

October 17, 2024

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

RE: RES

Order No.: 24100233

Dear Teresa Coley:

Neilson Research Corporation received 4 sample(s) on 10/4/2024 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

Tama Simedeman

Tamra Schmedemann Senior Project Manager 245 S Grape St Medford, OR 97501





### **Case Narrative**

WO#: 24100233 Date: 10/17/2024

**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.



## **Analytical Report**

WO#: 24100233 10/17/2024 Date Reported:

CLIENT:	Sprague River Water Quality Lab	<b>Collection Date:</b>	10/1/2024 8:35:00 AM
Lab ID:	24100233-01	<b>Received Date:</b>	10/4/2024 12:30:00 PM
<b>Client Sample ID</b>	4100204-01	Matrix:	AQUEOUS
Project:	RES		
Sample Location:	Comp		

Analyses	Method	NELAP Status	Result Qua	DF al	MDL	RL	Units	MCL	Date Analyst Analyzed
DISSOLVED TRACE	METALS								
Aluminum, Dissolved	E200.7	А	ND	1	0.00895	0.0200	mg/L		10/15/24 20:11 CBB
TRACE METALS BY	EPA 200.7 IC	Р							
Aluminum	E200.7	А	ND	1	0.00895	0.0200	mg/L		10/08/24 21:36 CJS
DISSOLVED ORGAN	IC CARBON I	BY SM 5310	) C-2014						
Organic Carbon, Dissolv	ed A5310C	А	0.370 J	1	0.192	0.500	mg/L		10/11/24 14:26 TJW
TOTAL ORGANIC CA	ARBON SM 53	310 C-2014							
Organic Carbon, Total	A5310C	А	0.398 J	1	0.142	0.500	mg/L		10/08/24 2:38 TJW

C1 H NELAP QUALIFIERS MI PL

Sample container temperature is out of limit as specified at testcode Holding times for preparation or analysis exceeded

Е Value above quantitation range

Analyte detected below quantitation limits J

Recovery outside comtrol limits due to Matrix Interference Permit Limit

ND Not Detected at the Reporting Limit

Original



## **Analytical Report**

WO#: 24100233 10/17/2024 Date Reported:

CLIENT:	Sprague River Water Quality Lab	<b>Collection Date:</b>	10/1/2024 11:38:00 AM
Lab ID:	24100233-02	<b>Received Date:</b>	10/4/2024 12:30:00 PM
<b>Client Sample ID</b>	4100204-02	Matrix:	AQUEOUS
Project:	RES		
Sample Location:	Comp		

Analyses	Method	NELAP Status	Result Qua	DF	MDL	RL	Units	MCL	Date Analyst Analyzed
DISSOLVED TRACE	METALS								
Aluminum, Dissolved	E200.7	А	0.0950	1	0.00895	0.0200	mg/L		10/15/24 20:21 CBB
TRACE METALS BY	EPA 200.7 IC	P							
Aluminum	E200.7	А	1.46	1	0.00895	0.0200	mg/L		10/08/24 21:38 CJS
DISSOLVED ORGAN	C CARBON	BY SM 531	0 C-2014						
Organic Carbon, Dissolve	ed A5310C	А	2.55	1	0.192	0.500	mg/L		10/11/24 14:44 TJW
TOTAL ORGANIC CA	RBON SM 5	310 C-2014	Ļ						
Organic Carbon, Total	A5310C	А	2.20	1	0.142	0.500	mg/L		10/08/24 2:56 TJW

C1 H

Sample container temperature is out of limit as specified at testcode Holding times for preparation or analysis exceeded Recovery outside comtrol limits due to Matrix Interference Permit Limit

Е Value above quantitation range

Analyte detected below quantitation limits J

ND Not Detected at the Reporting Limit

MI PL

NELAP QUALIFIERS

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



## **Analytical Report**

WO#: 24100233 10/17/2024 Date Reported:

CLIENT:	Sprague River Water Quality Lab	<b>Collection Date:</b>	10/1/2024 10:10:00 AM
Lab ID:	24100233-03	<b>Received Date:</b>	10/4/2024 12:30:00 PM
<b>Client Sample ID</b>	4100204-03	Matrix:	AQUEOUS
Project:	RES		
Sample Location:	Comp		

Analyses	Method	NELAP Status	Result Qua	DF I	MDL	RL	Units	MCL	Date Analyst Analyzed
DISSOLVED TRACE	METALS								
Aluminum, Dissolved	E200.7	A	0.116	1	0.00895	0.0200	mg/L		10/15/24 20:24 CBB
TRACE METALS BY	EPA 200.7 ICF	2							
Aluminum	E200.7	А	2.97	1	0.00895	0.0200	mg/L		10/15/24 21:09 CBB
DISSOLVED ORGANI	C CARBON B	BY SM 531	0 C-2014						
Organic Carbon, Dissolve	d A5310C	A	2.72	1	0.192	0.500	mg/L		10/11/24 15:20 TJW
TOTAL ORGANIC CA	RBON SM 53	10 C-2014							
Organic Carbon, Total	A5310C	A	2.33	1	0.142	0.500	mg/L		10/08/24 3:15 TJW

C1 H

Sample container temperature is out of limit as specified at testcode Holding times for preparation or analysis exceeded Recovery outside comtrol limits due to Matrix Interference Permit Limit

Е Value above quantitation range

Analyte detected below quantitation limits J

ND Not Detected at the Reporting Limit

MI PL

NELAP QUALIFIERS

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



## **Analytical Report**

WO#: 24100233 10/17/2024 Date Reported:

CLIENT:	Sprague River V	Vater Quali	ty Lab			Collect	tion Date:	10/1/2024 10:30:00 AM			
Lab ID:	24100233-04					Recei	ved Date:	10/4/20	24 12:30:	00 PM	
<b>Client Sample ID</b>	4100204-04						Matrix:	AQUEO	DUS		
Project:	RES										
Sample Location:	Comp										
Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyst Analyzed	
DISSOLVED ORG	ANIC CARBON E	BY SM 531	0 C-2014								
Organic Carbon, Diss	solved A5310C	A	0.487	J	1	0.192	0.500	mg/L		10/11/24 15:57 TJW	

#### **TOTAL ORGANIC CARBON SM 5310 C-2014**

Organic Carbon, Total	A5310C	А	0.259	J	1	0.142	0.500	mg/L	10/08/24 3:34	TJW

QUALIFIERS

NELAP

C1 H Sample container temperature is out of limit as specified at testcode Holding times for preparation or analysis exceeded Recovery outside comtrol limits due to Matrix Interference Permit Limit MI

Е Value above quantitation range J

Analyte detected below quantitation limits ND Not Detected at the Reporting Limit

PL

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#: 24100233

17-Oct-24

Client: Sprague River W Project: RES	Vater Quality Lab			TestCode: D	OC_W
Sample ID: MB Client ID: PBW	SampType: MBLK Batch ID: R53314	TestCode: DOC_W TestNo: A5310C	Units: <b>mg/L</b>	Prep Date: 10/11/2024 Analysis Date: 10/11/2024	RunNo: <b>53314</b> SeqNo: <b>878657</b>
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 Client ID: LCSW	SampType: LCS Batch ID: R53314	TestCode: DOC_W TestNo: A5310C	Units: <b>mg/L</b>	Prep Date: <b>10/11/2024</b> Analysis Date: <b>10/11/2024</b>	RunNo: <b>53314</b> SeqNo: <b>878658</b>
Analyte	Result		SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Organic Carbon, Dissolved	3.55	0.500 3.750	0	94.8 90 110	
Sample ID: 24100233-02BDUP Client ID: 4100204-02	SampType: DUP Batch ID: R53314	TestCode: DOC_W TestNo: A5310C	Units: mg/L	Prep Date: 10/11/2024 Analysis Date: 10/11/2024	RunNo: <b>53314</b> SeqNo: <b>878661</b>
Analyte	Result		SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Organic Carbon, Dissolved	2.52	0.500		2.554	1.51 15
Sample ID: 24100233-03BMS Client ID: 4100204-03	SampType: <b>MS</b> Batch ID: <b>R53314</b>	TestCode: DOC_W TestNo: A5310C	Units: <b>mg/L</b>	Prep Date: 10/11/2024 Analysis Date: 10/11/2024	RunNo: <b>53314</b> SeqNo: <b>878663</b>
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Organic Carbon, Dissolved	5.12	0.500 2.500	2.718	96.0 85 115	

C1 Sample container temperature is out of limit as specified at testcode **Qualifiers:** Е

Value above quantitation range

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

H Holding times for preparation or analysis exceede



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## **QC SUMMARY REPORT**

WO#: 24100233

17-Oct-24

Client: Project:	Sprague River W RES	ater Quality Lab				ſ	TestCode: I	CP_200.7_W		
Sample ID:	MB-27864	SampType: MBLK	TestCode: ICP_200.7	<b>_W</b> Units: <b>mg/L</b>		Prep Date: 10/8/20	)24	RunNo: 5320	)4	
Client ID:	PBW	Batch ID: 27864	TestNo: E200.7	E200.7		Analysis Date: 10/8/20	)24	SeqNo: 8766	672	
Analyte		Result	PQL SPK value	SPK Ref Val	%REC	LowLimit HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum		ND	0.0200							
Sample ID:	LCS-27864	SampType: LCS	TestCode: ICP_200.7	<b>7_W</b> Units: <b>mg/L</b>		Prep Date: 10/8/20	)24	RunNo: <b>5320</b>	)4	
Client ID:	LCSW	Batch ID: 27864	TestNo: E200.7	E200.7		Analysis Date: 10/8/20	)24	SeqNo: 8766	673	
Analyte		Result	PQL SPK value	SPK Ref Val	%REC	LowLimit HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum		1.01	0.0200 1.000	0	101	85 115				
Sample ID:	24091190-01AMS	SampType: <b>MS</b>	TestCode: ICP_200.7	7_W Units: mg/L		Prep Date: 10/8/20	)24	RunNo: 5320	)4	
Client ID:	BatchQC	Batch ID: 27864	TestNo: E200.7	E200.7		Analysis Date: 10/8/20	)24	SeqNo: 8766	675	
Analyte		Result	PQL SPK value	SPK Ref Val	%REC	LowLimit HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum		21.3	0.0200 11.00	7.670	124	70 130				
Sample ID:	24091190-01AMSD	SampType: <b>MSD</b>	TestCode: ICP_200.7	<b>7_W</b> Units: <b>mg/L</b>		Prep Date: 10/8/20	)24	RunNo: <b>532(</b>	)4	
Client ID:	BatchQC	Batch ID: 27864	TestNo: <b>E200.7</b>	E200.7		Analysis Date: 10/8/20	)24	SeqNo: 8766	676	
Analyte		Result	PQL SPK value	SPK Ref Val	%REC	LowLimit HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum		21.9	0.0200 11.00	7.670	129	70 130	21.30	2.70	20	

C1 Sample container temperature is out of limit as specified at testcode **Qualifiers:** 

Value above quantitation range Е

H Holding times for preparation or analysis exceede

J Analyte detected below quantitation limits PL Permit Limit

MI Recovery outside comtrol limits due to Matrix Interference RL Reporting Detection Limit

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ND Not Detected at the Reporting Limit



## **QC SUMMARY REPORT**

WO#: 24100233

Client: Project:	Sprague River W RES	ater Quality Lab						1	SestCode: I	CP_200.7_V	V	
Sample ID:	-	SampType: MBLK		e: ICP_200.7			Prep Dat			RunNo: 533		
Client ID:	PBW	Batch ID: 27944	TestN	o: <b>E200.7</b>	E200.7		Analysis Dat	te: 10/15/2	2024	SeqNo: 879	9876	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum		ND	0.0200									
Sample ID:	LCS-27944	SampType: LCS	TestCod	e: ICP_200.7	_W Units: mg/L		Prep Dat	te: 10/15/2	2024	RunNo: 53	381	
Client ID:	LCSW	Batch ID: 27944	TestN	o: <b>E200.7</b>	E200.7		Analysis Dat	te: 10/15/2	2024	SeqNo: 879	9877	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum		1.03	0.0200	1.000	0	103	85	115				
Sample ID:	24100233-03CMS	SampType: <b>MS</b>	TestCod	e: ICP_200.7	_W Units: mg/L		Prep Dat	te: 10/15/2	.024	RunNo: 533	381	
Client ID:	4100204-03	Batch ID: 27944	TestN	o: <b>E200.7</b>	E200.7		Analysis Dat	te: 10/15/2	2024	SeqNo: 879	9879	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum		15.7	0.0200	11.00	2.970	115	70	130				
Sample ID:	24100233-03CMSD	SampType: <b>MSD</b>	TestCod	e: ICP_200.7	_W Units: mg/L		Prep Dat	te: 10/15/2	:024	RunNo: 53	381	
Client ID:	4100204-03	Batch ID: 27944	TestN	o: <b>E200.7</b>	E200.7		Analysis Dat	te: 10/15/2	2024	SeqNo: 879	9880	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum		16.5	0.0200	11.00	2.970	123	70	130	15.65	5.11	20	

C1 Sample container temperature is out of limit as specified at testcode **Qualifiers:** 

Value above quantitation range Е

J Analyte detected below quantitation limits PL Permit Limit

MI Recovery outside comtrol limits due to Matrix Interference RL Reporting Detection Limit

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceede



## **QC SUMMARY REPORT**

WO#: 24100233

17-Oct-24

Original

Client: Sp Project: RI	e	ater Quality Lab						Т	estCode: I	CP_200.7_W	V_DISS2	
Sample ID: MB-2		SampType: MBLK		e: ICP_200.7	- 0			e: <b>10/15/2</b>		RunNo: 533		
Client ID: PBW	I	Batch ID: 27946	TestN	o: <b>E200.7</b>	E3005		Analysis Date	e: 10/15/2	024	SeqNo: 879	9849	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissol	lved	ND	0.0200									
Sample ID: LCS	-27946	SampType: LCS	TestCoo	e: ICP_200.7	_W Units: mg/L		Prep Date	e: <b>10/15/2</b>	024	RunNo: 533	380	
Client ID: LCS	w	Batch ID: 27946	TestN	o: <b>E200.7</b>	E3005		Analysis Date	e: 10/15/2	024	SeqNo: 879	850	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissol	lved	1.02	0.0200	1.000	0	102	85	115				
Sample ID: 2410	0233-01DMS	SampType: <b>MS</b>	TestCoo	e: ICP_200.7	_W Units: mg/L		Prep Date	e: 10/15/2	024	RunNo: 533	380	
Client ID: 4100	204-01	Batch ID: 27946	TestN	o: <b>E200.7</b>	E3005		Analysis Date	e: <b>10/15/2</b>	024	SeqNo: 879	852	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissol	lved	10.7	0.0200	11.00	0	97.4	70	130				
Sample ID: 2410	0233-01DMSD	SampType: <b>MSD</b>	TestCoo	e: ICP_200.7	_W Units: mg/L		Prep Date	e: 10/15/2	024	RunNo: 533	380	
Client ID: 4100	204-01	Batch ID: 27946	TestN	o: <b>E200.7</b>	E3005		Analysis Date	e: 10/15/2	024	SeqNo: 879	853	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissol	lved	10.7	0.0200	11.00	0	97.1	70	130	10.72	0.290	20	

C1 Sample container temperature is out of limit as specified at testcode **Qualifiers:** 

Е Value above quantitation range H Holding times for preparation or analysis exceede

J Analyte detected below quantitation limits PL Permit Limit

MI Recovery outside comtrol limits due to Matrix Interference ND Not Detected at the Reporting Limit

RL Reporting Detection Limit



## **QC SUMMARY REPORT**

WO#: 24100233

Original

Client: Sprague River W Project: RES	Vater Quality Lab		TestCode: T	COC_5310C
Sample ID: LCS - 15599 Client ID: LCSW	SampType: LCS Batch ID: R53185	TestCode: TOC_5310C Units: mg/L TestNo: A5310C	Prep Date: <b>10/7/2024</b> Analysis Date: <b>10/7/2024</b>	RunNo: <b>53185</b> SeqNo: <b>876244</b>
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Organic Carbon, Total	3.83	0.500 3.750 0	102 90 110	
Sample ID: MB	SampType: MBLK	TestCode: TOC_5310C Units: mg/L	Prep Date: 10/7/2024	RunNo: <b>53185</b>
Client ID: PBW	Batch ID: <b>R53185</b>	TestNo: <b>A5310C</b>	Analysis Date: 10/7/2024	SeqNo: 876245
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: 24100146-01DDUP	SampType: <b>DUP</b>	TestCode: TOC_5310C Units: mg/L	Prep Date: 10/7/2024	RunNo: <b>53185</b>
Client ID: BatchQC	Batch ID: <b>R53185</b>	TestNo: <b>A5310C</b>	Analysis Date: 10/7/2024	SeqNo: 876249
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Organic Carbon, Total	8.32	2.00	8.333	0.155 15
Sample ID: 24100146-02DMS	SampType: <b>MS</b>	TestCode: TOC_5310C Units: mg/L	Prep Date: 10/7/2024	RunNo: <b>53185</b>
Client ID: BatchQC	Batch ID: <b>R53185</b>	TestNo: <b>A5310C</b>	Analysis Date: 10/7/2024	SeqNo: 876251
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Organic Carbon, Total	19.7	2.00 10.00 8.706	110 85 115	

C1 Sample container temperature is out of limit as specified at testcode **Qualifiers:** 

Value above quantitation range Е

H Holding times for preparation or analysis exceede

J Analyte detected below quantitation limits PL

MI Recovery outside comtrol limits due to Matrix Interference ND Not Detected at the Reporting Limit

Permit Limit

RL Reporting Detection Limit

	NEILSON RESEARCH CORPORATION	TEL: (541) 770-5678	Research Corporati 245 S Grape Medford, OR 975 FAX: (541) 770-29 ite: www.nrclabs.co		Sample Log-In Check List				
Client Name:	SPRAGUERIVERWATER	Work Order Numbe	r: 24100233		RcptNo: 1				
Logged by:	Danielle Garten	10/4/2024 12:30:00 F	PM	Danielle &	orton.				
Completed By:	Danielle Garten	10/7/2024 3:59:21 PI	И	Domélle &	tonede marm				
Reviewed By:	Tamra Schmedemann	10/17/2024 10:17:35	АМ	Taming S	medeman				
Chain of Cu	<u>istody</u>				_				
1. Is Chain o	of Custody complete?		Yes 🗹	No	Not Present				
2. How was t	the sample delivered?		<u>UPS</u>						
<u>.og In</u>			Yes 🖌	No 🗌					
3. Coolers a	re present?		Yes 💌	NO 🗀					
▲ Shipping a	container/cooler in good conditio	n?	Yes 🗸	No 🗌					
	eals intact on shipping containe		Yes 🗌 N	o 🗌 Not Pre	esent 🗹 NA 🗌				
No.	Seal Date:		Signed By:						
5. Was an at	ttempt made to cool the sample	s?	Yes 🗹	No 🗌	NA 🗌				
6. Were all s	samples received at a temperatu	ire of >0° C to 6.0°C	Yes 🖌	No 🗌					
7. Sample(s)	) in proper container(s)?		Yes 🖌	No 🗌					
8. Sufficient	sample volume for indicated tes	st(s)?	Yes 🖌	No 🗌					
9. Are sample	les (except VOA and ONG) prop	perly preserved?	Yes 🖌	No 🗌					
10. Was prese	ervative added to bottles?		Yes 🖌	No 🗌	NA 🗌				
					HNO3 pH<2				
	dspace in the VOA vials less th		Yes 🗌	No 🗌	No VOA Vials 🗹				
12. Were any	sample containers received bro	ken?	Yes 🗌	No 🗹					
	erwork match bottle labels? crepancies on chain of custody)		Yes 🗹	No					
	ces correctly identified on Chain	of Custody?	Yes 🖌	No 🗌					
	what analyses were requested?		Yes 🗹						
-	nolding times able to be met?		Yes 🗹						
(If no, noti	ify customer for authorization.)								
-	ndling (if applicable)			_	_				
17. Was clien	t notified of all discrepancies with	th this order?	Yes	No	NA 🗹				
Pers	on Notified:	Date:							
By W	Vhom:	Via:	eMail 🗌 P	hone 🗌 Fax	In Person				
Rega	arding:								
Clier	nt Instructions:								
18. Additional	remarks:								

#### **Cooler Information**

Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good				TRS



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

Section A Required Client Information		Section E Required	B Project Inform	nation				Section C Invoice Information							Section D Rush Status (Subjec	Section D Rush Status (Subject to Scheduling)	
Company: Sprague River Water Quality Lab			ame: RES	2				T	1000		ta Kirk				Standard: 10 Bu		
Address: 5671 Sprague River Road		Project N	umber:					Comp	any Na	ame:	The Kl	amath	Tribes		Priority: 5 Busin	ess Days (List × 1.50)	
Chiloguin, OR 97624		Report To	):					Addre	ss: P	O Bo	x 436				Express: 3 Busi	ness Days (List × 1.75)	
Email: teresa.coley@klamathtribes.com	12.0	Copy To:			1	1	2	Chiloguin, OR 97624				24		Rush: 2 Busines	ss Days (List × 2.00)		
Phone: (541) 827-5231 Fax:								P.O. 1							Rush: 1 Busines	ss Day (List × 2.50)	
Collected By (Print):						11.64		1			-				Rush: Same Da		
Collected By (Sign):	A LAND A LAND					- 12			Analys	sis Re	queste	d				ized Yes No	
Email Report 🗹 Mail Report 💭 Fax Repor	· 🗖	- Ministra			-	T	1	1	-								
		J				3	inur	1	1	- 11			the state of the second second				
Section E Sample Information					of Containers			Aluminum	Dissolved Aluminum					2	NRC Workorder # (Lab Use Only)	24100233	
Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Con	TOC	DOC	Total A	Dissolv						Remarks / Field Data	NRC Sample # (La Use Only)	
4100204-01	Comp	Water	10/1/24	08:35	7	1	1	1	1	1	2				only 2 vials for DOC	01	
4100204-02	Comp	Water	10/1/24	11:38	8	1	1	1	1				-	4		02	
4100204-03	Comp	Water	10/1/24	10:10	8	1	1	1	1							03	
4100204-04	Comp	Water	10/1/24	10:30	8	1	1		t	1	Dr	2	ret	re	cene	04	
	Contest in	19.19.19	1. No. 18.0				-	-	1		-		-15	1	0/4/24		
					-						-			-		Black of the second second second	
	-					-			-					-	1000	The second second second	
the state of the state of the state of the	the second second second	and Street	a contractor	- Anna			-									- Martin and	
	a hand the			-													
*Matrix: DW - Drinking Water WW - Wastewater Section F Relinquish/Receive , Sign	W - Water S - Soil/S	Solid SL - S	Sludge O - Oil	WP - Wipe O		ier				Date			Time		Section G Lab Use Only		
Relinquished By: Min A-1	AT_	100	Mia Groff				_		10/2/	24		14	1:27		Temp:	> IK->	
Received By:	00	1986	1.000	an Although	_		- 20	-	- Factor			-	1	_	≤6°C: Yes	No	
Relinquished By:	tolar on and a						-	-					TRO		Received on Ice:	Yes No	
Received By:									100					_	Number of Bottles Re	ceived:	
Relinquished By:	tata		5	1=00010	1	0	1	on	- [2]	fre	201		1:3	2	pH Checked:		
Received By Laboratory:	Janta		1	and	L	61	2/21	1	10	14/	04		6-20	0	COC Seals Intact:	The second se	
													Received	Min	Field Blank Included:		
								100000	Der	mont	4			1		Other Hand	
									Pay	ment:		nvoice	Cas	n'	VISA, M/C Check #	E Amount Effective 6/19/20	

Page \_\_\_\_\_ of \_\_\_\_\_



# Data Flags WO#: 24100233 Date: 10/17/2024

- 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 2320 B.
- 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.



October 25, 2024

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

RE: Karuk RES

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

Order No.: 24100490

Dear Teresa Coley:

Neilson Research Corporation received 9 sample(s) on 10/10/2024 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

Tama Simedeman

Tamra Schmedemann Senior Project Manager 245 S Grape St Medford, OR 97501





### **Case Narrative**

WO#: **24100490** Date: **10/25/2024** 

CLIENT: Sprague River Water Quality Lab Project: Karuk 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.



## **Analytical Report**

WO#: 24100490 Date Reported: 10/25/2024

CLIENT:	Sprague River Water Quality Lab	<b>Collection Date:</b>	10/8/2024 7:42:00 AM
Lab ID:	24100490-01	<b>Received Date:</b>	10/10/2024 10:35:00 AM
<b>Client Sample ID</b>	4100903-01	Matrix:	AQUEOUS
Project:	Karuk RES		
Sample Location:	Comp		

Analyses	Method	NELAP Status	Result Qua	DF I	MDL	RL	Units	MCL	Date Analyst Analyzed
DISSOLVED TRACE I	METALS								
Aluminum, Dissolved	E200.7	А	0.108	1	0.00895	0.0200	mg/L		10/15/24 20:36 CBB
TRACE METALS BY	EPA 200.7 IC	Р							
Aluminum	E200.7	А	3.20	1	0.00895	0.0200	mg/L		10/15/24 22:00 CBB
DISSOLVED ORGANI	C CARBON E	BY SM 531	0 C-2014						
Organic Carbon, Dissolve	d A5310C	А	3.32	1	0.192	0.500	mg/L		10/11/24 19:34 TJW
TOTAL ORGANIC CA	RBON SM 53	10 C-2014							
Organic Carbon, Total	A5310C	А	2.85	1	0.142	0.500	mg/L		10/17/24 14:44 TJW

C1 Sample container temperature is out of limit as specified at testcode

QUALIFIERS

Н Holding times for preparation or analysis exceeded Recovery outside comtrol limits due to Matrix Interference

MI PL Permit Limit Е Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit R

RPD outside accepted recovery limits

Original



## **Analytical Report**

WO#: 24100490 Date Reported: 10/25/2024

CLIENT:	Sprague River Water Quality Lab	<b>Collection Date:</b>	10/8/2024 9:45:00 AM
Lab ID:	24100490-02	<b>Received Date:</b>	10/10/2024 10:35:00 AM
<b>Client Sample ID</b>	4100903-02	Matrix:	AQUEOUS
Project:	Karuk RES		
Sample Location:	Comp		

Analyses	Method	NELAP Status	Result Qua	DF I	MDL	RL	Units	MCL	Date Analyst Analyzed
DISSOLVED TRACE I	METALS								
Aluminum, Dissolved	E200.7	А	0.137	1	0.00895	0.0200	mg/L		10/24/24 18:37 CJS
TRACE METALS BY	EPA 200.7 IC	P							
Aluminum	E200.7	А	6.67	1	0.00895	0.0200	mg/L		10/24/24 19:21 CJS
DISSOLVED ORGANI	C CARBON E	BY SM 531	0 C-2014						
Organic Carbon, Dissolve	d A5310C	А	4.32	1	0.192	0.500	mg/L		10/11/24 19:53 TJW
TOTAL ORGANIC CA	RBON SM 53	10 C-2014							
Organic Carbon, Total	A5310C	A	3.81	1	0.142	0.500	mg/L		10/17/24 15:20 TJW

C1 Sample container temperature is out of limit as specified at testcode

NELAP QUALIFIERS Н Holding times for preparation or analysis exceeded Recovery outside comtrol limits due to Matrix Interference

MI PL Permit Limit Е Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit R

RPD outside accepted recovery limits

Original



## **Analytical Report**

WO#: 24100490 Date Reported: 10/25/2024

CLIENT:	Sprague River Water Quality Lab	<b>Collection Date:</b>	10/8/2024 11:29:00 AM
Lab ID:	24100490-03	<b>Received Date:</b>	10/10/2024 10:35:00 AM
<b>Client Sample ID</b>	4100903-03	Matrix:	AQUEOUS
Project:	Karuk RES		
Sample Location:	Comp		

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyst Analyzed
DISSOLVED TRACE	METALS								
Aluminum, Dissolved	E200.7	A	0.0649	1	0.00895	0.0200	mg/L		10/15/24 20:51 CBB
TRACE METALS BY	EPA 200.7 IC	Р							
Aluminum	E200.7	А	4.88	1	0.00895	0.0200	mg/L		10/15/24 22:06 CBB
DISSOLVED ORGANI	C CARBON I	BY SM 531	0 C-2014						
Organic Carbon, Dissolve	d A5310C	А	5.84	1	0.192	0.500	mg/L		10/11/24 20:11 TJW
TOTAL ORGANIC CA	RBON SM 53	310 C-2014	L .						
Organic Carbon, Total	A5310C	А	4.35	1	0.142	0.500	mg/L		10/17/24 15:56 TJW

C1 Sample container temperature is out of limit as specified at testcode

QUALIFIERS

Н Holding times for preparation or analysis exceeded Recovery outside comtrol limits due to Matrix Interference

MI PL Permit Limit Е Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit R

RPD outside accepted recovery limits

Original



## **Analytical Report**

 WO#:
 24100490

 Date Reported:
 10/25/2024

CLIENT:	Sprague River V	Vater Qualit	y Lab		Collect	ion Date:	10/8/2024 12:21:00 PM			
Lab ID:	24100490-04				Receiv	ved Date:	10/10/2	5:00 AM		
<b>Client Sample ID</b>	4100903-04				Matrix: AQUEOUS					
Project:	Karuk RES									
Sample Location:	Comp									
Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyst Analyzed	
DISSOLVED ORG	ANIC CARBON E	BY SM 5310	C-2014							
Organic Carbon, Diss	olved A5310C	А	5.22	1	0.192	0.500	mg/L		10/11/24 20:29 TJW	

#### TOTAL ORGANIC CARBON SM 5310 C-2014

Organic Carbon, Total	A5310C	A	4.87	1	0.142	0.500	mg/L	10/17/24 16:14 TJW

QUALIFIERS

NELAP

C1

Н

Sample container temperature is out of limit as specified at testcode Holding times for preparation or analysis exceeded

MI Recovery outside comtrol limits due to Matrix Interference PL Permit Limit E Value above quantitation rangeJ Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Original



## **Analytical Report**

WO#: 24100490 Date Reported: 10/25/2024

CLIENT:	Sprague River V	Vater Qualit	y Lab		Collect	ion Date:	10/8/202	24 1:22:0	0 PM
Lab ID:	24100490-05				Receiv	ved Date:	10/10/2	024 10:35	5:00 AM
<b>Client Sample ID</b>	4100903-05					Matrix:	AQUEO	DUS	
Project:	Karuk RES								
Sample Location:	Comp								
Analyses	Method	NELAP Status	Result Qu	DF al	MDL	RL	Units	MCL	Date Analyst Analyzed
DISSOLVED ORG	ANIC CARBON E	BY SM 5310	C-2014						
Organic Carbon, Diss		А	5.21	1	0.192	0.500	mg/L		10/11/24 20:47 TJW

#### **TOTAL ORGANIC CARBON SM 5310 C-2014**

Organic Carbon, Total	A5310C	А	5.08	1	0.142	0.500	mg/L	10/17/24 16:32 TJW

QUALIFIERS

NELAP

C1

Н

Sample container temperature is out of limit as specified at testcode Holding times for preparation or analysis exceeded

MI PL Recovery outside comtrol limits due to Matrix Interference

Permit Limit

Е Value above quantitation range J

Analyte detected below quantitation limits ND

Not Detected at the Reporting Limit R RPD outside accepted recovery limits

Original



## **Analytical Report**

WO#: 24100490 Date Reported: 10/25/2024

CLIENT:	Sprague River Water Quality Lab	<b>Collection Date:</b>	10/9/2024 10:18:00 AM
Lab ID:	24100490-06	<b>Received Date:</b>	10/10/2024 10:35:00 AM
<b>Client Sample ID</b>	4100903-06	Matrix:	AQUEOUS
Project:	Karuk RES		
Sample Location:	Comp		

Analyses	Method	NELAP Status	Result Qua	DF	MDL	RL	Units	MCL	Date Analyst Analyzed
DISSOLVED TRACE	METALS								
Aluminum, Dissolved	E200.7	А	ND	1	0.00895	0.0200	mg/L		10/15/24 20:54 CBB
TRACE METALS BY	EPA 200.7 IC	Р							
Aluminum	E200.7	А	ND	1	0.00895	0.0200	mg/L		10/15/24 22:10 CBB
DISSOLVED ORGAN	C CARBON	BY SM 5310	) C-2014						
Organic Carbon, Dissolve	ed A5310C	А	0.555	1	0.192	0.500	mg/L		10/11/24 21:05 TJW
TOTAL ORGANIC CA	RBON SM 53	310 C-2014							
Organic Carbon, Total	A5310C	А	0.747	1	0.142	0.500	mg/L		10/17/24 16:50 TJW

C1 Sample container temperature is out of limit as specified at testcode

Н Holding times for preparation or analysis exceeded Recovery outside comtrol limits due to Matrix Interference

MI PL Permit Limit

QUALIFIERS

Е Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit R

RPD outside accepted recovery limits

Original



## **Analytical Report**

WO#: 24100490 Date Reported: 10/25/2024

		24 8:53:00 )24 10:35:					y Lab	ater Quality	Sprague River W 24100490-07	
	JU AM		AQUEO		Keceiv				4100903-07	
		00	ngolo						Karuk RES	Project:
									Comp	Sample Location:
nalyst	Date Analyzed	MCL	Units	RL	MDL	DF	Result Qual	NELAP Status	Method	Analyses
							C-2014			
-		MCL	Units	RL	MDL	DF	Qual	Status		Analyses

Organic Carbon, Dissolve	ed A5310C	А	5.54	1	0.192	0.500	mg/L	10/11/24 21:23 TJW
TOTAL ORGANIC CA	RBON SM 531	0 C-2014						
Organic Carbon, Total	A5310C	A	5.23	1	0.142	0.500	mg/L	10/17/24 17:08 TJW

C1 NELAP QUALIFIERS Н

Sample container temperature is out of limit as specified at testcode Holding times for preparation or analysis exceeded

MI PL Recovery outside comtrol limits due to Matrix Interference

Permit Limit

Е Value above quantitation range J

Analyte detected below quantitation limits ND

Not Detected at the Reporting Limit R RPD outside accepted recovery limits

Original



## **Analytical Report**

WO#: 24100490 Date Reported: 10/25/2024

<b>CLIENT:</b>	Sprague River V	Vater Qualit	y Lab		Collect	tion Date:	10/9/20	24 10:38:	00 AM	
Lab ID:	24100490-08				Recei	ved Date:	10/10/2	024 10:35	5:00 AM	
<b>Client Sample ID</b>	4100903-08					Matrix:	AQUEO	OUS		
Project:	Karuk RES									
Sample Location:	Comp									
Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED ORG		3Y SM 5310	C-2014							

#### **TOTAL ORGANIC CARBON SM 5310 C-2014**

Organic Carbon, Total	A5310C	А	6.77	1	0.142	0.500	mg/L	10/17/24 17:26 TJW

QUALIFIERS

NELAP

C1

Н

Sample container temperature is out of limit as specified at testcode Holding times for preparation or analysis exceeded

MI PL Recovery outside comtrol limits due to Matrix Interference Permit Limit

Е Value above quantitation range J

Analyte detected below quantitation limits ND

Not Detected at the Reporting Limit R RPD outside accepted recovery limits

Original



## **Analytical Report**

WO#: 24100490 Date Reported: 10/25/2024

Sprague River V	Vater Qualit	y Lab		Collec	tion Date:	10/9/202	24 9:00:00	AM	
24100490-09				Rece	ived Date:	10/10/2	024 10:35:	00 AM	
4100903-09					Matrix:	AQUEO	OUS		
Karuk RES									
Comp									
Method	NELAP Status	Result	DF	MDL	RL	Units	MCL	Date Analyze	Analyst d
	Status	Qua	al				-	An	alyze
	24100490-09 4100903-09 Karuk RES Comp	24100490-09 4100903-09 Karuk RES Comp Method NELAP	24100490-09 4100903-09 Karuk RES Comp Method NELAP Result	24100490-09 4100903-09 Karuk RES Comp Method NELAP Result DF	24100490-09         Receive           4100903-09         Karuk RES           Comp         Method         NELAP         Result         DF         MDL	24100490-09     Received Date:       4100903-09     Matrix:       Karuk RES     Comp       Method     NELAP     Result     DF     MDL     RL	24100490-09         Received Date: 10/10/20           4100903-09         Matrix: AQUEO           Karuk RES         Comp           Method         NELAP         Result         DF         MDL         RL         Units	24100490-09       Received Date: 10/10/2024 10:35:         4100903-09       Matrix: AQUEOUS         Karuk RES       Comp         Method       NELAP       Result       DF       MDL       RL       Units       MCL	24100490-09       Received Date: 10/10/2024 10:35:00 AM         4100903-09       Matrix: AQUEOUS         Karuk RES       Comp         Method       NELAP       Result       DF       MDL       RL       Units       MCL       Date

Organic Carbon, Dissolve	ed A5310C	А	5.40	1	0.192	0.500	mg/L	10/21/24 10:18 TJW
TOTAL ORGANIC CA	RBON SM 53	10 C-2014						
Organic Carbon, Total	A5310C	А	5.28	1	0.142	0.500	mg/L	10/17/24 17:45 TJW

C1 Sample container temperature is out of limit as specified at testcode NELAP QUALIFIERS Н

MI PL Recovery outside comtrol limits due to Matrix Interference

Holding times for preparation or analysis exceeded

Permit Limit

Е Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit R

RPD outside accepted recovery limits

Original



## **QC SUMMARY REPORT**

WO#: 24100490

25-Oct-24

Client: Sprague River W Project: Karuk RES	Vater Quality Lab			TestCode: DOC_W
Sample ID: MB Client ID: PBW	SampType: MBLK Batch ID: R53314	TestCode: DOC_W TestNo: A5310C	Units: <b>mg/L</b>	Prep Date:         10/11/2024         RunNo:         53314           Analysis Date:         10/11/2024         SeqNo:         878657
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: 10/11/2024 RunNo: 53314
Client ID: LCSW	Batch ID: R53314	TestNo: A5310C		Analysis Date: 10/11/2024 SeqNo: 878658
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Organic Carbon, Dissolved	3.55	0.500 3.750	0	94.8 90 110
Sample ID: 24100233-02BDUP	SampType: <b>DUP</b>	TestCode: DOC_W	Units: mg/L	Prep Date: 10/11/2024 RunNo: 53314
Client ID: BatchQC	Batch ID: R53314	TestNo: A5310C		Analysis Date: 10/11/2024 SeqNo: 878661
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Organic Carbon, Dissolved	2.52	0.500		2.554 1.51 15
Sample ID: 24100233-03BMS	SampType: <b>MS</b>	TestCode: DOC_W	Units: <b>mg/L</b>	Prep Date: 10/11/2024 RunNo: 53314
Client ID: BatchQC	Batch ID: R53314	TestNo: A5310C		Analysis Date: 10/11/2024 SeqNo: 878663
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Organic Carbon, Dissolved	5.12	0.500 2.500	2.718	96.0 85 115

C1 Sample container temperature is out of limit as specified at testcode Value above quantitation range Н **Qualifiers:** Е J Analyte detected below quantitation limits MI Recovery outside comtrol limits due to Matrix Interference ND

PL Permit Limit R RPD outside accepted recovery limits

Not Detected at the Reporting Limit RL Reporting Detection Limit

Holding times for preparation or analysis exceed



## QC SUMMARY REPORT

WO#: **24100490** 

25-Oct-24

Client: Sprague River W Project: Karuk RES	/ater Quality Lab			TestCode: DOC_W
Sample ID: <b>MB</b> Client ID: <b>PBW</b>	SampType: MBLK Batch ID: R53545	TestCode: DOC_W TestNo: A5310C	Units: <b>mg/L</b>	Prep Date:         10/21/2024         RunNo:         53545           Analysis Date:         10/21/2024         SeqNo:         882580
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: 10/21/2024 RunNo: 53545
Client ID: LCSW	Batch ID: R53545	TestNo: A5310C		Analysis Date: 10/21/2024 SeqNo: 882581
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Organic Carbon, Dissolved	3.79	0.500 3.750	0	101 90 110
Sample ID: 24100490-08BDUP	SampType: DUP	TestCode: DOC_W	Units: <b>mg/L</b>	Prep Date: 10/21/2024 RunNo: 53545
Client ID: 4100903-08	Batch ID: R53545	TestNo: A5310C		Analysis Date: 10/21/2024 SeqNo: 882583
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Organic Carbon, Dissolved	6.84	0.500		6.874 0.551 15
Sample ID: 24100490-09BMS	SampType: MS	TestCode: DOC_W	Units: <b>mg/L</b>	Prep Date: 10/21/2024 RunNo: 53545
Client ID: 4100903-09	Batch ID: R53545	TestNo: A5310C		Analysis Date: 10/21/2024 SeqNo: 882585
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Organic Carbon, Dissolved	8.20	0.500 2.500	5.398	112 85 115 E

 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

- MI Recovery outside comtrol limits due to Matrix In R RPD outside accepted recovery limits
- RL Reporting Detection Limit



## **QC SUMMARY REPORT**

WO#: 24100490

25-Oct-24

1 0	ater Quality Lab								
Project: Karuk RES						TestCode: I	[CP_200.7_W	V	
Sample ID: MB-27944	SampType: MBLK	TestCode: ICP_200.7	<b>_W</b> Units: <b>mg/L</b>		Prep Date: 10/1	5/2024	RunNo: 533	81	
Client ID: PBW	Batch ID: 27944	TestNo: <b>E200.7</b>	E200.7		Analysis Date: 10/1	5/2024	SeqNo: 879	876	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit HighLim	it RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.0200							
Sample ID: LCS-27944	SampType: LCS	TestCode: ICP_200.7	<b>y_W</b> Units: <b>mg/L</b>		Prep Date: 10/1	5/2024	RunNo: 533	81	
Client ID: LCSW	Batch ID: 27944	TestNo: <b>E200.7</b>	E200.7		Analysis Date: 10/1	SeqNo: 879877			
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit HighLim	it RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	1.03	0.0200 1.000	0	103	85 11	5			
Sample ID: 24100233-03CMS	SampType: <b>MS</b>	TestCode: ICP_200.7	<b>_W</b> Units: <b>mg/L</b>		Prep Date: 10/1	5/2024	RunNo: 533	81	
Client ID: BatchQC	Batch ID: 27944	TestNo: <b>E200.7</b>	E200.7		Analysis Date: 10/1	5/2024	SeqNo: 879	879	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit HighLim	it RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	15.7	0.0200 11.00	2.970	115	70 13	0			
Sample ID: 24100233-03CMSD	SampType: <b>MSD</b>	TestCode: ICP_200.7	<b>/_W</b> Units: <b>mg/L</b>		Prep Date: 10/1	5/2024	RunNo: 533	81	
Client ID: BatchQC	Batch ID: 27944	TestNo: <b>E200.7</b>	E200.7		Analysis Date: 10/1	5/2024	SeqNo: 879	0880	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit HighLim	it RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	16.5	0.0200 11.00	2.970	123	70 13	0 15.65	5.11	20	

C1 Sample container temperature is out of limit as specified at testcode **Qualifiers:** 

Value above quantitation range Е

Н Holding times for preparation or analysis exceed

J Analyte detected below quantitation limits PL Permit Limit

MI Recovery outside comtrol limits due to Matrix Interference R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit



## **QC SUMMARY REPORT**

WO#: 24100490

25-Oct-24

Client: Sprague River W Project: Karuk RES	Vater Quality Lab				Те	estCode: I	CP_200.7_W	V	
Sample ID: MB-28067	SampType: MBLK	TestCode: ICP_200.	7_W Units: mg/L		Prep Date: 10/24/20	24	RunNo: 536	60	
Client ID: PBW	Batch ID: 28067	TestNo: E200.7	E200.7	Analysis Date: 10/24/2024			SeqNo: 884406		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.0200							
Sample ID: LCS-28067	SampType: LCS	TestCode: ICP_200.	7_W Units: mg/L		Prep Date: 10/24/20	24	RunNo: <b>536</b>	60	
Client ID: LCSW	Batch ID: 28067	TestNo: <b>E200.7</b>	E200.7		Analysis Date: 10/24/20	24	SeqNo: 884	1407	
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: 24100720-01BMS	SampType: <b>MS</b>	TestCode: ICP_200.	7_W Units: mg/L		Prep Date: 10/24/20	24	RunNo: 536	60	
Client ID: BatchQC	Batch ID: 28067	TestNo: E200.7	E200.7		Analysis Date: 10/24/20	24	SeqNo: 884	414	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	13.9	0.0200 11.00	1.331	114	70 130				
Sample ID: 24100720-01BMSD	SampType: <b>MSD</b>	TestCode: ICP_200.	7_W Units: mg/L		Prep Date: 10/24/20	24	RunNo: 536	60	
Client ID: BatchQC	Batch ID: 28067	TestNo: <b>E200.7</b>	E200.7		Analysis Date: 10/24/20	24	SeqNo: 884	415	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	13.5	0.0200 11.00	1.331	111	70 130	13.85	2.44	20	

C1 Sample container temperature is out of limit as specified at testcode **Qualifiers:** 

Value above quantitation range Е

J Analyte detected below quantitation limits PL Permit Limit

MI Recovery outside comtrol limits due to Matrix Interference

R RPD outside accepted recovery limits Not Detected at the Reporting Limit

ND RL Reporting Detection Limit

Н Holding times for preparation or analysis exceed



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#: 24100490

25-Oct-24

Client: Sprague River W Project: Karuk RES	ater Quality Lab					<b>TestCode:</b>	ICP_200.7_W	_DISS2	
Sample ID: MB-27946 Client ID: PBW	SampType: MBLK Batch ID: 27946	TestCode: ICP_200 TestNo: E200.7	0.7_W Units: mg/L E3005		Prep Date: 10/1 Analysis Date: 10/1		RunNo: <b>533</b> SeqNo: <b>879</b>		
Analyte	Result	PQL SPK valu		%REC	-	nit RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	ND	0.0200							
Sample ID: LCS-27946	SampType: LCS	TestCode: ICP_200	0.7_W Units: mg/L		Prep Date: 10/1		RunNo: 533		
Client ID: LCSW	Batch ID: 27946	TestNo: <b>E200.7</b>	E3005		Analysis Date: 10/1	5/2024	SeqNo: 879	850	
Analyte	Result	PQL SPK valu	e SPK Ref Val	%REC	LowLimit HighLin	nit RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	1.02	0.0200 1.00	0 0	102	85 1 <sup>-</sup>	15			
Sample ID: 24100233-01DMS	SampType: MS	TestCode: ICP_200	0.7_W Units: mg/L		Prep Date: 10/1	5/2024	RunNo: 533	80	
Client ID: BatchQC	Batch ID: 27946	TestNo: E200.7	E3005		Analysis Date: 10/1	5/2024	SeqNo: 879	852	
Analyte	Result	PQL SPK valu	e SPK Ref Val	%REC	LowLimit HighLin	nit RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	10.7	0.0200 11.0	0 0	97.4	70 13	30			
Sample ID: 24100233-01DMSD	SampType: <b>MSD</b>	TestCode: ICP_200	0.7_W Units: mg/L		Prep Date: 10/1	5/2024	RunNo: <b>533</b>	80	
Client ID: BatchQC	Batch ID: 27946	TestNo: E200.7	E3005		Analysis Date: 10/1	5/2024	SeqNo: 879	853	
Analyte	Result	PQL SPK valu	e SPK Ref Val	%REC	LowLimit HighLin	nit RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	10.7	0.0200 11.0	0 0	97.1	70 13	30 10.72	0.290	20	

Qualifiers:	C1	Sample container temperature is out of limit as specified at testcode
-------------	----	---

Value above quantitation range Е

Н Holding times for preparation or analysis exceed

J Analyte detected below quantitation limits PL Permit Limit

- MI Recovery outside comtrol limits due to Matrix Interference R RPD outside accepted recovery limits
- Not Detected at the Reporting Limit
- ND RL Reporting Detection Limit



## **QC SUMMARY REPORT**

WO#: 24100490

25-Oct-24

Client: Sprague River W Project: Karuk RES	Vater Quality Lab					TestCode: ]	[CP_200.7_W	_DISS2	
Sample ID: MB-28068 Client ID: PBW	SampType: MBLK Batch ID: 28068	TestCode: <b>ICP_200.7</b> TestNo: <b>E200.7</b>	_W Units: mg/L E3005		Prep Date: 10/24 Analysis Date: 10/24		RunNo: <b>536</b> SeqNo: <b>884</b>		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit HighLim	it RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	ND	0.0200							
Sample ID: LCS-28068	SampType: LCS	TestCode: ICP_200.7	_W Units: mg/L		Prep Date: 10/24	/2024	RunNo: 536	58	
Client ID: LCSW	Batch ID: 28068	TestNo: E200.7	E3005		Analysis Date: 10/24	/2024	SeqNo: 884	369	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit HighLim	it RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	1.06	0.0200 1.000	0	106	85 11	5			
Sample ID: 24100490-02DMS	SampType: <b>MS</b>	TestCode: ICP_200.7	_W Units: mg/L		Prep Date: 10/24	/2024	RunNo: 536	58	
Client ID: 4100903-02	Batch ID: 28068	TestNo: <b>E200.7</b>	E3005		Analysis Date: 10/24	/2024	SeqNo: 884	371	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit HighLim	it RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	11.5	0.0200 11.00	0.1366	104	70 13	0			
Sample ID: 24100490-02DMSD	SampType: <b>MSD</b>	TestCode: ICP_200.7	_ <b>W</b> Units: <b>mg/L</b>		Prep Date: 10/24	/2024	RunNo: 536	58	
Client ID: 4100903-02	Batch ID: 28068	TestNo: E200.7	E3005		Analysis Date: 10/24	/2024	SeqNo: 884	372	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit HighLim	it RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	11.4	0.0200 11.00	0.1366	103	70 13	) 11.55	0.940	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 PL Permit Limit MI Recovery outside comtrol limits due to Matrix Interference R RPD outside accepted recovery limits ND Not Detected at the Reporting Limit

RL Reporting Detection Limit



## **QC SUMMARY REPORT**

WO#: 24100490

25-Oct-24

Client: Sprague River W Project: Karuk RES	/ater Quality Lab		TestCode: T	OC_5310C
Sample ID: MB Client ID: PBW	SampType: MBLK Batch ID: R53511	TestCode: TOC_5310C Units: mg/L TestNo: A5310C	Prep Date: <b>10/17/2024</b> Analysis Date: <b>10/17/2024</b>	RunNo: <b>53511</b> SeqNo: <b>881990</b>
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: 10/17/2024	RunNo: <b>53511</b>
Client ID: LCSW	Batch ID: R53511	TestNo: <b>A5310C</b>	Analysis Date: 10/17/2024	SeqNo: 881991
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Organic Carbon, Total	3.80	0.500 3.750 0	101 90 110	
Sample ID: 24100490-01ADUP	SampType: DUP	TestCode: TOC_5310C Units: mg/L	Prep Date: 10/17/2024	RunNo: <b>53511</b>
Client ID: 4100903-01	Batch ID: <b>R53511</b>	TestNo: <b>A5310C</b>	Analysis Date: 10/17/2024	SeqNo: 881993
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Organic Carbon, Total	2.78	0.500	2.851	2.64 15
Sample ID: 24100490-02AMS	SampType: <b>MS</b>	TestCode: TOC_5310C Units: mg/L	Prep Date: 10/17/2024	RunNo: <b>53511</b>
Client ID: 4100903-02	Batch ID: <b>R53511</b>	TestNo: <b>A5310C</b>	Analysis Date: 10/17/2024	SeqNo: <b>881995</b>
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Organic Carbon, Total	6.60	0.500 2.500 3.812	111 85 115	

C1 Sample container temperature is out of limit as specified at testcode Value above quantitation range Н **Qualifiers:** Е J Analyte detected below quantitation limits MI Recovery outside comtrol limits due to Matrix Interference ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceed

PL Permit Limit R RPD outside accepted recovery limits

RL Reporting Detection Limit

NEILSON RESEARCH CORPORATION	Neilson Research Corpo 245 S Gr Medford, OR L: (541) 770-5678 FAX: (541) 770 Website: www.nrclat	97501 <b>Sample</b>	Log-In Check List
Client Name: SPRAGUERIVERWATER Wo	rk Order Number: 24100490		RcptNo: 1
Logged by: Erin Hernandez 10/10	)/2024 10:35:00 AM	Cum Hundy	_
Completed By: Danielle Garten 10/16	5/2024 10:35:20 AM	Cum Hunds Domelle Gorton Tamp Somed	
Reviewed By: Tamra Schmedemann 10/23	8/2024 8:56:18 AM	Taming Shimed	emarm
Chain of Custody	_		
1. Is Chain of Custody complete?	Yes 🔽	No No	ot Present
2. How was the sample delivered?	UPS		
Log In	× I		
3. Coolers are present?	Yes 🖌	No 🗌	NA 🗌
4. Shipping container/cooler in good condition?	Yes 🖌	No 🗌	
Custody seals intact on shipping container/cooler		No 🗌 Not Present	✓ NA □
No. Seal Date:	Signed B	Sy:	
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 pre-	eserved? 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 in	nch or 6 mm? Yes		VOA Vials 🗹
12. Were any sample containers received broken?	Yes	No 🗹	
<ol> <li>13. Does paperwork match bottle labels?</li> <li>(Note discrepancies on chain of custody)</li> </ol>	Yes 🖌	No 🗌	
14. Are matrices correctly identified on Chain of Cust	ody? 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 o	rder? Yes	No 🗌	NA 🔽
Person Notified:	Date:		
By Whom:	Via: eMail	] Phone 🗌 Fax 🗌 In	Person
Regarding:			
Client Instructions:			
18. Additional remarks:			
Cooler Information			

ſ	Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By
	1	3.9	Good				EH

NEILSON RESEARCH CORPORATION		This C		C <b>hain of</b> y is a LEGAL E											Page of	
Section A Required Client Information							Section C Invoice Information						Section D Rush Status (Subject to Scheduling)			
Company: Sprague River Water Quality Lab	1	Project Na	ame: Karuk RE	ES				Attent	tion:	Kaneeta Kirk				Standard: 10	Business Days	
ddress: 5671 Sprague River Road Proje		Project Nu	umber:					Company Name: The Klamath Tribes						Priority: 5 Business Days (List × 1.50)		
Chiloguin, OR 97624								Address: PO Box 436						Express: 3 Bu	isiness Days (List × 1.75)	
Email: teresa.coley@klamathtribes.com		Copy To:					-		0	Chiloquin, Ol	3 9763	24			ness Days (List × 2.00)	
		0000 10.						P.O. 1		Shiloquin, Ol	10102				ness Day (List × 2.50)	
Phone: 541 827 5231 Fax:								P.0.	+		_			Rush: Same D		
Collected By (Print):		4														
Collected By (Sign):										/sis Requeste	d			Auth	orized Yes No	
Email Report 🗹 Mail Report 🛄 Fax Repo Section E Sample Information	ort	]			of Containers			Aluminum	ved Aluminu					NRC Workorder # (Lab Use Only)	21100490	
Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Con	TOC	DOC	Total A	Dissolved					Remarks / Field Data	NRC Sample # (Lab Use Only)	
1 4100903-01	comp	water	10/8/2024	0742	8	V	~	V	~						01	
2 4100907 -0Z	comp	water	10/8/2024	0945	8	~	4	~	~					Part of the local state	0Z	
3 4106903 -03	comp	water	10/8/2024	1129	8	r	~	~	~				_		03	
4 4100903 -04	comp	water	10/8/2024	1221	15	~	~		-						oy	
5 <u>4100903 -05</u> 6 <u>4100903 -05</u>	comp	water	10/8/2024	1322	6	~ ~	~	~	~			-	-		05	
7100107 00	comp	water water	10/9/2024	0853	8	~	1	~	1					-	07	
7 <u>4106903-07</u> 8 <u>4106903-08</u>	comp	water	10/9/2024	1038	6	~	~		-						04	
9 4100903 -09	comp	water	10/9/2024	0900	6	~	~				_		_		09	
Matrix: DW - Drinking Water WW - Wastewater Section F Relinquish/Receive Sign Relinquished By:		 Solid <b>SL</b> - S	Sludge <b>O</b> - Oil Ben A. Harris	WP - Wipe O		er			10/9	Date 9/2024	1134	Time		Section G Lab Use Only Temp: 3, 01 <6°C: Yes	C ILU	
Relinquished By:								-					-	Received on Ice:		
Received By:							-	-					-	Number of Bottles F	0.1	
Relinquished By:														pH Checked:		
Received By Laboratory:	an		Chican	Hornay	de-	2	1		10	ololzy	10	35	-		YesNoNA	
			- Com	V/ Writely								Received		Field Blank Included	d:YesNo OtherHand	

Effective 6/19/2020



# Data Flags WO#: 24100490 Date: 10/25/2024

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 2320 B.

- 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.<<>>