

Coleman Creek Consulting, Inc.

DRINKING WATER LEAD 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 lead and copper drinking water sampling of the Phoenix 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. In 2017, Education Service Districts were required to adopt a Healthy and Safe Schools Plan, including provisions for testing and reducing exposure to elevated levels of lead in water used for drinking and food preparation.

LEAD DRINKING WATER SAMPLING REQUIREMENTS

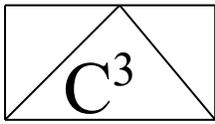
Guidelines for sampling lead in water were established by the Oregon Health Authority. Water sampling is to occur after water sits overnight in the pipes without being used, and must be sampled after a day occupied by students or building occupants. All water sources are to be sampled, with the exception of water used for heating, sanitation, irrigation, and science sinks for grades 6 and up with non-potable water signs. Initial testing is required to be performed by 2020, and every 6 years thereafter, according to a testing schedule determined by the Oregon Department of Education.

DRINKING WATER SAMPLING

David W. Fawcett of CCC visited the Phoenix ESD Facility on October 5, 2019. Mr. Fawcett returned to the Phoenix ESD facility October 19, 2019, and completed sampling in the Main Building after repair to the hot water system was completed. Mr. Fawcett collected a lead and copper drinking water sample from the drinking water sources identified in the facility. See Site Sample Record Sheets (pages 3-4) for a description of the drinking water sources sampled. See Drinking Water Sample Location Diagram in Appendix A for a visual review of all drinking water sample locations. The drinking water samples were collected in the early 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.

DRINKING WATER LEAD RESULTS AND TESTING SUMMARY SHEET

The thirty-two drinking water samples collected were analyzed for lead using EPA Method 200.8. See Neilson Research Corporation Analytical Report in Appendix B. Drinking Water Testing Summary Sheets (pages 5-7) indicate the lead in drinking water concentrations for thirty-one of the samples



Coleman Creek Consulting, Inc.

collected were reported ranging from 0.171 to 14.0 parts per billion (ppb). The TC-2 Building South Kitchen sink water sample was reported with 52.0 ppm, which is above the 15 ppb lead action level.

TC-2 BUILDING SOUTH KITCHEN SINK FAUCET REMOVAL

The TC-2 Building South kitchen sink faucet was capped and removed from service.

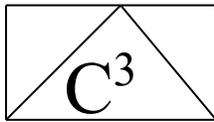
CONCLUSIONS

Thirty drinking water samples were collected from drinking water sources at the Phoenix ESD Facility prior to use that day by building occupants, and after a day the facility was occupied. The lead concentrations reported were all below the 15 ppb lead action level in water, with the exception of the TC-2 Building South kitchen sink faucet that was reported with 52.0 ppb lead, and subsequently capped and permanently removed from service.

RECOMMENDATIONS

Coleman Creek Consulting, Inc. recommends future drinking water sampling at the Phoenix ESD Facility according to the schedule set out by the Oregon Department of Education. 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



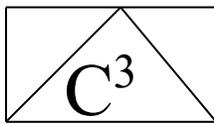
Coleman Creek Consulting, Inc.

DRINKING WATER LEAD/COPPER SAMPLE RECORD SHEET

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

DATE: 10-05-19
SAMPLER: David W. Fawcett

SAMPLE #	SOURCE DESCRIPTION	LOCATION	COLLECTION TIME
19-104G.P1	Sink Faucet	Autism Center Hall	0925
19-104G.P2	Sink Faucet	Autism Center Bath	0928
19-104G.P3	Sink Faucet	2-Story Building Upper Level Bath	0933
19-104G.P4	Sink Faucet	2-Story Building North Kitchen	0936
19-104G.P5	Sink Faucet	2-Story Building North Bath Cold Water	0940
19-104G.P6	Sink Faucet	2-Story Building North Bath Hot Water	0941
19-104G.P7	Sink Faucet	2-Story Building South Bath Cold Water	0945
19-104G.P8	Sink Faucet	2-Story Building South Bath Hot Water	0946
19-104G.P9	Sink Faucet	2-Story Building South Kitchen	0950



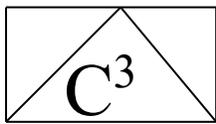
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DRINKING WATER LEAD/COPPER SAMPLE RECORD SHEET

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

DATE: 10-19-19
SAMPLER: David W. Fawcett

SAMPLE #	SOURCE DESCRIPTION	LOCATION	COLLECTION TIME
19-104G.P10	Sink Faucet	Transition Kitchen	0910
19-104G.P11	Sink Faucet	Transition Bath	0915
19-104G.P12	Sink Faucet	Transition Office	0917
19-104G.P13	Sink Faucet	Room 1 Bath	0919
19-104G.P14	Sink Faucet	Room 4 Bath	0922
19-104G.P15	Sink Faucet	Room 6 Bath	0924
19-104G.P16	Sink Faucet	Public Bathroom at Room 9	0926
19-104G.P17	Sink Faucet	Staff Kitchen	0928
19-104G.P18	Sink Faucet	Staff Kitchen Instahot	0929
19-104G.P19	Sink Faucet	Room 12 Bath	0933
19-104G.P20	Sink Faucet	Room 13 Bath	0935
19-104G.P21	Sink Faucet	Room 15 Bath	0936
19-104G.P22	Sink Faucet	Room 16 Bath	0938
19-104G.P23	Sink Faucet	Room 17 Bath	0939
19-104G.P24	Sink Faucet	Room 18 Bath	0942
19-104G.P25	Sink Faucet	Room 19 Bath	0943
19-104G.P26	Sink Faucet	Women's Main Restroom Right Sink	0945
19-104G.P27	Sink Faucet	Women's Main Restroom Left Sink	0946
19-104G.P28	Sink Faucet	Men's Main Restroom	1001
19-104G.P29	Sink Faucet	Room 23 Bath	1005
19-104G.P30	Sink Faucet	Room 24 Bath	1008
19-104G.P31	Sink Faucet	Room 25 Bath	1011
19-104G.P32	Sink Faucet	Transition Playroom Sink	1015



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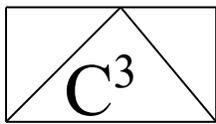
DRINKING WATER TESTING SUMMARY SHEET

DISTRICT NAME: Southern Oregon Education Service District
 DISTRICT ID#: 2025
 SCHOOL NAME: Phoenix Office
 BUILDING NAME: Main Building TC-1
 BUILDING ID#: 20250001

Sample Number	Fixture Location Description	Fixture ID#	Test Date	Test Result (ppb)	# Retest	Final Result (ppb)
19-104G.P10	Transition Kitchen Sink	KF	10-19-19	1.05		
19-104G.P11	Transition Bath Sink	BF	10-19-19	1.11		
19-104G.P12	Transition Office Sink	SF	10-19-19	7.15		
19-104G.P13	Room 1 Bath Sink	BF	10-19-19	2.4		
19-104G.P14	Room 4 Bath Sink	BF	10-19-19	5.47		
19-104G.P15	Room 6 Bath Sink	BF	10-19-19	4.36		
19-104G.P16	Public Bath at Room 9	BF	10-19-19	6.48		
19-104G.P17	Staff Kitchen Faucet	SF	10-19-19	1.04		
19-104G.P18	Staff Kitchen Instahot	OT	10-19-19	0.171		
19-104G.P19	Room 12 Bath Sink	BF	10-19-19	1.58		
19-104G.P20	Room 13 Bath Sink	BF	10-19-19	6.13		
19-104G.P21	Room 15 Bath Sink	BF	10-19-19	5.36		
19-104G.P22	Room 16 Bath Sink	BF	10-19-19	7.01		
19-104G.P23	Room 17 Bath Sink	BF	10-19-19	2.25		
19-104G.P24	Room 18 Bath Sink	BF	10-19-19	1.84		
19-104G.P25	Room 19 Bath Sink	BF	10-19-19	8.38		
19-104G.P26	Women's RR, Right Sink	BF	10-19-19	2.23		
19-104G.P27	Women's RR, Left Sink	BF	10-19-19	1.63		
19-104G.P28	Men's Main RR Sink	BF	10-19-19	0.679		
19-104G.P29	Room 23 Bath Sink	BF	10-19-19	4.62		
19-104G.P30	Room 24 Bath Sink	BF	10-19-19	2.25		
19-104G.P31	Room 25 Bath Sink	BF	10-19-19	4.96		
19-104G.P32	Transition Playroom Sink	CF	10-19-19	5.23		

Fixture ID Coding:

DW = Drinking Water Fountain WC = Water Cooler WB = Water Bottle Filler
 CF = Classroom Faucet BF = Bathroom Faucet SF = Staff/Office Faucet
 KF = Kitchen/Food Prep OS = Outside Spigot OT = Other (Specify)



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DRINKING WATER TESTING SUMMARY SHEET

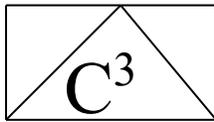
DISTRICT NAME: Southern Oregon Education Service District
 DISTRICT ID#: 2025
 SCHOOL NAME: Phoenix Office
 BUILDING NAME: Building TC-2
 BUILDING ID#: 20250002

Sample Number	Fixture Location Description	Fixture ID#	Test Date	Test Result (ppb)	# Retest	Final Result (ppb)
19-104G.P3	Upper Level Bath Sink	KF	10-05-19	2.46		
19-104G.P4	North Kitchen Sink	BF	10-05-19	3.39		
19-104G.P5	North Bath Sink, Cold	SF	10-05-19	14.0		
19-104G.P6	North Bath Sink, Hot	BF	10-05-19	0.711		
19-104G.P7	South Bath Sink, Cold	BF	10-05-19	1.69		
19-104G.P8	South Bath Sink, Hot	BF	10-05-19	2.94		
19-104G.P9	South Kitchen Sink	CF	10-05-19	52.0**		

Fixture ID Coding:

DW = Drinking Water Fountain WC = Water Cooler WB = Water Bottle Filler
 CF = Classroom Faucet BF = Bathroom Faucet SF = Staff/Office Faucet
 KF = Kitchen/Food Prep OS = Outside Spigot OT = Other (Specify)

**Indicates fixture capped and removed from service



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DRINKING WATER TESTING SUMMARY SHEET

DISTRICT NAME: Southern Oregon Education Service District
DISTRICT ID#: 2025
SCHOOL NAME: Phoenix Office
BUILDING NAME: Autism Building TC-3
BUILDING ID#: 20250003

Sample Number	Fixture Location Description	Fixture ID#	Test Date	Test Result (ppb)	# Retest	Final Result (ppb)
19-104G.P1	Hall Sink	SF	10-05-19	4.51		
19-104G.P2	Hall Bath Sink	BF	10-05-19	2.85		

Fixture ID Coding:

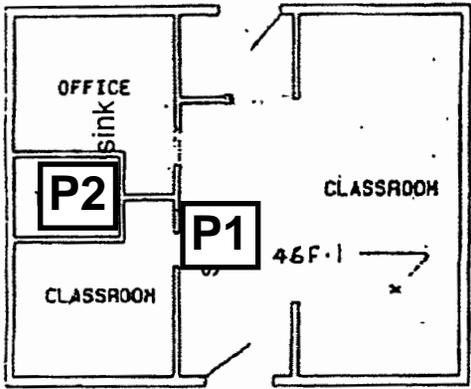
DW = Drinking Water Fountain WC = Water Cooler WB = Water Bottle Filler
CF = Classroom Faucet BF = Bathroom Faucet SF = Staff/Office Faucet
KF = Kitchen/Food Prep OS = Outside Spigot OT = Other (Specify)

APPENDIX A

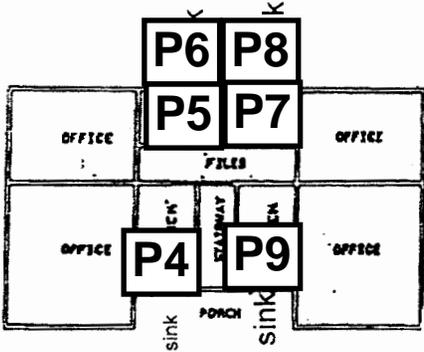
**DRINKING WATER SAMPLE LOCATION
DIAGRAM**

DRINKING WATER SAMPLE LOCATION DIAGRAM

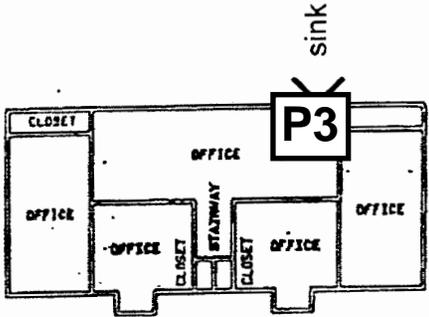
Phoenix TC-2 and TC-3 Buildings, 5465 S. Pacific Hwy., Phoenix



TC-3



TC-2 DOWN



TC-2 UPSTAIRS

LEGEND:

P3 = Drinking Water Sample Location

APPENDIX B

**NEILSON RESEARCH CORPORATION
ANALYTICAL REPORT**



Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

October 28, 2019

Dave Fawcett
Coleman Creek Consulting
810 Leonard St
Ashland, OR 97520
TEL: (541) 535-7108
FAX: (541) 535-8795

RE: 19-104G SOESD-Phoenix

Order No.: 19100947

Dear Dave Fawcett:

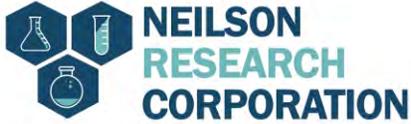
Neilson Research Corporation received 23 sample(s) on 10/21/2019 for the analyses presented in the following report.

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 Schmedemann
Senior Project Manager
245 S Grape St
Medford, OR 97501

Original



Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Case Narrative

WO#: 19100947
Date: 10/28/2019

CLIENT: Coleman Creek Consulting

Project: 19-104G SOESD-Phoenix

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.

Original



Neilson Research Corporation
 245 S Grape St
 Medford, OR 97501
 TEL: (541) 770-5678 FAX: (541) 770-2901
 Website: www.nrclabs.com

Analytical Report

WO#: 19100947
 Date Reported: 10/28/2019

Coleman Creek Consulting
 810 Leonard St
 Ashland, OR 97520

Lab Order: 19100947
Received Date: 10/21/2019 3:39:00 PM
Reported Date: 10/28/2019 11:22:45 AM

Sample Information:

Lab ID: 19100947-01 Client Sample ID: 19-104G.P10
 Collection Date: 10/19/2019 9:10:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	53.5		0.515	µg/L	1	10/22/2019	1300	A	
Lead	1.05		0.103	µg/L	1	10/22/2019	15.0	A	

Lab ID: 19100947-02 Client Sample ID: 19-104G.P11
 Collection Date: 10/19/2019 9:15:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	15.2		0.515	µg/L	1	10/22/2019	1300	A	
Lead	1.11		0.103	µg/L	1	10/22/2019	15.0	A	

Lab ID: 19100947-03 Client Sample ID: 19-104G.P12
 Collection Date: 10/19/2019 9:17:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	45.9		0.515	µg/L	1	10/22/2019	1300	A	
Lead	7.15		0.103	µg/L	1	10/22/2019	15.0	A	

- | | | |
|-------------------|--|--|
| QUALIFIERS | * Value exceeds Maximum Contaminant Level. | C1 Sample container temperature is out of limit as specified at testcode |
| | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| | J Analyte detected below quantitation limits | MI Recovery outside control limits due to Matrix Interference |
| | ND Not Detected at the Reporting Limit | PL Permit Limit |
| | R RPD outside accepted recovery limits | |

Original



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Analytical Report

WO#: 19100947
 Date Reported: 10/28/2019

Coleman Creek Consulting
 810 Leonard St
 Ashland, OR 97520

Lab Order: 19100947
Received Date: 10/21/2019 3:39:00 PM
Reported Date: 10/28/2019 11:22:45 AM

Sample Information:

Lab ID: 19100947-04 Client Sample ID: 19-104G.P13
 Collection Date: 10/19/2019 9:19:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	5.07		0.515	µg/L	1	10/22/2019	1300	A	
Lead	2.40		0.103	µg/L	1	10/22/2019	15.0	A	

Lab ID: 19100947-05 Client Sample ID: 19-104G.P14
 Collection Date: 10/19/2019 9:22:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	48.2		0.515	µg/L	1	10/22/2019	1300	A	
Lead	5.47		0.103	µg/L	1	10/22/2019	15.0	A	

Lab ID: 19100947-06 Client Sample ID: 19-104G.P15
 Collection Date: 10/19/2019 9:24:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	26.4		0.515	µg/L	1	10/22/2019	1300	A	
Lead	4.36		0.103	µg/L	1	10/22/2019	15.0	A	

- | | | |
|-------------------|--|--|
| QUALIFIERS | * Value exceeds Maximum Contaminant Level. | C1 Sample container temperature is out of limit as specified at testcode |
| | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| | J Analyte detected below quantitation limits | MI Recovery outside control limits due to Matrix Interference |
| | ND Not Detected at the Reporting Limit | PL Permit Limit |
| | R RPD outside accepted recovery limits | |

Original



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Analytical Report

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 Date Reported: 10/28/2019

Coleman Creek Consulting
 810 Leonard St
 Ashland, OR 97520

Lab Order: 19100947
Received Date: 10/21/2019 3:39:00 PM
Reported Date: 10/28/2019 11:22:45 AM

Sample Information:

Lab ID: 19100947-07 Client Sample ID: 19-104G.P16
 Collection Date: 10/19/2019 9:26:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	35.4		0.515	µg/L	1	10/22/2019	1300	A	
Lead	6.48		0.103	µg/L	1	10/22/2019	15.0	A	

Lab ID: 19100947-08 Client Sample ID: 19-104G.P17
 Collection Date: 10/19/2019 9:28:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

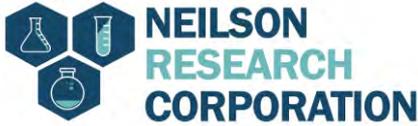
Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	102		0.515	µg/L	1	10/22/2019	1300	A	
Lead	1.04		0.103	µg/L	1	10/22/2019	15.0	A	

Lab ID: 19100947-09 Client Sample ID: 19-104G.P18
 Collection Date: 10/19/2019 9:29:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	23.1		0.515	µg/L	1	10/22/2019	1300	A	
Lead	0.171		0.103	µg/L	1	10/22/2019	15.0	A	

- | | | |
|-------------------|--|--|
| QUALIFIERS | * Value exceeds Maximum Contaminant Level. | C1 Sample container temperature is out of limit as specified at testcode |
| | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| | J Analyte detected below quantitation limits | MI Recovery outside control limits due to Matrix Interference |
| | ND Not Detected at the Reporting Limit | PL Permit Limit |
| | R RPD outside accepted recovery limits | |

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 Date Reported: 10/28/2019

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 810 Leonard St
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Lab Order: 19100947
Received Date: 10/21/2019 3:39:00 PM
Reported Date: 10/28/2019 11:22:45 AM

Sample Information:

Lab ID: 19100947-10 Client Sample ID: 19-104G.P19
 Collection Date: 10/19/2019 9:33:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	27.2		0.515	µg/L	1	10/22/2019	1300	A	
Lead	1.58		0.103	µg/L	1	10/22/2019	15.0	A	

Lab ID: 19100947-11 Client Sample ID: 19-104G.P20
 Collection Date: 10/19/2019 9:35:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	13.6		0.515	µg/L	1	10/23/2019	1300	A	
Lead	6.13		0.103	µg/L	1	10/23/2019	15.0	A	

Lab ID: 19100947-12 Client Sample ID: 19-104G.P21
 Collection Date: 10/19/2019 9:36:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	36.2		0.515	µg/L	1	10/23/2019	1300	A	
Lead	5.36		0.103	µg/L	1	10/23/2019	15.0	A	

- | | | |
|-------------------|--|--|
| QUALIFIERS | * Value exceeds Maximum Contaminant Level. | C1 Sample container temperature is out of limit as specified at testcode |
| | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| | J Analyte detected below quantitation limits | MI Recovery outside control limits due to Matrix Interference |
| | ND Not Detected at the Reporting Limit | PL Permit Limit |
| | R RPD outside accepted recovery limits | |

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Analytical Report

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Coleman Creek Consulting
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 Ashland, OR 97520

Lab Order: 19100947
Received Date: 10/21/2019 3:39:00 PM
Reported Date: 10/28/2019 11:22:45 AM

Sample Information:

Lab ID: 19100947-13 Client Sample ID: 19-104G.P22
 Collection Date: 10/19/2019 9:38:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	20.3		0.515	µg/L	1	10/23/2019	1300	A	
Lead	7.01		0.103	µg/L	1	10/23/2019	15.0	A	

Lab ID: 19100947-14 Client Sample ID: 19-104G.P23
 Collection Date: 10/19/2019 9:39:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	33.1		0.515	µg/L	1	10/23/2019	1300	A	
Lead	2.25		0.103	µg/L	1	10/23/2019	15.0	A	

Lab ID: 19100947-15 Client Sample ID: 19-104G.P24
 Collection Date: 10/19/2019 9:42:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	13.9		0.515	µg/L	1	10/23/2019	1300	A	
Lead	1.84		0.103	µg/L	1	10/23/2019	15.0	A	

- | | | |
|-------------------|--|--|
| QUALIFIERS | * Value exceeds Maximum Contaminant Level. | C1 Sample container temperature is out of limit as specified at testcode |
| | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| | J Analyte detected below quantitation limits | MI Recovery outside control limits due to Matrix Interference |
| | ND Not Detected at the Reporting Limit | PL Permit Limit |
| | R RPD outside accepted recovery limits | |

Original



Neilson Research Corporation
 245 S Grape St
 Medford, OR 97501
 TEL: (541) 770-5678 FAX: (541) 770-2901
 Website: www.nrclabs.com

Analytical Report

WO#: 19100947
 Date Reported: 10/28/2019

Coleman Creek Consulting
 810 Leonard St
 Ashland, OR 97520

Lab Order: 19100947
Received Date: 10/21/2019 3:39:00 PM
Reported Date: 10/28/2019 11:22:45 AM

Sample Information:

Lab ID: 19100947-16 Client Sample ID: 19-104G.P25
 Collection Date: 10/19/2019 9:43:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	8.79		0.515	µg/L	1	10/23/2019	1300	A	
Lead	8.38		0.103	µg/L	1	10/23/2019	15.0	A	

Lab ID: 19100947-17 Client Sample ID: 19-104G.P26
 Collection Date: 10/19/2019 9:45:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	162		0.515	µg/L	1	10/23/2019	1300	A	
Lead	2.23		0.103	µg/L	1	10/23/2019	15.0	A	

Lab ID: 19100947-18 Client Sample ID: 19-104G.P27
 Collection Date: 10/19/2019 9:46:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst; SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	517		0.515	µg/L	1	10/23/2019	1300	A	
Lead	1.63		0.103	µg/L	1	10/23/2019	15.0	A	

QUALIFIERS	* Value exceeds Maximum Contaminant Level.	C1 Sample container temperature is out of limit as specified at testcode
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	MI Recovery outside control limits due to Matrix Interference
	ND Not Detected at the Reporting Limit	PL Permit Limit
	R RPD outside accepted recovery limits	

Original



Neilson Research Corporation
 245 S Grape St
 Medford, OR 97501
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 Website: www.nrclabs.com

Analytical Report

WO#: 19100947
 Date Reported: 10/28/2019

Coleman Creek Consulting
 810 Leonard St
 Ashland, OR 97520

Lab Order: 19100947
Received Date: 10/21/2019 3:39:00 PM
Reported Date: 10/28/2019 11:22:45 AM

Sample Information:

Lab ID: 19100947-19 Client Sample ID: 19-104G.P28
 Collection Date: 10/19/2019 10:01:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst: SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	38.0		0.515	µg/L	1	10/23/2019	1300	A	
Lead	0.679		0.103	µg/L	1	10/23/2019	15.0	A	

Lab ID: 19100947-20 Client Sample ID: 19-104G.P29
 Collection Date: 10/19/2019 10:05:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst: SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	15.4		0.515	µg/L	1	10/23/2019	1300	A	
Lead	4.62		0.103	µg/L	1	10/23/2019	15.0	A	

Lab ID: 19100947-21 Client Sample ID: 19-104G.P30
 Collection Date: 10/19/2019 10:08:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst: SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	13.8		0.500	µg/L	1	10/22/2019	1300	A	
Lead	2.25		0.100	µg/L	1	10/22/2019	15.0	A	

- | | | |
|-------------------|--|--|
| QUALIFIERS | * Value exceeds Maximum Contaminant Level. | C1 Sample container temperature is out of limit as specified at testcode |
| | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| | J Analyte detected below quantitation limits | MI Recovery outside control limits due to Matrix Interference |
| | ND Not Detected at the Reporting Limit | PL Permit Limit |
| | R RPD outside accepted recovery limits | |

Original



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 Website: www.nrclabs.com

Analytical Report

WO#: 19100947
 Date Reported: 10/28/2019

Coleman Creek Consulting
 810 Leonard St
 Ashland, OR 97520

Lab Order: 19100947
Received Date: 10/21/2019 3:39:00 PM
Reported Date: 10/28/2019 11:22:45 AM

Sample Information:

Lab ID: 19100947-22 Client Sample ID: 19-104G.P31
 Collection Date: 10/19/2019 10:11:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst: SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	15.5		0.500	µg/L	1	10/22/2019	1300	A	
Lead	4.96		0.100	µg/L	1	10/22/2019	15.0	A	

Lab ID: 19100947-23 Client Sample ID: 19-104G.P32
 Collection Date: 10/19/2019 10:15:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS							Analyst: SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	52.1		0.500	µg/L	1	10/22/2019	1300	A	
Lead	5.23		0.100	µg/L	1	10/22/2019	15.0	A	

QUALIFIERS	* Value exceeds Maximum Contaminant Level.	C1 Sample container temperature is out of limit as specified at testcode
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	MI Recovery outside control limits due to Matrix Interference
	ND Not Detected at the Reporting Limit	PL Permit Limit
	R RPD outside accepted recovery limits	

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QC SUMMARY REPORT

WO#: 19100947
 28-Oct-19

Client: Coleman Creek Consulting
Project: 19-104G SOESD-Phoenix

TestCode: ICPMS_200.8_DW

Sample ID: MB-2169	SampType: MBLK	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 10/22/2019	RunNo: 5062						
Client ID: PBW	Batch ID: 2169	TestNo: E200.8	E200.8	Analysis Date: 10/22/2019	SeqNo: 97475						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	ND	0.500									
Lead	ND	0.100									

Sample ID: LCS-2169	SampType: LCS	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 10/22/2019	RunNo: 5062						
Client ID: LCSW	Batch ID: 2169	TestNo: E200.8	E200.8	Analysis Date: 10/22/2019	SeqNo: 97476						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	99.1	0.500	100	0	99.1	85	115				
Lead	89.7	0.100	100	0	89.7	85	115				

Sample ID: 19100918-01BMS	SampType: MS	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 10/22/2019	RunNo: 5062						
Client ID: BatchQC	Batch ID: 2169	TestNo: E200.8	E200.8	Analysis Date: 10/22/2019	SeqNo: 97483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	107	0.500	100	8.44	98.5	70	130				
Lead	94.6	0.100	100	0.0270	94.6	70	130				

Sample ID: 19100918-01BMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 10/22/2019	RunNo: 5062						
Client ID: BatchQC	Batch ID: 2169	TestNo: E200.8	E200.8	Analysis Date: 10/22/2019	SeqNo: 97484						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	106	0.500	100	8.44	97.7	70	130	107	0.701	20	
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Qualifiers:

B	Analyte detected in the associated Method Blank	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original



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 245 S Grape St
 Medford, OR 97501
 TEL: (541) 770-5678 FAX: (541) 770-2901
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QC SUMMARY REPORT

WO#: 19100947
 28-Oct-19

Client: Coleman Creek Consulting
Project: 19-104G SOESD-Phoenix

TestCode: ICPMS_200.8_DW

Sample ID: 19100918-01BMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 10/22/2019	RunNo: 5062						
Client ID: BatchQC	Batch ID: 2169	TestNo: E200.8	E200.8	Analysis Date: 10/22/2019	SeqNo: 97484						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	94.5	0.100	100	0.0270	94.5	70	130	94.6	0.0709	20	

Sample ID: MB-2170	SampType: MBLK	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 10/22/2019	RunNo: 5062						
Client ID: PBW	Batch ID: 2170	TestNo: E200.8	E200.8	Analysis Date: 10/22/2019	SeqNo: 97489						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.515									
Lead	ND	0.103									

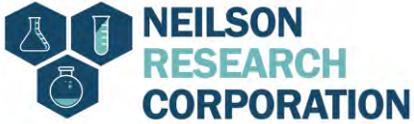
Sample ID: LCS-2170	SampType: LCS	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 10/22/2019	RunNo: 5062						
Client ID: LCSW	Batch ID: 2170	TestNo: E200.8	E200.8	Analysis Date: 10/22/2019	SeqNo: 97491						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	103	0.520	100	0	103	85	115				
Lead	93.5	0.104	100	0	93.5	85	115				

Sample ID: 19100947-20AMS	SampType: MS	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 10/22/2019	RunNo: 5105						
Client ID: 19-104G.P29	Batch ID: 2170	TestNo: E200.8	E200.8	Analysis Date: 10/23/2019	SeqNo: 98039						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	129	0.515	100	15.4	114	70	130				
Lead	114	0.103	100	4.62	110	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original



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 Website: www.nrclabs.com

QC SUMMARY REPORT

WO#: 19100947
 28-Oct-19

Client: Coleman Creek Consulting
Project: 19-104G SOESD-Phoenix

TestCode: ICPMS_200.8_DW

Sample ID: 19100947-20AMS	SampType: MS	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 10/22/2019	RunNo: 5105						
Client ID: 19-104G.P29	Batch ID: 2170	TestNo: E200.8	E200.8	Analysis Date: 10/23/2019	SeqNo: 98039						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 19100947-20AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 10/22/2019	RunNo: 5105						
Client ID: 19-104G.P29	Batch ID: 2170	TestNo: E200.8	E200.8	Analysis Date: 10/23/2019	SeqNo: 98040						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	120	0.515	100	15.4	105	70	130	129	7.35	20	
Lead	104	0.103	100	4.62	99.5	70	130	114	9.36	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original



Environmental Testing Laboratory
 245 South Grape Street * Medford, OR 97501
 (541) 770-5678 fax (541) 770-2901

Chain of Custody Record

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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information		Section D Rush Status (Subject to Scheduling)	
Company:	Coleman Creek Consulting	Project Name:	SOESD-Phoenix	Attention:		<input checked="" type="checkbox"/> Standard 10-14 Days	
Address:	810 Leonard St Ashland, OR 97520	Report To:	Dave Falwell	Company Name:		<input type="checkbox"/> 5 Business Days (50% surcharge)	
Email:	fawbro@ccountry.net	Copy To:		Address:		<input type="checkbox"/> 3 Business Days (75% surcharge)	
Phone:	(541) 535-7108 Fax: (541) 535-8795			P.O. #		<input type="checkbox"/> 24 - 48 hours (100% surcharge)	
Collected By (Print):	Dave Falwell					Other	
Collected By (Sign):	<i>[Signature]</i>						Authorized Yes ___ No ___
Email Report	Yes ___ No ___						
Fax Report	Yes ___ No ___						

Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	Analysis Requested		Remarks/Field Data	NRC Sample # (Lab Use Only)
						W - Water	S - Soil/Solid		
19-1046-812	Grab	DW	10-19-19	0910	1				191009147
P11				0915				X	01A
P12				0917				X	02A
P13				0919				X	03A
P14				0922				X	04A
P15				0924				X	05A
P16				0926				X	06A
P17				0928				X	07A
P18				0929				X	08A
P19				0933				X	09A

Section E Sample Information		Section F Relinquish/Receive		Section G Lab Use Only	
Relinquished By:	<i>[Signature]</i>	Received By:	<i>[Signature]</i>	Temp:	<i>Temp</i>
Received By:		Relinquished By:		4°C +/- 2°C:	Yes ___ No ___
Relinquished By:		Received By:		Received on Ice:	Yes ___ No ___
Received By Laboratory:	<i>[Signature]</i>	Relinquished By:		Number of Bottles Received:	<i>23</i>
		Received By:		pH Checked:	
		Relinquished By:		COC Seals Intact:	Yes ___ No ___ NA
		Received By Laboratory:	<i>[Signature]</i>	Field/Blank included:	Yes ___ No ___
				UPS:	FedEX ___ Other ___
				Check #:	Amount



Environmental Testing Laboratory
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Chain of Custody Record

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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information		Section D Rush Status (Subject to Scheduling)	
Company: Coleman Creek Consulting		Project Name: <u>SOESD-Phoenix</u>		Attention:		<input checked="" type="checkbox"/> Standard 10-14 Days	
Address: 810 Leonard St		Report Number: <u>19-1046</u>		Company Name:		<input type="checkbox"/> 5 Business Days (50% surcharge)	
Ashland, OR 97520		Report To:		Address:		<input type="checkbox"/> 3 Business Days (75% surcharge)	
Email: <u>fawbro@ccountry.net</u>		Copy To:		P.O. #		<input type="checkbox"/> 24 - 48 hours (100% surcharge)	
Phone: (541) 535-7108 Fax: (541) 535-8795						Other	
Collected By (Print): <u>David Fawcett</u>						Authorized Yes <input type="checkbox"/> No <input type="checkbox"/>	
Collected By (Sign): <u>[Signature]</u>							
Email Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Mail Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
Fax Report <input type="checkbox"/> Yes <input type="checkbox"/> No							

Section E Sample Information	Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	Analysis Requested	NRC-Workorder #	
								(Lab Use Only)	(Lab Use Only)
	19-1046-P20	Grab	DW	10-19-19	0935	1		Remarks/Field Data	NRC Sample #
	P21				0936	1			11A
	P22				0939	1			12A
	P23				0939	1			13A
	P24				0942	1			14A
	P25				0943	1			15A
	P26				0945	1			16A
	P27				0946	1			17A
	P28				1001	1			18A
	P29				1005	1			19A
									20A

Section F Relinquish/Receive		Section G Lab Use Only	
Relinquished By: <u>[Signature]</u>	Sign	Temp: <u>10-21-19</u>	Time
Received By: <u>[Signature]</u>	Print	4°C +/- 2°C: Yes <input type="checkbox"/> No <input type="checkbox"/>	1542
Relinquished By:		Received on Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Received By:		Number of Bottles Received: <u>23</u>	
Relinquished By:		pH Checked:	
Received By Laboratory: <u>[Signature]</u>		GOC Seals Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Field Blank Included: Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Received Via: <u>UPS</u>	
		Payment: <input checked="" type="checkbox"/> Invoice <input type="checkbox"/> Cash <input type="checkbox"/> VISA, M/C <input type="checkbox"/> FedEX <input type="checkbox"/> Other <input checked="" type="checkbox"/> Amount:	



Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

October 11, 2019

Dave Fawcett
Coleman Creek Consulting
810 Leonard St
Ashland, OR 97520
TEL: (541) 535-7108
FAX: (541) 535-8795

RE: 19-104G Phoenix ESD

Order No.: 19100320

Dear Dave Fawcett:

Neilson Research Corporation received 9 sample(s) on 10/7/2019 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 Schmedemann
Senior Project Manager
245 S Grape St
Medford, OR 97501



Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Case Narrative

WO#: 19100320
Date: 10/11/2019

CLIENT: Coleman Creek Consulting

Project: 19-104G Phoenix ESD

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.

Original



Neilson Research Corporation
 245 S Grape St
 Medford, OR 97501
 TEL: (541) 770-5678 FAX: (541) 770-2901
 Website: www.nrclabs.com

Analytical Report

WO#: 19100320
 Date Reported: 10/11/2019

Coleman Creek Consulting
 810 Leonard St
 Ashland, OR 97520

Lab Order: 19100320
Received Date: 10/7/2019 11:21:00 AM
Reported Date: 10/11/2019 12:39:38 PM

Sample Information:

Lab ID: 19100320-01 Client Sample ID: 19-104G.P1
 Collection Date: 10/5/2019 9:25:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS								Analyst: SJS
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Copper	99.6		0.515	µg/L	1	10/9/2019	1300	A
Lead	4.51		0.103	µg/L	1	10/9/2019	15.0	A

Lab ID: 19100320-02 Client Sample ID: 19-104G.P2
 Collection Date: 10/5/2019 9:28:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS								Analyst: SJS
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Copper	70.4		0.515	µg/L	1	10/9/2019	1300	A
Lead	2.85		0.103	µg/L	1	10/9/2019	15.0	A

Lab ID: 19100320-03 Client Sample ID: 19-104G.P3
 Collection Date: 10/5/2019 9:33:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS								Analyst: SJS
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Copper	98.3		0.515	µg/L	1	10/9/2019	1300	A
Lead	2.46		0.103	µg/L	1	10/9/2019	15.0	A

- | | | |
|-------------------|--|--|
| QUALIFIERS | * Value exceeds Maximum Contaminant Level. | C1 Sample container temperature is out of limit as specified at testcode |
| | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| | J Analyte detected below quantitation limits | MI Recovery outside control limits due to Matrix Interference |
| | ND Not Detected at the Reporting Limit | PL Permit Limit |
| | R RPD outside accepted recovery limits | |

Results are out of the EPA limits

Original



Neilson Research Corporation
 245 S Grape St
 Medford, OR 97501
 TEL: (541) 770-5678 FAX: (541) 770-2901
 Website: www.nrclabs.com

Analytical Report

WO#: 19100320
 Date Reported: 10/11/2019

Coleman Creek Consulting
 810 Leonard St
 Ashland, OR 97520

Lab Order: 19100320
Received Date: 10/7/2019 11:21:00 AM
Reported Date: 10/11/2019 12:39:38 PM

Sample Information:

Lab ID: 19100320-04 Client Sample ID: 19-104G.P4
 Collection Date: 10/5/2019 9:36:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS								Analyst:	SJS
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	4.25		0.515	µg/L	1	10/9/2019	1300	A	
Lead	3.39		0.103	µg/L	1	10/9/2019	15.0	A	

Lab ID: 19100320-05 Client Sample ID: 19-104G.P5
 Collection Date: 10/5/2019 9:40:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS								Analyst:	SJS
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	100		0.515	µg/L	1	10/9/2019	1300	A	
Lead	14.0		0.103	µg/L	1	10/9/2019	15.0	A	

Lab ID: 19100320-06 Client Sample ID: 19-104G.P6
 Collection Date: 10/5/2019 9:41:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS								Analyst:	SJS
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	1.57		0.515	µg/L	1	10/9/2019	1300	A	
Lead	0.711		0.103	µg/L	1	10/9/2019	15.0	A	

- | | | |
|-------------------|--|--|
| QUALIFIERS | * Value exceeds Maximum Contaminant Level. | C1 Sample container temperature is out of limit as specified at testcode |
| | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| | J Analyte detected below quantitation limits | MI Recovery outside control limits due to Matrix Interference |
| | ND Not Detected at the Reporting Limit | PL Permit Limit |
| | R RPD outside accepted recovery limits | |

Results are out of the EPA limits

Original



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Analytical Report

WO#: 19100320
 Date Reported: 10/11/2019

Coleman Creek Consulting
 810 Leonard St
 Ashland, OR 97520

Lab Order: 19100320
Received Date: 10/7/2019 11:21:00 AM
Reported Date: 10/11/2019 12:39:38 PM

Sample Information:

Lab ID: 19100320-07 Client Sample ID: 19-104G.P7
 Collection Date: 10/5/2019 9:45:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS								Analyst: SJS
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Copper	32.5		0.515	µg/L	1	10/9/2019	1300	A
Lead	1.69		0.103	µg/L	1	10/9/2019	15.0	A

Lab ID: 19100320-08 Client Sample ID: 19-104G.P8
 Collection Date: 10/5/2019 9:46:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS								Analyst: SJS
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Copper	7.04		0.515	µg/L	1	10/9/2019	1300	A
Lead	2.94		0.103	µg/L	1	10/9/2019	15.0	A

Lab ID: 19100320-09 Client Sample ID: 19-104G.P9
 Collection Date: 10/5/2019 9:50:00 AM Collected By: Dave Fawcett
 Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS								Analyst: SJS
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Copper	169		0.515	µg/L	1	10/9/2019	1300	A
Lead	52.0	*	0.103	µg/L	1	10/9/2019	15.0	A

- | | | |
|-------------------|--|--|
| QUALIFIERS | * Value exceeds Maximum Contaminant Level. | C1 Sample container temperature is out of limit as specified at testcode |
| | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| | J Analyte detected below quantitation limits | MI Recovery outside control limits due to Matrix Interference |
| | ND Not Detected at the Reporting Limit | PL Permit Limit |
| | R RPD outside accepted recovery limits | |

Results are out of the EPA limits

Original



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 Website: www.nrclabs.com

QC SUMMARY REPORT

WO#: 19100320
 14-Oct-19

Client: Coleman Creek Consulting
Project: 19-104G Phoenix ESD

TestCode: ICPMS_200.8_DW

Sample ID: MB-2037	SampType: MBLK	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 10/9/2019	RunNo: 4738						
Client ID: PBW	Batch ID: 2037	TestNo: E200.8	E200.8	Analysis Date: 10/9/2019	SeqNo: 91888						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	ND	0.515									
Lead	ND	0.103									

Sample ID: LCS-2037	SampType: LCS	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 10/9/2019	RunNo: 4738						
Client ID: LCSW	Batch ID: 2037	TestNo: E200.8	E200.8	Analysis Date: 10/9/2019	SeqNo: 91889						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	97.4	0.515	100	0	97.4	85	115				
Lead	102	0.103	100	0	102	85	115				

Sample ID: 19100322-03AMS	SampType: MS	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 10/9/2019	RunNo: 4738						
Client ID: BatchQC	Batch ID: 2037	TestNo: E200.8	E200.8	Analysis Date: 10/9/2019	SeqNo: 91908						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	125	0.520	100	28.9	96.4	70	130				
Lead	121	0.104	100	19.4	101	70	130				

Sample ID: 19100322-03AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 10/9/2019	RunNo: 4738						
Client ID: BatchQC	Batch ID: 2037	TestNo: E200.8	E200.8	Analysis Date: 10/9/2019	SeqNo: 91909						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	128	0.520	100	28.9	98.6	70	130	125	1.80	20	
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Qualifiers:

* Value exceeds Maximum Contaminant Level.	CI Sample container temperature is out of limit as specified at testcode	H Holding times for preparation or analysis exceed
MI Recovery outside control limits due to Matrix Interference	ND Not Detected at the Reporting Limit	PL Permit Limit
RL Reporting Detection Limit		

Original



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 Medford, OR 97501
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QC SUMMARY REPORT

WO#: 19100320
 14-Oct-19

Client: Coleman Creek Consulting
Project: 19-104G Phoenix ESD

TestCode: ICPMS_200.8_DW

Sample ID: 19100322-03AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 10/9/2019	RunNo: 4738						
Client ID: BatchQC	Batch ID: 2037	TestNo: E200.8	E200.8	Analysis Date: 10/9/2019	SeqNo: 91909						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	120	0.104	100	19.4	101	70	130	121	0.0354	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	CI Sample container temperature is out of limit as specified at testcode	H Holding times for preparation or analysis exceeded
MI Recovery outside control limits due to Matrix Interference	ND Not Detected at the Reporting Limit	PL Permit Limit
RL Reporting Detection Limit		

Original



Environmental Testing Laboratory
245 South Grape Street * Medford, OR 97501
(541) 770-5678 fax (541) 770-2901

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@coountry.net Phone: (541) 535-7108 Fax: (541) 535-8795 Collected By (Print): <u>David Fawcett</u> Collected By (Sign): <u>[Signature]</u> Email Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Mail Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Fax Report <input type="checkbox"/> Yes <input type="checkbox"/> No		Section B Required Project Information Project Name: <u>PHOENIX ESD</u> Project Number: <u>19-1046</u> Report To: <u>DAVE FAWCETT</u> Copy To:		Section C Invoice Information Attention: Company Name: Address: P.O. #		Section D Rush Status (Subject to Scheduling) <input checked="" type="checkbox"/> Standard 10-14 Days <input type="checkbox"/> 5 Business Days (50% surcharge) <input type="checkbox"/> 3 Business Days (75% surcharge) <input type="checkbox"/> 24 - 48 hours (100% surcharge) Other: _____ Authorized <input type="checkbox"/> Yes <input type="checkbox"/> No									
Section E Sample Information Sample ID 19-1046, P1 19-1046, P2 P3 P4 P5 P6 P7 P8 P9 Page 8 of 6		Matrix* DW ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		Comp/Grab Grab ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		Date Collected 10-5-19 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		Time Collected 0925 0928 0933 0936 0940 0947 0945 0946 0950		No. of Containers 1 1 1 1 1 1 1 1 1		Analysis Requested (Grid area)		NRC Workorder # <u>19100320</u> Remarks/Field Data NRC Sample # (Lab Uses Only) 01A 02A 03A 04A 05A 06A 07A 08A 09A	
Section F Relinquish/Receive Relinquished By: <u>[Signature]</u> Received By: <u>DAVE FAWCETT</u> Relinquished By: Received By: Relinquished By: Received By Laboratory: <u>[Signature]</u>		Matrix DW - Drinking Water WW - Wastewater W - Water S - Soil/Solid SL - Sludge O - Oil WP - Wipe OT - Other		Date 10-7-19		Time 1121		Section G Lab Uses Only Temp: <u>AMTD</u> 4°C - 2°C: Yes <input type="checkbox"/> No <input type="checkbox"/> Received on Ice: Yes <input type="checkbox"/> No <input type="checkbox"/> Number of Bottles/Receptacles: <u>1</u> pH Checked: VOC Seals Intact: Yes <input type="checkbox"/> No <input type="checkbox"/> Field/Blank Included: Yes <input type="checkbox"/> No <input type="checkbox"/> UPS: <input type="checkbox"/> FedEx: <input type="checkbox"/> Other: <input checked="" type="checkbox"/> <u>Hand</u> Payment: <input checked="" type="checkbox"/> Invoice <input type="checkbox"/> Cash <input type="checkbox"/> VISA <input type="checkbox"/> MC <input type="checkbox"/> Check <input type="checkbox"/> Amount							

- B Analyte detected in the associated method blank.
- BA BOD Alternative Calculation: The initial results performed by Standard Methods did not fall within parameters of the Standard Methods calculation. An alternate approved calculation was performed using the HACH method and the value reported is an estimated concentration.
- C Sample(s) does not meet NELAP/ORELAP sample acceptance criteria. See Case Narrative.
- C1 Sample(s) does not meet NELAP/ORELAP sample acceptance criteria for temperature.
- CF Results confirmed by re-analysis.
- CU Cleanup performed as specified by method.
- D1 The diesel elution pattern for the sample is not typical.
- D2 The sample appears to be a heavier hydrocarbon range than diesel.
- D3 The sample appears to be a lighter hydrocarbon range than diesel.
- D4 Detected hydrocarbons do not have pattern and range consistent with typical petroleum products and may be due to biogenic interference.
- D5 Detected hydrocarbons in the diesel range appear to be weathered diesel.
- E Estimated value.
- ER Elevated reporting limit due to matrix. Report limits (MDLs, MRLs & PQLs) are adjusted based on variations in sample preparation amounts, analytical dilutions, and percent solids, where applicable.
- FC Fecal Coliforms: Sample(s) received past 40 CFR Part 136 specified holding time. Results reported as estimated values.
- G1 The gasoline elution pattern for the sample is not typical.
- G2 The sample appears to be a heavier hydrocarbon range than gasoline.
- G3 The sample appears to be a lighter hydrocarbon range than gasoline.
- G4 Detected hydrocarbons in the gasoline range appear to be weathered gasoline.
- HP Sample re-analysis performed outside of method specified holding time.
- HR Sample received outside of method specified holding time.
- HS Sample analyzed for volatile organics contained headspace.
- HT At the client's request, the sample was analyzed outside of method specified holding time.
- H Analysis performed outside of method specified holding time.
- J Analyte detected below the Minimum Reporting Limit (MRL) and above the Method Detection Limit (MDL). The J flag result is an estimated value and the user should be aware that this data is of limited reliability.
- L Dissolved metals were not filtered within 15 minutes of collection per 40 CFR Part 136.
- MI Surrogate, Duplicate Sample (DUP) or Matrix Spikes recoveries are out of control limits due to matrix interference. Sample results may be biased.
- N See Case Narrative on page 2 of report.
- NLR No Legionella Recovered.
- PLR Presence of Legionella Recovered.
- Q Initial calibration verification (ICV), continuing calibration verification (CCV) or laboratory control sample (LCS) exceeded high recovery limits, but associated samples are non-detect and the sample results are not affected. Data meets EPA/NELAP requirements.
- R Relative percent difference (RPD) is outside of the accepted recovery limits.
- R1 Relative percent difference (RPD) is outside of the accepted recovery limits. However, analyses are not controlled on RPD values for sample concentrations that are less than the reporting limit.
- R3 The relative percent difference (RPD) and/or percent recovery for the duplicate (DUP) or matrix spike (MS)/matrix spike duplicate (MSD) cannot be accurately calculated due to the concentration of analyte already present in the sample.
- R4 Duplicate analysis failed due to result being at or near the method reporting limit.
- S Surrogate and/or matrix spike recovery is outside of the accepted recovery limits. Sample results may be biased.
- S1 Surrogate or matrix spike recovery is outside of control limits due to dilution necessary for analysis.
- SC Sub-contracted to another laboratory for analysis.
- SP Sample(s) were not collected per EPA Method 5035A protocols. The results are considered minimum values.
- # Value exceeds regulatory level for TCLP contaminant.
- X1 The motor oil elution pattern for the sample is not typical.
- X2 The sample appears to be a heavier hydrocarbon range than motor oil.
- X3 The sample appears to be a lighter hydrocarbon range than motor oil.
- * Value exceeds Maximum Contaminant Level or is outside the acceptable range.