November 21, 2019

Smith River CSD
241 First St
Smith River, CA 95567

Attn: Eric Shearer

RE: 0810002-002

Order No.: 1910067
Invoice No.: 149135
PO No.:
ELAP No.1247-Expires July 2020

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	Well #2
01B	Well #2
01C	Well #2

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

Flag = Explanation in Case Narrative

All solid results are expressed on a wet-weight basis unless otherwise noted.

Approved for release by:

Roxanne Moore, Project Manager

Date: 21-Nov-2019
WorkOrder: 1910067

CASE NARRATIVE

THIS IS AN AMENDED REPORT (1910067 R1):
Results for arsenic and hardness were added as per client request.

Samples for pH, chlorine and dissolved oxygen analysis must be analyzed within 15 minutes of collection. Therefore, any samples requiring these analyses were analyzed past the official holding time.

Aluminum:
The reporting limit was raised due to trace contamination of the method blank.

Date: 21-Nov-2019
WorkOrder: 1910067

ANALYTICAL REPORT

Client Sample ID: Well #2
Lab ID: 1910067-01A

Received: 10/4/2019
Collected: 10/4/2019 8:50

Test Name: Apparent Color
Reference: SM 2120B, 2001. Revs 2011

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Apparent Color	3.0		3.0	C.U.	1.0		10/4/2019

Test Name: Odor (at 60º C)
Reference: SM 2150B, 1997. Revs 2011

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Odor	ND		1.0	TON	1.0		10/4/2019

Client Sample ID: Well #2
Lab ID: 1910067-01B

Received: 10/4/2019
Collected: 10/4/2019 8:50

Test Name: Alkalinity
Reference: SM 2320B, 1997. Revs 2011.

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Alkalinity	36		1.0	mg/L CaCO3	1.0		10/10/2019

Test Name: Anions by Ion Chromatography
Reference: EPA 300.0 Rev 2.1 (1993)

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Chloride	***5.7***		0.10	mg/L	1.0		10/4/2019
Fluoride	ND		0.10	mg/L	1.0		10/4/2019
Sulfate	***3.3***		0.50	mg/L	1.0		10/4/2019

Test Name: Forms of Alkalinity
Reference: SM 2320B, 1997. Revs 2011

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Bicarbonate	36		1.0	mg/L CaCO3	1.0		10/15/2019
Carbonate	ND		1.0	mg/L CaCO3	1.0		10/15/2019
Hydroxide	ND		1.0	mg/L CaCO3	1.0		10/15/2019

Test Name: pH
Reference: SM 4500-HB, 2000. Revs 2011

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
pH	6.5		N/A	pH Units	1.0		10/4/2019

Test Name: Total Dissolved Solids
Reference: SM 2540C, 1997. Revs 2011

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Total Dissolved Solids	59		10	mg/L	1.0		10/8/2019

Client Sample ID: Well #2
Lab ID: 1910067-01C

Received: 10/4/2019
Collected: 10/4/2019 8:50

Test Name: Hardness
Reference: SM 2340B, 1997. Revs 2011

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Hardness	39		1.0	mg/L CaCO3	1.0	10/11/2019	11/20/2019

Date: 21-Nov-2019
WorkOrder: 1910067

ANALYTICAL REPORT

Client Sample ID: Well #2
Lab ID: 1910067-01C

Received: 10/4/2019
Collected: 10/4/2019 8:50

Test Name: ICAP Metals **Reference:** EPA 200.7 Rev 4.4 (1994)

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Aluminum	ND		25	µg/L	1.0	10/11/2019	10/14/2019
Calcium	5,100		50	µg/L	1.0	10/11/2019	10/14/2019
Iron	ND		15	µg/L	1.0	10/11/2019	10/14/2019
Magnesium	6,500		20	µg/L	1.0	10/11/2019	10/14/2019
Manganese	ND		1.0	µg/L	1.0	10/11/2019	10/14/2019
Silver	ND		5.0	µg/L	1.0	10/11/2019	10/14/2019
Sodium	3,100		20	µg/L	1.0	10/11/2019	10/14/2019

Test Name: ICP-MS Metals **Reference:** EPA 200.8 Rev 5.4 (1994)

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Antimony	ND		1.0	µg/L	1.0	10/11/2019	10/11/2019
Arsenic	2.9		2.0	µg/L	1.0	10/11/2019	10/11/2019
Barium	16		1.0	µg/L	1.0	10/11/2019	10/11/2019
Beryllium	ND		1.0	µg/L	1.0	10/11/2019	10/11/2019
Cadmium	ND		1.0	µg/L	1.0	10/11/2019	10/11/2019
Chromium	ND		1.0	µg/L	1.0	10/11/2019	10/11/2019
Copper	3.0		1.0	µg/L	1.0	10/11/2019	10/11/2019
Nickel	5.8		2.0	µg/L	1.0	10/11/2019	10/11/2019
Selenium	ND		5.0	µg/L	1.0	10/11/2019	10/11/2019
Thallium	ND		1.0	µg/L	1.0	10/11/2019	10/11/2019
Zinc	5.8		5.0	µg/L	1.0	10/11/2019	10/11/2019

Test Name: Mercury **Reference:** EPA 245.1 Rev 3.0 (1994)

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Mercury	ND		1.0	µg/L	1.0	10/15/2019	10/16/2019

North Coast Laboratories, Ltd.

Date: 11/21/2019

CLIENT: Smith River CSD
Work Order: 1910067
Project: 0810002-002

QC SUMMARY REPORT

Method Blank

Sample ID **MBLANK** Batch ID: **R101193** Test Code: **ALKW** Units: **mg/L CaCO3** Analysis Date **10/10/2019 8:45:00 AM** Prep Date
Client ID: Run ID: **WC_191010G** SeqNo: **1440161**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity	ND	1.0									

Sample ID **MBLK 100419** Batch ID: **R101144** Test Code: **ICIONW** Units: **mg/L** Analysis Date **10/4/2019 5:16:48 PM** Prep Date
Client ID: Run ID: **INIC2_191004B** SeqNo: **1439448**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.10									
Fluoride	ND	0.10									
Sulfate	ND	0.50									

Sample ID **MB-37924** Batch ID: **37924** Test Code: **ICPMSDW** Units: **µg/L** Analysis Date **10/11/2019 10:57:25 A** Prep Date **10/11/2019**
Client ID: Run ID: **ICPMS2_191014A** SeqNo: **1440356**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	1.0									
Arsenic	ND	2.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Copper	ND	1.0									
Nickel	ND	2.0									
Selenium	ND	5.0									
Thallium	ND	1.0									
Zinc	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Smith River CSD
Work Order: 1910067
Project: 0810002-002

QC SUMMARY REPORT
Method Blank

Sample ID **MB-37924** Batch ID: **37924** Test Code: **ICPW** Units: **µg/L** Analysis Date **10/14/2019 12:02:20 P** Prep Date **10/11/2019**
Client ID: Run ID: **INICP2_191014B** SeqNo: **1440432**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	25									
Calcium	ND	50									
Iron	ND	15									
Magnesium	ND	20									
Manganese	ND	1.0									
Silver	ND	5.0									
Sodium	ND	20									

Sample ID **MB-37940** Batch ID: **37940** Test Code: **MERCW** Units: **µg/L** Analysis Date **10/16/2019 11:50:49 A** Prep Date **10/15/2019**
Client ID: Run ID: **CVAA2_191016A** SeqNo: **1440938**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	1.0									

Sample ID **MBLK** Batch ID: **R101229** Test Code: **TDS** Units: **mg/L** Analysis Date **10/8/2019** Prep Date
Client ID: Run ID: **WC_191008B** SeqNo: **1440691**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	10									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 11/21/2019

CLIENT: Smith River CSD
Work Order: 1910067
Project: 0810002-002

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **BLKSPK** Batch ID: **R101193** Test Code: **ALKW** Units: **mg/L CaCO3** Analysis Date **10/10/2019 8:45:00 AM** Prep Date
Client ID: Run ID: **WC_191010G** SeqNo: **1440162**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity	104.6	1.0	100	0	105%	90	110	0			

Sample ID **LCS WL-100419-0** Batch ID: **R101144** Test Code: **ICIONW** Units: **mg/L** Analysis Date **10/4/2019 6:06:43 PM** Prep Date
Client ID: Run ID: **INIC2_191004B** SeqNo: **1439451**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	4.931	0.10	5.00	0	98.6%	90	110	0			
Fluoride	4.848	0.10	5.00	0	97.0%	90	110	0			
Sulfate	52.40	0.50	50.0	0	105%	90	110	0			

Sample ID **LCSD WL-100419-** Batch ID: **R101144** Test Code: **ICIONW** Units: **mg/L** Analysis Date **10/4/2019 6:23:21 PM** Prep Date
Client ID: Run ID: **INIC2_191004B** SeqNo: **1439452**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	4.855	0.10	5.00	0	97.1%	90	110	4.93	1.56%	10	
Fluoride	4.776	0.10	5.00	0	95.5%	90	110	4.85	1.51%	10	
Sulfate	52.10	0.50	50.0	0	104%	90	110	52.4	0.572%	10	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Smith River CSD
Work Order: 1910067
Project: 0810002-002

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-37924** Batch ID: **37924** Test Code: **ICPMSDW** Units: **µg/L** Analysis Date **10/11/2019 11:01:30 A** Prep Date **10/11/2019**
Client ID: Run ID: **ICPMS2_191014A** SeqNo: **1440357**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	487.4	5.0	500	0.0530	97.5%	85	115	0			
Arsenic	480.6	10	500	0	96.1%	85	115	0			
Barium	463.6	5.0	500	0.195	92.7%	85	115	0			
Beryllium	459.6	5.0	500	0	91.9%	85	115	0			
Cadmium	483.0	5.0	500	0	96.6%	85	115	0			
Chromium	461.1	5.0	500	0	92.2%	85	115	0			
Copper	470.2	5.0	500	0	94.0%	85	115	0			
Nickel	473.6	10	500	0	94.7%	85	115	0			
Selenium	483.3	25	500	0	96.7%	85	115	0			
Thallium	472.8	5.0	500	0	94.6%	85	115	0			
Zinc	479.2	25	500	0	95.8%	85	115	0			

Sample ID **LCSD-37924** Batch ID: **37924** Test Code: **ICPMSDW** Units: **µg/L** Analysis Date **10/11/2019 11:18:12 A** Prep Date **10/11/2019**
Client ID: Run ID: **ICPMS2_191014A** SeqNo: **1440358**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	481.5	1.0	500	0.0530	96.3%	85	115	487	1.22%	20	
Arsenic	497.6	2.0	500	0	99.5%	85	115	481	3.48%	20	
Barium	453.1	1.0	500	0.195	90.6%	85	115	464	2.28%	20	
Beryllium	454.7	1.0	500	0	90.9%	85	115	460	1.07%	20	
Cadmium	477.9	1.0	500	0	95.6%	85	115	483	1.05%	20	
Chromium	449.5	1.0	500	0	89.9%	85	115	461	2.53%	20	
Copper	478.1	1.0	500	0	95.6%	85	115	470	1.68%	20	
Nickel	464.6	2.0	500	0	92.9%	85	115	474	1.91%	20	
Selenium	505.4	5.0	500	0	101%	85	115	483	4.46%	20	
Thallium	488.4	1.0	500	0	97.7%	85	115	473	3.25%	20	
Zinc	496.2	5.0	500	0	99.2%	85	115	479	3.50%	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Smith River CSD
Work Order: 1910067
Project: 0810002-002

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-37924** Batch ID: **37924** Test Code: **ICPW** Units: **µg/L** Analysis Date **10/14/2019 12:04:34 P** Prep Date **10/11/2019**
Client ID: Run ID: **INICP2_191014B** SeqNo: **1440433**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	471.7	25	500	21.2	90.1%	85	115	0			
Calcium	476.3	50	500	26.1	90.0%	85	115	0			
Iron	462.3	15	500	0	92.5%	85	115	0			
Magnesium	476.3	20	500	5.25	94.2%	85	115	0			
Manganese	454.8	1.0	500	0	91.0%	85	115	0			
Silver	53.67	5.0	62.5	0	85.9%	85	115	0			
Sodium	492.1	20	500	15.2	95.4%	85	115	0			

Sample ID **LCSD-37924** Batch ID: **37924** Test Code: **ICPW** Units: **µg/L** Analysis Date **10/14/2019 12:07:58 P** Prep Date **10/11/2019**
Client ID: Run ID: **INICP2_191014B** SeqNo: **1440434**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	471.7	25	500	21.2	90.1%	85	115	472	0.00700%	20	
Calcium	467.2	50	500	26.1	88.2%	85	115	476	1.93%	20	
Iron	467.7	15	500	0	93.5%	85	115	462	1.17%	20	
Magnesium	478.6	20	500	5.25	94.7%	85	115	476	0.481%	20	
Manganese	459.1	1.0	500	0	91.8%	85	115	455	0.945%	20	
Silver	54.24	5.0	62.5	0	86.8%	85	115	53.7	1.07%	20	
Sodium	495.2	20	500	15.2	96.0%	85	115	492	0.625%	20	

Sample ID **LCS-37940** Batch ID: **37940** Test Code: **MERCW** Units: **µg/L** Analysis Date **10/16/2019 11:53:20 A** Prep Date **10/15/2019**
Client ID: Run ID: **CVAA2_191016A** SeqNo: **1440939**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	4.775	1.0	5.00	0	95.5%	85	115	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Smith River CSD
Work Order: 1910067
Project: 0810002-002

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID **LCSD-37940** Batch ID: **37940** Test Code: **MERCW** Units: **µg/L** Analysis Date **10/16/2019 11:55:21 A** Prep Date **10/15/2019**
Client ID: Run ID: **CVAA2_191016A** SeqNo: **1440940**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	4.558	1.0	5.00	0	91.2%	85	115	4.78	4.65%	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

NORTH COAST LABORATORIES LTD.
5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER: 1910067

Attention: Eric Shearer
Results & Invoice to: Smith River C.S.D.
Address: 241 First St. Smith River, CA. 95567

Phone: (559) 676-0830
Copies of Report to: Franklin Saylor - CA. Water Board

Sampler (Sign & Print): Eric Shearer / ERIC SHEARER

PROJECT INFORMATION

Project Number: 0810002-002
Project Name:
Purchase Order Number:

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*
A	Well #2	10-4-19	0850	GW
B	"	"	0851	"
C	"	"	0852	"
D	"	"	0853	"

	CONTAINER	PRESERVATIVE	MBAS	Color odor	Minerals	Metals
A	½ Gal Plastic	none	✓			
B	500ml AMG	none		✓	✓	
C	1 Liter plastic	none		✓	✓	
D	500ml Plastic	HNO3				✓

TAT: ☐ STD (2-3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSH SAMPLES.

REPORTING REQUIREMENTS:
☑ State Forms
☐ Geotracker ☐ SWAMP ☐ Other EDD:
☑ Final Report PDF ☐ FAX By:

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—40 ml VOA; 9—60 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other
PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

MBAS is being resampled — brought in on a Friday — Lab could not analyze. Please email w/ results

Email / General.Manager@SRWater.Net

4.4°C

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
		[signature]	10/4/19 1230

SAMPLE DISPOSAL
☒ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Fed-Ex Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; WW=Waste Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

SAMPLE CONTAINER ORDER FORM

CLIENT NAME: Smith River CSD	**DATE OF REQUEST: 8/21/19**
ADDRESS (Street not PO Box) :	
CONTACT PERSON:	**PHONE NUMBER:**
SHIP BY: 8/26/15	**PROJECT NAME:** 0810002-002 Well 02

Deliver		Pickup		Cooler	x	Box	
Ship	x	UPS		Airborne		Fed X	
DW Samples		Chlorinated Samples		US Mail		Fed X Ground	

SPECIAL INSTRUCTIONS:
Metals=Ca, Mg, Al, Sb, Ba, Be Cd, Cr,Cu, Fe, Mn, Ag, Na, Ni, Se, Tl, Zn,+ Hg
Minerals=Anions, pH, Cl, SO4, TDS, Fl,

ANALYSIS	# OF Samples	Bottle Type/ Sample Volume	Number of Containers	Preservation
MBAS	1	½ gallon plastic	1	none
Color/odor	1	500 ml AMG	1	none
Minerals	1	1liter plastic	1	none
Metals	1	500 ml plastic	1	HNO3
1,2,3-TCP	1	40ml voa HCl	3+tb	HCl

Request Taken By	RC	Prepared & Shipped By		Date Shipped		Method of Shipment	

8/26 NAK

Invoice:
Customer:
Dept:
PO Number:

Date: 27Aug19
Wgt: 10.00 LBS
COD:
DV:

SHIPPING: 8.67
SPECIAL: 3.47
HANDLING: 0.00
0.00 TOTAL: 12.14

SVCE: GND PPD
TRCK: 494664439780