



# NEILSON RESEARCH CORPORATION

*Environmental Testing Laboratory*

8/4/2016

Rick Rose  
Medford School District  
815 S Oakdale Ave  
Medford, OR 97501

TEL: (541) 842-1138  
FAX 541-842-1160

RE: 16-11 Abe Lincoln Lead & Copper Study

Order No.: 1607A76

Dear Rick Rose:

Neilson Research Corporation received 6 sample(s) on 7/25/2016 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

245 S Grape St • Medford, OR 97501 • (541) 770-5678  
400 SE G St, Suite B • Grants Pass, OR 97526 • (541) 479-4053

[www.nrclabs.com](http://www.nrclabs.com)

# Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

## Analysis Report

ORELAP 100016  
EPA OR00028

**CLIENT:** Medford School District  
**Project:** 16-11 Abe Lincoln Lead & Copper Study  
**Lab Order:** 1607A76

**Date:** 04-Aug-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.

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245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

## Analysis Report

ORELAP 100016  
EPA OR00028

### Medford School District

815 S Oakdale Ave  
Medford, OR 97501

Lab Order: **1607A76**

NRC Sample ID: **1607A76-01A**

Collection Date: **7/23/2016 9:23:00 AM**

Received Date: **7/25/2016 3:56:00 PM**

Reported Date: **8/4/2016 7:47:44 AM**

### Sample Information:

### 16-11 Abe Lincoln Lead & Copper Study

Client Sample ID: Bottle #19467

Collectors Name: John Jessen

Sample Location: Outside Playground Retest

Source: City Water

## ANALYTICAL RESULTS

Analyses	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Lead	EPA 200.8	A	<b>0.00848</b>		0.000103	mg/L	0.020 AL	7/30/2016	OML

Notes: ND - Not Detected at the MRL

N.L. - No Limit

MRL - Minimum Reporting Limit

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## Analysis Report

ORELAP 100016  
EPA OR00028

Medford School District  
815 S Oakdale Ave  
Medford, OR 97501

Lab Order: **1607A76**  
NRC Sample ID: **1607A76-02A**  
Collection Date: **7/23/2016 9:29:00 AM**  
Received Date: **7/25/2016 3:56:00 PM**  
Reported Date: **8/4/2016 7:47:44 AM**

### Sample Information:

**16-11 Abe Lincoln Lead & Copper Study**

Client Sample ID: Bottle #17059  
Collectors Name: John Jessen  
Sample Location: Room 15 DF Retest  
Source: City Water

## ANALYTICAL RESULTS

Analyses	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Copper	EPA 200.8	A	<b>0.885</b>		0.000515	mg/L	1.3 AL	7/30/2016	OML

Notes: ND - Not Detected at the MRL

N.L. - No Limit

MRL - Minimum Reporting Limit

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## Analysis Report

ORELAP 100016  
EPA OR00028

Medford School District  
815 S Oakdale Ave  
Medford, OR 97501

Lab Order: **1607A76**  
NRC Sample ID: **1607A76-03A**  
Collection Date: **7/23/2016 9:31:00 AM**  
Received Date: **7/25/2016 3:56:00 PM**  
Reported Date: **8/4/2016 7:47:44 AM**

### Sample Information:

16-11 Abe Lincoln Lead & Copper Study

Client Sample ID: Bottle #19480  
Collectors Name: John Jessen  
Sample Location: Room 12 DF Retest  
Source: City Water

## ANALYTICAL RESULTS

Analyses	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Copper	EPA 200.8	A	1.07		0.00103	mg/L	1.3 AL	8/1/2016	OML

Notes: ND - Not Detected at the MRL

N.L. - No Limit

MRL - Minimum Reporting Limit

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## Analysis Report

ORELAP 100016  
EPA OR00028

Medford School District  
815 S Oakdale Ave  
Medford, OR 97501

Lab Order: **1607A76**  
NRC Sample ID: **1607A76-04A**  
Collection Date: **7/23/2016 9:35:00 AM**  
Received Date: **7/25/2016 3:56:00 PM**  
Reported Date: **8/4/2016 7:47:44 AM**

### Sample Information:

**16-11 Abe Lincoln Lead & Copper Study**

Client Sample ID: Bottle #17085  
Collectors Name: John Jessen  
Sample Location: Health Rm Sink Retest  
Source: City Water

## ANALYTICAL RESULTS

Analyses	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Lead	EPA 200.8	A	<b>0.00131</b>		0.000103	mg/L	0.020 AL	7/30/2016	OML

Notes: ND - Not Detected at the MRL

N.L. - No Limit

MRL - Minimum Reporting Limit

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## Analysis Report

ORELAP 100016  
EPA OR00028

Medford School District  
815 S Oakdale Ave  
Medford, OR 97501

Lab Order: **1607A76**  
NRC Sample ID: **1607A76-05A**  
Collection Date: **7/23/2016 9:38:00 AM**  
Received Date: **7/25/2016 3:56:00 PM**  
Reported Date: **8/4/2016 7:47:44 AM**

### Sample Information:

16-11 Abe Lincoln Lead & Copper Study

Client Sample ID: Bottle #17083  
Collectors Name: John Jessen  
Sample Location: Staff Brk Rm Sink Retest  
Source: City Water

## ANALYTICAL RESULTS

Analyses	Method	NELAP		Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
		Accredited	Result						
Copper	EPA 200.8	A	<b>0.703</b>		0.000515	mg/L	1.3 AL	7/30/2016	OML
Lead	EPA 200.8	A	<b>0.000977</b>		0.000103	mg/L	0.020 AL	7/30/2016	OML

Notes: ND - Not Detected at the MRL

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MRL - Minimum Reporting Limit

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## Analysis Report

ORELAP 100016  
EPA OR00028

Medford School District  
815 S Oakdale Ave  
Medford, OR 97501

Lab Order: **1607A76**  
NRC Sample ID: **1607A76-06A**  
Collection Date: **7/23/2016 9:13:00 AM**  
Received Date: **7/25/2016 3:56:00 PM**  
Reported Date: **8/4/2016 7:47:44 AM**

### Sample Information:

**16-11 Abe Lincoln Lead & Copper Study**

Client Sample ID: Bottle #19490  
Collectors Name: John Jessen  
Sample Location: Staff Brk Rm Ice Mkr L Retest  
Source: City Water

## ANALYTICAL RESULTS

Analyses	Method	NELAP		Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
		Accredited	Result						
Copper	EPA 200.8	A	<b>1.73</b>	*	0.00515	mg/L	1.3 AL	8/1/2016	OML
Lead	EPA 200.8	A	<b>0.00476</b>		0.000103	mg/L	0.020 AL	7/30/2016	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:** Medford School District  
**Work Order:** 1607A76  
**Project:** 16-11 Abe Lincoln Lead & Copper Study

**ANALYTICAL QC SUMMARY REPORT**

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

Sample ID <b>MB-35990</b>	SampType: <b>MBLK</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>7/27/2016</b>	RunNo: <b>88844</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>35990</b>	TestNo: <b>EPA 200.8</b>	<b>(EPA 200.8)</b>	Analysis Date: <b>7/30/2016</b>	SeqNo: <b>1334946</b>						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	ND	0.000515									
Lead	ND	0.000103									

Sample ID <b>LCS-35990</b>	SampType: <b>LCS</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>7/27/2016</b>	RunNo: <b>88844</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>35990</b>	TestNo: <b>EPA 200.8</b>	<b>(EPA 200.8)</b>	Analysis Date: <b>7/30/2016</b>	SeqNo: <b>1334947</b>						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	0.09385	0.000520	0.1	0	93.8	85	115				
Lead	0.1046	0.000104	0.1	0	105	85	115				

Sample ID <b>1607A82-06AMS</b>	SampType: <b>MS</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>7/27/2016</b>	RunNo: <b>88844</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>35990</b>	TestNo: <b>EPA 200.8</b>	<b>(EPA 200.8)</b>	Analysis Date: <b>7/30/2016</b>	SeqNo: <b>1334970</b>						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	0.3503	0.000520	0.1	0.245	105	70	130				
Lead	0.09819	0.000104	0.1	0.00112	97.1	70	130				

Sample ID <b>1607A82-06AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>7/27/2016</b>	RunNo: <b>88844</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>35990</b>	TestNo: <b>EPA 200.8</b>	<b>(EPA 200.8)</b>	Analysis Date: <b>7/30/2016</b>	SeqNo: <b>1334971</b>						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	0.3517	0.000520	0.1	0.245	107	70	130	0.3503	0.415	20	
Lead	0.09771	0.000104	0.1	0.00112	96.6	70	130	0.09819	0.488	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



Neilson  
RESEARCH  
CORPORATION  
Environmental Testing Laboratory  
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(541) 770-5578 Fax (541) 770-2901

# Abe Lincoln Chain of Custody Record

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

### Section A Required Client Information

Company: Hell, School Dist 549C  
 Address: 815 S. Oakdale  
 Email: sickvog@medford.k12.or.us  
 Phone: 541-842-1138 Fax: 541-842-1160  
 Collected By (Print): Johs Sessen  
 Collected By (Sign): [Signature]  
 Email Report: Yes \_\_\_ No \_\_\_  
 Fax Report: Yes \_\_\_ No \_\_\_

### Section B Required Project Information

Project Name: 2016 Lead Test  
 Project Number: 16-11/Abe Lincoln  
 Report To: sickvog@medford.k12.or.us  
 Copy To: Van, henniger@medford.k12.or.us  
 P.O. #

### Section C Invoice Information

Attention:  
 Company Name:  
 Address:  
 P.O. #

### Section D Rush Status (Subject to Scheduling)

Standard 10-14 Days  
 5 Business Days (50% surcharge)  
 3 Business Days (75% surcharge)  
 24 - 48 hours (100% surcharge)  
 Other  
 Authorized: Yes \_\_\_ No \_\_\_

### Section E Sample Information

Sample ID	Comp/Grab	Matrix	Date Collected	Time Collected	No. of Containers	Analysis Requested
Analyst's Requested						
Lead	Outside Playground DE Retest		7/29/16	9:23am	1	
Copper	Rm 15 DE Retest			9:23pm	1	
Copper	Rm 12 DE Retest			9:31pm	1	
Copper	Health Rm Smt Retest			9:35pm	1	
Lead	Health Rm Smt Retest			9:38pm	1	
Lead & Copper	Staff Bkt Rm Smt Retest			9:38pm	1	
Lead & Copper	Staff Bkt Rm Smt Retest			9:13AM	1	

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

### Section F Relinquish/Receive

Relinquished By: [Signature] Sign  
 Received By: [Signature]  
 Relinquished By: [Signature]  
 Received By: [Signature]  
 Relinquished By: [Signature]  
 Received By: [Signature]  
 Relinquished By: [Signature]  
 Received By: [Signature]  
 Relinquished By: [Signature]  
 Received By: [Signature]  
 Relinquished By: [Signature]  
 Received By: [Signature]

### Section G Lab Use Only

Temp: AMB  
 4°C-12°C: Yes \_\_\_ No \_\_\_  
 Received on Ice: Yes \_\_\_ No \_\_\_  
 Number of Bottles Received: 10  
 pH Checked: NA  
 COC Seals Intact: Yes \_\_\_ No \_\_\_  
 Field Blank Included: Yes \_\_\_ No \_\_\_

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