



NEILSON RESEARCH CORPORATION

Environmental Testing Laboratory

8/3/2016

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

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

RE: 16-24 Jackson Lead Retest

Order No.: 1608001

Dear Rick Rose:

Neilson Research Corporation received 4 sample(s) on 8/1/2016 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

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: 16-24 Jackson Lead Retest
Lab Order: 1608001

Date: 03-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.

Neilson Research Corporation

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Analysis Report

ORELAP 100016
EPA OR00028

Medford School District
815 S Oakdale Ave
Medford, OR 97501

Lab Order: **1608001**
NRC Sample ID: **1608001-01A**
Collection Date: **7/31/2016 6:10:00 AM**
Received Date: **8/1/2016 8:10:00 AM**
Reported Date: **8/3/2016 3:55:01 PM**

Sample Information:

16-24 Jackson Lead Retest

Client Sample ID: Bottle #21209
Collectors Name: John Jessen
Sample Location: Rm 104 Mech Rm Pot 2nd
Source: City Water

ANALYTICAL RESULTS

Analyses	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Lead	EPA 200.8	A	0.0107		0.0001	mg/L	0.020 AL	8/2/2016	OML

Notes: ND - Not Detected at the MRL

N.L. - No Limit

MRL - Minimum Reporting Limit

Neilson Research Corporation

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Analysis Report

ORELAP 100016
EPA OR00028

Medford School District
815 S Oakdale Ave
Medford, OR 97501

Lab Order: **1608001**
NRC Sample ID: **1608001-02A**
Collection Date: **7/31/2016 6:17:00 AM**
Received Date: **8/1/2016 8:10:00 AM**
Reported Date: **8/3/2016 3:55:01 PM**

Sample Information:

16-24 Jackson Lead Retest

Client Sample ID: Bottle #21180
Collectors Name: John Jessen
Sample Location: Rm 121 DF Retest
Source: City Water

ANALYTICAL RESULTS

Analyses	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Lead	EPA 200.8	A	0.00255		0.000103	mg/L	0.020 AL	8/2/2016	OML

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

Medford School District
815 S Oakdale Ave
Medford, OR 97501

Lab Order: **1608001**
NRC Sample ID: **1608001-03A**
Collection Date: **7/31/2016 6:21:00 AM**
Received Date: **8/1/2016 8:10:00 AM**
Reported Date: **8/3/2016 3:55:01 PM**

Sample Information:

16-24 Jackson Lead Retest

Client Sample ID: Bottle #21196
Collectors Name: John Jessen
Sample Location: Rm 214 DF Retest
Source: City Water

ANALYTICAL RESULTS

Analyses	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Lead	EPA 200.8	A	0.00198		0.000103	mg/L	0.020 AL	8/2/2016	OML

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 OR0028

Medford School District
815 S Oakdale Ave
Medford, OR 97501

Lab Order: **1608001**
NRC Sample ID: **1608001-04A**
Collection Date: **7/31/2016 6:05:00 AM**
Received Date: **8/1/2016 8:10:00 AM**
Reported Date: **8/3/2016 3:55:01 PM**

Sample Information:

16-24 Jackson Lead Retest

Client Sample ID: Bottle #21177
Collectors Name: John Jessen
Sample Location: Fire Vault Ames Backflow 2
Source: City Water

ANALYTICAL RESULTS

Analyses	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Lead	EPA 200.8	A	0.0161	CF	0.0001	mg/L	0.020 AL	8/2/2016	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: 1608001
 Project: 16-24 Jackson Lead Retest

ANALYTICAL QC SUMMARY REPORT

TestCode: ICPMS_200.8_SCHOOL

Sample ID	MB-36077	SampType:	MBLK	TestCode:	ICPMS_200.8	Units:	mg/L	Prep Date:	8/2/2016	RunNo:	88921					
Client ID:	ZZZZZ	Batch ID:	36077	TestNo:	EPA 200.8		(EPA 200.8)	Analysis Date:	8/2/2016	SeqNo:	1336905					
Analyte		Result		MRL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.000103

Sample ID	MB-36075	SampType:	MBLK	TestCode:	ICPMS_200.8	Units:	mg/L	Prep Date:	8/2/2016	RunNo:	88921					
Client ID:	ZZZZZ	Batch ID:	36075	TestNo:	EPA 200.8		(EPA 200.8)	Analysis Date:	8/2/2016	SeqNo:	1336920					
Analyte		Result		MRL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.000100

Sample ID	LCS-36077	SampType:	LCS	TestCode:	ICPMS_200.8	Units:	mg/L	Prep Date:	8/2/2016	RunNo:	88921					
Client ID:	ZZZZZ	Batch ID:	36077	TestNo:	EPA 200.8		(EPA 200.8)	Analysis Date:	8/2/2016	SeqNo:	1336906					
Analyte		Result		MRL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 0.09328 0.000104 0.1 0 93.3 85 115

Sample ID	LCS-36075	SampType:	LCS	TestCode:	ICPMS_200.8	Units:	mg/L	Prep Date:	8/2/2016	RunNo:	88921					
Client ID:	ZZZZZ	Batch ID:	36075	TestNo:	EPA 200.8		(EPA 200.8)	Analysis Date:	8/2/2016	SeqNo:	1336921					
Analyte		Result		MRL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 0.09308 0.000100 0.1 0 93.1 85 115

Sample ID	1608009-57AMS	SampType:	MS	TestCode:	ICPMS_200.8	Units:	mg/L	Prep Date:	8/2/2016	RunNo:	88921					
Client ID:	ZZZZZ	Batch ID:	36077	TestNo:	EPA 200.8		(EPA 200.8)	Analysis Date:	8/2/2016	SeqNo:	1336916					
Analyte		Result		MRL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 0.09993 0.000104 0.1 0.005531 94.4 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: Medford School District
 Work Order: 1608001
 Project: 16-24 Jackson Lead Retest

ANALYTICAL QC SUMMARY REPORT

TestCode: ICPMS_200.8_SCHOOL

Sample ID	1608009-52AMS	SampType: MS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 8/2/2016	RunNo: 88921					
Client ID:	ZZZZZ	Batch ID: 36075	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 8/2/2016	SeqNo: 1336932					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	0.09730	0.000100	0.1	0.002946	94.4	70	130				
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Sample ID	1608009-57AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 8/2/2016	RunNo: 88921					
Client ID:	ZZZZZ	Batch ID: 36077	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 8/2/2016	SeqNo: 1336917					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	0.09782	0.000104	0.1	0.005531	92.3	70	130	0.09993	2.14	20	
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Sample ID	1608009-52AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 8/2/2016	RunNo: 88921					
Client ID:	ZZZZZ	Batch ID: 36075	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 8/2/2016	SeqNo: 1336933					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	0.09672	0.000100	0.1	0.002946	93.8	70	130	0.0973	0.598	20	
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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

Jackson

Chain of Custody Record

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

RUSH

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information		Section D Rush Status (Subject to Scheduling)	
Company: <u>Hel. S.A. Dist. 549C</u>		Project Name: <u>2016 Lead Testing</u>		Attention:		Standard 10-14 Days	
Address: <u>818 S. Oakdale</u>		Project Number: <u>16-24 Jackson</u>		Company Name:		5 Business Days (50% surcharge)	
<u>Medford OR 97501</u>		Report To: <u>Rich, rex@chattah.com</u>		Address:		3 Business Days (75% surcharge)	
Email: <u>rich.rex@chattah.com</u>		Copy To: <u>van.konfer@chattah.com</u>		P.O. #		24 - 48 hours (100% surcharge)	
Phone: <u>541-944-5673</u> Fax:		Collected By (Print): <u>John Sessen</u>		Authorized: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Collected By (Sign): <u>[Signature]</u>		Email Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Fax Report <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							

Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	Analysis Requested			
<u>Rm 104 Mech Rm Main Petrolle 2nd Grain</u>			<u>7/31/16</u>	<u>6:10am</u>	<u>1</u>				
<u>Rm 101 DF Rest</u>				<u>6:17am</u>	<u>1</u>				
<u>Rm 214 DF Rest</u>				<u>6:21am</u>	<u>1</u>				
<u>Fire Vault 6' Ames Buckrow Test Port 2</u>				<u>6:05am</u>	<u>1</u>				

Section E Sample Information		Section F Relinquish/Receive		Section G Lab Use Only	
Matrix: <u>DW - Drinking Water</u> <u>WW - Wastewater</u> <u>W - Water</u> <u>S - Soil/Solid</u> <u>SL - Sludge</u> <u>O - Oil</u> <u>WP - Wipe</u> <u>OT - Other</u>		Print: <u>John Sessen</u>		Date: <u>8/1/16</u> Time: <u>8:10am</u>	
Received By: <u>[Signature]</u>		Relinquished By: <u>[Signature]</u>		Temp: <u>Ambient</u>	
Received By: <u>[Signature]</u>		Relinquished By: <u>[Signature]</u>		4°C +/- 2°C: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Received By: <u>[Signature]</u>		Relinquished By: <u>[Signature]</u>		Received on ice: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Received By: <u>[Signature]</u>		Relinquished By: <u>[Signature]</u>		Number of Bottles Received: <u>4</u>	
Received By Laboratory: <u>[Signature]</u>		Relinquished By Laboratory: <u>[Signature]</u>		pH Checked: <u>NA</u>	
				COC Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	

Payment: <input checked="" type="checkbox"/> Invoice	<input type="checkbox"/> Cash	<input type="checkbox"/> VISA, M/C	<input type="checkbox"/> Check #	Amount: _____
Received Via: <input type="checkbox"/> UPS		<input type="checkbox"/> FedEx		<input checked="" type="checkbox"/> Hand