

Coleman Creek Consulting, Inc.

DRINKING WATER LEAD/COPPER SAMPLING OF EARLY EDUCATION FACILITY 1021 NW HIGHLAND, GRANTS PASS, 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 lead drinking water sampling of the Early Education Facility buildings the above address. The purpose of the lead/copper drinking water sampling was to determine the concentration of lead in representative drinking water sources and compare with regulatory standards.

DRINKING WATER SAMPLING

David W. Fawcett of CCC visited the Early Education Facility on June 12, 2018, accompanied by Mark Salter. Mr. Fawcett and Mr. Salter reviewed the building drinking water sources, and selected six representative locations based on presumed utilization by building occupants. Mr. Fawcett collected lead drinking water samples from the classrooms, office area, bungalow, and outside. 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 lead and copper analysis.

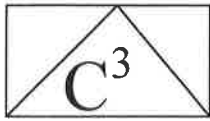
LEAD ANALYSIS/COMPARISON WITH REGULATORY LIMITS

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.11	Upper Kitchen Drinking Spout	0.000761	0.015
18-078G.12	Bungalow Bath Sink	0.00123	0.015
18-078G.13	Red Classroom Drinking Fountain	0.00121	0.015
18-078G.14	Purple Classroom Drinking Fountain	0.000447	0.015
18-078G.15	Drinking Fountain Outside Playground	0.000279	0.015
18-078G.16	Upstairs Kitchen Sink Faucet	0.000819	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



Coleman Creek Consulting, Inc.

mg/L. The public drinking water system must control for corrosiveness if more than 10% or tap water samples are reported above the Lead Action Level of 0.015 mg/L.

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)
18-078G.11	Upper Kitchen Drinking Spout	0.00518	1.3
18-078G.12	Bungalow Bath Sink	0.0196	1.3
18-078G.13	Red Class Drinking Fountain	0.273	1.3
18-078G.14	Purple Class Drinking Fountain	0.665	1.3
18-078G.15	Fountain Outside Playground	0.487	1.3
18-078G.16	Upstairs Kitchen Sink Faucet	0.0431	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.

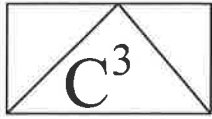
CONCLUSIONS

Six water samples were collected from representative drinking water sources at the Early Education Facility at a time ensuring the drinking water sources had not been used since the previous day. All six 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 lead and copper drinking water sampling at the Early Education 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



Coleman Creek Consulting, Inc.

DRINKING WATER LEAD/COPPER SAMPLE RECORD SHEET

FACILITY: Gilbert Creek Early Education
ADDRESS: 1021 NW Highland
Grants Pass, Oregon

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

Bungalow – Office Bathroom

SAMPLE #	SOURCE DESCRIPTION	LOCATION	COLLECTION TIME
18-078G.11	Sink Faucet	Upstairs Kitchen Drinking Spout	0652
18-078G.12	Sink Faucet	Bungalow – Office Bathroom	0657
18-078G.13	Drinking Fountain	Red Classroom	0701
18-078G.14	Drinking Fountain	Purple Classroom	0703
18-078G.15	Sink Faucet	Outside at Playground	0706
18-078G.16	Sink Faucet	Upstairs Kitchen Faucet	0710



NEILSON RESEARCH CORPORATION

Environmental Testing Laboratory

6/22/2018

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

TEL: (541) 535-7108

FAX (541) 535-8795

RE: 18-078G Early Education

Order No.: 1806452

Dear Dave Fawcett:

Neilson Research Corporation received 6 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 Early Education
Lab Order: 1806452

Date: 22-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.

Neilson Research Corporation

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ORELAP 100016
EPA OR00028

Analysis Report

Coleman Creek Consulting

810 Leonard St
Ashland, OR 97520

Lab Order: **1806452**

Received Date: **6/12/2018 8:48:00 AM**

Reported Date: **6/22/2018 2:11:38 PM**

Sample Information: 18-078G Early Education

Lab ID: 1806452-01

Collection Date: 6/12/2018 6:52:00 AM

Matrix: DRINKING WATER

Client Sample ID: 18-078G-11

Source

Sample Location:

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: JWC	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
Copper	0.00518		0.0005	mg/L	1	6/13/2018	A
Lead	0.000761		0.0001	mg/L	1	6/13/2018	A

Lab ID: 1806452-02

Collection Date: 6/12/2018 6:57:00 AM

Matrix: DRINKING WATER

Client Sample ID: 18-078G-12

Source

Sample Location:

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: JWC	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
Copper	0.0196		0.0005	mg/L	1	6/13/2018	A
Lead	0.00123		0.0001	mg/L	1	6/13/2018	A

Lab ID: 1806452-03

Collection Date: 6/12/2018 7:01:00 AM

Matrix: DRINKING WATER

Client Sample ID: 18-078G-13

Source

Sample Location:

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: JWC	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
Copper	0.273		0.0005	mg/L	1	6/13/2018	A
Lead	0.00121		0.0001	mg/L	1	6/13/2018	A

Lab ID: 1806452-04

Collection Date: 6/12/2018 7:03:00 AM

Matrix: DRINKING WATER

Client Sample ID: 18-078G-14

Source

Sample Location:

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: JWC	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
Copper	0.665		0.0005	mg/L	1	6/13/2018	A
Lead	0.000447		0.0001	mg/L	1	6/13/2018	A

Lab ID: 1806452-05

Collection Date: 6/12/2018 7:06:00 AM

Matrix: DRINKING WATER

Client Sample ID: 18-078G-15

Source

Sample Location:

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: JWC	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
Copper	0.487		0.0005	mg/L	1	6/13/2018	A
Lead	0.000279		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

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

Analysis Report

ORELAP 100016
EPA OR00028

Coleman Creek Consulting

810 Leonard St
Ashland, OR 97520

Lab Order: **1806452**

Received Date: **6/12/2018 8:48:00 AM**

Reported Date: **6/22/2018 2:11:38 PM**

Sample Information: 18-078G Early Education

Lab ID: 1806452-06

Collection Date: 6/12/2018 7:10:00 AM

Matrix: DRINKING WATER

Client Sample ID: 18-078G-16

Source

Sample Location:

Trace Metals by EPA 200.8 ICP-MS

Analyses	Result	Qual	MRL	Units	Dilution Factor	Analyst: JWC Date Analyzed	NELAP Accredited
Copper	0.0431		0.0005	mg/L	1	6/13/2018	A
Lead	0.000819		0.0001	mg/L	1	6/13/2018	A

Qualifiers:

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

Neilson Research Corporation

Date: 22-Jun-18

CLIENT: Coleman Creek Consulting
 Work Order: 1806452

Project: 18-078G Early Education

ANALYTICAL QC SUMMARY REPORT

TestCode: ICPMS_200.8 SCHOOL

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-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	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	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
 ND Not Detected at the Minimum Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation 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@ccoounty.net
 Phone: (541) 535-7108 Fax (541) 535-8795
 Collected By (Print): David Fawcett
 Collected By (Sign): *David Fawcett*
 Email Report Yes No Mail Report Yes No
 Fax Report Yes No

Section B
Required Project Information
 Project Name: Early Education
 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	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	Analysis Requested	Remarks/Field Data (Lab Use Only)	NRC Sample # (Lab Use Only)
18-0789-11	Grab	W	6-12-18	0652	1			1806452
12				0657	1			01
13				0701	1			02
14				0702	1			03
15				0706	1			04
16				0710	1			05
								06

*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: *David Fawcett* Sign
 Received By: *Naomi Or*
 Relinquished By:
 Received By:
 Relinquished By:
 Received By Laboratory: *Naomi Or*

Section G
Lab Use Only
 Temp: *10.6*
 4°C +/- 2°C: Yes No
 Received on Ice: Yes No
 Number of Bottles Received: *6*
 pH Checked:
 COC Seals Intact: Yes No
 Field Blank Included: Yes No
 Payment: Invoice Cash VISA M/C Check # _____
 Received Via UPS FedEx Other Hand Amount _____