

Coleman Creek Consulting, Inc.

DRINKING WATER SAMPLING OF PHOENIX ESD FACILITY 5465 S. PACIFIC HWY., PHOENIX, OREGON FOR SOUTHERN OREGON EDUCATION SERVICE DISTRICT

INTRODUCTION

Coleman Creek Consulting, Inc. (CCC) was retained by the Southern Oregon Education Service District (SOESD) to perform representative drinking water sampling of the Phoenix ESD Facility at the above address. The purpose of the drinking water sampling was to determine the concentration of lead and copper in representative drinking water sources and compare with regulatory standards.

DRINKING WATER SAMPLING

David W. Fawcett of CCC visited the Phoenix ESD Facility on June 12, 2018, accompanied by Mark Salter. Mr. Fawcett and Mr. Salter reviewed the drinking water sources in the main building, two-story building, and CCA building and selected five representative locations based on presumed utilization by building occupants. See Site Sample Record Sheet (page 3) for a description of the sample location areas. The drinking water samples were collected early in the morning, ensuring that the sampled sources had not been in use since the previous day. The samples were placed in a cooler and transported to Neilson Research Corporation for analysis.

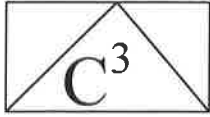
LEAD ANALYSIS/COMPARISON WITH REGULATORY LIMITS

The drinking water samples collected were analyzed for lead using EPA Method 200.8.

SAMPLE	DESCRIPTION/LOCATION	LEAD (mg/L)	ACTION LEVEL (mg/L)
18-078G.1	Hall fountain at Entrance	0.000551	0.015
18-078G.2	Break Room Sink	0.000852	0.015
18-078G.3	Transition Sink	0.00286	0.015
18-078G.4	Two-Story Kitchen Sink	0.0102	0.015
18-078G.5	CCA Sink in Main Room	0.00562	0.015

PRIMARY DRINKING WATER STANDARDS FOR LEAD

The Safe Drinking Water Act established National Primary Drinking Water Regulations for public drinking water systems. An "Action Level" for lead concentration in water was established at 0.015 mg/L. The public drinking water system must control for corrosiveness if more than 10% of tap water samples are reported above the Lead Action Level of 0.015 mg/L.



Coleman Creek Consulting, Inc.

COPPER ANALYSIS/COMPARISON WITH REGULATORY LIMITS

The drinking water samples collected were analyzed for copper using EPA Method 200.8.

SAMPLE	DESCRIPTION/LOCATION	COPPER (mg/L)	ACTION LEVEL (mg/L)
17-077G.1	Hall at Entrance	0.179	1.3
17-077G.2	Break Room Sink	0.0223	1.3
17-077G.3	Transition Sink	0.0482	1.3
17-077G.4	Two-Story Kitchen	0.00531	1.3
17-077G.5	CCA Sink in Main Room	0.0165	1.3

PRIMARY DRINKING WATER STANDARDS FOR COPPER

The Safe Drinking Water Act established National Primary Drinking Water Regulations for public drinking water systems. An "Action Level" for copper concentration in water was established at 1.3 mg/L. The public drinking water system must control for corrosiveness if more than 10% of tap water samples are reported above the Copper Action Level of 1.3 mg/L.

CONCLUSIONS

Five water samples were collected from representative drinking water sources at the Phoenix ESD buildings at a time ensuring the drinking water sources had not been used since the previous day. All five water samples were analyzed for lead and copper, and all were reported below the EPA Action Level of 0.015 mg/L Lead and 1.3 mg/L Copper.

RECOMMENDATIONS

Coleman Creek Consulting, Inc. has no recommendations for drinking water sampling at the Phoenix ESD Facility at this time. Coleman Creek Consulting, Inc. appreciates the opportunity to continue to perform environmental sampling and consulting services to Southern Oregon Education Service District.

David W. Fawcett
Director of Consulting Services



NEILSON RESEARCH CORPORATION

Environmental Testing Laboratory

6/18/2018

Dave Fawcett
Coleman Creek Consulting
810 Leonard St
Ashland, OR 97520

TEL: (541) 535-7108

FAX (541) 535-8795

RE: 18-078G Phoenix ESD

Order No.: 1806444

Dear Dave Fawcett:

Neilson Research Corporation received 5 sample(s) on 6/12/2018 for the analyses presented in the following report.

The results relate only to the parameters tested or to the sample as received by the laboratory. This report shall not be reproduced except in full, without the written approval of Neilson Research Corporation. If you have any questions regarding these test results, please feel free to call.

Sincerely,
Neilson Research Corporation

Tamra R. Schmedemann
Project Manager

Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

Analysis Report

ORELAP 100016
EPA OR00028

CLIENT: Coleman Creek Consulting
Project: 18-078G Phoenix ESD
Lab Order: 1806444

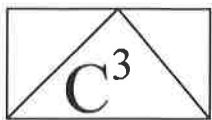
Date: 18-Jun-18

CASE NARRATIVE

The analyses were performed according to the guidelines in the Neilson Research Corporation Quality Assurance Program. This report contains analytical results for the sample(s) as received by the laboratory.

Neilson Research Corporation certifies that this report is in compliance with the requirements of NELAP. No unusual difficulties were experienced during analysis of this batch except as noted below or qualified with data flags on the reports.

The EPA recommended action level for lead in schools is 0.020 mg/L.



Coleman Creek Consulting, Inc.

DRINKING WATER LEAD/COPPER SAMPLE RECORD SHEET

FACILITY: Phoenix ESD
ADDRESS: 5465 S. Pacific Hwy.
Phoenix, Oregon

DATE: 06-12-18
SAMPLER: David W. Fawcett

SAMPLE #	SOURCE DESCRIPTION	LOCATION	COLLECTION TIME
18-078G.1	Drinking Fountain	Hall at Entrance	0506
18-078G.2	Sink Faucet	Break Room Sink	0510
18-078G.3	Sink Faucet	Transition Sink	0512
18-078G.4	Sink Faucet	Two-Story Kitchen	0516
18-078G.5	Sink Faucet	CCA Sink in Main Room	0525

Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

ORELAP 100016
EPA OR00028

Analysis Report

Coleman Creek Consulting

810 Leonard St
Ashland, OR 97520

Lab Order: **1806444**

Received Date: **6/12/2018 8:44:00 AM**

Reported Date: **6/18/2018 3:06:52 PM**

Sample Information: 18-078G Phoenix ESD

Lab ID: 1806444-01

Collection Date: 6/12/2018 5:06:00 AM
Matrix: DRINKING WATER

Client Sample ID: 18-078G.1
Source
Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: JWC	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
Copper	0.179		0.0005	mg/L	1	6/13/2018	A
Lead	0.000551		0.0001	mg/L	1	6/13/2018	A

Lab ID: 1806444-02

Collection Date: 6/12/2018 5:10:00 AM
Matrix: DRINKING WATER

Client Sample ID: 18-078G.2
Source
Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: JWC	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
Copper	0.0223		0.0005	mg/L	1	6/13/2018	A
Lead	0.000852		0.0001	mg/L	1	6/13/2018	A

Lab ID: 1806444-03

Collection Date: 6/12/2018 5:12:00 AM
Matrix: DRINKING WATER

Client Sample ID: 18-078G.3
Source
Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: JWC	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
Copper	0.0482		0.0005	mg/L	1	6/13/2018	A
Lead	0.00286		0.0001	mg/L	1	6/13/2018	A

Lab ID: 1806444-04

Collection Date: 6/12/2018 5:16:00 AM
Matrix: DRINKING WATER

Client Sample ID: 18-078G.4
Source
Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: JWC	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
Copper	0.00531		0.0005	mg/L	1	6/13/2018	A
Lead	0.0102		0.0001	mg/L	1	6/13/2018	A

Lab ID: 1806444-05

Collection Date: 6/12/2018 5:25:00 AM
Matrix: DRINKING WATER

Client Sample ID: 18-078G.5
Source
Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: JWC	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
Copper	0.0165		0.0005	mg/L	1	6/13/2018	A
Lead	0.00562		0.0001	mg/L	1	6/13/2018	A

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Minimum Reporting Limit |
| S Spike Recovery outside accepted recovery limits | |

Neilson Research Corporation

Date: 18-Jun-18

CLIENT: Coleman Creek Consulting
Work Order: 1806444
Project: 18-078G Phoenix ESD

ANALYTICAL QC SUMMARY REPORT

TestCode: ICPMS_200.8 SCHOOL

Sample ID	MB-41388	SampType:	MBLK	TestCode:	ICPMS_200.8	Units:	mg/L	Prep Date:	6/13/2018	RunNo:	104181
Client ID:	ZZZZZ	Batch ID:	41388	TestNo:	EPA 200.8	(EPA 200.8)		Analysis Date:	6/13/2018	SeqNo:	1578616
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper ND 0.000500
 Lead ND 0.000100

Sample ID	MB-41392	SampType:	MBLK	TestCode:	ICPMS_200.8	Units:	mg/L	Prep Date:	6/13/2018	RunNo:	104181
Client ID:	ZZZZZ	Batch ID:	41392	TestNo:	EPA 200.8	(EPA 200.8)		Analysis Date:	6/13/2018	SeqNo:	1578627
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper ND 0.000500
 Lead ND 0.000100

Sample ID	LCS-41388	SampType:	LCS	TestCode:	ICPMS_200.8	Units:	mg/L	Prep Date:	6/13/2018	RunNo:	104181
Client ID:	ZZZZZ	Batch ID:	41388	TestNo:	EPA 200.8	(EPA 200.8)		Analysis Date:	6/13/2018	SeqNo:	1578617
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper 0.09634 0.000500 0.1 0 96.3 85 115
 Lead 0.09622 0.000100 0.1 0.000013 96.2 85 115

Sample ID	LCS-41392	SampType:	LCS	TestCode:	ICPMS_200.8	Units:	mg/L	Prep Date:	6/13/2018	RunNo:	104181
Client ID:	ZZZZZ	Batch ID:	41392	TestNo:	EPA 200.8	(EPA 200.8)		Analysis Date:	6/13/2018	SeqNo:	1578628
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper 0.08951 0.000500 0.1 0.000026 89.5 85 115
 Lead 0.09364 0.000100 0.1 0.00001 93.6 85 115

Sample ID	1806390-01AMS	SampType:	MS	TestCode:	ICPMS_200.8	Units:	mg/L	Prep Date:	6/13/2018	RunNo:	104181
Client ID:	ZZZZZ	Batch ID:	41388	TestNo:	EPA 200.8	(EPA 200.8)		Analysis Date:	6/13/2018	SeqNo:	1578623
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Minimum Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Neilson Research Corporation

Date: 18-Jun-18

CLIENT: Coleman Creek Consulting
Work Order: 1806444
Project: 18-078G Phoenix ESD

ANALYTICAL QC SUMMARY REPORT

TestCode: ICPMS_200.8 SCHOOL

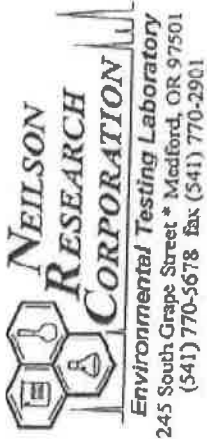
Sample ID	1806390-01AMS	SampType: MS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/13/2018	RunNo: 104181					
Client ID:	ZZZZZ	Batch ID: 41388	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/13/2018	SeqNo: 1578623					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.1814	0.000500	0.1	0.08747	94.0	70	130				
Lead	0.1035	0.000100	0.1	0.01457	88.9	70	130				

Sample ID	1806454-01AMS	SampType: MS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/13/2018	RunNo: 104181					
Client ID:	ZZZZZ	Batch ID: 41392	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/13/2018	SeqNo: 1578647					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.08603	0.000500	0.1	0.000906	85.1	70	130				
Lead	0.09231	0.000100	0.1	0.000141	92.2	70	130				

Sample ID	1806390-01AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/13/2018	RunNo: 104181					
Client ID:	ZZZZZ	Batch ID: 41388	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/13/2018	SeqNo: 1578624					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.1803	0.000500	0.1	0.08747	92.8	70	130	0.1814	0.656	20	
Lead	0.1007	0.000100	0.1	0.01457	86.2	70	130	0.1035	2.71	20	

Sample ID	1806454-01AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/13/2018	RunNo: 104181					
Client ID:	ZZZZZ	Batch ID: 41392	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/13/2018	SeqNo: 1578648					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.08677	0.000500	0.1	0.000906	85.9	70	130	0.08603	0.859	20	
Lead	0.09189	0.000100	0.1	0.000141	91.8	70	130	0.09231	0.454	20	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Minimum Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



Chain of Custody Record

This Chain of Custody is a LEGAL DOCUMENT and must be filled out accurately.

Section A
Required Client Information
 Company: Coleman Creek Consulting
 Address: 810 Leonard St
 Ashland, OR 97520
 Email: fawbro@ccoountry.net
 Phone: (541) 535-7108 Fax: (541) 535-8795
 Collected By (Print): David Fawcett
 Collected By (Sign): *[Signature]*
 Email Report Yes No Mail Report Yes No
 Fax Report Yes No

Section B
Required Project Information
 Project Name: Phoenix FSD
 Project Number: 18-0789
 Report To:
 Copy To:

Section C
Invoice Information
 Attention:
 Company Name:
 Address:
 P.O. #

Section D
Rush Status (Subject to Scheduling)
 Standard 10-14 Days
 5 Business Days (50% surcharge)
 3 Business Days (75% surcharge)
 24 - 48 hours (100% surcharge)
 Other _____
 Authorized Yes No

Section E
Sample Information

Sample ID	Compt/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	Analysis Requested	NRC Workorder # (Lab Use Only)	NRC Sample # (Lab Use Only)
18-0789-1	Grab	DW	6-12-18	0506	1	XXXXX Pb/Cu	1809444	01A
2	↓	↓	↓	0510	1			02A
3	↓	↓	↓	0512	1			03A
4	↓	↓	↓	0516	1			04A
5	↓	↓	↓	0525	1			05A

*Matrix: DW - Drinking Water WW - Wastewater W - Water S - Soil/Solid SL - Sludge O - Oil WP - Wipe OT - Other

Section F
Relinquish/Receive
 Relinquished By: *[Signature]* Sign
 Received By: David Fawcett
 Relinquished By:
 Received By:
 Relinquished By:
 Received By Laboratory: *[Signature]*

Section G
Lab Use Only
 Temp: *4.0* °C
 4°C +/- 2°C: Yes No
 Received on Ice: Yes No
 Number of Bottles Received: *5*
 pH Checked:
 COC Seals Intact: Yes No
 Field Blank Included: Yes No
 UPS FedEx Other Hand
 Payment: Invoice Cash VISA M/C Check # _____ Amount _____