

Coleman Creek Consulting, Inc.

DRINKING WATER LEAD/COPPER SAMPLING OF KLAMATH FALLS ESD FACILITY 2685 FOOTHILLS BLVD, KLAMATH FALLS, 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 and copper drinking water sampling of the Klamath Falls ESD Facility at the above address. The purpose of the lead and copper 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 Klamath Falls ESD Facility on June 15, 2018, and met Susan Mostar. Mr. Fawcett collected a lead and copper drinking water sample from the hall drinking fountain. See Site Sample Record Sheet (page 3) for a description of the sample location area. The drinking water sample was collected in the morning, ensuring that the sample source had not been in use since the previous day. The sample was placed in a cooler and transported to Neilson Research Corporation for lead analysis.

LEAD ANALYSIS/COMPARISON WITH REGULATORY LIMITS

The drinking water sample collected was analyzed for lead using EPA Method 200.8.

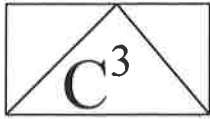
SAMPLE	DESCRIPTION/LOCATION	LEAD (mg/L)	ACTION LEVEL (mg/L)
18-078G.18	Front Hall Drinking Fountain	0.00136	0.015

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 Action Level of 0.015 mg/L.

COPPER ANALYSIS/COMPARISON WITH REGULATORY LIMITS

The drinking water sample collected was analyzed for copper using EPA Method 200.8.



Coleman Creek Consulting, Inc.

SAMPLE	DESCRIPTION/LOCATION	COPPER (mg/L)	ACTION LEVEL (mg/L)
18-078G.18	Front Hall Drinking Fountain	0.0146	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.

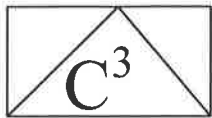
CONCLUSIONS

One water sample was collected from a representative drinking water source at the Klamath Falls ESD Facility at a time ensuring the drinking water source had been minimally in use. The water sample was analyzed for lead and copper, and was 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 Klamath Falls 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



Coleman Creek Consulting, Inc.

DRINKING WATER LEAD/COPPER SAMPLE RECORD SHEET

FACILITY: Klamath Falls ESD Facility
ADDRESS: 2685 Foothills Blvd.
Klamath Falls, Oregon

DATE: 06-15-18
SAMPLER: David W. Fawcett

SAMPLE #	SOURCE DESCRIPTION	LOCATION	COLLECTION TIME
18-078G.18	Drinking Fountain	Front Hall	0710



NEILSON RESEARCH CORPORATION

Environmental Testing Laboratory

6/26/2018

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

TEL: (541) 535-7108

FAX (541) 535-8795

RE: 18-078G Klamath ESD

Order No.: 1806672

Dear Dave Fawcett:

Neilson Research Corporation received 1 sample(s) on 6/15/2018 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 Klamath ESD
Lab Order: 1806672

Date: 26-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

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: **1806672**

Received Date: **6/15/2018 12:56:00 PM**

Reported Date: **6/26/2018 2:52:47 PM**

Sample Information: 18-078G Klamath ESD

Lab ID: 1806672-01

Collection Date: 6/15/2018 7:10:00 AM

Matrix: DRINKING WATER

Client Sample ID: 18-078G.18

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	0.0146		0.0005	mg/L	1	6/19/2018	A
Lead	0.00136		0.0001	mg/L	1	6/19/2018	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: 26-Jun-18

CLIENT: Coleman Creek Consulting
Work Order: 1806672
Project: 18-078G Klamath ESD

ANALYTICAL QC SUMMARY REPORT

TestCode: ICPMS_200.8 SCHOOL

Sample ID **MB-41430** SampType: **MBLK** TestCode: **ICPMS_200.8** Units: **mg/L** Prep Date: **6/18/2018** RunNo: **104297**
 Client ID: **ZZZZZ** Batch ID: **41430** TestNo: **EPA 200.8** (EPA 200.8) Analysis Date: **6/19/2018** SeqNo: **1580734**
 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-41430** SampType: **LCS** TestCode: **ICPMS_200.8** Units: **mg/L** Prep Date: **6/18/2018** RunNo: **104297**
 Client ID: **ZZZZZ** Batch ID: **41430** TestNo: **EPA 200.8** (EPA 200.8) Analysis Date: **6/19/2018** SeqNo: **1580735**
 Analyte Result MRL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Copper 0.09706 0.000500 0.1 0 97.1 85 115
 Lead 0.1017 0.000100 0.1 0 102 85 115

Sample ID **1806660-21AMS** SampType: **MS** TestCode: **ICPMS_200.8** Units: **mg/L** Prep Date: **6/18/2018** RunNo: **104297**
 Client ID: **ZZZZZ** Batch ID: **41430** TestNo: **EPA 200.8** (EPA 200.8) Analysis Date: **6/19/2018** SeqNo: **1580740**
 Analyte Result MRL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Copper 0.1009 0.000500 0.1 0.004461 96.4 70 130
 Lead 0.1025 0.000100 0.1 0.001498 101 70 130

Sample ID **1806660-21AMSD** SampType: **MSD** TestCode: **ICPMS_200.8** Units: **mg/L** Prep Date: **6/18/2018** RunNo: **104297**
 Client ID: **ZZZZZ** Batch ID: **41430** TestNo: **EPA 200.8** (EPA 200.8) Analysis Date: **6/19/2018** SeqNo: **1580741**
 Analyte Result MRL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Copper 0.1008 0.000500 0.1 0.004461 96.4 70 130 0.1009 0.0853 20
 Lead 0.1035 0.000100 0.1 0.001498 102 70 130 0.1025 1.02 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

