

Analytical Laboratory Group, Inc.
361 West Fifth Avenue ♦ Eugene, OR 97401
541-485-8404 ♦ 1-800-262-5973
Fax: 541-484-5995

Oregon ORELAP Accredited
Laboratory ID# OR100012
Accredited in accordance with NELAP/TNI
Accredited analytes marked "¥"

ANALYSIS REPORT

System	Lawrence Subdivision Water Association, Inc	Lab Order No.	1905B90
PWS ID#	OR4100474	Date Received	5/28/2019
Attention	James Lee		
Bill To	Lawrence Subdivision Water Assoc, C/O Koopman		
Address	1055 W. Airway Road, Suite C102		
	Lebanon, OR 97355		

CASE NARRATIVE

This report presents the results of the analyses of the sample(s) received on the date above and assigned the listed ALG lab report numbers. Test results relate only to the parameters tested and to the samples as received by the laboratory. This report shall not be reproduced, except in full, without written consent of Analytical Laboratory Group, Inc.

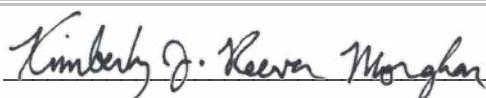
ALG recommends that Public Water Systems monitor the Oregon DHS website (<http://170.104.158.45/inventory.php3>) to verify that all expected compliance testing results have been entered.

Analyses were performed according to the Analytical Laboratory Group, Inc. Quality Assurance Program. All QA/QC requirements were met except as noted below. For ORELAP accredited analytes (identified by "¥") test results meet all requirements of NELAP/TNI except as noted below. Analytical comments are noted with data flags on the reports.

Volatile Organic Compounds by EPA 524.2 were analyzed by Neilson Research Corporation, Medford, OR; ORELAP ID# OR100016. Vinyl Chloride, 2,2-Dichloropropane, Bromoform, Bromomethane, Chloroethane, and Chloromethane by EPA 524.2: The Matrix Spike (MS) recovery was outside of the acceptance limits due to sample matrix interference. No other anomalies associated with the analysis of these sample(s) were reported except as noted in the NRC Case Narrative or qualified with data flags on the NRC report. For NRC Case Narrative see ALG Report Page 5.

Note: This is a resample for the Volatile Organic Compounds by EPA 524.2 that were cancelled on Workorder 1905253.

Approved



Laboratory Quality Manager

Date 6/13/2019

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Oregon ORELAP Accredited
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Accredited in accordance with NELAP/TNI
Accredited analytes marked "¥"

ANALYSIS REPORT

System	Lawrence Subdivision Water Association, Inc	Lab Sample ID	1905B90-001
PWS ID#	OR4100474	Date Received	5/28/19 1323
Source ID	EP-A	Collection Date	5/28/19 1115
		Collected By	Brian Hill per ALG SOP #G141
Attention	James Lee	Sample Point	Entry Point
Bill To	Lawrence Subdivision Water Assoc, C/O Koopman	Sample Type	Routine
Address	1055 W. Airway Road, Suite C102		
	Lebanon, OR 97355		

VOLATILE ORGANIC COMPOUNDS - REGULATED EPA 524.2

Analyte	EPA CODE	PWS MCL	Reporting Limit	Results	Units	Analysis Date/Analyst
1,1,1-Trichloroethane	2981	0.2	0.0005	ND	mg/L	5/31/19 CSB
1,1,2-Trichloroethane	2985	0.005	0.0005	ND	mg/L	5/31/19 CSB
1,1-Dichloroethylene	2977	0.007	0.0005	ND	mg/L	5/31/19 CSB
1,2,4-Trichlorobenzene	2378	0.07	0.0005	ND	mg/L	5/31/19 CSB
1,2-Dichloroethane	2980	0.005	0.0005	ND	mg/L	5/31/19 CSB
1,2-Dichloropropane	2983	0.005	0.0005	ND	mg/L	5/31/19 CSB
Benzene	2990	0.005	0.0005	ND	mg/L	5/31/19 CSB
Carbon Tetrachloride	2982	0.005	0.0005	ND	mg/L	5/31/19 CSB
Chlorobenzene	2989	0.1	0.0005	ND	mg/L	5/31/19 CSB
cis-1,2-Dichloroethylene	2380	0.07	0.0005	ND	mg/L	5/31/19 CSB
Dichloromethane	2964	0.005	0.0005	ND	mg/L	5/31/19 CSB
Ethylbenzene	2992	0.7	0.0005	ND	mg/L	5/31/19 CSB
o-Dichlorobenzene	2968	0.6	0.0005	ND	mg/L	5/31/19 CSB
p-Dichlorobenzene	2969	0.075	0.0005	ND	mg/L	5/31/19 CSB
Styrene	2996	0.1	0.0005	ND	mg/L	5/31/19 CSB
Tetrachloroethylene	2987	0.005	0.0005	ND	mg/L	5/31/19 CSB
Toluene	2991	1	0.0005	ND	mg/L	5/31/19 CSB
trans-1,2-Dichloroethylene	2979	0.1	0.0005	ND	mg/L	5/31/19 CSB
Trichloroethylene	2984	0.005	0.0005	ND	mg/L	5/31/19 CSB
Vinyl Chloride	2976	0.002	0.0005	ND*	mg/L	5/31/19 CSB
Xylenes	2955	10	0.0005	ND	mg/L	5/31/19 CSB

ND means Not Detected at the listed Reporting Limits.
 Analysis by Neilson Research Corporation, ORELAP ID# OR100016, Medford, OR.
 Analytical results meet all NELAP/TNI requirements unless otherwise noted

*Vinyl Chloride by EPA 524.2: The Matrix Spike (MS) recovery was greater than the acceptance limits due to sample matrix interference.

6/13/2019

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Accredited analytes marked "¥"

ANALYSIS REPORT

System	Lawrence Subdivision Water Association, Inc	Lab Sample ID	1905B90-001
PWS ID#	OR4100474	Date Received	5/28/19 1323
Source ID	EP-A	Collection Date	5/28/19 1115
		Collected By	Brian Hill per ALG SOP #G141
Attention	James Lee	Sample Point	Entry Point
Bill To	Lawrence Subdivision Water Assoc, C/O Koopman	Sample Type	Routine
Address	1055 W. Airway Road, Suite C102		
	Lebanon, OR 97355		

VOLATILE ORGANIC COMPOUNDS - UNREGULATED EPA 524.2

Analyte	EPA CODE	Reporting Limit	Results	Units	Analysis Date/Analyst
1,1-Dichloroethane	2978	0.0005	ND	mg/L	5/31/19 CSB
1,1-Dichloropropene	2410	0.0005	ND	mg/L	5/31/19 CSB
1,1,1,2-Tetrachloroethane	2986	0.0005	ND	mg/L	5/31/19 CSB
1,1,2,2-Tetrachloroethane	2988	0.0005	ND	mg/L	5/31/19 CSB
1,2,3-Trichloropropane	2414	0.0005	ND	mg/L	5/31/19 CSB
1,3-Dichloropropane	2412	0.0005	ND	mg/L	5/31/19 CSB
1,3-Dichloropropene	2413	0.0005	ND	mg/L	5/31/19 CSB
2,2-Dichloropropane	2416	0.0005	ND*	mg/L	5/31/19 CSB
Bromobenzene	2993	0.0005	ND	mg/L	5/31/19 CSB
Bromodichloromethane	2943	0.0005	0.000650	mg/L	5/31/19 CSB
Bromoform	2942	0.0005	0.000730*	mg/L	5/31/19 CSB
Bromomethane	2214	0.0005	ND*	mg/L	5/31/19 CSB
Chlorodibromomethane	2944	0.0005	0.00125	mg/L	5/31/19 CSB
Chloroethane	2216	0.0005	ND*	mg/L	5/31/19 CSB
Chloroform	2941	0.0005	ND	mg/L	5/31/19 CSB
Chloromethane	2210	0.0005	ND*	mg/L	5/31/19 CSB
Dibromomethane	2408	0.0005	ND	mg/L	5/31/19 CSB
m-Dichlorobenzene	2967	0.0005	ND	mg/L	5/31/19 CSB
Methyl tert-butyl ether	2251	0.0005	ND	mg/L	5/31/19 CSB
o-Chlorotoluene	2965	0.0005	ND	mg/L	5/31/19 CSB
p-Chlorotoluene	2966	0.0005	ND	mg/L	5/31/19 CSB

ND means Not Detected at the listed Reporting Limits.
 Analysis by Neilson Research Corporation, ORELAP ID# OR100016, Medford, OR.
 Analytical results meet all NELAP/TNI requirements unless otherwise noted

*2,2-Dichloropropane, Bromoform, Bromomethane, Chloroethane, and Chloromethane by EPA 524.2: The Matrix Spike (MS) recovery was outside of the acceptance limits due to sample matrix interference.

6/13/2019



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

June 12, 2019

Cynthia O Kelley
Analytical Laboratory Group, Inc.
361 West Fifth Avenue
Eugene, OR 97401
TEL: (800) 262-5973
FAX: (541) 484-5995

RE: 1905B90

Order No.: 19051209

Dear Cynthia O Kelley:

Neilson Research Corporation received 2 sample(s) on 5/30/2019 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



Neilson Research Corporation
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Case Narrative

WO#: 19051209
Date: 6/12/2019

CLIENT: Analytical Laboratory Group, Inc.

Project: 1905B90

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



Neilson Research Corporation
 245 S Grape St
 Medford, OR 97501
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 Website: www.nrclabs.com

Analytical Report

WO#: 19051209
 Date Reported: 6/12/2019

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 19051209-01A
Client Sample ID: 1905B90-001A
Project: 1905B90
Sample Location: Entry Point
Sample Address:

Collection Date: 5/28/2019 11:15:00 AM
Received Date: 5/30/2019 10:18:00 AM
Matrix: DRINKING WATER
PWS #:
Source ID:
Sample Collector:

Analyses	Code	Method	NELAP		Qual		RL Units	Date	
			Status	Result	DF	MCL Analyzed		Analyst	
1,1,1-Trichloroethane (1,1,1-TCA)	2981	E524.2	A	ND	1	0.000500 mg/L	0.200	05/31/19 17:14	CSB
1,1,2-Trichloroethane	2985	E524.2	A	ND	1	0.000500 mg/L	0.00500	05/31/19 17:14	CSB
1,1-Dichloroethylene	2977	E524.2	A	ND	1	0.000500 mg/L	0.00700	05/31/19 17:14	CSB
1,2,4-Trichlorobenzene	2378	E524.2	A	ND	1	0.000500 mg/L	0.0700	05/31/19 17:14	CSB
1,2-Dichloroethane (EDC)	2980	E524.2	A	ND	1	0.000500 mg/L	0.00500	05/31/19 17:14	CSB
1,2-Dichloropropane	2983	E524.2	A	ND	1	0.000500 mg/L	0.00500	05/31/19 17:14	CSB
Benzene	2990	E524.2	A	ND	1	0.000500 mg/L	0.00500	05/31/19 17:14	CSB
Carbon tetrachloride	2982	E524.2	A	ND	1	0.000500 mg/L	0.00500	05/31/19 17:14	CSB
cis-1,2-Dichloroethene	2380	E524.2	A	ND	1	0.000500 mg/L	0.0700	05/31/19 17:14	CSB
Dichloromethane	2964	E524.2	A	ND	1	0.000500 mg/L	0.00500	05/31/19 17:14	CSB
Ethylbenzene	2992	E524.2	A	ND	1	0.000500 mg/L	0.700	05/31/19 17:14	CSB
Monochlorobenzene	2989	E524.2	A	ND	1	0.000500 mg/L	0.100	05/31/19 17:14	CSB
o-Dichlorobenzene	2968	E524.2	A	ND	1	0.000500 mg/L	0.600	05/31/19 17:14	CSB
p-Dichlorobenzene	2969	E524.2	A	ND	1	0.000500 mg/L	0.0750	05/31/19 17:14	CSB
Styrene	2996	E524.2	A	ND	1	0.000500 mg/L	0.100	05/31/19 17:14	CSB
Tetrachloroethene (PCE)	2987	E524.2	A	ND	1	0.000500 mg/L	0.00500	05/31/19 17:14	CSB
Toluene	2991	E524.2	A	ND	1	0.000500 mg/L	1.00	05/31/19 17:14	CSB
trans-1,2-Dichloroethylene	2979	E524.2	A	ND	1	0.000500 mg/L	0.100	05/31/19 17:14	CSB
Trichloroethene (TCE)	2984	E524.2	A	ND	1	0.000500 mg/L	0.00500	05/31/19 17:14	CSB
Vinyl chloride	2976	E524.2	A	ND MI	1	0.000500 mg/L	0.00200	05/31/19 17:14	CSB
Xylenes, Total	2955	E524.2	A	ND	1	0.000500 mg/L	10.0	05/31/19 17:14	CSB
1,1,1,2-Tetrachloroethane	2986	E524.2	A	ND	1	0.000500 mg/L		05/31/19 17:14	CSB
1,1,2,2-Tetrachloroethane	2988	E524.2	A	ND	1	0.000500 mg/L		05/31/19 17:14	CSB
1,1-Dichloroethane	2978	E524.2	A	ND	1	0.000500 mg/L		05/31/19 17:14	CSB
1,1-Dichloropropene	2410	E524.2	A	ND	1	0.000500 mg/L		05/31/19 17:14	CSB
1,2,3-Trichloropropane	2414	E524.2	A	ND	1	0.000500 mg/L		05/31/19 17:14	CSB
1,3-Dichloropropane	2412	E524.2	A	ND	1	0.000500 mg/L		05/31/19 17:14	CSB
1,3-Dichloropropene	2413	E524.2	A	ND	1	0.000500 mg/L		05/31/19 17:14	CSB
2,2-Dichloropropane	2416	E524.2	A	ND MI	1	0.000500 mg/L		05/31/19 17:14	CSB
Bromobenzene	2993	E524.2	A	ND	1	0.000500 mg/L		05/31/19 17:14	CSB
Bromodichloromethane	2943	E524.2	A	0.000650	1	0.000500 mg/L		05/31/19 17:14	CSB

QUALIFIERS
 CI Sample container temperature is out of limit as specified at testcode
 MI Recovery outside control limits due to Matrix Interference
 PL Permit Limit
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Original

NELAP NELAP A Accredited. ORELAP 100016, OR-028



Neilson Research Corporation
 245 S Grape St
 Medford, OR 97501
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 Website: www.nrclabs.com

Analytical Report

WO#: 19051209
 Date Reported: 6/12/2019

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 19051209-01A
Client Sample ID: 1905B90-001A
Project: 1905B90
Sample Location: Entry Point
Sample Address:

Collection Date: 5/28/2019 11:15:00 AM
Received Date: 5/30/2019 10:18:00 AM
Matrix: DRINKING WATER
PWS #:
Source ID:
Sample Collector:

Analyses	Code	Method	NELAP		Qual		RL Units	Date	
			Status	Result	MI	DF		MCL Analyzed	Analyst
Bromoform	2942	E524.2	A	0.000730	MI	1	0.000500 mg/L	05/31/19 17:14	CSB
Bromomethane	2214	E524.2	A	ND	MI	1	0.000500 mg/L	05/31/19 17:14	CSB
Chloroethane	2216	E524.2	A	ND	MI	1	0.000500 mg/L	05/31/19 17:14	CSB
Chloroform	2941	E524.2	A	ND		1	0.000500 mg/L	05/31/19 17:14	CSB
Chloromethane	2210	E524.2	A	ND	MI	1	0.000500 mg/L	05/31/19 17:14	CSB
Dibromochloromethane	2944	E524.2	A	0.00125		1	0.000500 mg/L	05/31/19 17:14	CSB
Dibromomethane	2408	E524.2	A	ND		1	0.000500 mg/L	05/31/19 17:14	CSB
m-Dichlorobenzene	2967	E524.2	A	ND		1	0.000500 mg/L	05/31/19 17:14	CSB
m,p-Xylene	2955	E524.2	A	ND		1	0.000500 mg/L	05/31/19 17:14	CSB
Methyl tert-butyl ether	2251	E524.2	A	ND		1	0.000500 mg/L	05/31/19 17:14	CSB
o-Chlorotoluene	2965	E524.2	A	ND		1	0.000500 mg/L	05/31/19 17:14	CSB
o-Xylene		E524.2	A	ND		1	0.000500 mg/L	05/31/19 17:14	CSB
p-Chlorotoluene	2966	E524.2	A	ND		1	0.000500 mg/L	05/31/19 17:14	CSB
cis-1,3-Dichloropropene	2413	E524.2	A	ND		1	0.000500 mg/L	05/31/19 17:14	CSB
trans-1,3-dichloropropene		E524.2	A	ND		1	0.000500 mg/L	05/31/19 17:14	CSB
Surr: Dibromofluoromethane		E524.2	A	108		1	80 - 120 %Rec	05/31/19 17:14	CSB
Surr: Toluene-d8		E524.2		101		1	80 - 120 %Rec	05/31/19 17:14	CSB
Surr: 4-Bromofluorobenzene		E524.2		110		1	80 - 120 %Rec	05/31/19 17:14	CSB

QUALIFIERS

CI Sample container temperature is out of limit as specified at testcode
 MI Recovery outside control limits due to Matrix Interference
 PL Permit Limit
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Original

NELAP

NELAP A Accredited. ORELAP 100016, OR-028



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QC SUMMARY REPORT

WO#: 19051209
 12-Jun-19

Client: Analytical Laboratory Group, Inc.
Project: 1905B90

TestCode: EPA524.2_DW

Sample ID:	SampType:	TestCode:	Units:	Prep Date:	RunNo:						
19051170-02ADUP	DUP	EPA524.2_D	mg/L		1503						
Client ID:	Batch ID:	TestNo:		Analysis Date:	SeqNo:						
BatchQC	R1503	E524.2		5/31/2019	27941						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane (1,1,1-TCA)	ND	0.000500						0	0	20	
1,1,2-Trichloroethane	ND	0.000500						0	0	20	
1,1-Dichloroethylene	ND	0.000500						0	0	20	
1,2,4-Trichlorobenzene	ND	0.000500						0	0	20	
1,2-Dichloroethane (EDC)	ND	0.000500						0	0	20	
1,2-Dichloropropane	ND	0.000500						0	0	20	
Benzene	ND	0.000500						0	0	20	
Carbon tetrachloride	ND	0.000500						0	0	20	
cis-1,2-Dichloroethene	ND	0.000500						0	0	20	
Dichloromethane	ND	0.000500						0	0	20	
Ethylbenzene	ND	0.000500						0	0	20	
Monochlorobenzene	ND	0.000500						0	0	20	
o-Dichlorobenzene	ND	0.000500						0	0	20	
p-Dichlorobenzene	ND	0.000500						0	0	20	
Styrene	ND	0.000500						0	0	20	
Tetrachloroethene (PCE)	ND	0.000500						0	0	20	
Toluene	ND	0.000500						0	0	20	
trans-1,2-Dichloroethylene	ND	0.000500						0	0	20	
Trichloroethene (TCE)	ND	0.000500						0	0	20	
Vinyl chloride	ND	0.000500						0	0	20	
Xylenes, Total	ND	0.000500						0	0	20	
1,1,1,2-Tetrachloroethane	ND	0.000500						0	0	20	
1,1,2,2-Tetrachloroethane	ND	0.000500						0	0	20	
1,1-Dichloroethane	ND	0.000500						0	0	20	
1,1-Dichloropropene	ND	0.000500						0	0	20	
1,2,3-Trichloropropane	ND	0.000500						0	0	20	

Qualifiers: 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 In
 ND Not Detected at the Reporting Limit PL Permit Limit RL Reporting Detection Limit

Original



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

QC SUMMARY REPORT

WO#: 19051209
 12-Jun-19

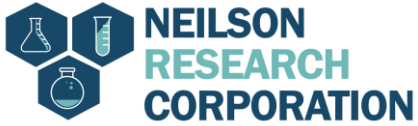
Client: Analytical Laboratory Group, Inc.
Project: 1905B90

TestCode: EPA524.2_DW

Sample ID:	19051170-02ADUP	SampType:	DUP	TestCode:	EPA524.2_D	Units:	mg/L	Prep Date:	RunNo:	1503	
Client ID:	BatchQC	Batch ID:	R1503	TestNo:	E524.2	Analysis Date:	5/31/2019	SeqNo:	27941		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	ND	0.000500						0	0	20	
1,3-Dichloropropene	ND	0.000500						0	0	20	
2,2-Dichloropropane	ND	0.000500						0	0	20	
Bromobenzene	ND	0.000500						0	0	20	
Bromodichloromethane	ND	0.000500						0	0	20	
Bromoform	ND	0.000500						0	0	20	
Bromomethane	ND	0.000500						0	0	20	
Chloroethane	ND	0.000500						0	0	20	
Chloroform	ND	0.000500						0	0	20	
Chloromethane	ND	0.000500						0	0	20	
Dibromochloromethane	ND	0.000500						0	0	20	
Dibromomethane	ND	0.000500						0	0	20	
m-Dichlorobenzene	ND	0.000500						0	0	20	
Methyl tert-butyl ether	ND	0.000500						0	0	20	
o-Chlorotoluene	ND	0.000500						0	0	20	
p-Chlorotoluene	ND	0.000500						0	0	20	
m,p-Xylene	ND	0.000500						0	0	0	
o-Xylene	ND	0.000500						0	0	0	
cis-1,3-Dichloropropene	ND	0.000500						0	0	0	
trans-1,3-dichloropropene	ND	0.000500						0	0	0	
Surr: Dibromofluoromethane	0.0414		0.04000		103	80	120		0	0	
Surr: Toluene-d8	0.0396		0.04000		99.0	80	120		0	0	
Surr: 4-Bromofluorobenzene	0.0430		0.04000		108	80	120		0	0	

Qualifiers: 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 In
 ND Not Detected at the Reporting Limit PL Permit Limit RL Reporting Detection Limit

Original



Neilson Research Corporation
 245 S Grape St
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 Website: www.nrclabs.com

QC SUMMARY REPORT

WO#: 19051209
 12-Jun-19

Client: Analytical Laboratory Group, Inc.
Project: 1905B90

TestCode: EPA524.2_DW

Sample ID: 19051209-01AMS	SampType: MS	TestCode: EPA524.2_D	Units: mg/L	Prep Date:	RunNo: 1503						
Client ID: 1905B90-001A	Batch ID: R1503	TestNo: E524.2		Analysis Date: 5/31/2019	SeqNo: 27946						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane (1,1,1-TCA)	0.0219	0.000500	0.02000	0	109	70	130				
1,1,2-Trichloroethane	0.0203	0.000500	0.02000	0	101	70	130				
1,1-Dichloroethylene	0.0212	0.000500	0.02000	0	106	70	130				
1,2,4-Trichlorobenzene	0.0142	0.000500	0.02000	0	71.2	70	130				
1,2-Dichloroethane (EDC)	0.0212	0.000500	0.02000	0	106	70	130				
1,2-Dichloropropane	0.0215	0.000500	0.02000	0	108	70	130				
Benzene	0.0202	0.000500	0.02000	0	101	70	130				
Carbon tetrachloride	0.0217	0.000500	0.02000	0	109	70	130				
cis-1,2-Dichloroethene	0.0202	0.000500	0.02000	0	101	70	130				
Dichloromethane	0.0193	0.000500	0.02000	0	96.5	70	130				
Ethylbenzene	0.0216	0.000500	0.02000	0	108	70	130				
Monochlorobenzene	0.0196	0.000500	0.02000	0	98.0	70	130				
o-Dichlorobenzene	0.0191	0.000500	0.02000	0	95.6	70	130				
p-Dichlorobenzene	0.0183	0.000500	0.02000	0	91.6	70	130				
Styrene	0.0177	0.000500	0.02000	0	88.4	70	130				
Tetrachloroethene (PCE)	0.0188	0.000500	0.02000	0	94.0	70	130				
Toluene	0.0202	0.000500	0.02000	0	101	70	130				
trans-1,2-Dichloroethylene	0.0207	0.000500	0.02000	0	103	70	130				
Trichloroethene (TCE)	0.0195	0.000500	0.02000	0	97.5	70	130				
Vinyl chloride	0.0522	0.000500	0.02000	0	261	70	130				MI
Xylenes, Total	0.0627	0.000500	0.06000	0	105	70	130				
1,1,1,2-Tetrachloroethane	0.0203	0.000500	0.02000	0	101	70	130				
1,1,2,2-Tetrachloroethane	0.0200	0.000500	0.02000	0	99.8	70	130				
1,1-Dichloroethane	0.0219	0.000500	0.02000	0	110	70	130				
1,1-Dichloropropene	0.0214	0.000500	0.02000	0	107	70	130				
1,2,3-Trichloropropane	0.0195	0.000500	0.02000	0	97.4	70	130				

Qualifiers: 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 In
 ND Not Detected at the Reporting Limit PL Permit Limit RL Reporting Detection Limit

Original



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

QC SUMMARY REPORT

WO#: 19051209

12-Jun-19

Client: Analytical Laboratory Group, Inc.
Project: 1905B90

TestCode: EPA524.2_DW

Sample ID: 19051209-01AMS	SampType: MS	TestCode: EPA524.2_D	Units: mg/L	Prep Date:	RunNo: 1503						
Client ID: 1905B90-001A	Batch ID: R1503	TestNo: E524.2		Analysis Date: 5/31/2019	SeqNo: 27946						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	0.0208	0.000500	0.02000	0	104	70	130				
1,3-Dichloropropene	0.0315	0.000500	0.04000	0	78.7	70	130				
2,2-Dichloropropane	0.0118	0.000500	0.02000	0	58.9	70	130				MI
Bromobenzene	0.0188	0.000500	0.02000	0	93.8	70	130				
Bromodichloromethane	0.0210	0.000500	0.02000	0.0006500	102	70	130				
Bromoform	0.0136	0.000500	0.02000	0.0007300	64.3	70	130				MI
Bromomethane	0.0383	0.000500	0.02000	0	192	70	130				MI
Chloroethane	0.0534	0.000500	0.02000	0	267	70	130				MI
Chloroform	0.0219	0.000500	0.02000	0	109	70	130				
Chloromethane	0.0490	0.000500	0.02000	0	245	70	130				MI
Dibromochloromethane	0.0167	0.000500	0.02000	0.001250	77.2	70	130				
Dibromomethane	0.0201	0.000500	0.02000	0	101	70	130				
m-Dichlorobenzene	0.0190	0.000500	0.02000	0	95.1	70	130				
Methyl tert-butyl ether	0.0180	0.000500	0.02000	0	90.0	70	130				
o-Chlorotoluene	0.0215	0.000500	0.02000	0	108	70	130				
p-Chlorotoluene	0.0212	0.000500	0.02000	0	106	70	130				
m,p-Xylene	0.0442	0.000500	0.04000	0	111	70	130				
o-Xylene	0.0185	0.000500	0.02000	0	92.4	70	130				
cis-1,3-Dichloropropene	0.0154	0.000500	0.02000	0	76.8	70	130				
trans-1,3-dichloropropene	0.0161	0.000500	0.02000	0	80.4	70	130				
Surr: Dibromofluoromethane	0.0408		0.04000		102	80	120				
Surr: Toluene-d8	0.0426		0.04000		107	80	120				
Surr: 4-Bromofluorobenzene	0.0428		0.04000		107	80	120				

Qualifiers: 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 In
 ND Not Detected at the Reporting Limit PL Permit Limit RL Reporting Detection Limit

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QC SUMMARY REPORT

WO#: 19051209
 12-Jun-19

Client: Analytical Laboratory Group, Inc.
Project: 1905B90

TestCode: EPA524.2_DW

Sample ID: MBLK	SampType: MBLK	TestCode: EPA524.2_D	Units: mg/L	Prep Date:	RunNo: 1503						
Client ID: PBW	Batch ID: R1503	TestNo: E524.2		Analysis Date: 5/31/2019	SeqNo: 27948						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane (1,1,1-TCA)	ND	0.000500									
1,1,2-Trichloroethane	ND	0.000500									
1,1-Dichloroethylene	ND	0.000500									
1,2,4-Trichlorobenzene	ND	0.000500									
1,2-Dichloroethane (EDC)	ND	0.000500									
1,2-Dichloropropane	ND	0.000500									
Benzene	ND	0.000500									
Carbon tetrachloride	ND	0.000500									
cis-1,2-Dichloroethene	ND	0.000500									
Dichloromethane	ND	0.000500									
Ethylbenzene	ND	0.000500									
Monochlorobenzene	ND	0.000500									
o-Dichlorobenzene	ND	0.000500									
p-Dichlorobenzene	ND	0.000500									
Styrene	ND	0.000500									
Tetrachloroethene (PCE)	ND	0.000500									
Toluene	ND	0.000500									
trans-1,2-Dichloroethylene	ND	0.000500									
Trichloroethene (TCE)	ND	0.000500									
Vinyl chloride	ND	0.000500									
Xylenes, Total	ND	0.000500									
1,1,1,2-Tetrachloroethane	ND	0.000500									
1,1,2,2-Tetrachloroethane	ND	0.000500									
1,1-Dichloroethane	ND	0.000500									
1,1-Dichloropropene	ND	0.000500									
1,2,3-Trichloropropane	ND	0.000500									

Qualifiers: 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 In
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QC SUMMARY REPORT

WO#: 19051209
 12-Jun-19

Client: Analytical Laboratory Group, Inc.
Project: 1905B90

TestCode: EPA524.2_DW

Sample ID: MBLK	SampType: MBLK	TestCode: EPA524.2_D	Units: mg/L	Prep Date:	RunNo: 1503						
Client ID: PBW	Batch ID: R1503	TestNo: E524.2		Analysis Date: 5/31/2019	SeqNo: 27948						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	ND	0.000500									
1,3-Dichloropropene	ND	0.000500									
2,2-Dichloropropane	ND	0.000500									
Bromobenzene	ND	0.000500									
Bromodichloromethane	ND	0.000500									
Bromoform	ND	0.000500									
Bromomethane	ND	0.000500									
Chloroethane	ND	0.000500									
Chloroform	ND	0.000500									
Chloromethane	ND	0.000500									
Dibromochloromethane	ND	0.000500									
Dibromomethane	ND	0.000500									
m-Dichlorobenzene	ND	0.000500									
Methyl tert-butyl ether	ND	0.000500									
o-Chlorotoluene	ND	0.000500									
p-Chlorotoluene	ND	0.000500									
m,p-Xylene	ND	0.000500									
o-Xylene	ND	0.000500									
cis-1,3-Dichloropropene	ND	0.000500									
trans-1,3-dichloropropene	ND	0.000500									
Surr: Dibromofluoromethane	0.0399		0.04000		99.7	80	120				
Surr: Toluene-d8	0.0404		0.04000		101	80	120				
Surr: 4-Bromofluorobenzene	0.0441		0.04000		110	80	120				

Qualifiers: 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 In
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QC SUMMARY REPORT

WO#: 19051209
 12-Jun-19

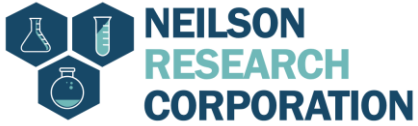
Client: Analytical Laboratory Group, Inc.
Project: 1905B90

TestCode: EPA524.2_DW

Sample ID: LCS	SampType: LCS	TestCode: EPA524.2_D	Units: mg/L	Prep Date:	RunNo: 1503						
Client ID: LCSW	Batch ID: R1503	TestNo: E524.2		Analysis Date: 5/31/2019	SeqNo: 28482						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane (1,1,1-TCA)	0.0209	0.000500	0.02000	0	104	70	130				
1,1,2-Trichloroethane	0.0216	0.000500	0.02000	0	108	70	130				
1,1-Dichloroethylene	0.0211	0.000500	0.02000	0	105	70	130				
1,2,4-Trichlorobenzene	0.0176	0.000500	0.02000	0	88.1	70	130				
1,2-Dichloroethane (EDC)	0.0225	0.000500	0.02000	0	113	70	130				
1,2-Dichloropropane	0.0229	0.000500	0.02000	0	114	70	130				
Benzene	0.0217	0.000500	0.02000	0	109	70	130				
Carbon tetrachloride	0.0225	0.000500	0.02000	0	112	70	130				
cis-1,2-Dichloroethene	0.0214	0.000500	0.02000	0	107	70	130				
Dichloromethane	0.0194	0.000500	0.02000	0	97.1	70	130				
Ethylbenzene	0.0237	0.000500	0.02000	0	118	70	130				
Monochlorobenzene	0.0218	0.000500	0.02000	0	109	70	130				
o-Dichlorobenzene	0.0219	0.000500	0.02000	0	110	70	130				
p-Dichlorobenzene	0.0206	0.000500	0.02000	0	103	70	130				
Styrene	0.0208	0.000500	0.02000	0	104	70	130				
Tetrachloroethene (PCE)	0.0209	0.000500	0.02000	0	104	70	130				
Toluene	0.0220	0.000500	0.02000	0	110	70	130				
trans-1,2-Dichloroethylene	0.0208	0.000500	0.02000	0	104	70	130				
Trichloroethene (TCE)	0.0212	0.000500	0.02000	0	106	70	130				
Vinyl chloride	0.0209	0.000500	0.02000	0	104	70	130				
Xylenes, Total	0.0677	0.000500	0.06000	0	113	70	130				
1,1,1,2-Tetrachloroethane	0.0220	0.000500	0.02000	0	110	70	130				
1,1,2,2-Tetrachloroethane	0.0217	0.000500	0.02000	0	109	70	130				
1,1-Dichloroethane	0.0207	0.000500	0.02000	0	103	70	130				
1,1-Dichloropropene	0.0227	0.000500	0.02000	0	114	70	130				
1,2,3-Trichloropropane	0.0216	0.000500	0.02000	0	108	70	130				

Qualifiers: 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 In
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QC SUMMARY REPORT

WO#: 19051209
 12-Jun-19

Client: Analytical Laboratory Group, Inc.
Project: 1905B90

TestCode: EPA524.2_DW

Sample ID: LCS	SampType: LCS	TestCode: EPA524.2_D	Units: mg/L	Prep Date:	RunNo: 1503						
Client ID: LCSW	Batch ID: R1503	TestNo: E524.2		Analysis Date: 5/31/2019	SeqNo: 28482						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	0.0224	0.000500	0.02000	0	112	70	130				
1,3-Dichloropropene	0.0406	0.000500	0.04000	0	102	70	130				
2,2-Dichloropropane	0.0226	0.000500	0.02000	0	113	70	130				
Bromobenzene	0.0214	0.000500	0.02000	0	107	70	130				
Bromodichloromethane	0.0226	0.000500	0.02000	0	113	70	130				
Bromoform	0.0186	0.000500	0.02000	0	92.9	70	130				
Bromomethane	0.0184	0.000500	0.02000	0	92.0	70	130				
Chloroethane	0.0217	0.000500	0.02000	0	108	70	130				
Chloroform	0.0212	0.000500	0.02000	0	106	70	130				
Chloromethane	0.0191	0.000500	0.02000	0	95.4	70	130				
Dibromochloromethane	0.0195	0.000500	0.02000	0	97.4	70	130				
Dibromomethane	0.0214	0.000500	0.02000	0	107	70	130				
m-Dichlorobenzene	0.0221	0.000500	0.02000	0	110	70	130				
Methyl tert-butyl ether	0.0193	0.000500	0.02000	0	96.6	70	130				
o-Chlorotoluene	0.0240	0.000500	0.02000	0	120	70	130				
p-Chlorotoluene	0.0236	0.000500	0.02000	0	118	70	130				
Surr: Dibromofluoromethane	0.0385		0.04000		96.2	80	120				
Surr: Toluene-d8	0.0422		0.04000		105	80	120				
Surr: 4-Bromofluorobenzene	0.0430		0.04000		107	80	120				

Qualifiers: 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 In
 ND Not Detected at the Reporting Limit PL Permit Limit RL Reporting Detection Limit

Original

Analytical Laboratory Group, Inc.

361 WEST FIFTH AVENUE
 EUGENE, OREGON 97401
 800-262-5973/541-485-8404 Fax 541-484-5995
 Email: alglabs@alglabsinc.com



Delivering more than just test results

CHAIN OF CUSTODY

Attention: Cynthia O'Kelley	Client: Analytical Laboratory Group, Inc
Phone: 541-485-8404	Address: 361 West 5th Avenue
Fax: 541-484-5995	Eugene, OR 97401
Client Project: Neilson Subcontract	SOURCE: Drinking Water ALG PO# 190529-03

Lab ID	ALG Sample ID	ALG Client ID	Sample Matrix & Description Grab/Comp	Collection		Bottles	Analysis Requested
				Date	Time		
OIA	1905B90-001A	Entry Point	DW/Grab	5/28/19	1115	(4) 524 + TB	VOC by EPA 524.2*

Notes:
 Please Return Shipper
 Include: MDL
 *Resample of WO# 1905253

Turn Around Time Requested:	Shipped Via: UPS	Refrigerated
NORMAL		YES 4.5°C

COC and PO made by: <i>Rhonda Hill</i>	Date	Time	Received by:	Date	Time
	5/29/19	14:04			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory: <i>[Signature]</i>	Date	Time
				5/29/19	10:18

-
- 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.

SC
ML

Delivering more than
just test results

Analytical Laboratory Group, Inc.

361 WEST FIFTH AVENUE

EUGENE, OREGON 97401

800-262-5973/541-485-8404 Fax 541-484-5995

Email: alglabs@alglabsinc.com



CHAIN OF CUSTODY PUBLIC WATER SUPPLY 'CHEMICALS'

◆ ICE SAMPLES AND DELIVER WITHIN 24 HOURS OF COLLECTION TIME ◆

◆ PLEASE SEE SAMPLING INSTRUCTIONS ◆

System Name:	Lawrence Subdivision Wtr Assn	PWS ID: OR4100474
Attention:	Lawrence Subdivision Water Assoc: C/O Koopman Consulting	Source ID: EP- A
Mailing Address:	1055 W. Airway Road, Suite C102 Lebanon, OR 97355	Sample Type: Circle <u>Routine</u> or <u>Special</u>
Phone:	541-258-2562	Sample Point: ENTRY POINT
Email:	tkconsultingoffice@gmail.com	Collected by: BRHill per SOP 6/14/1
Notes:	RESAMPLE FOR WO 1905253	Date & Time Collected: 05/28/19 1115
		If Sample Type is 'Routine' do you want the lab to send a copy to DHS DWP? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Lab ID Lab Use Only	Bottles	Analysis
001A	4 '524.2' + TB (HCl dropper)	<input checked="" type="checkbox"/> Volatile Organics (VOCs) (Subcontracted to another laboratory)

Turn Around Time Requested:	RUSH <input type="checkbox"/> <u>NORMAL</u> <input checked="" type="checkbox"/>	Shipped Via: ALG	Refrigerated Ice 11.6C
Relinquished by:	Date Time	Received by:	Date Time
Relinquished by:	Date Time	Received by:	Date Time
Relinquished by:	Date Time	Received by Laboratory:	Date Time
<i>[Signature]</i>	5/28/19 1323	<i>[Signature]</i>	5/28/19 1323