



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

April 30, 2019

Andy Chasteen  
Medford School District  
815 S Oakdale Ave  
Medford, OR 97501  
TEL: 541-842-3646  
FAX: 541-842-1160

RE: Jefferson Lead Testing

Order No.: 19040820

Dear Andy Chasteen:

Neilson Research Corporation received 4 sample(s) on 4/18/2019 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



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## Case Narrative

WO#: 19040820  
Date: 4/30/2019

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**CLIENT:** Medford School District

**Project:** Jefferson Lead Testing

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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.

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Original



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# Analytical Report

WO#: 19040820  
 Date Reported: 4/30/2019

Medford School District  
 815 S Oakdale Ave  
 Medford, OR 97501

**Lab Order:** 19040820  
**Received Date:** 4/18/2019 3:15:00 PM  
**Reported Date:** 4/30/2019 10:29:55 AM

Sample Information:

**Lab ID:** 19040820-01      Client Sample ID: Rm 10  
 Collection Date: 4/18/2019 3:07:00 PM      Collected By:  
 Matrix: Drinking Water      Sample Location: Rm 10

Trace Metals by EPA 200.8 ICP-MS								Analyst: CSB	
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Lead	0.0167	*	0.000100	mg/L	1	4/26/2019	0.0150	A	

**Lab ID:** 19040820-02      Client Sample ID: Media Center Work Rm  
 Collection Date: 4/18/2019 3:05:00 PM      Collected By:  
 Matrix: Drinking Water      Sample Location: Media Center Work Rm

Trace Metals by EPA 200.8 ICP-MS								Analyst: CSB	
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Lead	0.00100		0.000100	mg/L	1	4/26/2019	0.0150	A	

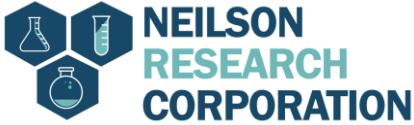
**Lab ID:** 19040820-03      Client Sample ID: Rm 31  
 Collection Date: 4/18/2019 3:00:00 PM      Collected By:  
 Matrix: Drinking Water      Sample Location: Rm 31

Trace Metals by EPA 200.8 ICP-MS								Analyst: CSB	
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Lead	0.0161	*	0.000100	mg/L	1	4/26/2019	0.0150	A	

<b>QUALIFIERS</b>	* 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

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# Analytical Report

WO#: 19040820  
 Date Reported: 4/30/2019

Medford School District  
 815 S Oakdale Ave  
 Medford, OR 97501

**Lab Order:** 19040820  
**Received Date:** 4/18/2019 3:15:00 PM  
**Reported Date:** 4/30/2019 10:29:55 AM

Sample Information:

**Lab ID:** 19040820-04      Client Sample ID: Rm 26  
 Collection Date: 4/18/2019 3:02:00 PM      Collected By:  
 Matrix: Drinking Water      Sample Location: Rm 26

Trace Metals by EPA 200.8 ICP-MS						Analyst: CSB			
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Lead	0.0599	*	0.000100	mg/L	1	4/26/2019	0.0150	A	

<b>QUALIFIERS</b>	*	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

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# QC SUMMARY REPORT

WO#: 19040820  
 30-Apr-19

**Client:** Medford School District  
**Project:** Jefferson Lead Testing

**TestCode:** ICPMS\_200.8\_DW

Sample ID: <b>MB-286</b>	SampType: <b>MBLK</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>4/24/2019</b>	RunNo: <b>616</b>						
Client ID: <b>PBW</b>	Batch ID: <b>286</b>	TestNo: <b>E200.8</b>	<b>E200.8</b>	Analysis Date: <b>4/24/2019</b>	SeqNo: <b>11218</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.000100									

Sample ID: <b>LCS-286</b>	SampType: <b>LCS</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>4/24/2019</b>	RunNo: <b>616</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>286</b>	TestNo: <b>E200.8</b>	<b>E200.8</b>	Analysis Date: <b>4/24/2019</b>	SeqNo: <b>11219</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.103	0.000100	0.1000	0	103	85	115				

Sample ID: <b>19040936-02AMS</b>	SampType: <b>MS</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>4/24/2019</b>	RunNo: <b>616</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>286</b>	TestNo: <b>E200.8</b>	<b>E200.8</b>	Analysis Date: <b>4/24/2019</b>	SeqNo: <b>11228</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.103	0.000100	0.1000	0.001234	101	70	130				

Sample ID: <b>19040936-02AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>4/24/2019</b>	RunNo: <b>616</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>286</b>	TestNo: <b>E200.8</b>	<b>E200.8</b>	Analysis Date: <b>4/24/2019</b>	SeqNo: <b>11229</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.101	0.000100	0.1000	0.001234	100	70	130	0.1026	1.07	20	

**Qualifiers:**

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

Original



# Chain of Custody Record

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

**Section A** Required Client Information  
 Company: Medford School Dist  
 Address: 815 S Bardahl  
 Email: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Collected By (Print): \_\_\_\_\_  
 Collected By (Sign): \_\_\_\_\_  
 Email Report \_\_\_ Mail Report \_\_\_ Fax Report \_\_\_

**Section B** Required Project Information  
 Project Name: Jefferson  
 Project Number: \_\_\_\_\_  
 Report To: \_\_\_\_\_  
 Copy To: \_\_\_\_\_

**Section C** Invoice Information  
 Attention: \_\_\_\_\_  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 P.O. # \_\_\_\_\_

**Section D** Rush Status (Subject to Scheduling)  
 Standard: 10 Business Days  
 Priority: 5 Business Days (List x 1.50)  
 Express: 3 Business Days (List x 1.75)  
 Rush: 2 Business Days (List x 2.00)  
 Rush: Same Day (List x 3.00)  
 Authorized Yes \_\_\_ No \_\_\_

Section E Sample Information				Section F Analysis Requested			
Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	Analysis Requested	NRC Workorder # (Lab Use Only)
Rm 10	S9083		4/18/19	3:07	1		19040820
Media Center work Rm.	S9107		4/18/19	3:05	1	XX lead	011A
Rm 31	S9103		4/18/19	3:00	1	XX	02A
Rm 2c	S9094		4/18/19	3:02	1	X	03A
							041A

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

**Section F** Relinquish/Receive  
 Relinquished By: [Signature] Sign  
 Received By: Mike Medel Sign  
 Relinquished By: \_\_\_\_\_  
 Received By: [Signature] Sign  
 Relinquished By: \_\_\_\_\_  
 Received By Laboratory: Neonics On Sign  
 Date: 4/18/19 Time: 3:15  
 Received Via: 4/18/19 15:15

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

- 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.