



Neilson Research Corporation
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Website: www.nrclabs.com

January 07, 2020

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

RE: 18-44 Oak Grove 2019 Lead Testing

Order No.: 19121148

Dear Ron Havniar:

Neilson Research Corporation received 4 sample(s) on 12/27/2019 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#: 19121148
Date: 1/7/2020

CLIENT: Medford School District
Project: 18-44 Oak Grove 2019 Lead Testing

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#: 19121148
 Date Reported: 1/7/2020

Medford School District
 815 S Oakdale Ave
 Medford, OR 97501

Lab Order: 19121148
Received Date: 12/27/2019 12:37:00 PM
Reported Date: 1/7/2020 5:43:00 PM

Sample Information:

Lab ID: 19121148-01 Client Sample ID: Near Room 1 Men's RR Sink (1)
 Collection Date: 12/27/2019 11:00:00 AM Collected By:
 Matrix: Drinking Water Sample Location: Near Room 1 Men's RR Sink (1)

Trace Metals by EPA 200.8 ICP-MS								Analyst: SJS
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Lead	0.00300		0.000100	mg/L	1	1/6/2020	0.0150	A

Lab ID: 19121148-02 Client Sample ID: Inside Kitchen Unisex RR (East) Sink
 Collection Date: 12/27/2019 10:57:00 AM Collected By:
 Matrix: Drinking Water Sample Location: Inside Kitchen Unisex RR (East) Sink

Trace Metals by EPA 200.8 ICP-MS								Analyst: SJS
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Lead	0.00785		0.000100	mg/L	1	1/6/2020	0.0150	A

Lab ID: 19121148-03 Client Sample ID: Inside Kitchen Unisex RR (West) Sink
 Collection Date: 12/27/2019 9:50:00 AM Collected By:
 Matrix: Drinking Water Sample Location: Inside Kitchen Unisex RR (West) Sink

Trace Metals by EPA 200.8 ICP-MS								Analyst: SJS
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Lead	0.0313	*	0.000100	mg/L	1	1/6/2020	0.0150	A

QUALIFIERS	* Value exceeds Maximum Contaminant Level.	C1 Sample container temperature is out of limit as specified at testcod
	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

Original



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Analytical Report

WO#: 19121148
 Date Reported: 1/7/2020

Medford School District
 815 S Oakdale Ave
 Medford , OR 97501

Lab Order: 19121148
Received Date: 12/27/2019 12:37:00 PM
Reported Date: 1/7/2020 5:43:00 PM

Sample Information:

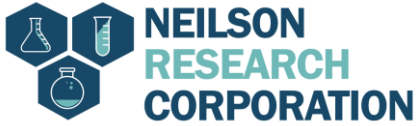
Lab ID: 19121148-04 Client Sample ID: Kitchen Sink (Hand Wash)
 Collection Date: 12/27/2019 10:58:00 AM Collected By:
 Matrix: Drinking Water Sample Location: Kitchen Sink (Hand Wash)

Trace Metals by EPA 200.8 ICP-MS						Analyst: SJS			
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Lead	0.0159	*	0.000100	mg/L	1	1/7/2020	0.0150	A	

QUALIFIERS	* Value exceeds Maximum Contaminant Level.	C1 Sample container temperature is out of limit as specified at testcod
	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#: 19121148
 07-Jan-20

Client: Medford School District
Project: 18-44 Oak Grove 2019 Lead Testing

TestCode: LEAD_DW

Sample ID: MB-2760	SampType: MBLK	TestCode: LEAD_DW	Units: mg/L	Prep Date: 12/31/2019	RunNo: 6754						
Client ID: PBW	Batch ID: 2760	TestNo: E200.8	E200.8	Analysis Date: 1/6/2020	SeqNo: 124839						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.000100

Sample ID: LCS-2760	SampType: LCS	TestCode: LEAD_DW	Units: mg/L	Prep Date: 12/31/2019	RunNo: 6754						
Client ID: LCSW	Batch ID: 2760	TestNo: E200.8	E200.8	Analysis Date: 1/6/2020	SeqNo: 124840						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 0.111 0.000100 0.1000 0 111 85 115

Sample ID: 19121145-01AMS	SampType: MS	TestCode: LEAD_DW	Units: mg/L	Prep Date: 12/31/2019	RunNo: 6754						
Client ID: BatchQC	Batch ID: 2760	TestNo: E200.8	E200.8	Analysis Date: 1/6/2020	SeqNo: 124842						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 0.108 0.000100 0.1000 0.0002290 107 70 130

Sample ID: 19121145-01AMSD	SampType: MSD	TestCode: LEAD_DW	Units: mg/L	Prep Date: 12/31/2019	RunNo: 6754						
Client ID: BatchQC	Batch ID: 2760	TestNo: E200.8	E200.8	Analysis Date: 1/6/2020	SeqNo: 124843						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 0.100 0.000100 0.1000 0.0002290 100 70 130 0.1076 6.83 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 exceed
 MI Recovery outside control limits due to Matrix Interference ND Not Detected at the Reporting Limit PL Permit Limit
 RL Reporting Detection Limit

Original

- 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.