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

July 24, 2024

Teresa Coley
Sprague River Water Quality Lab
5671 Sprague River Road
Chiloquin, OR 97624
TEL: (541) 827-5231
FAX

RE: RES Order No.: 24070475

Dear Teresa Coley:

Neilson Research Corporation received 4 sample(s) on 7/11/2024 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

Original

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

Case Narrative

WO#: **24070475**
Date: **7/24/2024**

CLIENT: Sprague River Water Quality Lab
Project: RES

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

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

Analytical Report

WO#: **24070475**
Date Reported: **7/24/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24070475-01
Client Sample ID 4071003-01
Project: RES
Sample Location: Comp

Collection Date: 7/9/2024 10:26:00 AM
Received Date: 7/11/2024 10:30:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED TRACE METALS											
Aluminum, Dissolved	E200.7	A	0.0200		1	0.00895	0.0200	mg/L		07/15/24 17:49	CJS
TRACE METALS BY EPA 200.7 ICP											
Aluminum	E200.7	A	0.233		1	0.00895	0.0200	mg/L		07/19/24 18:32	CBB
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	1.67		1	0.192	0.500	mg/L		07/15/24 17:40	KN
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	1.51		1	0.0989	0.500	mg/L		07/18/24 15:02	KN

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit

Original

NELAP NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028

NEILSON RESEARCH CORPORATION

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

Analytical Report

WO#: **24070475**
Date Reported: **7/24/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24070475-02
Client Sample ID 4071003-02
Project: RES
Sample Location: Comp

Collection Date: 7/9/2024 10:48:00 AM
Received Date: 7/11/2024 10:30:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	0.372	J	1	0.192	0.500	mg/L		07/15/24 17:58	KN
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	0.231	J	1	0.0989	0.500	mg/L		07/18/24 15:20	KN

QUALIFIERS

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 comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Original

NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028

NEILSON RESEARCH CORPORATION

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

Analytical Report

WO#: **24070475**
Date Reported: **7/24/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24070475-03
Client Sample ID 4071003-03
Project: RES
Sample Location: Comp

Collection Date: 7/9/2024 12:00:00 PM
Received Date: 7/11/2024 10:30:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED TRACE METALS											
Aluminum, Dissolved	E200.7	A	0.0178	J	1	0.00895	0.0200	mg/L		07/15/24 17:52	CJS
TRACE METALS BY EPA 200.7 ICP											
Aluminum	E200.7	A	0.121		1	0.00895	0.0200	mg/L		07/19/24 18:35	CBB
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	1.57		1	0.192	0.500	mg/L		07/15/24 18:16	KN
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	1.44		1	0.0989	0.500	mg/L		07/18/24 16:15	KN

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit

Original

NELAP NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028

NEILSON RESEARCH CORPORATION

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

Analytical Report

WO#: **24070475**
Date Reported: **7/24/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24070475-04
Client Sample ID 4071003-04
Project: RES
Sample Location: Comp

Collection Date: 7/9/2024 10:55:00 AM
Received Date: 7/11/2024 10:30:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED TRACE METALS											
Aluminum, Dissolved	E200.7	A	ND		1	0.00895	0.0200	mg/L		07/15/24 17:55	CJS
TRACE METALS BY EPA 200.7 ICP											
Aluminum	E200.7	A	ND		1	0.00895	0.0200	mg/L		07/19/24 18:38	CBB
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	0.320	J	1	0.192	0.500	mg/L		07/15/24 18:34	KN
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	0.281	JR4	1	0.0989	0.500	mg/L		07/18/24 16:51	KN

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit

Original

NELAP

NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028

NEILSON RESEARCH CORPORATION

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#: **24070475**
24-Jul-24

Client: Sprague River Water Quality Lab
Project: RES **TestCode:** **DOC_W**

Sample ID: **MB**	SampType: **MBLK**	TestCode: **DOC_W**	Units: **mg/L**	Prep Date: **7/15/2024**	RunNo: **51072**
Client ID: **PBW**	Batch ID: **R51072**	TestNo: **A5310C**		Analysis Date: **7/15/2024**	SeqNo: **840889**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	ND	0.500									

Sample ID: **LCS - 15599**	SampType: **LCS**	TestCode: **DOC_W**	Units: **mg/L**	Prep Date: **7/15/2024**	RunNo: **51072**
Client ID: **LCSW**	Batch ID: **R51072**	TestNo: **A5310C**		Analysis Date: **7/15/2024**	SeqNo: **840890**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	3.54	0.500	3.750	0	94.4	90	110				

Sample ID: **24070473-01BMS**	SampType: **MS**	TestCode: **DOC_W**	Units: **mg/L**	Prep Date: **7/15/2024**	RunNo: **51072**
Client ID: **BatchQC**	Batch ID: **R51072**	TestNo: **A5310C**		Analysis Date: **7/15/2024**	SeqNo: **840896**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	2.89	0.500	2.500	0.4316	98.4	85	115				

Sample ID: **24070473-02BDUP**	SampType: **DUP**	TestCode: **DOC_W**	Units: **mg/L**	Prep Date: **7/15/2024**	RunNo: **51072**
Client ID: **BatchQC**	Batch ID: **R51072**	TestNo: **A5310C**		Analysis Date: **7/15/2024**	SeqNo: **840898**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	2.19	0.500						2.142	2.06	15	

Qualifiers:

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original

NEILSON RESEARCH CORPORATION

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#: **24070475**

24-Jul-24

Client: Sprague River Water Quality Lab
Project: RES

TestCode: **ICP_200.7_W**

Sample ID:	**MB-25947**	SampType:	**MBLK**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**7/18/2024**	RunNo:	**51194**
Client ID:	**PBW**	Batch ID:	**25947**	TestNo:	**E200.7**	**E200.7**		Analysis Date:	**7/19/2024**	SeqNo:	**843017**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.0200									

Sample ID:	**LCS-25947**	SampType:	**LCS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**7/18/2024**	RunNo:	**51194**
Client ID:	**LCSW**	Batch ID:	**25947**	TestNo:	**E200.7**	**E200.7**		Analysis Date:	**7/19/2024**	SeqNo:	**843018**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	1.06	0.0200	1.000	0	106	85	115				

Sample ID:	**24070383-01AMS**	SampType:	**MS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**7/18/2024**	RunNo:	**51194**
Client ID:	**BatchQC**	Batch ID:	**25947**	TestNo:	**E200.7**	**E200.7**		Analysis Date:	**7/19/2024**	SeqNo:	**843020**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	11.6	0.0200	11.00	0.3603	102	70	130				

Sample ID:	**24070383-01AMSD**	SampType:	**MSD**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**7/18/2024**	RunNo:	**51194**
Client ID:	**BatchQC**	Batch ID:	**25947**	TestNo:	**E200.7**	**E200.7**		Analysis Date:	**7/19/2024**	SeqNo:	**843021**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	11.6	0.0200	11.00	0.3603	102	70	130	11.59	0.311	20	

Qualifiers:

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original

NEILSON RESEARCH CORPORATION

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#: **24070475**

24-Jul-24

Client: Sprague River Water Quality Lab
Project: RES

TestCode: **ICP_200.7_W_DISS2**

Sample ID:	**MB-25900**	SampType:	**MBLK**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**7/12/2024**	RunNo:	**51077**
Client ID:	**PBW**	Batch ID:	**25900**	TestNo:	**E200.7**	**E3005**		Analysis Date:	**7/15/2024**	SeqNo:	**840967**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	ND	0.0200									

Sample ID:	**LCS-25900**	SampType:	**LCS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**7/12/2024**	RunNo:	**51077**
Client ID:	**LCSW**	Batch ID:	**25900**	TestNo:	**E200.7**	**E3005**		Analysis Date:	**7/15/2024**	SeqNo:	**840968**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	1.05	0.0200	1.000	0	105	85	115				

Sample ID:	**24070183-01BMS**	SampType:	**MS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**7/12/2024**	RunNo:	**51077**
Client ID:	**BatchQC**	Batch ID:	**25900**	TestNo:	**E200.7**	**E3005**		Analysis Date:	**7/15/2024**	SeqNo:	**840972**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	11.5	0.0200	11.00	0.09891	103	70	130				

Sample ID:	**24070183-01BMSD**	SampType:	**MSD**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**7/12/2024**	RunNo:	**51077**
Client ID:	**BatchQC**	Batch ID:	**25900**	TestNo:	**E200.7**	**E3005**		Analysis Date:	**7/15/2024**	SeqNo:	**840973**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	11.5	0.0200	11.00	0.09891	103	70	130	11.47	0.131	20	

Qualifiers:

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original

NEILSON RESEARCH CORPORATION

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#: **24070475**

24-Jul-24

Client: Sprague River Water Quality Lab
Project: RES **TestCode:** **TOC_5310C**

Sample ID: **MB**	SampType: **MBLK**	TestCode: **TOC_5310C**	Units: **mg/L**	Prep Date: **7/18/2024**	RunNo: **51169**
Client ID: **PBW**	Batch ID: **R51169**	TestNo: **A5310C**		Analysis Date: **7/18/2024**	SeqNo: **842516**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	ND	0.500									

Sample ID: **LCS - 15599**	SampType: **LCS**	TestCode: **TOC_5310C**	Units: **mg/L**	Prep Date: **7/18/2024**	RunNo: **51169**
Client ID: **LCSW**	Batch ID: **R51169**	TestNo: **A5310C**		Analysis Date: **7/18/2024**	SeqNo: **842517**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	3.62	0.500	3.750	0	96.5	90	110				

Sample ID: **24070475-03AMS**	SampType: **MS**	TestCode: **TOC_5310C**	Units: **mg/L**	Prep Date: **7/18/2024**	RunNo: **51169**
Client ID: **4071003-03**	Batch ID: **R51169**	TestNo: **A5310C**		Analysis Date: **7/18/2024**	SeqNo: **842523**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	4.16	0.500	2.500	1.436	109	85	115				

Sample ID: **24070475-04ADUP**	SampType: **DUP**	TestCode: **TOC_5310C**	Units: **mg/L**	Prep Date: **7/18/2024**	RunNo: **51169**
Client ID: **4071003-04**	Batch ID: **R51169**	TestNo: **A5310C**		Analysis Date: **7/18/2024**	SeqNo: **842525**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	0.168	0.500						0.2811	50.5	15	JR4

Qualifiers:

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original

NEILSON RESEARCH CORPORATION

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

Sample Log-In Check List

Client Name: **SPRAGUERIVERWATER** Work Order Number: **24070475** RcptNo: **1**

Logged by:	**Erin Hernandez**	**7/11/2024 10:30:00 AM**	
Completed By:	**Erin Hernandez**	**7/12/2024 10:17:00 AM**	
Reviewed By:	**Ashley Spiegelberg**	**7/24/2024 11:54:06 AM**	

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	UPS		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
	Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
	No. Seal Date:	Signed By:		
5.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☑	No ☐	NA ☐ HNO3 pH<2
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.7	Good				EH

1 of 1

Chain of Custody Record

NEILSON RESEARCH CORPORATION

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

Page 1 of 2

Input error TS 7/11/24

Section A Required Client Information

Company:	Sprague River Water Quality Lab
Address:	5671 Sprague River Road
	Chiloquin, OR 97624
Email:	teresa.coley@klamathtribes.com
Phone:	(541) 827-5231 Fax:
Collected By (Print):	
Collected By (Sign):	
Email Report ☑	Mail Report ☐ Fax Report ☐

Section B Required Project Information

Project Name:	RES
Project Number:	
Report To:	
Copy To:	

Section C Invoice Information

Attention:	Kaneeta Kirk
Company Name:	The Klamath Tribes
Address:	PO Box 436
	Chiloquin, OR 97624
P.O. #	

Section D Rush Status (Subject to Scheduling)

- ☑ Standard: 10 Business Days
- ☐ Priority: 5 Business Days (List × 1.50)
- ☐ Express: 3 Business Days (List × 1.75)
- ☐ Rush: 2 Business Days (List × 2.00)
- ☐ Rush: 1 Business Day (List × 2.50)
- ☐ Rush: Same Day (List × 3.00)

Authorized ☐ Yes ☐ No

Section E Sample Information

Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	TOC	DOC	Total Aluminum	Dissolved Aluminum						Remarks / Field Data	NRC Sample # (Lab Use Only)
4071003-01	Comp	Water	7/9/24	10:26	8	✓	✓	✓	✓							01
4071003-02	Comp	Water	7/9/24	10:48	6	✓	✓									02
4071003-03	Comp	Water	7/9/24	12:00	8	✓	✓	✓	✓							03
4071003-04	Comp	Water	7/9/24	10:55	8	✓	✓	✓	✓							04

Analysis Requested

NRC Workorder # (Lab Use Only) 24070475

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

Section F Relinquish/Receive

	Sign	Print	Date	Time
Relinquished By:	Maria Griff	MIA GROFF	7-10-24	14:23
Received By:				
Relinquished By:				
Received By:				
Relinquished By:				
Received By Laboratory:		Erin Hernandez	7/11/24	10:30

Section G Lab Use Only

- Temp: 5.7°C IR-5
- ≤6°C: ___ Yes ___ No
- Received on Ice: ___ Yes ___ No
- Number of Bottles Received: 30
- 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 _____

Effective 6/19/2020

✓ km 7/11/24

NEILSON RESEARCH CORPORATION

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

Data Flags

WO#: **24070475**
Date: **7/24/2024**

A Total Alkalinity and Bicarbonate Alkalinity results are to a pH endpoint of 4.5. Carbonate Alkalinity result is to a pH endpoint of 8.3.
A-LL The total low level alkalinity results are to a pH endpoint of 4.3-4.7 pH units per SM 2320B-2011.
B Analyte detected in the associated method blank.
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.
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.
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.
Q Initial calibration verification (ICV), continuing calibration verification (CCV) or laboratory control sample (LCS), and/or matrix spikes 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 The numerical difference between the parent sample and the duplicate (DUP) is outside of the accepted recovery limits. Greater than 5 degrees for Flashpoint, or greater than 0.1 pH units for pH.
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 The Relative percent difference (RPD) is not within control limits because the concentration of the sample result is too low to represent proper statistical error.
R5 The difference between the BOD/CBOD results for the highest and lowest dilution used for the calculation is >30% because the results are too low to represent proper statistical error. The BOD/CBOD sample result is an average of all qualified bottles for each dilution series. The sample results are not affected.
R6 The difference between the BOD/CBOD results for the highest and lowest dilution used for the calculation is >30%. This may indicate a possible matrix interference. The BOD/CBOD sample result is an average of all qualified bottles for each dilution series.
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 Maximum Contaminant Level or is outside the acceptable range.<<>>

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

July 24, 2024

Teresa Coley
Sprague River Water Quality Lab
5671 Sprague River Road
Chiloquin, OR 97624
TEL: (541) 827-5231
FAX

RE: RES Order No.: 24070473

Dear Teresa Coley:

Neilson Research Corporation received 9 sample(s) on 7/11/2024 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

Original

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

Case Narrative

WO#: **24070473**
Date: **7/24/2024**

CLIENT: Sprague River Water Quality Lab
Project: RES

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

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

Analytical Report

WO#: **24070473**
Date Reported: **7/24/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24070473-01
Client Sample ID 4071004-01
Project: RES
Sample Location: Comp

Collection Date: 7/9/2024 8:24:00 AM
Received Date: 7/11/2024 10:30:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED TRACE METALS											
Aluminum, Dissolved	E200.7	A	ND		1	0.00895	0.0200	mg/L		07/15/24 17:36	CJS
TRACE METALS BY EPA 200.7 ICP											
Aluminum	E200.7	A	ND		1	0.00895	0.0200	mg/L		07/19/24 18:19	CBB
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	0.432	J	1	0.192	0.500	mg/L		07/15/24 13:45	KN
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	0.282	J	1	0.0989	0.500	mg/L		07/12/24 14:53	TJW

QUALIFIERS

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 comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Original

NELAP

NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028

NEILSON RESEARCH CORPORATION

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

Analytical Report

WO#: **24070473**
Date Reported: **7/24/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24070473-02
Client Sample ID 4071004-02
Project: RES
Sample Location: Comp

Collection Date: 7/9/2024 7:56:00 AM
Received Date: 7/11/2024 10:30:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED TRACE METALS											
Aluminum, Dissolved	E200.7	A	0.0336		1	0.00895	0.0200	mg/L		07/15/24 17:39	CJS
TRACE METALS BY EPA 200.7 ICP											
Aluminum	E200.7	A	0.722		1	0.00895	0.0200	mg/L		07/19/24 18:22	CBB
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	2.14		1	0.192	0.500	mg/L		07/15/24 14:22	KN
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	1.95		1	0.0989	0.500	mg/L		07/12/24 15:29	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit

Original

NELAP NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028

NEILSON RESEARCH CORPORATION

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

Analytical Report

WO#: **24070473**
Date Reported: **7/24/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24070473-03
Client Sample ID 4071004-03
Project: RES
Sample Location: Comp

Collection Date: 7/9/2024 10:00:00 AM
Received Date: 7/11/2024 10:30:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED TRACE METALS											
Aluminum, Dissolved	E200.7	A	0.0395		1	0.00895	0.0200	mg/L		07/15/24 17:42	CJS
TRACE METALS BY EPA 200.7 ICP											
Aluminum	E200.7	A	1.14		1	0.00895	0.0200	mg/L		07/19/24 18:25	CBB
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	3.46		1	0.192	0.500	mg/L		07/15/24 14:58	KN
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	3.00		1	0.0989	0.500	mg/L		07/12/24 15:47	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit

Original

NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028

NEILSON RESEARCH CORPORATION

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

Analytical Report

WO#: **24070473**
Date Reported: **7/24/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24070473-04
Client Sample ID 4071004-04
Project: RES
Sample Location: Comp

Collection Date: 7/9/2024 12:05:00 PM
Received Date: 7/11/2024 10:30:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED TRACE METALS											
Aluminum, Dissolved	E200.7	A	0.0346		1	0.00895	0.0200	mg/L		07/15/24 17:46	CJS
TRACE METALS BY EPA 200.7 ICP											
Aluminum	E200.7	A	1.83		1	0.00895	0.0200	mg/L		07/19/24 18:28	CBB
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	4.55		1	0.192	0.500	mg/L		07/15/24 15:16	KN
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	3.78		1	0.0989	0.500	mg/L		07/12/24 16:23	TJW

QUALIFIERS

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 comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Original

NELAP NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028

NEILSON RESEARCH CORPORATION

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

Analytical Report

WO#: **24070473**
Date Reported: **7/24/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24070473-05
Client Sample ID 4071004-05
Project: RES
Sample Location: Comp

Collection Date: 7/9/2024 1:04:00 PM
Received Date: 7/11/2024 10:30:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	4.35		1	0.192	0.500	mg/L		07/15/24 15:34	KN
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	3.94		1	0.0989	0.500	mg/L		07/12/24 16:41	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit

Original

NELAP

NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028

NEILSON RESEARCH CORPORATION

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

Analytical Report

WO#: **24070473**
Date Reported: **7/24/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24070473-06
Client Sample ID 4071004-06
Project: RES
Sample Location: Comp

Collection Date: 7/9/2024 1:20:00 PM
Received Date: 7/11/2024 10:30:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	4.28		1	0.192	0.500	mg/L		07/15/24 15:52	KN
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	3.93		1	0.0989	0.500	mg/L		07/12/24 16:59	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit

Original

NELAP

NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028

NEILSON RESEARCH CORPORATION

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

Analytical Report

WO#: **24070473**
Date Reported: **7/24/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24070473-07
Client Sample ID 4071004-07
Project: RES
Sample Location: Comp

Collection Date: 7/9/2024 2:04:00 PM
Received Date: 7/11/2024 10:30:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	4.13		1	0.192	0.500	mg/L		07/15/24 16:46	KN
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	3.97		1	0.0989	0.500	mg/L		07/12/24 17:17	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit

Original

NELAP

NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028

NEILSON RESEARCH CORPORATION

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

Analytical Report

WO#: **24070473**
Date Reported: **7/24/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24070473-08
Client Sample ID 4071004-08
Project: RES
Sample Location: Comp

Collection Date: 7/10/2024 8:20:00 AM
Received Date: 7/11/2024 10:30:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	4.31		1	0.192	0.500	mg/L		07/15/24 17:04	KN
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	4.17		1	0.0989	0.500	mg/L		07/12/24 17:35	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit

Original

NELAP

NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028

NEILSON RESEARCH CORPORATION

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

Analytical Report

WO#: **24070473**
Date Reported: **7/24/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24070473-09
Client Sample ID 4071004-09
Project: RES
Sample Location: Comp

Collection Date: 7/10/2024 9:22:00 AM
Received Date: 7/11/2024 10:30:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	5.86		1	0.192	0.500	mg/L		07/15/24 17:22	KN
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	5.79		1	0.0989	0.500	mg/L		07/12/24 17:53	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit

Original

NELAP

NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028

NEILSON RESEARCH CORPORATION

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#: **24070473**

24-Jul-24

Client: Sprague River Water Quality Lab
Project: RES

TestCode: **DOC_W**

Sample ID: **MB**	SampType: **MBLK**	TestCode: **DOC_W**	Units: **mg/L**	Prep Date: **7/15/2024**	RunNo: **51072**
Client ID: **PBW**	Batch ID: **R51072**	TestNo: **A5310C**		Analysis Date: **7/15/2024**	SeqNo: **840889**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	ND	0.500									

Sample ID: **LCS - 15599**	SampType: **LCS**	TestCode: **DOC_W**	Units: **mg/L**	Prep Date: **7/15/2024**	RunNo: **51072**
Client ID: **LCSW**	Batch ID: **R51072**	TestNo: **A5310C**		Analysis Date: **7/15/2024**	SeqNo: **840890**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	3.54	0.500	3.750	0	94.4	90	110				

Sample ID: **24070473-01BMS**	SampType: **MS**	TestCode: **DOC_W**	Units: **mg/L**	Prep Date: **7/15/2024**	RunNo: **51072**
Client ID: **4071004-01**	Batch ID: **R51072**	TestNo: **A5310C**		Analysis Date: **7/15/2024**	SeqNo: **840896**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	2.89	0.500	2.500	0.4316	98.4	85	115				

Sample ID: **24070473-02BDUP**	SampType: **DUP**	TestCode: **DOC_W**	Units: **mg/L**	Prep Date: **7/15/2024**	RunNo: **51072**
Client ID: **4071004-02**	Batch ID: **R51072**	TestNo: **A5310C**		Analysis Date: **7/15/2024**	SeqNo: **840898**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	2.19	0.500						2.142	2.06	15	

Qualifiers:

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original

NEILSON RESEARCH CORPORATION

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#: **24070473**
24-Jul-24

Client: Sprague River Water Quality Lab
Project: RES **TestCode:** **ICP_200.7_W**

Sample ID:	**MB-25947**	SampType:	**MBLK**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**7/18/2024**	RunNo:	**51194**
Client ID:	**PBW**	Batch ID:	**25947**	TestNo:	**E200.7**	**E200.7**		Analysis Date:	**7/19/2024**	SeqNo:	**843017**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.0200									

Sample ID:	**LCS-25947**	SampType:	**LCS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**7/18/2024**	RunNo:	**51194**
Client ID:	**LCSW**	Batch ID:	**25947**	TestNo:	**E200.7**	**E200.7**		Analysis Date:	**7/19/2024**	SeqNo:	**843018**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	1.06	0.0200	1.000	0	106	85	115				

Sample ID:	**24070383-01AMS**	SampType:	**MS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**7/18/2024**	RunNo:	**51194**
Client ID:	**BatchQC**	Batch ID:	**25947**	TestNo:	**E200.7**	**E200.7**		Analysis Date:	**7/19/2024**	SeqNo:	**843020**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	11.6	0.0200	11.00	0.3603	102	70	130				

Sample ID:	**24070383-01AMSD**	SampType:	**MSD**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**7/18/2024**	RunNo:	**51194**
Client ID:	**BatchQC**	Batch ID:	**25947**	TestNo:	**E200.7**	**E200.7**		Analysis Date:	**7/19/2024**	SeqNo:	**843021**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	11.6	0.0200	11.00	0.3603	102	70	130	11.59	0.311	20	

Qualifiers:

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original

NEILSON RESEARCH CORPORATION

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#: **24070473**

24-Jul-24

Client: Sprague River Water Quality Lab
Project: RES

TestCode: **ICP_200.7_W_DISS2**

Sample ID:	**MB-25900**	SampType:	**MBLK**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**7/12/2024**	RunNo:	**51077**
Client ID:	**PBW**	Batch ID:	**25900**	TestNo:	**E200.7**	**E3005**		Analysis Date:	**7/15/2024**	SeqNo:	**840967**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	ND	0.0200									

Sample ID:	**LCS-25900**	SampType:	**LCS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**7/12/2024**	RunNo:	**51077**
Client ID:	**LCSW**	Batch ID:	**25900**	TestNo:	**E200.7**	**E3005**		Analysis Date:	**7/15/2024**	SeqNo:	**840968**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	1.05	0.0200	1.000	0	105	85	115				

Sample ID:	**24070183-01BMS**	SampType:	**MS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**7/12/2024**	RunNo:	**51077**
Client ID:	**BatchQC**	Batch ID:	**25900**	TestNo:	**E200.7**	**E3005**		Analysis Date:	**7/15/2024**	SeqNo:	**840972**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	11.5	0.0200	11.00	0.09891	103	70	130				

Sample ID:	**24070183-01BMSD**	SampType:	**MSD**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**7/12/2024**	RunNo:	**51077**
Client ID:	**BatchQC**	Batch ID:	**25900**	TestNo:	**E200.7**	**E3005**		Analysis Date:	**7/15/2024**	SeqNo:	**840973**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	11.5	0.0200	11.00	0.09891	103	70	130	11.47	0.131	20	

Qualifiers:

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original

NEILSON RESEARCH CORPORATION

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#: **24070473**

24-Jul-24

Client: Sprague River Water Quality Lab
Project: RES

TestCode: **TOC_5310C**

Sample ID: **MB**	SampType: **MBLK**	TestCode: **TOC_5310C**	Units: **mg/L**	Prep Date: **7/12/2024**	RunNo: **51038**
Client ID: **PBW**	Batch ID: **R51038**	TestNo: **A5310C**		Analysis Date: **7/12/2024**	SeqNo: **840289**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	ND	0.500									

Sample ID: **LCS - 15599**	SampType: **LCS**	TestCode: **TOC_5310C**	Units: **mg/L**	Prep Date: **7/12/2024**	RunNo: **51038**
Client ID: **LCSW**	Batch ID: **R51038**	TestNo: **A5310C**		Analysis Date: **7/12/2024**	SeqNo: **840290**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	3.64	0.500	3.750	0	97.1	90	110				

Sample ID: **24070473-01ADUP**	SampType: **DUP**	TestCode: **TOC_5310C**	Units: **mg/L**	Prep Date: **7/12/2024**	RunNo: **51038**
Client ID: **4071004-01**	Batch ID: **R51038**	TestNo: **A5310C**		Analysis Date: **7/12/2024**	SeqNo: **840297**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	0.294	0.500						0.2817	4.14	15	J

Sample ID: **24070473-03AMS**	SampType: **MS**	TestCode: **TOC_5310C**	Units: **mg/L**	Prep Date: **7/12/2024**	RunNo: **51038**
Client ID: **4071004-03**	Batch ID: **R51038**	TestNo: **A5310C**		Analysis Date: **7/12/2024**	SeqNo: **840300**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	5.59	0.500	2.500	3.001	104	85	115				

Qualifiers:

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original

NEILSON RESEARCH CORPORATION

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

Sample Log-In Check List

Client Name: **SPRAGUERIVERWATER** Work Order Number: **24070473** RcptNo: **1**

Logged by:	**Erin Hernandez**	**7/11/2024 10:30:00 AM**	Erin Hernandez
Completed By:	**Erin Hernandez**	**7/12/2024 11:15:00 AM**	Erin Hernandez
Reviewed By:	**Ashley Spiegelberg**	**7/24/2024 1:32:42 PM**	

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	UPS		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
	Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
	No. Seal Date:	Signed By:		
5.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☑	No ☐	NA ☐ HNO3 pH<2
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.7	Good				EH

1 of 1

Page 2 of 2

Input ewc TS 7/11/24

NEILSON RESEARCH CORPORATION

Chain of Custody Record

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

Section A
Required Client Information

Company:	Sprague River Water Quality Lab
Address:	5671 Sprague River Road
	Chiloquin, OR 97624
Email:	teresa.coley@klamathtribes.com
Phone: (541) 827-5231	Fax:
Collected By (Print):	
Collected By (Sign):	
Email Report ☑	Mail Report ☐ Fax Report ☐

Section B
Required Project Information

Project Name:	RES
Project Number:	
Report To:	
Copy To:	

Section C
Invoice Information

Attention:	Kaneeta Kirk
Company Name:	The Klamath Tribes
Address:	PO Box 436
	Chiloquin, OR 97624
P.O. #	

Section D
Rush Status (Subject to Scheduling)

- ☑ Standard: 10 Business Days
- ☐ Priority: 5 Business Days (List × 1.50)
- ☐ Express: 3 Business Days (List × 1.75)
- ☐ Rush: 2 Business Days (List × 2.00)
- ☐ Rush: 1 Business Day (List × 2.50)
- ☐ Rush: Same Day (List × 3.00)

Authorized ☐ Yes ☐ No

Section E
Sample Information

Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	TOC	DOC	Total Aluminum	Dissolved Aluminum						Remarks / Field Data	NRC Sample # (Lab Use Only)
					Analysis Requested											
4071004-01	Comp	Water	7/9/24	08:24	8	✓	✓	✓	✓							01
4071004-02	Comp	Water	7/9/24	07:56	8*	✓	✓	✓	✓							02
4071004-03	Comp	Water	7/9/24	10:00	8	✓	✓	✓	✓							03
4071004-04	Comp	Water	7/9/24	12:05	8	✓	✓	✓	✓							04
4071004-05	Comp	Water	7/9/24	13:04	6	✓	✓									05
4071004-06	Comp	Water	7/9/24	13:20	6	✓	✓									06
4071004-07	Comp	Water	7/9/24	14:04	6	✓	✓									07
4071004-08	Comp	Water	7/10/24	08:20	6	✓	✓									08
4071004-09	Comp	Water	7/10/24	09:22	6	✓	✓									09

NRC Workorder # (Lab Use Only) 24070473

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

* One TOC bottle broke when rubber banding 0K 7/11/24

Section F
Relinquish/Receive

	Sign	Print	Date	Time
Relinquished By:	Mia A. Groff	MIA GROFF	7-10-24	14:23
Received By:				
Relinquished By:				
Received By:				
Relinquished By:				
Received By Laboratory:		Erin Hernandez	7/11/24	10:30

Section G
Lab Use Only

Temp:	5.7°C IR-5
≤6°C:	✓ Yes ___ No
Received on Ice:	✓ Yes ___ No
Number of Bottles Received:	62
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 _____

Effective 6/19/2020

CR 7/11/24 ✓

NEILSON RESEARCH CORPORATION

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

Data Flags

WO#: **24070473**
Date: **7/24/2024**

A Total Alkalinity and Bicarbonate Alkalinity results are to a pH endpoint of 4.5. Carbonate Alkalinity result is to a pH endpoint of 8.3.
A-LL The total low level alkalinity results are to a pH endpoint of 4.3-4.7 pH units per SM 2320B-2011.
B Analyte detected in the associated method blank.
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.
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.
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.
Q Initial calibration verification (ICV), continuing calibration verification (CCV) or laboratory control sample (LCS), and/or matrix spikes 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 The numerical difference between the parent sample and the duplicate (DUP) is outside of the accepted recovery limits. Greater than 5 degrees for Flashpoint, or greater than 0.1 pH units for pH.
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 The Relative percent difference (RPD) is not within control limits because the concentration of the sample result is too low to represent proper statistical error.
R5 The difference between the BOD/CBOD results for the highest and lowest dilution used for the calculation is >30% because the results are too low to represent proper statistical error. The BOD/CBOD sample result is an average of all qualified bottles for each dilution series. The sample results are not affected.
R6 The difference between the BOD/CBOD results for the highest and lowest dilution used for the calculation is >30%. This may indicate a possible matrix interference. The BOD/CBOD sample result is an average of all qualified bottles for each dilution series.
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 Maximum Contaminant Level or is outside the acceptable range.<<>>