

# 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 a suite of analyses in representative drinking water sources and compare with regulatory standards.

### DRINKING WATER SAMPLING

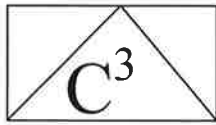
David W. Fawcett of CCC visited the Phoenix ESD Facility on June 12, 2016, accompanied by Mark Salter. Mr. Fawcett and Mr. Salter reviewed the drinking water sources in the main building and two-story building, and selected three representative locations based on presumed utilization by building occupants. Mr. Fawcett collected drinking water samples from the main building drinking fountain and break room sink faucet. A third drinking water sample was collected from the two-story building kitchen sink faucet. According to Mr. Salter, the two-story building water is supplied with a separate connection to the City water system at the street, therefore a lead drinking water sample only was collected. See Site Sample Record Sheet (page 3) for a description of the sample location areas. The drinking water samples were collected on a Sunday, ensuring that the sampled sources had not been in use since the previous Friday. The samples were placed in a cooler and transported to CCC for temporary storage prior to transport the following day to Neilson Research Corporation for analysis.

### LEAD ANALYSIS/COMPARISON WITH REGULATORY LIMITS

The drinking water samples collected from the Main Building were analyzed for a suite of analysis to determine the potential for metals and other contaminants leaching into drinking water, along with other parameters that may impact water system corrosivity. The two-story building water sample was analyzed for lead. Asbestos analysis results are found in the EMLab P&K Asbestos PLM Report in Appendix A.

ANALYSIS	SAMPLE RESULTS (mg/L)			ACTION LEVEL
	16-069G.1	16-069G.2	16-069G.3	
Hardness	40.5	45.7	NT	250
Iron	0.0569	0.0835	NT	0.3
Cadmium	<0.0001	0.0002	NT	0.005
Chromium	<0.001	<0.001	NT	0.1
Copper	0.737	0.0233	NT	1.3





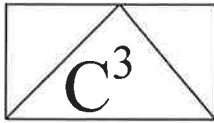
# Coleman Creek Consulting, Inc.

## DRINKING WATER LEAD SAMPLE RECORD SHEET

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

DATE: 06-12-16  
SAMPLER: David W. Fawcett

SAMPLE #	SOURCE DESCRIPTION	LOCATION	COLLECTION TIME
16-069G.1	Drinking Fountain	Hall at Entrance	1735
16-069G.2	Sink Faucet	Break Room Sink	1745
16-069G.3	Sink Faucet	Two-Story Kitchen	1748



# Coleman Creek Consulting, Inc.

## DRINKING WATER LEAD SAMPLE RECORD SHEET

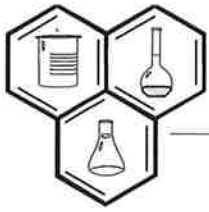
FACILITY: Phoenix ESD  
ADDRESS: 5465 S. Pacific Hwy.  
Phoenix, Oregon

DATE: 06-12-16  
SAMPLER: David W. Fawcett

SAMPLE #	SOURCE DESCRIPTION	LOCATION	COLLECTION TIME
16-069G.1	Drinking Fountain	Hall at Entrance	1735
16-069G.2	Sink Faucet	Break Room Sink	1745
16-069G.3	Sink Faucet	Two-Story Kitchen	1748

**APPENDIX A**

**NEILSON RESEARCH ANALYTICAL RESULTS  
REPORT**



# NEILSON RESEARCH CORPORATION

*Environmental Testing Laboratory*

6/21/2016

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

TEL: (541) 535-7108

FAX (541) 535-8795

RE: 16-069G Phoenix ESD

Order No.: 1606530

Dear Dave Fawcett:

Neilson Research Corporation received 3 sample(s) on 6/13/2016 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

Alec C Smith  
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:** 16-069G Phoenix ESD  
**Lab Order:** 1606530

**Date:** 21-Jun-16

## 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

## Analysis Report

ORELAP 100016  
EPA OR00028

Coleman Creek Consulting  
810 Leonard St  
Ashland, OR 97520

Lab Order: 1606530  
NRC Sample ID: 1606530-01A  
Collection Date: 6/12/2016 5:35:00 PM  
Received Date: 6/13/2016 1:53:00 PM  
Reported Date: 6/21/2016 10:28:18 AM

### Sample Information:

16-069G Phoenix ESD

Client Sample ID: 16-069G.1  
Collectors Name: Dave Fawcett  
Sample Location:  
Source:

## ANALYTICAL RESULTS

Analyses	Method	NELAP		Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
		Accredited	Result						
Specific Conductance	SM 2510B	A	116		1	µmhos/cm		6/13/2016	AJC
Hardness, Total (As CaCO <sub>3</sub> )	SM 2340B	A	40.5		6.62	mg/L	250	6/17/2016	BAR
Iron	EPA 200.7	A	0.0569		0.015	mg/L	0.3	6/17/2016	BAR
Cadmium	EPA 200.8	A	ND		0.0001	mg/L	0.005	6/15/2016	OML
Chromium	EPA 200.8	A	ND		0.001	mg/L	0.1	6/15/2016	OML
Copper	EPA 200.8	A	0.737		0.0005	mg/L	1.3 AL	6/16/2016	OML
Lead	EPA 200.8	A	0.00476		0.0001	mg/L	0.015 AL	6/15/2016	OML
Nickel	EPA 200.8	A	ND		0.0005	mg/L	0.1	6/16/2016	OML
Zinc	EPA 200.8	A	0.413		0.005	mg/L	5.0	6/15/2016	OML
pH	SM 4500H-B	A	7.11		0.1	pH Units	6.5 - 8.5	6/13/2016 5:00:00 PM	AJC

Notes: ND - Not Detected at the MRL

N.L. - No Limit

MRL - Minimum Reporting Limit



# 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: 1606530  
NRC Sample ID: 1606530-02A  
Collection Date: 6/12/2016 5:45:00 PM  
Received Date: 6/13/2016 1:53:00 PM  
Reported Date: 6/21/2016 10:28:18 AM

**Sample Information:**

16-069G Phoenix ESD

Client Sample ID: 16-069G.2  
Collectors Name: Dave Fawcett  
Sample Location:  
Source:

## ANALYTICAL RESULTS

Analyses	Method	NELAP		Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
		Accredited	Result						
Specific Conductance	SM 2510B	A	118		1	µmhos/cm		6/13/2016	AJC
Hardness, Total (As CaCO3)	SM 2340B	A	45.7		6.62	mg/L	250	6/17/2016	BAR
Iron	EPA 200.7	A	0.0835		0.015	mg/L	0.3	6/17/2016	BAR
Cadmium	EPA 200.8	A	0.000236		0.0001	mg/L	0.005	6/15/2016	OML
Chromium	EPA 200.8	A	ND		0.001	mg/L	0.1	6/15/2016	OML
Copper	EPA 200.8	A	0.0233		0.0005	mg/L	1.3 AL	6/16/2016	OML
Lead	EPA 200.8	A	0.00214		0.0001	mg/L	0.015 AL	6/15/2016	OML
Nickel	EPA 200.8	A	0.000606		0.0005	mg/L	0.1	6/16/2016	OML
Zinc	EPA 200.8	A	0.906		0.05	mg/L	5.0	6/16/2016	OML
pH	SM 4500H-B	A	6.81		0.1	pH Units	6.5 - 8.5	6/13/2016 5:00:00 PM	AJC

Notes: ND - Not Detected at the MRL

N.L. - No Limit

MRL - Minimum Reporting Limit

# 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: 1606530  
NRC Sample ID: 1606530-03A  
Collection Date: 6/12/2016 5:48:00 PM  
Received Date: 6/13/2016 1:53:00 PM  
Reported Date: 6/21/2016 10:28:18 AM

### Sample Information:

16-069G Phoenix ESD

Client Sample ID: 16-069G.3  
Collectors Name: Dave Fawcett  
Sample Location:  
Source:

## ANALYTICAL RESULTS

Analyses	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Lead	EPA 200.8	A	0.00690		0.0001	mg/L	0.015 AL	6/15/2016	OML

Notes: ND - Not Detected at the MRL

N.L. - No Limit

MRL - Minimum Reporting Limit

**Neilson Research Corporation**  
DATA FLAGS

- 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.
- MI Surrogate or Matrix Spike recovery is out of control limits due to matrix interference. Sample results may be biased.
- N See Case Narrative on page 2 of report.
- Q Closing 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 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.
- T Toxicity Characteristic Leaching Procedure – Sample submitted contained < 0.5% solids. If the waste contains <0.5% dry solids, the liquid portion of the waste, after filtration, is defined as the TCLP extract.
- # 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.

NRC SOP QA-1104/AD-3100  
Revision 3  
Effective Date: 6/3/16

CLIENT: Coleman Creek Consulting  
 Work Order: 1606530  
 Project: 16-069G Phoenix ESD

**ANALYTICAL QC SUMMARY REPORT**

TestCode: COND\_DW

Sample ID	LCS-R87791	SampType:	LCS	TestCode:	COND_DW	Units:	µmhos/cm	Prep Date:		RunNo:	87791		
Client ID:	ZZZZZ	Batch ID:	R87791	TestNo:	SM 2510B			Analysis Date:	6/13/2016	SeqNo:	1309332		
Analyte		Result		MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance		1528		1.00	1413	0	108	90	110				

Sample ID	1606515-01BDUP	SampType:	DUP	TestCode:	COND_DW	Units:	µmhos/cm	Prep Date:		RunNo:	87791		
Client ID:	ZZZZZ	Batch ID:	R87791	TestNo:	SM 2510B			Analysis Date:	6/13/2016	SeqNo:	1309335		
Analyte		Result		MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance		185.9		1.00						175.3	5.87	10	

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

CLIENT: Coleman Creek Consulting  
 Work Order: 1606530  
 Project: 16-069G Phoenix ESD

**ANALYTICAL QC SUMMARY REPORT**

TestCode: ICP-HARD\_DW

Sample ID	SampType	TestCode	Units	Prep Date	RunNo	Client ID	Batch ID	TestNo	(EPA 200.7)	Analysis Date	SeqNo	Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
MB-35475	MBLK	ICP-HARD_D	mg/L	6/16/2016	87926	ZZZZZ	35475	SM 2340B		6/17/2016	1312105	Hardness, Total (As CaCO3)	ND	6.62										
LCS-35475	LCS	ICP-HARD_D	mg/L	6/16/2016	87926	ZZZZZ	35475	SM 2340B		6/17/2016	1312106	Hardness, Total (As CaCO3)	6.767	6.62	6.615	0	102	85	115					
1606659-01AMS	MS	ICP-HARD_D	mg/L	6/16/2016	87926	ZZZZZ	35475	SM 2340B		6/17/2016	1312126	Hardness, Total (As CaCO3)	255.1	6.62	138	114	102	70	130					
1606659-01AMSD	MSD	ICP-HARD_D	mg/L	6/16/2016	87926	ZZZZZ	35475	SM 2340B		6/17/2016	1312127	Hardness, Total (As CaCO3)	251.5	6.62	138	114	99.7	70	130	255.1	1.42	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

CLIENT: Coleman Creek Consulting  
 Work Order: 1606530  
 Project: 16-069G Phoenix ESD

**ANALYTICAL QC SUMMARY REPORT**

TestCode: ICP\_200.7\_DW

Sample ID	<b>MB-35475</b>	SampType:	<b>MBLK</b>	TestCode:	<b>ICP_200.7_D</b>	Units:	<b>mg/L</b>	Prep Date:	<b>6/16/2016</b>	RunNo:	<b>87925</b>
Client ID:	<b>ZZZZZ</b>	Batch ID:	<b>35475</b>	TestNo:	<b>EPA 200.7</b>		<b>(EPA 200.7)</b>	Analysis Date:	<b>6/17/2016</b>	SeqNo:	<b>1312071</b>
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	ND	1.00									
Hardness, Total (As CaCO3)	ND	6.62									
Iron	ND	0.0150									
Magnesium	ND	1.00									

Sample ID	<b>LCS-35475</b>	SampType:	<b>LCS</b>	TestCode:	<b>ICP_200.7_D</b>	Units:	<b>mg/L</b>	Prep Date:	<b>6/16/2016</b>	RunNo:	<b>87925</b>
Client ID:	<b>ZZZZZ</b>	Batch ID:	<b>35475</b>	TestNo:	<b>EPA 200.7</b>		<b>(EPA 200.7)</b>	Analysis Date:	<b>6/17/2016</b>	SeqNo:	<b>1312072</b>
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	1.033	1.00	1	0	103	85	115				
Hardness, Total (As CaCO3)	6.767	6.62	6.615	0	102	85	115				
Iron	1.034	0.0150	1	0	103	85	115				
Magnesium	1.017	1.00	1	0.0015	102	85	115				

Sample ID	<b>1606659-01AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>ICP_200.7_D</b>	Units:	<b>mg/L</b>	Prep Date:	<b>6/16/2016</b>	RunNo:	<b>87925</b>
Client ID:	<b>ZZZZZ</b>	Batch ID:	<b>35475</b>	TestNo:	<b>EPA 200.7</b>		<b>(EPA 200.7)</b>	Analysis Date:	<b>6/17/2016</b>	SeqNo:	<b>1312092</b>
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	45.81	1.00	21	24.56	101	70	130				
Hardness, Total (As CaCO3)	255.1	6.62	138.8	114	102	70	130				
Iron	27.11	0.0150	21	6.644	97.5	70	130				
Magnesium	34.18	1.00	21	12.79	102	70	130				

Sample ID	<b>1606659-01AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>ICP_200.7_D</b>	Units:	<b>mg/L</b>	Prep Date:	<b>6/16/2016</b>	RunNo:	<b>87925</b>
Client ID:	<b>ZZZZZ</b>	Batch ID:	<b>35475</b>	TestNo:	<b>EPA 200.7</b>		<b>(EPA 200.7)</b>	Analysis Date:	<b>6/17/2016</b>	SeqNo:	<b>1312093</b>
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	45.19	1.00	21	24.56	98.2	70	130	45.81	1.36	20	
Hardness, Total (As CaCO3)	251.5	6.62	138.8	114	99.1	70	130	255.1	1.42	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

CLIENT: Coleman Creek Consulting  
 Work Order: 1606530  
 Project: 16-069G Phoenix ESD

**ANALYTICAL QC SUMMARY REPORT**

TestCode: ICP\_200.7\_DW

Sample ID	1606659-01AMSD	SampType:	MSD	TestCode:	ICP_200.7_D	Units:	mg/L	Prep Date:	6/16/2016	RunNo:	87925		
Client ID:	ZZZZZ	Batch ID:	35475	TestNo:	EPA 200.7	(EPA 200.7)		Analysis Date:	6/17/2016	SeqNo:	1312093		
Analyte		Result		MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron		26.62		0.0150	21	6.644	95.1	70	130	27.11	1.82	20	
Magnesium		33.68		1.00	21	12.79	99.5	70	130	34.18	1.47	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

CLIENT: Coleman Creek Consulting  
 Work Order: 1606530  
 Project: 16-069G Phoenix ESD

**ANALYTICAL QC SUMMARY REPORT**

TestCode: ICPMS\_200.8\_DW

Sample ID	<b>MB-35450</b>	SampType:	<b>MBLK</b>	TestCode:	<b>ICPMS_200.8</b>	Units:	<b>mg/L</b>	Prep Date:	<b>6/15/2016</b>	RunNo:	<b>87873</b>
Client ID:	<b>ZZZZZ</b>	Batch ID:	<b>35450</b>	TestNo:	<b>EPA 200.8</b>		<b>(EPA 200.8)</b>	Analysis Date:	<b>6/15/2016</b>	SeqNo:	<b>1310694</b>

Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	ND	0.000100									
Chromium	ND	0.00100									
Copper	ND	0.000500									
Lead	ND	0.000100									
Nickel	ND	0.000500									
Zinc	ND	0.00500									

Sample ID	<b>LCS-35450</b>	SampType:	<b>LCS</b>	TestCode:	<b>ICPMS_200.8</b>	Units:	<b>mg/L</b>	Prep Date:	<b>6/15/2016</b>	RunNo:	<b>87873</b>
Client ID:	<b>ZZZZZ</b>	Batch ID:	<b>35450</b>	TestNo:	<b>EPA 200.8</b>		<b>(EPA 200.8)</b>	Analysis Date:	<b>6/15/2016</b>	SeqNo:	<b>1310695</b>

Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.1016	0.000100	0.1	0	102	85	115				
Chromium	0.09434	0.00100	0.1	0	94.3	85	115				
Copper	0.08816	0.000500	0.1	0	88.2	85	115				
Lead	0.09801	0.000100	0.1	0	98.0	85	115				
Nickel	0.08501	0.000500	0.1	0	85.0	85	115				
Zinc	0.08740	0.00500	0.1	0	87.4	85	115				

Sample ID	<b>1606530-03AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>ICPMS_200.8</b>	Units:	<b>mg/L</b>	Prep Date:	<b>6/15/2016</b>	RunNo:	<b>87873</b>
Client ID:	<b>16-069G.3</b>	Batch ID:	<b>35450</b>	TestNo:	<b>EPA 200.8</b>		<b>(EPA 200.8)</b>	Analysis Date:	<b>6/15/2016</b>	SeqNo:	<b>1310710</b>

Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.1070	0.000100	0.1	0.006423	101	70	130				
Chromium	0.09380	0.00100	0.1	0	93.8	70	130				
Lead	0.1050	0.000100	0.1	0.006903	98.1	70	130				

**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



CLIENT: Coleman Creek Consulting  
 Work Order: 1606530  
 Project: 16-069G Phoenix ESD

**ANALYTICAL QC SUMMARY REPORT**

TestCode: ICPMS\_200.8\_DW

Sample ID	1606530-03AMS	SampType: MS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/15/2016	RunNo: 87877					
Client ID:	16-069G.3	Batch ID: 35450	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/16/2016	SeqNo: 1310907					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.09552	0.000500	0.1	0.005501	90.0	70	130				

Sample ID	1606530-03AMS	SampType: MS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/15/2016	RunNo: 87877					
Client ID:	16-069G.3	Batch ID: 35450	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/16/2016	SeqNo: 1310962					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	2.835	0.0500	0.1	2.745	90.0	70	130				

Sample ID	1606530-03AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/15/2016	RunNo: 87873					
Client ID:	16-069G.3	Batch ID: 35450	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/15/2016	SeqNo: 1310711					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.1082	0.000100	0.1	0.006423	102	70	130	0.107	1.12	20	
Chromium	0.09076	0.00100	0.1	0	90.8	70	130	0.0938	3.29	20	
Lead	0.1044	0.000100	0.1	0.006903	97.5	70	130	0.105	0.573	20	

Sample ID	1606530-03AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/15/2016	RunNo: 87877					
Client ID:	16-069G.3	Batch ID: 35450	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/16/2016	SeqNo: 1310908					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.09513	0.000500	0.1	0.005501	89.6	70	130	0.09552	0.409	20	

Sample ID	1606530-03AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/15/2016	RunNo: 87877					
Client ID:	16-069G.3	Batch ID: 35450	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/16/2016	SeqNo: 1310963					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	2.816	0.0500	0.1	2.745	71.0	70	130	2.835	0.672	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

CLIENT: Coleman Creek Consulting  
 Work Order: 1606530  
 Project: 16-069G Phoenix ESD

**ANALYTICAL QC SUMMARY REPORT**

TestCode: PH\_DW

Sample ID	LCS-R87790	SampType:	LCS	TestCode:	PH_DW	Units:	pH Units	Prep Date:		RunNo:	87790		
Client ID:	ZZZZZ	Batch ID:	R87790	TestNo:	SM 4500H-B			Analysis Date:	6/13/2016	SeqNo:	1309323		
Analyte		Result		MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

pH		6.860		0.100	6.86	0	100	97.1	102.9				
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Sample ID	1606515-01BDUP	SampType:	DUP	TestCode:	PH_DW	Units:	pH Units	Prep Date:		RunNo:	87790		
Client ID:	ZZZZZ	Batch ID:	R87790	TestNo:	SM 4500H-B			Analysis Date:	6/13/2016	SeqNo:	1309326		
Analyte		Result		MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

pH		9.090		0.100						8.89	2.22	10	*
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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	Section B Required Project Information	Section C Invoice Information	Section D Rush Status (Subject to Scheduling)
Company: <u>Teleman Creek Consulting</u>	Project Name: <u>Phoenix ESD</u>	Attention: <u>Same</u>	<input checked="" type="checkbox"/> Standard 10-14 Days
Address: <u>810 Leonard Street</u> <u>Highland, OR 97520</u>	Project Number: <u>16-096 G</u>	Company Name:	<input type="checkbox"/> 5 Business Days (50% surcharge)
Email: <u>gabriele@cccountry.net</u>	Report To: <u>Dave Fairwell</u>	Address:	<input type="checkbox"/> 3 Business Days (75% surcharge)
Phone: _____ Fax: _____	Copy To:	F.O. #	<input type="checkbox"/> 24 - 48 hours (100% surcharge)
Collected By (Print): <u>Dave Fairwell</u>			Other: _____
Collected By (Sign): <u>[Signature]</u>			Authorized <input type="checkbox"/> Yes <input type="checkbox"/> No
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						Analysis Requested										NRC Workorder # (Lab Use Only) <u>1606930</u>			
Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers													Remarks/Field Data	NRC Sample # (Lab Use Only)
16-069G-1		DW	6-12-16	1735	1	X												#16596	01
16-069G-2		DW	6-12-16	1745	1	X												#16586	02
16-069G-3		DW	6-12-16	1748	1	X												#12508	03

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

Section F Relinquish/Receive		Sign	Print	Date	Time
Relinquished By:	<u>[Signature]</u>		<u>Dave Fairwell</u>	<u>6-12-16</u>	<u>1353</u>
Received By:					
Relinquished By:					
Received By:					
Relinquished By:	<u>[Signature]</u>		<u>[Signature]</u>	<u>6-12-16</u>	<u>1354</u>
Received By Laboratory:					

Section G Lab Use Only	
Temp:	<u>4/10/17</u>
4°C +/- 2°C:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Received on Ice:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Number of Bottles Received:	<u>3</u>
pH Checked:	<u>NA</u>
COC Seals Intact:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Field Blank Included:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Received Via  UPS  FedEx  Other  Hand  
 Payment:  Invoice  Cash  VISA, M/C  Check # \_\_\_\_\_ Amount \_\_\_\_\_