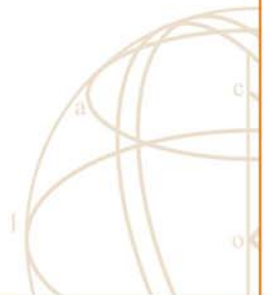
Sampling Event	Sample Identification							
	KF-05	DF-15	KF-26	KF-27	KF-28	CF-34	Laboratory Blank (-37)	Laboratory Spike (-38)
Initial (12/21/16)	23	15	30	25	41	28	<1	14
Fixture Replacement, First Draw (1/28/17)	11.3	<1.0	13.2	21	24.6	55.9	<1.0	16.2
Second Draw (1/28/17)	-	-	5.55	11.2	36.6	44.8	-	-
Third Draw (1/28/17)	-	-	1.31	-	<1.0	2.25	-	-
Fixture Replacement (2/25/17)	-	-	-	6.46	8.97	11.8	<1.0	12.6
EPA Action Level	15	15	15	15	15	15	15	15

- 1 Results reported in micrograms per liter (µg/L) or parts per billion (ppb).
- 2 Action levels based on the U.S. EPA’s Lead and Copper Rule.
 Results indicated in **bold** indicate concentrations above the action levels of 15 µg/L for lead
 Results indicated in *italics* are quality assurance spike and blank samples.



ATTACHMENT D

Initial Analytical Results





RJ LeeGroup, Inc. | Columbia Basin Analytical Laboratories

2710 North 20th Avenue, Pasco WA 99301

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

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

Subject: Chemical Analysis Report

Columbia Basin Analytical Laboratories received 38 sample(s) on 12/21/16 for analysis. These sample(s) have been assigned a login order number of W612108. Enclosed is the final report that consists of a summary report of the sample(s), and a copy of the chain of custody.

General Lab Comments

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

All samples were diluted 1:10.

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

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

A handwritten signature in black ink, appearing to read "Fernanda Pincheira". The signature is written in a cursive style with a large initial "F" and "P".

01/18/17

Project Coordinator II, M. Fernanda Pincheira

Date

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



Laboratory Report

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

RJ Lee Group No.: W612108
COC No.: Kennewick
Samples Received: 12/21/16
Analysis/Prep Date: 01/17/17
Report Date: 01/18/17

Client Project:

Fulcrum Kennewick

Sample Name: TTS122116-P-KF-01 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-01 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.08	0.01	
Lead	EPA 200.8	0.006	0.001	

Sample Name: TTS122116-P-KF-02 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-02 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.10	0.01	
Lead	EPA 200.8	0.009	0.001	

Sample Name: TTS122116-P-KF-03 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-03 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.64	0.01	
Lead	EPA 200.8	0.002	0.001	

Sample Name: TTS122116-P-KF-04 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-04 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.85	0.01	
Lead	EPA 200.8	0.005	0.001	

Sample Name: TTS122116-P-KF-05 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-05 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.31	0.01	
Lead	EPA 200.8	0.023	0.001	

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

WWW.RJLEEGROUP.COM

Report Template: GenMetalReportFull_v12.rpt

Approved: 01/18/17 8:26
Report Time Stamp: 01/18/17 11:54



Sample Name: TTS122116-P-KF-06 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-06 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.40	0.01	
Lead	EPA 200.8	0.001	0.001	

Sample Name: TTS122116-P-KF-07 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-07 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.18	0.01	
Lead	EPA 200.8	0.004	0.001	

Sample Name: TTS122116-P-DF-08 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-08 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.05	0.01	
Lead	EPA 200.8	0.005	0.001	

Sample Name: TTS122116-P-KF-09 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-09 **Date Analyzed:** 01/17/17

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

Sample Name: TTS122116-P-KF-10 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-10 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.91	0.01	
Lead	EPA 200.8	0.002	0.001	

Sample Name: TTS122116-P-WC-11 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-11 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.32	0.01	
Lead	EPA 200.8	0.003	0.001	



Sample Name: TTS122116-P-DF-12 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-12 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.75	0.01	
Lead	EPA 200.8	0.002	0.001	

Sample Name: TTS122116-P-DF-13 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-13 **Date Analyzed:** 01/17/17

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

Sample Name: TTS122116-P-WC-14 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-14 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.85	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: TTS122116-P-DF-15 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-15 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.34	0.01	
Lead	EPA 200.8	0.015	0.001	

Sample Name: TTS122116-P-WC-16 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-16 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.73	0.01	
Lead	EPA 200.8	0.002	0.001	

Sample Name: TTS122116-P-DF-17 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-17 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.83	0.01	
Lead	EPA 200.8	0.003	0.001	



Sample Name: TTS122116-P-WC-18 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-18 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.96	0.01	
Lead	EPA 200.8	0.009	0.001	

Sample Name: TTS122116-P-OF-19 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-19 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.41	0.01	
Lead	EPA 200.8	0.008	0.001	

Sample Name: TTS122116-P-WC-20 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-20 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.36	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: TTS122116-P-WC-21 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-21 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.52	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: TTS122116-P-KF-22 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-22 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.1	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: TTS122116-P-KF-23 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-23 **Date Analyzed:** 01/17/17

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



Sample Name: TTS122116-P-KF-24 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-24 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.0	0.1	X
Lead	EPA 200.8	0.003	0.001	

Sample Name: TTS122116-P-WC-25 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-25 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.56	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: TTS122116-P-KF-26 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-26 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.41	0.01	
Lead	EPA 200.8	0.030	0.001	

Sample Name: TTS122116-P-KF-27 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-27 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.69	0.01	
Lead	EPA 200.8	0.025	0.001	

Sample Name: TTS122116-P-KF-28 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-28 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.33	0.01	
Lead	EPA 200.8	0.041	0.001	

Sample Name: TTS122116-P-KF-29 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-29 **Date Analyzed:** 01/17/17

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



Sample Name: TTS122116-P-KF-30 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-30 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.89	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: TTS122116-P-CF-31 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-31 **Date Analyzed:** 01/17/17

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

Sample Name: TTS122116-P-CDF-32 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-32 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.17	0.01	
Lead	EPA 200.8	0.004	0.001	

Sample Name: TTS122116-P-WC-33 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-33 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.43	0.01	
Lead	EPA 200.8	0.008	0.001	

Sample Name: TTS122116-P-CF-34 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-34 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.1	0.1	X
Lead	EPA 200.8	0.028	0.001	

Sample Name: TTS122116-P-KF-35 **Matrix:** Potable Water **Date Received:** 12/21/16
RJ Lee Grp. ID: W612108-35 **Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.60	0.01	
Lead	EPA 200.8	0.002	0.001	

**Sample Name:** TTS122116-P-KF-36**Matrix:** Potable Water**Date Received:** 12/21/16**RJ Lee Grp. ID:** W612108-36**Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.66	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: TTS122116-P-CF-37**Matrix:** Potable Water**Date Received:** 12/21/16**RJ Lee Grp. ID:** W612108-37**Date Analyzed:** 01/17/17

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: TTS122116-P-DF-38**Matrix:** Potable Water**Date Received:** 12/21/16**RJ Lee Grp. ID:** W612108-38**Date Analyzed:** 01/17/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.2	0.1	X
Lead	EPA 200.8	0.014	0.001	

Report Qualifiers:*A = Target Analyte media breakthrough suspect, see analytical report**D = Analyte analyzed in a dilution**E = Report concentration was above the instrument calibration range**J = Analyte detected below quantitation limits, concentration is estimated**P = Library spectrum match, rsd >90% w RT match**Q = Result out of method specific acceptance QC criteria**S = Spike Recovery outside accepted recovery limits**Z = Not ELAP accredited analyte**ND = Not Detected**B = Analyte detected in the associated blank**d = Data that exceeds the RSD criteria set by the SOP**H = Holding times for preparation or analysis exceeded**L = Sample condition at receipt out of compliance with method defined conditions**R = RPD (relative percent difference) outside accepted recovery limits**U = Analyte analyzed for but not detected**N/A = Not Applicable*

QA Officer/Organic Analytical SME John Coddington

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.

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

WWW.RJLEEGROUP.COM

Report Template: GenMetalReportFull_v12.rpt

Approved: 01/18/17 8:26
Report Time Stamp: 01/18/17 11:54

Request for Environmental and IH Laboratory Analytical Services

W612108

ATTENTION TO:		RYAN MATHEWS		Purchase Order No.:		Client Job No.:		162017		
Lab Use Only	Project No.:	Client No.:	Logged In By:	Turnaround Request	Standard: Yes No	If 'No,' No. of Business Days:				
Report Results To	Name: Amanda Ebyusk, Ryan Mathews	Company: Fulcrum Environmental Consulting	Address: 406 North 2nd Street City, State, Zip: Yakima, WA, 98901	Drinking Water	Sample Purpose: Information X Regulatory <input type="checkbox"/> Accreditation (please list below):	DOH Source #:				
	Phone: (509) 574-0839	Fax: (509) 575-8453	Call with Verbal Results: aenbyusk@fulcrum.net, CC: rmathews@fulcrum.net	Sample Only	Multiple Sources #:	Sample Purpose: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>	Matrix:	SW=Surface Water DW=Drinking Water O=Oil X=Other	Container:	
Send Invoice To	Name: Lorrie Boutillier	Company: Fulcrum Environmental	Address: 406 North 2nd Street City, State, Zip: Yakima, WA, 98901	Chemistry Analysis Key	Preservation:	H ₂ SO ₄ 4°C HNO ₃ Other	HCl NaOH Na ₂ SO ₄	E=Extract	P=Plastic G=Glass W=Wipe A=Air (filter or tube)	
Special Instructions	Analysis Requested									
Client Sample ID	Sample Description	Sample Date	Sample Time	Wipe Area / Air Volume	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
TS12a116-P-KF-01	Kitchen, handwash inside, 12/21/16	12/21/16	17:30			UNPR	OW			17.3
TS12a116-P-KF-02	Kitchen, the southern window									17.2
TS12a116-P-KF-03	Kitchen, southern main kitchen									17.1
TS12a116-P-KF-04	Southern island kitchen, in window									16.6
TS12a116-P-KF-05	West island kitchen, hood									16.6
TS12a116-P-KF-06	Kitchen, S. center island S									16.5
TS12a116-P-KF-07	Kitchen, west wall sink									16.7
TS12a116-P-KF-08	Kitchen, west wall									16.2
TS12a116-P-KF-09	Classroom 205, N sink									16.4
TS12a116-P-KF-10	Classroom 205, S sink									15.9
Chain of Custody	Relinquished By (Signature):	Date: 12/21/16	Time: 17:30	Chain of Custody	Received By (Signature):	Date: 12/21/16	Time: 14:30			
	Relinquished By (Print Name):	Method of Shipment:			Received By (Print Name):	Relinquished To:				
	Company Name:	Method of Shipment:			Company Name:	Method of Shipment:				

Pennsylvania - HQ
350 Hochberg Road
Monroeville, PA 15146

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

724.325.1776 Phone
724.733.1799 Fax

509.545.4989 Phone
509.544.6010 Fax



Request for Environmental and IH Laboratory Analytical Services

W612108

Page 2 of 4

ATTENTION TO: RYAN MATHEWS		Purchase Order No.: 162017		Client Job No.: 162017	
Lab Use Only	Project No.: Date Logged In: Logged In By:	Client No.:	Standard: Yes No	If 'No', No. of Business Days:	Accreditation (please list below):
Name: Amanda Enbysk, Ryan Mathews Company: Fulcrum Environmental Consulting Address: 406 North 2nd Street City, State, Zip: Yakima, WA, 98901 Phone: (509) 574-0839 Fax: (509) 575-8453 Call with Verbal Results: Email Results To: aenbysk@fulcrum.net, CC: rmathews@fulcrum.net Fax Results To:		Name: Lorrie Boutilier Company: Fulcrum Environmental Address: 406 North 2nd Street City, State, Zip: Yakima, WA, 98901 Phone: (509) 574-0839 Fax: (509) 575-8453		Sample Purpose: Information X Regulatory System ID #: DOH Source #: Multiple Sources #:	
Report Results To:		Chemistry Analysis Key Unpres 4°C HNO ₃ Other H ₂ SO ₄ HCl NaOH Na ₂ SO ₄ Matrix: WM=Wastewater GW=Groundwater S=Soil/Sludge E=Extract Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)		Preservation: A B Other SW=Surface Water DW=Drinking Water O=Oil X=Other	
Send Invoice To:		Analysis Requested		Pres. Upon Receipt (Y/N)	
Special Instructions		EPA 200.8: Pb, Cu		Preservation Matrix Container Type pH No. Containers	
Client Sample ID	Sample Description	Sample Date	Start	Stop	Wipe Area / Air Volume
TTS12A116-P-WC-11	South Highway Escape	12/21/16			
TTS12A116-P-DF-12	Diesel/Highway 5 wall				
TTS12A116-P-DF-13	Welding 310				
TTS12A116-P-WC-14	Commons, E wall				
TTS12A116-P-DF-15	Commons, W wall				
TTS12A116-P-WC-16	Highway N of Commons				
TTS12A116-P-DF-17	Welding 310B				
TTS12A116-WC-18	Entrance, opposite office				
TTS12A116-P-DF-19	Staff Kitchenette				
TTS12A116-P-WC-20	Entrance adj. Highway E				
TTS12A116-P-WC-21	Entrance adj. Highway W				
Chain of Custody Relinquished By (Signature): Relinquished By (Print Name): Company Name:		Date: 12/21/16 Time: 1430 Relinquished To: Method of Shipment:		Chain of Custody Received By (Signature): Received By (Print Name): Company Name:	
Chain of Custody Relinquished By (Signature): Relinquished By (Print Name): Company Name:		Date: Time: Relinquished To: Method of Shipment:		Chain of Custody Received By (Signature): Received By (Print Name): Company Name:	

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

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



Request for Environmental and IH Laboratory Analytical Services

W612108

Page 3 of 4

ATTENTION TO: RYAN MATHEWS		Client Job No.: 162017	
Lab Use Only	Project No.: Date Logged In: Logged In By:	Turnaround Request	Standard: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> If 'No', No. of Business Days:
Report Results To	Name: Amanda Enbysk, Ryan Mathews Company: Fulcrum Environmental Consulting Address: 406 North 2nd Street City, State, Zip: Yakima, WA, 98901 Phone: (509) 574-0839 Fax: (509) 575-8453 Call with Verbal Results: Email Results To: aenbysk@fulcrum.net, CC: rmathews@fulcrum.net Fax Results To:	Drinking Water Sample Only	Sample Purpose: <input checked="" type="checkbox"/> Information <input type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below): System ID #: DOH Source #: Multiple Sources #:
Send Invoice To	Name: Lorrie Boutillier Company: Fulcrum Environmental Address: 406 North 2nd Street City, State, Zip: Yakima, WA, 98901 Phone: (509) 574-0839 Fax: (509) 575-8453	Chemistry Analysis Key	Preservation: <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> HCl <input type="checkbox"/> NaOH <input type="checkbox"/> Na ₂ SO ₄ <input type="checkbox"/> Other Matrix: <input type="checkbox"/> WW=Wastewater <input type="checkbox"/> GW=Groundwater <input type="checkbox"/> S=Soil/Sludge <input type="checkbox"/> E=Extract Container: <input type="checkbox"/> P=Plastic <input type="checkbox"/> G=Glass <input type="checkbox"/> W=Wipe <input type="checkbox"/> A=Air (filter or tube)
Special Instructions		Analysis Requested	Pres. Upon Receipt (Y/N)
Client Sample ID	Sample Description	Sample Date	Start
			Stop
			Wipe Area / Air Volume
TT5122116-P-KF-22	Dental 105, central and E	1/21/16	
TT5122116-P-KF-23	Dental 105, central and W		
TT5122116-P-KF-24	Dental 105, wall		
TT5122116-P-WC-25	NW hallway, adj. 110		
TT5122116-P-KF-26	Nursing 120, S fixture		
TT5122116-P-KF-27	Nursing 120, S fixture		
TT5122116-P-KF-28	Nursing 120, N fixture		
TT5122116-P-KF-29	Nursing 115, W fixture		
TT5122116-P-KF-30	Nursing 115, E fixture		
TT5122116-P-CF-31	RVT 125, E wall, Sink		
TT5122116-P-CDF-32	140B, Art school		

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

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



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

Purchase Order No.: _____

Project No.: _____ Client No.: _____

Date Logged In: _____ Logged In By: _____

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

Send Invoice To: _____

Special Instructions: _____

Client Sample ID	Sample Description	Sample Date	Sample Time		Wipe Area / Air Volume	EPA 200.8: Pb, Cu	Analysis Requested	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
			Start	Stop									
TT512A116-P-WL-33	Hallway adj. 160	12/21/16				X							16.9
TT612A116-P-CF-34	Digitizer 150, center sink							UNPR.	DW				17.4
TT512A116-P-KF-36	P-202, center sink												16.8
TT512A116-P-KF-36	P-203, kitchen												16.8
TT512A116-P-CF-37	Gymnasium												16.2
TT512A116-P-DF-38	Digital video, 180												17.0
Chain of Custody	Relinquished By (Signature): <i>Amanda Enbysk</i>	Date: 12/21/16	Relinquished To: _____	Time: 1430									
Chain of Custody	Relinquished By (Print Name): _____	Date: _____	Relinquished To: _____	Time: _____									
Chain of Custody	Relinquished By (Signature): _____	Date: _____	Relinquished To: _____	Time: _____									
Chain of Custody	Relinquished By (Print Name): _____	Date: _____	Relinquished To: _____	Time: _____									

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350 Hochberg Road
Monroeville, PA 15146

Phone: 724.325.1776
Fax: 724.733.1799

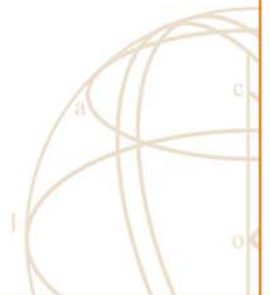
Washington
Columbia Basin Analytical Laboratories
2710 North 20th Avenue
Pasco, WA 99301

Phone: 509.545.4989
Fax: 509.544.6010



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 - Tri-Tech Skills Center
Work Order Number: 1702286**

February 27, 2017

Attention Ryan Mathews:

Fremont Analytical, Inc. received 11 sample(s) on 2/27/2017 for the analyses presented in the following report.

Drinking Water Metals by EPA Method 200.8

This report consists of the following:

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

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

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

CC:
Amanda Enbysk



Date: 02/27/2017

CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Tri-Tech Sk
Work Order: 1702286

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1702286-001	TTS22517-P-KF-27	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-002	TTS22517-S-KF-27	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-003	TTS22517-T-KF-27	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-004	TTS22517-P-KF-28	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-005	TTS22517-S-KF-28	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-006	TTS22517-T-KF-28	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-007	TTS22517-P-CF-34	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-008	TTS22517-S-CF-34	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-009	TTS22517-T-CF-34	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-010	TTS22517-P-CF-37	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-011	TTS22517-P-DF-38	02/25/2017 7:15 AM	02/27/2017 9:20 AM

CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Tri-Tech Skills Center

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:

1702286-004A 208787: Prep Comments for EPA200.8, Sample 1702286-004A: Turbidity: 0.01 NTU

1702286-010A 208789: Prep Comments for EPA200.8, Sample 1702286-010A: Turbidity: 0.00 NTU

1702286-001A 208783: Prep Comments for EPA200.8, Sample 1702286-001A: Turbidity: 0.01 NTU

1702286-007A 208788: Prep Comments for EPA200.8, Sample 1702286-007A: Turbidity: 0.00 NTU

1702286-011A 208790: Prep Comments for EPA200.8, Sample 1702286-011A: Turbidity: 0.00 NTU

Qualifiers:

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

Acronyms:

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



CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Tri-Tech Skills Center

Lab ID: 1702286-001 **Collection Date:** 2/25/2017 7:15:00 AM
Client Sample ID: TTS22517-P-KF-27 **Matrix:** Drinking Water

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

Batch ID: 16360 Analyst: TN

Lead	6.46	1.00		µg/L	1	2/27/2017 3:46:33 PM
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Lab ID: 1702286-004 **Collection Date:** 2/25/2017 7:15:00 AM
Client Sample ID: TTS22517-P-KF-28 **Matrix:** Drinking Water

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

Batch ID: 16360 Analyst: TN

Lead	8.97	1.00		µg/L	1	2/27/2017 4:00:58 PM
------	------	------	--	------	---	----------------------

Lab ID: 1702286-007 **Collection Date:** 2/25/2017 7:15:00 AM
Client Sample ID: TTS22517-P-CF-34 **Matrix:** Drinking Water

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

Batch ID: 16360 Analyst: TN

Lead	11.8	1.00		µg/L	1	2/27/2017 4:04:34 PM
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CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Tri-Tech Skills Center

Lab ID: 1702286-010 **Collection Date:** 2/25/2017 7:15:00 AM
Client Sample ID: TTS22517-P-CF-37 **Matrix:** Drinking Water

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

Batch ID: 16360 Analyst: TN

Lead	ND	1.00		µg/L	1	2/27/2017 4:08:10 PM
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Lab ID: 1702286-011 **Collection Date:** 2/25/2017 7:15:00 AM
Client Sample ID: TTS22517-P-DF-38 **Matrix:** Drinking Water

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

Batch ID: 16360 Analyst: TN

Lead	12.6	1.00		µg/L	1	2/27/2017 4:11:47 PM
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Work Order: 1702286
CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Tri-Tech Sk

QC SUMMARY REPORT
Drinking Water Metals by EPA Method 200.8

Sample ID MB-16360	SampType: MBLK	Units: µg/L			Prep Date: 2/27/2017	RunNo: 34678					
Client ID: MBLKW	Batch ID: 16360				Analysis Date: 2/27/2017	SeqNo: 662272					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 1.00

Sample ID LCS-16360	SampType: LCS	Units: µg/L			Prep Date: 2/27/2017	RunNo: 34678					
Client ID: LCSW	Batch ID: 16360				Analysis Date: 2/27/2017	SeqNo: 662273					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 44.6 1.00 50.00 0 89.1 85 115

Sample ID 1702286-001ADUP	SampType: DUP	Units: µg/L			Prep Date: 2/27/2017	RunNo: 34678					
Client ID: TTS22517-P-KF-27	Batch ID: 16360				Analysis Date: 2/27/2017	SeqNo: 662277					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 6.19 1.00 6.458 4.26 30

Sample ID 1702286-001AMS	SampType: MS	Units: µg/L			Prep Date: 2/27/2017	RunNo: 34678					
Client ID: TTS22517-P-KF-27	Batch ID: 16360				Analysis Date: 2/27/2017	SeqNo: 662278					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 88.8 1.00 100.0 6.458 82.3 70 130

Sample ID 1702286-001AMSD	SampType: MSD	Units: µg/L			Prep Date: 2/27/2017	RunNo: 34678					
Client ID: TTS22517-P-KF-27	Batch ID: 16360				Analysis Date: 2/27/2017	SeqNo: 662279					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 92.3 1.00 100.0 6.458 85.9 70 130 88.79 3.92 30

Client Name: FE	Work Order Number: 1702286
Logged by: Erica Silva	Date Received: 2/27/2017 9:20:00 AM

Chain of Custody

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

Log In

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

Special Handling (if applicable)

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

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

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

Item Information

Item #	Temp °C
Cooler 1	1.8
Cooler 2	0.9
Sample 1	1.2
Sample 2	1.5

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



Chain of Custody Record and Laboratory Services Agreement

3600 Fremont Ave N.
Seattle, WA 98103

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

Client: Fulcrum Environmental Consulting, Inc.

Address: 406 North Second Street
Yakima, WA 98901

City, State, Zip: Yakima, WA 98901

Telephone: 509.574.0839

Fax: 509.575.8453

Date: 2/25/2017

Laboratory Project No (Internal): 1702286

Page: 2 of 2

Project Name: Kennewick SD Drinking Water - Tri-Tech Skills Center

Project No: 162017.10

Location: Tri-Tech Skills Center, Kennewick, WA

Report To (PM): Ryan Mathews

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

Collected by: Amanda Enbysk

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

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GW/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 808)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments	
PT520517-8-DF-38	2/25/2017	0715	DW														HV03 pres.	

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

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

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

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

Relinquished Received

Date/Time: 2/25/2017 1300 Date/Time: 2/27/17 0920

Signature: [Signature] Received: [Signature]

TAT → SameDay^ NextDay^ 2 Day 3 Day STD

*Please coordinate with the lab in advance



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 - Tri Tech Skills Center Follow-Up Sampling
Work Order Number: 1701338**

February 03, 2017

Attention Ryan Mathews:

Fremont Analytical, Inc. received 23 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,

A handwritten signature in black ink, appearing to read "Chelsea Ward".

Chelsea Ward
Project Manager

CLIENT: Fulcrum Environmental
Project: Kennewick SD - Tri Tech Skills Center Follo
Work Order: 1701338

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1701338-001	TTS12817-P-KF-05	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-002	TTS12817-S-KF-05	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-003	TTS12817-T-KF-05	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-004	TTS12817-P-DF-13	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-005	TTS12817-S-DF-13	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-006	TTS12817-T-DF-13	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-007	TTS12817-P-DF-15	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-008	TTS12817-S-DF-15	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-009	TTS12817-T-DF-15	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-010	TTS12817-P-KF-26	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-011	TTS12817-S-KF-26	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-012	TTS12817-T-KF-26	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-013	TTS12817-P-KF-27	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-014	TTS12817-S-KF-27	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-015	TTS12817-T-KF-27	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-016	TTS12817-P-KF-28	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-017	TTS12817-S-KF-28	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-018	TTS12817-T-KF-28	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-019	TTS12817-P-CF-34	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-020	TTS12817-S-CF-34	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-021	TTS12817-T-CF-34	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-022	TTS12817-P-CF-37	01/28/2017 9:45 AM	01/30/2017 9:55 AM
1701338-023	TTS12817-P-DF-38	01/28/2017 9:45 AM	01/30/2017 9:55 AM

CLIENT: Fulcrum Environmental
Project: Kennewick SD - Tri Tech Skills Center 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:

1701338-001A 204205: Prep Comments for EPA200.8, Sample 1701338-001A: Turbidity: 0.09 NTU
1701338-004A 204209: Prep Comments for EPA200.8, Sample 1701338-004A: Turbidity: 0.08 NTU
1701338-007A 204210: Prep Comments for EPA200.8, Sample 1701338-007A: Turbidity: 0.04 NTU
1701338-010A 204211: Prep Comments for EPA200.8, Sample 1701338-010A: Turbidity: 0.05 NTU
1701338-013A 204212: Prep Comments for EPA200.8, Sample 1701338-013A: Turbidity: 0.11 NTU
1701338-016A 204213: Prep Comments for EPA200.8, Sample 1701338-016A: Turbidity: 0.26 NTU
1701338-019A 204214: Prep Comments for EPA200.8, Sample 1701338-019A: Turbidity: 0.15 NTU
1701338-022A 204215: Prep Comments for EPA200.8, Sample 1701338-022A: Turbidity: 0.01 NTU
1701338-023A 204216: Prep Comments for EPA200.8, Sample 1701338-023A: Turbidity: 0.01 NTU

Qualifiers:

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

Acronyms:

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



CLIENT: Fulcrum Environmental

Project: Kennewick SD - Tri Tech Skills Center Follow-Up Sampling

Lab ID: 1701338-001

Collection Date: 1/28/2017 9:45:00 AM

Client Sample ID: TTS12817-P-KF-05

Matrix: Drinking Water

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

Batch ID: 16072

Analyst: TN

Lead	11.3	1.00		µg/L	1	1/30/2017 8:23:08 PM
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Lab ID: 1701338-004

Collection Date: 1/28/2017 9:45:00 AM

Client Sample ID: TTS12817-P-DF-13

Matrix: Drinking Water

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

Batch ID: 16072

Analyst: TN

Copper	823	0.500		µg/L	1	1/30/2017 8:44:49 PM
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Lab ID: 1701338-007

Collection Date: 1/28/2017 9:45:00 AM

Client Sample ID: TTS12817-P-DF-15

Matrix: Drinking Water

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

Batch ID: 16072

Analyst: TN

Lead	ND	1.00		µg/L	1	1/30/2017 8:48:27 PM
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CLIENT: Fulcrum Environmental

Project: Kennewick SD - Tri Tech Skills Center Follow-Up Sampling

Lab ID: 1701338-010

Collection Date: 1/28/2017 9:45:00 AM

Client Sample ID: TTS12817-P-KF-26

Matrix: Drinking Water

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

Batch ID: 16072

Analyst: TN

Lead	13.2	1.00		µg/L	1	1/30/2017 8:52:04 PM
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Lab ID: 1701338-011

Collection Date: 1/28/2017 9:45:00 AM

Client Sample ID: TTS12817-S-KF-26

Matrix: Drinking Water

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

Batch ID: 16116

Analyst: TN

Lead	5.55	1.00		µg/L	1	2/2/2017 9:20:30 PM
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Lab ID: 1701338-012

Collection Date: 1/28/2017 9:45:00 AM

Client Sample ID: TTS12817-T-KF-26

Matrix: Drinking Water

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

Batch ID: 16116

Analyst: TN

Lead	1.31	1.00		µg/L	1	2/2/2017 9:24:06 PM
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CLIENT: Fulcrum Environmental

Project: Kennewick SD - Tri Tech Skills Center Follow-Up Sampling

Lab ID: 1701338-013

Collection Date: 1/28/2017 9:45:00 AM

Client Sample ID: TTS12817-P-KF-27

Matrix: Drinking Water

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

Batch ID: 16072

Analyst: TN

Lead	21.0	1.00		µg/L	1	1/30/2017 8:55:40 PM
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Lab ID: 1701338-014

Collection Date: 1/28/2017 9:45:00 AM

Client Sample ID: TTS12817-S-KF-27

Matrix: Drinking Water

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

Batch ID: 16116

Analyst: TN

Lead	11.2	1.00		µg/L	1	2/2/2017 9:27:43 PM
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Lab ID: 1701338-016

Collection Date: 1/28/2017 9:45:00 AM

Client Sample ID: TTS12817-P-KF-28

Matrix: Drinking Water

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

Batch ID: 16072

Analyst: TN

Lead	24.6	1.00		µg/L	1	1/30/2017 8:59:16 PM
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CLIENT: Fulcrum Environmental

Project: Kennewick SD - Tri Tech Skills Center Follow-Up Sampling

Lab ID: 1701338-017

Collection Date: 1/28/2017 9:45:00 AM

Client Sample ID: TTS12817-S-KF-28

Matrix: Drinking Water

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

Batch ID: 16116

Analyst: TN

Lead	36.6	1.00		µg/L	1	2/2/2017 9:31:19 PM
------	------	------	--	------	---	---------------------

Lab ID: 1701338-018

Collection Date: 1/28/2017 9:45:00 AM

Client Sample ID: TTS12817-T-KF-28

Matrix: Drinking Water

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

Batch ID: 16116

Analyst: TN

Lead	ND	1.00		µg/L	1	2/2/2017 9:34:55 PM
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Lab ID: 1701338-019

Collection Date: 1/28/2017 9:45:00 AM

Client Sample ID: TTS12817-P-CF-34

Matrix: Drinking Water

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

Batch ID: 16072

Analyst: TN

Lead	55.9	1.00		µg/L	1	1/30/2017 9:02:53 PM
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CLIENT: Fulcrum Environmental

Project: Kennewick SD - Tri Tech Skills Center Follow-Up Sampling

Lab ID: 1701338-020

Collection Date: 1/28/2017 9:45:00 AM

Client Sample ID: TTS12817-S-CF-34

Matrix: Drinking Water

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

Batch ID: 16116

Analyst: TN

Lead	44.8	1.00		µg/L	1	2/2/2017 9:38:32 PM
------	------	------	--	------	---	---------------------

Lab ID: 1701338-021

Collection Date: 1/28/2017 9:45:00 AM

Client Sample ID: TTS12817-T-CF-34

Matrix: Drinking Water

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

Batch ID: 16116

Analyst: TN

Lead	2.25	1.00		µg/L	1	2/2/2017 9:42:08 PM
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Lab ID: 1701338-022

Collection Date: 1/28/2017 9:45:00 AM

Client Sample ID: TTS12817-P-CF-37

Matrix: Drinking Water

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

Batch ID: 16072

Analyst: TN

Copper	ND	0.500		µg/L	1	1/30/2017 9:06:29 PM
Lead	ND	1.00		µg/L	1	1/30/2017 9:06:29 PM



CLIENT: Fulcrum Environmental

Project: Kennewick SD - Tri Tech Skills Center Follow-Up Sampling

Lab ID: 1701338-023

Collection Date: 1/28/2017 9:45:00 AM

Client Sample ID: TTS12817-P-DF-38

Matrix: Drinking Water

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

Batch ID: 16072

Analyst: TN

Copper	1,280	0.500		µg/L	1	1/30/2017 9:10:06 PM
Lead	16.2	1.00		µg/L	1	1/30/2017 9:10:06 PM

Work Order: 1701338
 CLIENT: Fulcrum Environmental
 Project: Kennewick SD - Tri Tech Skills Center Follo

QC SUMMARY REPORT
Drinking Water Metals by EPA Method 200.8

Sample ID: MB-16116	SampType: MBLK	Units: µg/L	Prep Date: 2/2/2017	RunNo: 34242							
Client ID: MBLKW	Batch ID: 16116	Analysis Date: 2/2/2017	SeqNo: 652929								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 1.00

Sample ID: LCS-16116	SampType: LCS	Units: µg/L	Prep Date: 2/2/2017	RunNo: 34242							
Client ID: LCSW	Batch ID: 16116	Analysis Date: 2/2/2017	SeqNo: 652930								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 47.3 1.00 50.00 0 94.7 85 115

Sample ID: 1701233-016ADUP	SampType: DUP	Units: µg/L	Prep Date: 2/2/2017	RunNo: 34242							
Client ID: BATCH	Batch ID: 16116	Analysis Date: 2/2/2017	SeqNo: 652932								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 1.00 0 30

Sample ID: 1701233-016AMS	SampType: MS	Units: µg/L	Prep Date: 2/2/2017	RunNo: 34242							
Client ID: BATCH	Batch ID: 16116	Analysis Date: 2/2/2017	SeqNo: 652933								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 85.5 1.00 100.0 0.2482 85.3 70 130

Sample ID: 1701233-016AMSD	SampType: MSD	Units: µg/L	Prep Date: 2/2/2017	RunNo: 34242							
Client ID: BATCH	Batch ID: 16116	Analysis Date: 2/2/2017	SeqNo: 652934								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 88.6 1.00 100.0 0.2482 88.3 70 130 85.51 3.53 30

Work Order: 1701338
CLIENT: Fulcrum Environmental
Project: Kennewick SD - Tri Tech Skills Center Follo

QC SUMMARY REPORT
Drinking Water Metals by EPA Method 200.8

Sample ID: MB-16072	SampType: MBLK	Units: µg/L	Prep Date: 1/30/2017	RunNo: 34163							
Client ID: MBLKW	Batch ID: 16072	Analysis Date: 1/30/2017	SeqNo: 650554								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	ND	0.500									
Lead	ND	1.00									

Sample ID: LCS-16072	SampType: LCS	Units: µg/L	Prep Date: 1/30/2017	RunNo: 34163							
Client ID: LCSW	Batch ID: 16072	Analysis Date: 1/30/2017	SeqNo: 650555								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	99.9	0.500	100.0	0	99.9	85	115				
Lead	53.4	1.00	50.00	0	107	85	115				

Sample ID: 1701338-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 1/30/2017	RunNo: 34163							
Client ID: TTS12817-P-KF-05	Batch ID: 16072	Analysis Date: 1/30/2017	SeqNo: 650557								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	207	0.500						211.6	2.01	30	
Lead	11.6	1.00						11.30	2.83	30	

Sample ID: 1701338-001AMS	SampType: MS	Units: µg/L	Prep Date: 1/30/2017	RunNo: 34163							
Client ID: TTS12817-P-KF-05	Batch ID: 16072	Analysis Date: 1/30/2017	SeqNo: 650563								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	420	0.500	200.0	211.6	104	70	130				
Lead	113	1.00	100.0	11.30	101	70	130				

Sample ID: 1701338-001AMSD	SampType: MSD	Units: µg/L	Prep Date: 1/30/2017	RunNo: 34163							
Client ID: TTS12817-P-KF-05	Batch ID: 16072	Analysis Date: 1/30/2017	SeqNo: 650565								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	400	0.500	200.0	211.6	94.3	70	130	419.8	4.81	30	
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Work Order: 1701338
CLIENT: Fulcrum Environmental
Project: Kennewick SD - Tri Tech Skills Center Follo

QC SUMMARY REPORT
Drinking Water Metals by EPA Method 200.8

Sample ID: 1701338-001AMSD	SampType: MSD	Units: µg/L	Prep Date: 1/30/2017	RunNo: 34163							
Client ID: TTS12817-P-KF-05	Batch ID: 16072		Analysis Date: 1/30/2017	SeqNo: 650565							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	117	1.00	100.0	11.30	106	70	130	112.7	4.07	30	

Client Name: **FE**
 Logged by: **Erica Silva**

Work Order Number: **1701338**
 Date Received: **1/30/2017 9:55:00 AM**

Chain of Custody

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

Log In

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

Special Handling (if applicable)

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

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

19. Additional remarks:

Client did not relinquish chain of custody
 HNO3 added to: 002A, 003A, 005A, 006A, 008A, 009A, 011A, 012A, 014A, 015A, 017A, 018A, 020A, 021A

Item Information

Item #	Temp °C
Cooler	7.6
Sample	9.4

* Note: DoD/ELAP and TNI require items to be received at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$



Fremont
Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

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

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

Chain of Custody Record and Laboratory Services Agreement

Date: 1/28/2017

Laboratory Project No (Internal):

1701338

Page: 1 of 3

Collected by: Amanda Eckstak

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

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes												Comments			
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***		EDB (801.1)		
TS12817-P-KF-05	1/28/2017	0945	DW																HNO3 preserved; analyze for Pb only
TS12817-S-KF-015																			HNO3 preserved; analyze for Cu only
TS12817-T-KF-06																			HNO3 preserved; analyze for Pb only
TS12817-P-DF-13																			HNO3 preserved; analyze for Pb only
TS12817-S-DF-13																			HNO3 preserved; analyze for Pb only
TS12817-T-DF-13																			HNO3 preserved; analyze for Pb only
TS12817-P-DF-15																			HNO3 preserved; analyze for Pb only
TS12817-S-DF-15																			HNO3 preserved; analyze for Pb only
TS12817-T-DF-15																			HNO3 preserved; analyze for Pb only
TS12817-P-KF-216																			HNO3 preserved; analyze for Pb only

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite
 Sample Disposal: Return to Client Disposal by Lab (Samples will be held for 30 days unless otherwise noted. A fee may be assessed if samples are retained after 30 days.)
 Turn-around times for samples received after 4:00pm will begin on the following business day.

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

Relinquished Date/Time Received Date/Time
 Relinquished Date/Time Received Date/Time

Retrieved Date/Time Received Date/Time

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



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Seattle, WA 98103

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

Chain of Custody Record and Laboratory Services Agreement

Date: 1/28/2017

Laboratory Project No (Internal):

1701338

Page: 2 of 3

Project Name: Kennewick SD - Tri Tech Skills Center Follow-Up Sampling
Project No: 162017
Collected by: Amanda Embick

Location: Tri Tech Skills Center, Kennewick, WA

Report To (PM): Ryan Mathews

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

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

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

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes											Comments				
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCS (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)		Anions (IC)***	EDB (801.1)		
TS12817-S-KF-240	1/28/2017	0945	DW																H2O; unpr.
TS12817-T-KF-240																			H2O; unpr.
TS12817-R-KF-24																			H2O; unpr.
TS12817-S-KF-27																			H2O; unpr.
TS12817-T-KF-27																			H2O; unpr.
TS12817-R-KF-28																			H2O; unpr.
TS12817-S-KF-28																			H2O; unpr.
TS12817-T-KF-28																			H2O; unpr.
TS12817-R-KF-28																			H2O; unpr.
TS12817-S-KF-24																			H2O; unpr.

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

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite
 Return to Client Disposal by Lab (Samples will be held for 30 days unless otherwise noted. A fee may be assessed if samples are retained after 30 days.)
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Relinquished Date/Time: _____ Received Date/Time: 1/30/17
 Relinquished Date/Time: _____ Received Date/Time: 1/30/17

Relinquished Date/Time: _____ Received Date/Time: _____
 TAT → SameDay NextDay 2 Day 3 Day STD
 *Please coordinate with the lab in advance



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Seattle, WA 98103

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

Chain of Custody Record and Laboratory Services Agreement

Date: 1/28/2017

Laboratory Project No (Internal): 1701338
Page: 3 of 3

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

Project Name: Kennewick SD - Tri Tech Skills Center Follow-Up Sampling
Project No: 162017
Location: Tri Tech Skills Center, Kennewick, WA
Report To (PM): Ryan Mathews
PM Email: rmathews@fulcrum.net; cc: aenhsyk@fulcrum.net

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

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GV/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (C)***	EDB (8011)	Comments	
TS12817-T-CF-34	1/28/2017	0945	DW														Hold impr.	
TS12817-P-CF-37																		HWS Pres; analyze for Pb and Cu
TS12817-P-DF-38																		HWS Pres; analyze for Pb and Cu

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

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

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

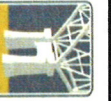
I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished Date/Time Received Date/Time 1/30/17 0955

Relinquished Date/Time Received Date/Time TAT: ASAP

TAT → SameDay^ NextDay^ 2 Day 3 Day STD

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Chain of Custody Record and Laboratory Services Agreement

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Page: 1 of 3

Client: Fulcrum Environmental Consulting
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Telephone: 509.574.0839 Fax: 509.545.8453

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

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Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes													Comments	
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TS12817-P-KF-05	1/28/2017	0945	DW															HNO3 preserved; analyze for Pb only
TS12817-S-KP-05																		H2O2; impr.
TS12817-T-KF-06																		HNO3 preserved; analyze for Cu only
TS12817-P-DF-13																		H2O2; impr.
TS12817-S-DF-13																		H2O2; impr.
TS12817-T-DF-13																		HNO3 preserved; analyze for Pb only
TS12817-P-DF-15																		H2O2; impr.
TS12817-S-DF-15																		HNO3 preserved; analyze for Pb only
TS12817-T-DF-15																		H2O2; impr.
TS12817-P-KF-20																		HNO3 preserved; analyze for Pb only

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

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

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

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Relinquished Date/Time Received Date/Time
 Relinquished Date/Time Received Date/Time
 Relinquished Date/Time Received Date/Time

Received 1/28/17
 Received 1/29/17
 Received 1/29/17

TAT → SameDay NextDay 2 Day 3 Day STD
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Fremont Analytical

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Chain of Custody Record and Laboratory Services Agreement

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

Date: 1/28/2017
Laboratory Project No (Internal): 1701338
Page: 2 of 5

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Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes												Comments			
				VOCS (EPA 8260 / 624)	GYBTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8270 - 200.8)	Metals** (EPA 8082 / 608)	Total (T) / Dissolved (D)	Anions (IC)***		ED6 (8011)		
TS12817-S-KF-24	1/28/2017	0945	DW																Hold; unpr. Analyze for Pb only <input checked="" type="checkbox"/> 2/2/17
TS12817-T-KF-26																			↓ Analyze for Pb only <input checked="" type="checkbox"/> 2/2/17
TS12817-R-KF-27																			H2O3 pres; analyze for Pb only <input checked="" type="checkbox"/> 2/2/17
TS12817-S-KF-27																			↓ Analyze for Pb only <input checked="" type="checkbox"/> 2/2/17
TS12817-T-KF-27																			↓ Analyze for Pb only <input checked="" type="checkbox"/> 2/2/17
TS12817-R-KF-28																			H2O3 pres; analyze for Pb only <input checked="" type="checkbox"/> 2/2/17
TS12817-S-KF-28																			↓ Analyze for Pb only <input checked="" type="checkbox"/> 2/2/17
TS12817-T-KF-28																			H2O3 pres; analyze for Pb only <input checked="" type="checkbox"/> 2/2/17
TS12817-R-KF-28																			↓ Analyze for Pb only <input checked="" type="checkbox"/> 2/2/17
TS12817-S-KF-31																			H2O3 pres; analyze for Pb only <input checked="" type="checkbox"/> 2/2/17
TS12817-T-KF-31																			↓ Analyze for Pb only <input checked="" type="checkbox"/> 2/2/17
TS12817-R-KF-31																			H2O3 pres; analyze for Pb only <input checked="" type="checkbox"/> 2/2/17
TS12817-S-KF-34																			H2O3 pres; analyze for Pb only <input checked="" type="checkbox"/> 2/2/17

****Metals Analysis (Circle):** MICA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn
****Anions (Circle):** Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite
 Turn-around times for samples received after 4:00pm will begin on the following business day.

Sample Disposal: Return to Client Disposal by Lab (Samples will be held for 30 days unless otherwise noted. A fee may be assessed if samples are retained after 30 days.)
Relinquished: Received Date/Time: 2/2/17
Relinquished: Received Date/Time: 2/2/17

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.
 Signature: *[Signature]* Date/Time: 2/2/17
 Signature: *[Signature]* Date/Time: 2/2/17

ATTACHMENT F

Fixture Style Photographs





Sample TTS122116-P-KF-05: **23 µg/L** initial lead concentration. Fixture style above is identified producing elevated lead concentrations.



Sample TTS122116-P-DF-15: **15 µg/L** initial lead concentration. Drinking fountain above is identified producing elevated lead concentrations.



Sample TTS122116-P-CF-34: **28 µg/L** initial lead concentration. Fixture style above is identified producing elevated lead concentrations.



Sample TTS122116-P-KF-10: **2 µg/L** initial lead concentration. Same fixture style as CF-34 and KF-27 identified producing elevated lead concentrations.



Sample TTS122116-P-KF-26: **30 µg/L** initial lead concentration. Fixture style above is identified producing elevated lead concentrations.



Sample TTS122116-P-KF-28: **41 µg/L** initial lead concentration. Fixture style above is identified producing elevated lead concentrations.