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

RE: Kennewick School District - Sagecrest Elementary Drinking Wat
Work Order Number: 1702138

February 14, 2017

Attention Ryan Mathews:

Fremont Analytical, Inc. received 35 sample(s) on 2/13/2017 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

Fremont Analytical

Date: *02/14/2017*

CLIENT: Fulcrum Environmental
Project: Kennewick School District - Sagecrest Elem
Work Order: 1702138

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1702138-001	SCE21117-P-KF-01	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-002	SCE21117-P-KF-02	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-003	SCE21117-P-CF-06	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-004	SCE21117-P-CDF-07	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-005	SCE21117-S-CDF-07	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-006	SCE21117-T-CDF-07	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-007	SCE21117-P-CDF-08	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-008	SCE21117-S-CDF-08	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-009	SCE21117-T-CDF-08	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-010	SCE21117-P-CF-09	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-011	SCE21117-P-NF-12	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-012	SCE21117-P-OF-13	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-013	SCE21117-P-OF-14	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-014	SCE21117-P-CDF-15	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-015	SCE21117-S-CDF-15	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-016	SCE21117-T-CDF-15	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-017	SCE21117-P-CF-16	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-018	SCE21117-P-CDF-17	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-019	SCE21117-S-CDF-17	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-020	SCE21117-T-CDF-17	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-021	SCE21117-P-CF-18	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-022	SCE21117-S-CF-18	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-023	SCE21117-T-CF-18	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-024	SCE21117-P-KF-19	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-025	SCE21117-P-KF-20	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-026	SCE21117-P-CDF-21	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-027	SCE21117-P-CF-22	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-028	SCE21117-P-CDF-23	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-029	SCE21117-P-CF-24	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-030	SCE21117-P-OF-25	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-031	SCE21117-P-CDF-28	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-032	SCE21117-P-CF-29	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-033	SCE21117-P-CF-30	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-034	SCE21117-P-CF-31	02/11/2017 7:30 AM	02/13/2017 9:43 AM
1702138-035	SCE21117-P-CDF-32	02/11/2017 7:30 AM	02/13/2017 9:43 AM

CLIENT: Fulcrum Environmental
Project: Kennewick School District - Sagecrest Elementary Drinking Water 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:
1702138-001A 206724: Prep Comments for EPA200.8, Sample 1702138-001A: Turbidity: 0.00 NTU
1702138-002A 206725: Prep Comments for EPA200.8, Sample 1702138-002A: Turbidity: 0.00 NTU
1702138-003A 206726: Prep Comments for EPA200.8, Sample 1702138-003A: Turbidity: 0.10 NTU
1702138-004A 206727: Prep Comments for EPA200.8, Sample 1702138-004A: Turbidity: 0.22 NTU
1702138-007A 206728: Prep Comments for EPA200.8, Sample 1702138-007A: Turbidity: 0.05 NTU
1702138-010A 206729: Prep Comments for EPA200.8, Sample 1702138-010A: Turbidity: 0.47 NTU
1702138-011A 206730: Prep Comments for EPA200.8, Sample 1702138-011A: Turbidity: 0.83 NTU
1702138-012A 206731: Prep Comments for EPA200.8, Sample 1702138-012A: Turbidity: 0.06 NTU
1702138-013A 206732: Prep Comments for EPA200.8, Sample 1702138-013A: Turbidity: 0.57 NTU
1702138-014A 206733: Prep Comments for EPA200.8, Sample 1702138-014A: Turbidity: 0.25 NTU
1702138-017A 206734: Prep Comments for EPA200.8, Sample 1702138-017A: Turbidity: 0.00 NTU
1702138-018A 206735: Prep Comments for EPA200.8, Sample 1702138-018A: Turbidity: 0.16 NTU
1702138-021A 206736: Prep Comments for EPA200.8, Sample 1702138-021A: Turbidity: 0.01 NTU
1702138-024A 206737: Prep Comments for EPA200.8, Sample 1702138-024A: Turbidity: 0.22 NTU
1702138-025A 206740: Prep Comments for EPA200.8, Sample 1702138-025A: Turbidity: 0.98 NTU
1702138-026A 206744: Prep Comments for EPA200.8, Sample 1702138-026A: Turbidity: 0.22 NTU
1702138-027A 206745: Prep Comments for EPA200.8, Sample 1702138-027A: Turbidity: 0.18 NTU
1702138-028A 206746: Prep Comments for EPA200.8, Sample 1702138-028A: Turbidity: 0.63 NTU
1702138-029A 206747: Prep Comments for EPA200.8, Sample 1702138-029A: Turbidity: 0.56 NTU
1702138-030A 206748: Prep Comments for EPA200.8, Sample 1702138-030A: Turbidity: 0.07 NTU
1702138-031A 206749: Prep Comments for EPA200.8, Sample 1702138-031A: Turbidity: 0.76 NTU
1702138-032A 206750: Prep Comments for EPA200.8, Sample 1702138-032A: Turbidity: 0.48 NTU
1702138-033A 206751: Prep Comments for EPA200.8, Sample 1702138-033A: Turbidity: 0.27 NTU
1702138-034A 206752: Prep Comments for EPA200.8, Sample 1702138-034A: Turbidity: 0.07 NTU
1702138-035A 206753: Prep Comments for EPA200.8, Sample 1702138-035A: Turbidity: 0.03 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 School District - Sagecrest Elementary Drinking Water Sampli

Lab ID: 1702138-001 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-KF-01** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16210		Analyst: TN
Copper	781	0.500		µg/L	1	2/13/2017 4:54:47 PM

Lab ID: 1702138-002 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-KF-02** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16210		Analyst: TN
Copper	626	0.500		µg/L	1	2/13/2017 4:58:23 PM

Lab ID: 1702138-003 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CF-06** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16210		Analyst: TN
Copper	863	0.500		µg/L	1	2/13/2017 5:02:00 PM

CLIENT: Fulcrum Environmental
Project: Kennewick School District - Sagecrest Elementary Drinking Water Sampli

Lab ID: 1702138-004 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CDF-07** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16210		Analyst: TN
Copper	925	0.500		µg/L	1	2/13/2017 5:05:36 PM

Lab ID: 1702138-007 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CDF-08** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16210		Analyst: TN
Copper	1,210	0.500		µg/L	1	2/13/2017 5:09:13 PM

Lab ID: 1702138-010 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CF-09** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16210		Analyst: TN
Copper	1,170	0.500		µg/L	1	2/13/2017 5:20:03 PM

CLIENT: Fulcrum Environmental
Project: Kennewick School District - Sagecrest Elementary Drinking Water Sampli

Lab ID: 1702138-011 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-NF-12** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16210		Analyst: TN
Copper	890	0.500		µg/L	1	2/13/2017 5:23:40 PM

Lab ID: 1702138-012 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-OF-13** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16210		Analyst: TN
Copper	853	0.500		µg/L	1	2/13/2017 5:27:16 PM

Lab ID: 1702138-013 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-OF-14** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16210		Analyst: TN
Copper	1,030	0.500		µg/L	1	2/13/2017 5:30:53 PM

CLIENT: Fulcrum Environmental
Project: Kennewick School District - Sagecrest Elementary Drinking Water Sampli

Lab ID: 1702138-014 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CDF-15** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16210		Analyst: TN
Copper	793	0.500		µg/L	1	2/13/2017 5:34:29 PM

Lab ID: 1702138-017 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CF-16** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16210		Analyst: TN
Copper	964	0.500		µg/L	1	2/13/2017 5:38:05 PM

Lab ID: 1702138-018 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CDF-17** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16210		Analyst: TN
Copper	881	0.500		µg/L	1	2/13/2017 5:41:41 PM

CLIENT: Fulcrum Environmental
Project: Kennewick School District - Sagecrest Elementary Drinking Water Sampli

Lab ID: 1702138-021 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CF-18** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16210		Analyst: TN
Copper	1,050	0.500		µg/L	1	2/13/2017 5:45:18 PM

Lab ID: 1702138-024 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-KF-19** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16210		Analyst: TN
Copper	1,070	0.500		µg/L	1	2/13/2017 5:48:55 PM

Lab ID: 1702138-025 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-KF-20** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16211		Analyst: TN
Copper	1,010	0.500		µg/L	1	2/13/2017 7:51:41 PM

CLIENT: Fulcrum Environmental
Project: Kennewick School District - Sagecrest Elementary Drinking Water Sampli

Lab ID: 1702138-026 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CDF-21** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16211		Analyst: TN
Copper	1,060	0.500		µg/L	1	2/13/2017 8:13:22 PM

Lab ID: 1702138-027 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CF-22** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16211		Analyst: TN
Copper	588	0.500		µg/L	1	2/13/2017 8:16:58 PM

Lab ID: 1702138-028 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CDF-23** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16211		Analyst: TN
Copper	853	0.500		µg/L	1	2/13/2017 8:20:34 PM

CLIENT: Fulcrum Environmental
Project: Kennewick School District - Sagecrest Elementary Drinking Water Sampli

Lab ID: 1702138-029 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CF-24** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16211		Analyst: TN
Copper	998	0.500		µg/L	1	2/13/2017 8:24:11 PM

Lab ID: 1702138-030 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-OF-25** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16211		Analyst: TN
Copper	1,070	0.500		µg/L	1	2/13/2017 8:27:47 PM

Lab ID: 1702138-031 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CDF-28** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16211		Analyst: TN
Copper	652	0.500		µg/L	1	2/13/2017 8:31:23 PM

CLIENT: Fulcrum Environmental
Project: Kennewick School District - Sagecrest Elementary Drinking Water Sampli

Lab ID: 1702138-032 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CF-29** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16211		Analyst: TN
Copper	960	0.500		µg/L	1	2/13/2017 8:35:00 PM

Lab ID: 1702138-033 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CF-30** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16211		Analyst: TN
Copper	1,000	0.500		µg/L	1	2/13/2017 8:38:36 PM

Lab ID: 1702138-034 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CF-31** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16211		Analyst: TN
Copper	ND	0.500		µg/L	1	2/13/2017 8:42:13 PM

Analytical Report

Work Order: **1702138**
Date Reported: **2/14/2017**

CLIENT: Fulcrum Environmental
Project: Kennewick School District - Sagecrest Elementary Drinking Water Sampli

Lab ID: 1702138-035 **Collection Date:** 2/11/2017 7:30:00 AM
Client Sample ID: **SCE21117-P-CDF-32** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16211		Analyst: TN
Copper	1,200	0.500		µg/L	1	2/13/2017 8:45:49 PM

Work Order: 1702138
CLIENT: Fulcrum Environmental
Project: Kennewick School District - Sagecrest Elem

QC SUMMARY REPORT

Drinking Water Metals by EPA Method 200.8

Sample ID	**MB-16211**	SampType:	**MBLK**			Units:	**µg/L**	Prep Date:	**2/13/2017**	RunNo:	**34434**	
Client ID:	**MBLKW**	Batch ID:	**16211**					Analysis Date:	**2/13/2017**	SeqNo:	**657292**	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		ND	0.500									

Sample ID	**LCS-16211**	SampType:	**LCS**			Units:	**µg/L**	Prep Date:	**2/13/2017**	RunNo:	**34434**	
Client ID:	**LCSW**	Batch ID:	**16211**					Analysis Date:	**2/13/2017**	SeqNo:	**657293**	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		90.7	0.500	100.0	0	90.7	85	115				

Sample ID	**1702138-025ADUP**	SampType:	**DUP**			Units:	**µg/L**	Prep Date:	**2/13/2017**	RunNo:	**34434**	
Client ID:	**SCE21117-P-KF-20**	Batch ID:	**16211**					Analysis Date:	**2/13/2017**	SeqNo:	**657295**	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		987	0.500						1,008	2.03	30	

Sample ID	**1702138-025AMS**	SampType:	**MS**			Units:	**µg/L**	Prep Date:	**2/13/2017**	RunNo:	**34434**	
Client ID:	**SCE21117-P-KF-20**	Batch ID:	**16211**					Analysis Date:	**2/13/2017**	SeqNo:	**657296**	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		1,140	0.500	200.0	1,008	65.9	70	130				S

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

Sample ID	**1702138-025AMSD**	SampType:	**MSD**			Units:	**µg/L**	Prep Date:	**2/13/2017**	RunNo:	**34434**	
Client ID:	**SCE21117-P-KF-20**	Batch ID:	**16211**					Analysis Date:	**2/13/2017**	SeqNo:	**657297**	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		1,150	0.500	200.0	1,008	71.8	70	130	1,139	1.03	30	

Work Order: 1702138
CLIENT: Fulcrum Environmental
Project: Kennewick School District - Sagecrest Elem

QC SUMMARY REPORT

Drinking Water Metals by EPA Method 200.8

Sample ID	**MB-16210**	SampType:	**MBLK**			Units:	**µg/L**	Prep Date:	**2/13/2017**	RunNo:	**34432**
Client ID:	**MBLKW**	Batch ID:	**16210**					Analysis Date:	**2/13/2017**	SeqNo:	**657198**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.500									

Sample ID	**LCS-16210**	SampType:	**LCS**			Units:	**µg/L**	Prep Date:	**2/13/2017**	RunNo:	**34432**
Client ID:	**LCSW**	Batch ID:	**16210**					Analysis Date:	**2/13/2017**	SeqNo:	**657199**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	93.2	0.500	100.0	0	93.2	85	115				

Sample ID	**1702137-001ADUP**	SampType:	**DUP**			Units:	**µg/L**	Prep Date:	**2/13/2017**	RunNo:	**34432**
Client ID:	**BATCH**	Batch ID:	**16210**					Analysis Date:	**2/13/2017**	SeqNo:	**657201**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	676	0.500						677.5	0.160	30	

Sample ID	**1702137-001AMS**	SampType:	**MS**			Units:	**µg/L**	Prep Date:	**2/13/2017**	RunNo:	**34432**
Client ID:	**BATCH**	Batch ID:	**16210**					Analysis Date:	**2/13/2017**	SeqNo:	**657202**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	869	0.500	200.0	677.5	95.8	70	130				

Sample ID	**1702137-001AMSD**	SampType:	**MSD**			Units:	**µg/L**	Prep Date:	**2/13/2017**	RunNo:	**34432**
Client ID:	**BATCH**	Batch ID:	**16210**					Analysis Date:	**2/13/2017**	SeqNo:	**657203**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	830	0.500	200.0	677.5	76.3	70	130	869.0	4.57	30	

Sample Log-In Check List

Client Name:	**FE**	Work Order Number:	**1702138**
Logged by:	**Erica Silva**	Date Received:	**2/13/2017 9:43:00 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: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

HNO3 added to 005A, 006A, 008A, 009A, 015A, 016A, 019A, 020A, 022A, 023A

Item Information

Item #	Temp ºC
Cooler	3.2
Sample	3.3

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

Chain of Custody Record and Laboratory Services Agreement

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

Date: 2/11/2017 Laboratory Project No (internal): 1702138

Page: 1 of: 4

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 School District - Sagecrest Elementary Drinking Water Sampling
Project No: 162017.18 Collected by: Amanda Enbysk & Nate Bostrom
Location: Sagecrest Elementary, Kennewick, WA
Report To (PM): Ryan Mathews
PM Email: rmathews@efulcrum.net; cc: aenbysk@efulcrum.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)	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 (8011)	Comments
SCE21117-P-KF-01	2/11/2017	0730	DW										X				HNO_3 preserved
SCE21117-P-KF-02	2/11/2017		DW										X				
SCE21117-P-CF-06	2/11/2017		DW										X				
SCE21117-P-CDF-07	2/11/2017		DW										X				
SCE21117-S-CDF-07	2/11/2017		DW														HOLD; unpreserved
SCE21117-T-CDF-07	2/11/2017		DW														
SCE21117-P-CDF-08	2/11/2017		DW										X				HNO_3 preserved
SCE21117-S-CDF-08	2/11/2017		DW														HOLD; unpreserved
SCE21117-T-CDF-08	2/11/2017		DW														
SCE21117-P-CF-09	2/11/2017		DW										X				HNO_3 preserved

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

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

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

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

Special Remarks: Please preserve all unpreserved samples

TAT: ASAP

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
x [signature]	2/11/17; 1045	x [signature]	2/13/17 0943
Relinquished	Date/Time	Received	Date/Time
x		x	

TAT → SameDay^ NextDay^ 2 Day 3 Day STD

^Please coordinate with the lab in advance

Chain of Custody Record and Laboratory Services Agreement

Fremont Analytical

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

Date: 2/11/2017 ***Laboratory Project No (internal):*** 1702138

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 School District - Sagecrest Elementary Drinking Water Sampling
Project No: 162017.18 **Collected by:** Amanda Enbysk & Nicole Bostrom
Location: Sagecrest Elementary, Kennewick, WA
Report To (PM): Ryan Mathews
PM Email: rmathews@efulcrum.net; cc: aenbysk@efulcrum.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)	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 (8011)	Comments
SCE21117-P-NF-12	2/11/2017	0730	DW										⊗				HNO_3 preserved
SCE21117-P-OF-13	2/11/2017		DW										⊗				↓
SCE21117-P-OF-14	2/11/2017		DW										⊗				
SCE21117-P-CDF-15	2/11/2017		DW										⊗				
SCE21117-S-CDF-15	2/11/2017		DW														HOLD; unpreserved
SCE21117-T-CDF-15	2/11/2017		DW														↓
SCE21117-P-CF-16	2/11/2017		DW										⊗				HNO_3 preserved
SCE21117-P-CDF-17	2/11/2017		DW										⊗				↓
SCE21117-S-CDF-17	2/11/2017		DW														HOLD; unpreserved
SCE21117-T-CDF-17	2/11/2017	↓	DW														↓

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

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Special Remarks:

See page 1

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

Relinquished	Date/Time	Received	Date/Time
x Amanda McEgh	2/11/2017; 1045a	x	2/13/17 0942
Relinquished	Date/Time	Received	Date/Time
x		x	

TAT → SameDay^ NextDay^ 2 Day 3 Day STD

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Chain of Custody Record and Laboratory Services Agreement

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

Date: 2/11/2017 | Laboratory Project No (internal): 1702138 | Page: 3 of: 4

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 School District - Sagecrest Elementary Drinking Water Sampling
Project No: 162017.18 Collected by: Amanda Enbysk + Nate Bostrom
Location: Sagecrest Elementary, Kennewick, WA
Report To (PM): Ryan Mathews
PM Email: rmathews@efulcrum.net; cc: aenbysk@efulcrum.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)	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 (8011)	Comments
SCE21117-P-CF-18	2/11/2017	0730	DW									⊗				HNO_3 preserved
SCE21117-S-CF-18	2/11/2017		DW													HOLD; unpreserved
SCE21117-T-CF-18	2/11/2017		DW													↓
SCE21117-P-KF-19	2/11/2017		DW									⊗				HNO_3 preserved
SCE21117-P-KF-20	2/11/2017		DW									⊗				↓
SCE21117-P-CDF-21	2/11/2017		DW									⊗				
SCE21117-P-CF-22	2/11/2017		DW									⊗				
SCE21117-P-CDF-23	2/11/2017		DW									⊗				
SCE21117-P-CF-24	2/11/2017		DW									⊗				
SCE21117-P-OF-25	2/11/2017	↓	DW									⊗				↓

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

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

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Relinquished	Date/Time	Received	Date/Time
x Amanda McAfee	2/11/2017; 1645 am	x	2/13/17 0943
x		x	

TAT → SameDay^ NextDay^ 2 Day 3 Day STD

^Please coordinate with the lab in advance

Chain of Custody Record and Laboratory Services Agreement

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

Date: 2/11/2017 Laboratory Project No (internal): 1702138

Page: 4 of: 4

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 School District - Sagecrest Elementary Drinking Water Sampling
Project No: 162017.18 Collected by: Amanda M Gutzke - Nate Bostrom
Location: Sagecrest Elementary, Kennewick, WA
Report To (PM): Ryan Mathews
PM Email: rmathews@efulcrum.net; cc: aenbysk@efulcrum.net

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SCE21117-P-CDF-28	2/11/2017	0730	DW									X									HNO3 preserved
SCE21117-P-CF-29	2/11/2017		DW									X									
SCE21117-P-CF-30	2/11/2017		DW									X									
SCE21117-P-CF-31	2/11/2017		DW									X									
SCE21117-P-CDF-32	2/11/2017		DW									X									

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

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Relinquished	Date/Time	Received	Date/Time
x Amanda M Gutzke	2/11/2017; 1045am	x	2/13/17 0943
Relinquished	Date/Time	Received	Date/Time
x		x	

TAT → SameDay^ NextDay^ 2 Day 3 Day STD

^Please coordinate with the lab in advance