

Lake County ESD
Lead Test Results

Sample	Collection Date	Acceptable Levels	Utility	Ladies'	Men's	Modular
1st	8/25/2016	0.015	0.0258	0.0175	0.0207	0.00593
2nd	9/14/2016	0.015	0.0254	0.0162	0.036	n/a
3rd (flush)	9/30/2016	0.015	0.00148	0.00186	0.0322	n/a
4th	10/20/2016	0.015	0.00854	0.0301	n/a	n/a
5th	3/5/2020	0.015	0.00541	0.00519	0.0125	n/a

Note: Acceptable level of lead in 2016 was .020 (20 parts per billion).

Note: New faucets were purchased for Utility and Ladies' sinks between the 3rd and 4th sample collections.

Note: Modular unit is no longer property of Lake County ESD.

Note: All faucets are in compliance as of March 5, 2020.



Neilson Research Corporation
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Website: www.nrclabs.com

March 12, 2020

Sara Sarensen
Lake County ESD
357 N L St
Lakeview, OR 97630
TEL: (541) 947-3371
FAX

RE: ESD

Order No.: 20030231

Dear Sara Sarensen:

Neilson Research Corporation received 3 sample(s) on 3/5/2020 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**

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Case Narrative

WO#: 20030231
Date: 3/12/2020

CLIENT: Lake County ESD

Project: 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



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Analytical Report

WO#: 20030231
 Date Reported: 3/12/2020

Lake County ESD
 357 N L St
 Lakeview, OR 97630

Lab Order: 20030231
Received Date: 3/5/2020 9:30:00 AM
Reported Date: 3/12/2020 10:53:55 AM

Sample Information:

Lab ID: 20030231-01 Client Sample ID: Men's Sink - 4th/5th
 Collection Date: 2/25/2020 7:22:00 AM Collected By: Debbie Goss
 Matrix: Drinking Water Sample Location: Men's Sink - 4th/5th

Trace Metals by EPA 200.8 ICP-MS							Analyst: SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	123		0.515	µg/L	1	3/9/2020	1300	A	
Lead	12.5		0.103	µg/L	1	3/9/2020	15.0	A	

Lab ID: 20030231-02 Client Sample ID: Utility Sink - 5th
 Collection Date: 2/25/2020 7:21:00 AM Collected By: Debbie Goss
 Matrix: Drinking Water Sample Location: Utility Sink - 5th

Trace Metals by EPA 200.8 ICP-MS							Analyst: SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	211		0.515	µg/L	1	3/9/2020	1300	A	
Lead	5.41		0.103	µg/L	1	3/9/2020	15.0	A	

Lab ID: 20030231-03 Client Sample ID: Ladies' Sink - 5th
 Collection Date: 2/25/2020 7:20:00 AM Collected By: Debbie Goss
 Matrix: Drinking Water Sample Location: Ladies' Sink - 5th

Trace Metals by EPA 200.8 ICP-MS							Analyst: SJS		
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Copper	71.6		0.515	µg/L	1	3/9/2020	1300	A	
Lead	5.19		0.103	µg/L	1	3/9/2020	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#: 20030231
 12-Mar-20

Client: Lake County ESD
Project: ESD

TestCode: ICPMS_200.8_DW

Sample ID: MB-3286	SampType: MBLK	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 3/6/2020	RunNo: 8194
Client ID: PBW	Batch ID: 3286	TestNo: E200.8	E200.8	Analysis Date: 3/9/2020	SeqNo: 148583
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-3286	SampType: LCS	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 3/6/2020	RunNo: 8194
Client ID: LCSW	Batch ID: 3286	TestNo: E200.8	E200.8	Analysis Date: 3/9/2020	SeqNo: 148584
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Copper	106	0.520	100	0	106 85 115
Lead	102	0.104	100	0	102 85 115

Sample ID: 20030231-03AMS	SampType: MS	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 3/6/2020	RunNo: 8194
Client ID: Ladies' Sink - 5th	Batch ID: 3286	TestNo: E200.8	E200.8	Analysis Date: 3/9/2020	SeqNo: 148588
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Copper	171	0.520	100	71.6	99.0 70 130
Lead	106	0.104	100	5.19	101 70 130

Sample ID: 20030231-03AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 3/6/2020	RunNo: 8194
Client ID: Ladies' Sink - 5th	Batch ID: 3286	TestNo: E200.8	E200.8	Analysis Date: 3/9/2020	SeqNo: 148589
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Copper	166	0.520	100	71.6	94.7 70 130 171 2.59 20
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Qualifiers:

* Value exceeds Maximum Contaminant Level.	C1 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		

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QC SUMMARY REPORT

WO#: 20030231
 12-Mar-20

Client: Lake County ESD
Project: ESD

TestCode: ICPMS_200.8_DW

Sample ID: 20030231-03AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 3/6/2020	RunNo: 8194						
Client ID: Ladies' Sink - 5th	Batch ID: 3286	TestNo: E200.8	E200.8	Analysis Date: 3/9/2020	SeqNo: 148589						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	104	0.104	100	5.19	99.2	70	130	106	2.00	20	

Sample ID: MB-3285	SampType: MBLK	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 3/6/2020	RunNo: 8194						
Client ID: PBW	Batch ID: 3285	TestNo: E200.8	E200.8	Analysis Date: 3/9/2020	SeqNo: 148854						
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-3285	SampType: LCS	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 3/6/2020	RunNo: 8194						
Client ID: LCSW	Batch ID: 3285	TestNo: E200.8	E200.8	Analysis Date: 3/9/2020	SeqNo: 148855						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	105	0.520	100	0	105	85	115				
Lead	103	0.104	100	0	103	85	115				

Sample ID: 20030226-01AMS	SampType: MS	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 3/6/2020	RunNo: 8194						
Client ID: BatchQC	Batch ID: 3285	TestNo: E200.8	E200.8	Analysis Date: 3/9/2020	SeqNo: 148857						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	448	0.520	100	349	99.1	70	130				
Lead	101	0.104	100	0.913	100	70	130				

Qualifiers:

* Value exceeds Maximum Contaminant Level.	C1 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		

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QC SUMMARY REPORT

WO#: 20030231
 12-Mar-20

Client: Lake County ESD
Project: ESD

TestCode: ICPMS_200.8_DW

Sample ID: 20030226-01AMS	SampType: MS	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 3/6/2020	RunNo: 8194						
Client ID: BatchQC	Batch ID: 3285	TestNo: E200.8	E200.8	Analysis Date: 3/9/2020	SeqNo: 148857						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 20030226-01AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: µg/L	Prep Date: 3/6/2020	RunNo: 8194						
Client ID: BatchQC	Batch ID: 3285	TestNo: E200.8	E200.8	Analysis Date: 3/9/2020	SeqNo: 148858						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	447	0.520	100	349	98.8	70	130	448	0.0790	20	
Lead	102	0.104	100	0.913	102	70	130	101	1.48	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	C1 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

Sample Log-In Check List

Client Name: **LakeCountyESD**

Work Order Number: **20030231**

RcptNo: **1**

Logged by:	Vincenza Gill	3/5/2020 9:30:00 AM	<i>Vincenza Gill</i>
Completed By:	Katherine Crooks	3/5/2020 3:34:00 PM	<i>Katherine Crooks</i>
Reviewed By:	Tamra Schmedemann	3/12/2020 10:49:09 AM	<i>Tamra Schmedemann</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No HNO3 pH<2
 No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	Amb	Good				DLN



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:	LAKE COUNTY ESD	Project Name:	ESD	Attention:	Debbie Goss	<input checked="" type="checkbox"/> Standard: 10 Business Days	
Address:	357 NORTH L ST. LAKEVIEW OR 97630	Project Number:		Company Name:	see Section A	<input type="checkbox"/> Priority: 5 Business Days (List x 1.50)	
Email:	ss@rensens@lakeview.or.us	Report To:	Sara Sarsen	Address:		<input type="checkbox"/> Express: 3 Business Days (List x 1.75)	
Phone:	541-947-3371 Fax: 541-947-3373	Copy To:		P.O. #		<input type="checkbox"/> Rush: 2 Business Days (List x 2.00)	
Collected By (Print):	Debbie Goss					<input type="checkbox"/> Rush: Same Day (List x 3.00)	Authorized <input type="checkbox"/> Yes <input type="checkbox"/> No
Collected By (Sign):	<i>Debbie Goss</i>						
Email Report <input checked="" type="checkbox"/>	Mail Report <input type="checkbox"/>	Fax Report <input type="checkbox"/>					

Sample Information	Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	Analysis Requested		NRC Workorder # (Lab Use Only)	Remarks / Field Data	NRC Sample # (Lab Use Only)
							Lead	Copper			
Men's Sink - 4th/5th - 74166	DW		DW	2.25.20	7:22 am	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	20030231		01
Utility Sink - 5th - 71600	DW		DW	2.25.20	7:21 am	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			02
Ladies' Sink - 5th - 74174	DW		DW	2.25.20	7:20 am	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			03
Page 8 of 8											

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

Section E		Section F		Section G	
Relinquish/Receive	Sign	Relinquish/Receive	Sign	Lab Use Only	Temp: RMB
Received By:	<i>Debbie Goss</i>	Received By:	<i>Debbie Goss</i>	4°C +/- 2°C:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Relinquished By:		Relinquished By:		Received on Ice:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Received By:		Received By:		Number of Bottles Received:	3
Relinquished By:		Received By:		pH Checked:	
Received By Laboratory:	<i>Vincenta Gill</i>	Received By Laboratory:	<i>Vincenta Gill</i>	COC Seals Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
				Field Blank Included:	<input type="checkbox"/> Yes <input type="checkbox"/> No
				Received Via	UPS <input checked="" type="checkbox"/> FedEX <input type="checkbox"/> Other <input type="checkbox"/> Hand
				Payment:	<input checked="" type="checkbox"/> Invoice <input type="checkbox"/> Cash <input type="checkbox"/> VISA, M/C <input type="checkbox"/> Check # <input type="checkbox"/> Amount <input type="checkbox"/>