Silver State Labs-Reno
1135 Financial Blvd
Reno, NV 89502
(775) 857-2400 FAX: (888) 398-7002
www.ssalabs.com

August 25, 2020
Workorder **20080135**

Glenn Reynolds
Lassen Community College
P.O. Box 3000
Susanville, CA 96130

Project: 1800585-002 / Well #2

Dear Glenn Reynolds:

It is the policy of Silver State Analytical Laboratory - Reno to strictly adhere to a comprehensive Quality Assurance Plan that ensures the data presented in this report are both accurate and precise. Silver State Analytical Laboratory - Reno maintains accreditation in the State of Nevada (NV-00015) and the State of California (ELAP 2990).

The data presented in this report was obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged in the Analytical Report with an appropriate explanation in the Definitions & Qualifiers.

20080135: PERCHLORATE 314 and G ALPHA 900 has been Sub Contracted.

Sincerely,

Carly Wood
Laboratory Director
1135 Financial Blvd
Reno, NV 89502

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Analytical Report

Workorder#: **20080135**
Date Reported: **8/25/2020**

Client: Lassen Community College **Sampled By** Jeffrey C Lang
Project Name: 1800585-002 / Well #2
PO #:

Laboratory Accreditation Number NV015/CA2990

Laboratory ID	Client Sample ID	Date/Time Sampled	Date Received
20080135-01	Well #2	08/03/2020 15:40	8/4/2020

Parameter	Method	Result	Units	MCL	Analyst	Date/Time Analyzed	Data Flag
Aluminum	EPA 200.7	<0.05	mg/L	0.2	KL	08/18/2020 13:30	
Antimony	EPA 200.8	<0.002	mg/L	0.006	KL	08/05/2020 22:39	
Arsenic	EPA 200.8	0.004	mg/L	0.01	KL	08/05/2020 22:39	
Barium	EPA 200.8	<0.01	mg/L	2	KL	08/05/2020 22:39	
Beryllium	EPA 200.8	<0.002	mg/L	0.004	KL	08/05/2020 22:39	
Cadmium	EPA 200.8	<0.002	mg/L	0.005	KL	08/05/2020 22:39	
Chromium	EPA 200.8	<0.002	mg/L	0.1	KL	08/05/2020 22:39	
Digestion Turbidity Check	EPA 200.8	< 1.0	NTU		KL	08/05/2020 16:56	
Fluoride	EPA 300.0	< 0.1	mg/L	2	MA	08/04/2020 19:53	
Mercury	EPA 245.1	< 0.0001	mg/L	0.002	KL	08/11/2020 10:57	
Nickel	EPA 200.8	<0.002	mg/L		KL	08/05/2020 22:39	
Nitrate as N	EPA 300.0	0.25	mg/L	10	MA	08/04/2020 19:53	
Nitrite as N	EPA 300.0	< 0.05	mg/L	1	MA	08/04/2020 19:53	
Selenium	EPA 200.8	<0.01	mg/L	0.05	KL	08/05/2020 22:39	
Thallium	EPA 200.8	<0.001	mg/L	0.002	KL	08/05/2020 22:39	

Laboratory Accreditation Number NV015/CA2990

Laboratory ID	Client Sample ID	Date/Time Sampled	Date Received
20080135-02	Well #2	08/03/2020 15:40	8/4/2020

Parameter	Method	Result	Units	MCL	Analyst	Date/Time Analyzed	Data Flag
Perchlorate	EPA 314	See Report			CW		

Laboratory Accreditation Number NV015/CA2990

Laboratory ID	Client Sample ID	Date/Time Sampled	Date Received
20080135-03	Well #2	08/03/2020 15:40	8/4/2020

Parameter	Method	Result	Units	MCL	Analyst	Date/Time Analyzed	Data Flag
ALPHA, Gross	EPA 900	See Report			CW		

Original

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Quality Control Report

WO#: **20080135**
8/25/2020

Analysis: Anions 300.0
Method: EPA 300.0 **Batch ID:** **R44241**

Method Blank

RunID: 44241 SeqNo 1051149 Units: mg/L
Analysis Date: 6/17/2020 6:46:55 PM Analyst: MA

Analyte	Result	Rep Limit	Rep Qual
Fluoride	< 0.10	0.10	
Nitrate as N	< 0.050	0.050	
Nitrite as N	< 0.050	0.050	

Laboratory Control Sample (LCS)

RunID: 44241 SeqNo 1051152 Units: mg/L
Analysis Date: 6/17/2020 8:11:07 PM Analyst: MA

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Fluoride	10.00	11	107								
Nitrate as N	10.00	10	103								
Nitrite as N	10.00	10	102								

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 20080096-01A
RunID: 44241 SeqNo 1051162 Units: mg/L
Analysis Date: 8/4/2020 4:02:31 PM Analyst: MA

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Fluoride	0.1800	10.00	9.9	97.1	10.00	10	98.3	1.21	20	90	110	
Nitrate as N	0.06000	10.00	11	105	10.00	10	104	0.664	20	90	110	
Nitrite as N	0	10.00	10	102	10.00	10	102	0.784	20	90	110	

Analysis: Metals 200.8
Method: EPA 200.8 **Batch ID:** **R44332**

Method Blank

RunID: 44332 SeqNo 1052928 Units: mg/L
Analysis Date: 8/5/2020 7:10:49 PM Analyst: KL

Analyte	Result	Rep Limit	Rep Qual
Antimony	< 0.0010	0.0010	
Arsenic	< 0.0010	0.0010	
Barium	< 0.0050	0.0050	
Beryllium	< 0.0010	0.0010	
Cadmium	< 0.0010	0.0010	
Chromium	< 0.0010	0.0010	
Nickel	< 0.0010	0.0010	
Selenium	< 0.0050	0.0050	
Thallium	< 0.00050	0.00050	

Original

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Quality Control Report

WO#: **20080135**

8/25/2020

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Quality Control Report

WO#: **20080135**
8/25/2020

Method Blank

RunID: 44332 SeqNo 1052929 Units: mg/L

Analysis Date: 8/5/2020 7:18:33 PM Analyst: KL

Analyte	Result	Rep Limit	Rep Qual
Antimony	< 0.0010	0.0010	
Arsenic	< 0.0010	0.0010	
Barium	< 0.0050	0.0050	
Beryllium	< 0.0010	0.0010	
Cadmium	< 0.0010	0.0010	
Chromium	< 0.0010	0.0010	
Nickel	< 0.0010	0.0010	
Selenium	< 0.0050	0.0050	
Thallium	< 0.00050	0.00050	

Laboratory Control Sample (LCS)

RunID: 44332 SeqNo 1052927 Units: mg/L

Analysis Date: 8/5/2020 6:55:22 PM Analyst: KL

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Antimony	0.1000	0.10	101								
Arsenic	0.1000	0.10	102								
Barium	0.1000	0.10	99.6								
Beryllium	0.1000	0.10	99.7								
Cadmium	0.1000	0.099	99.3								
Chromium	0.1000	0.10	102								
Nickel	0.1000	0.099	98.6								
Selenium	0.5000	0.49	98.5								
Thallium	0.1000	0.099	99.0								

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 20071441-01B

RunID: 44332 SeqNo 1052935 Units: mg/L

Analysis Date: 8/5/2020 8:04:51 PM Analyst: KL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Antimony	0.001803	1.000	1.0	103	1.000	1.2	116	11.7	20	70	130	
Arsenic	0.003946	1.000	1.1	105	1.000	1.0	102	3.23	20	70	130	
Barium	0.01850	1.000	1.1	104	1.000	1.1	104	0.422	20	70	130	
Beryllium	0	1.000	1.1	106	1.000	1.0	105	1.13	20	70	130	
Cadmium	0	1.000	1.1	107	1.000	1.1	106	1.06	20	70	130	
Chromium	0005050	1.000	1.1	106	1.000	1.1	105	1.09	20	70	130	
Nickel	0.003582	1.000	1.0	103	1.000	1.0	101	2.09	20	70	130	
Selenium	0.006655	5.000	5.2	104	5.000	5.2	104	0.00823	20	70	130	
Thallium	0007040	1.000	1.1	106	1.000	1.0	103	2.86	20	70	130	

Original

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Quality Control Report

WO#: **20080135**
8/25/2020

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 20080151-04A

RunID: 44332 SeqNo 1052958 Units: mg/L

Analysis Date: 8/5/2020 11:17:49 PM Analyst: KL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Antimony	0	1.000	0.99	99.2	1.000	1.0	104	4.54	20	70	130	
Arsenic	0.002887	1.000	1.0	103	1.000	1.0	102	0.912	20	70	130	
Barium	0.06069	1.000	1.1	103	1.000	1.1	104	0.719	20	70	130	
Beryllium	0	1.000	1.0	102	1.000	1.0	102	0.451	20	70	130	
Cadmium	0	1.000	1.0	103	1.000	1.0	103	0.486	20	70	130	
Chromium	0.002115	1.000	1.0	103	1.000	1.0	104	0.396	20	70	130	
Nickel	0.002694	1.000	1.0	101	1.000	1.0	103	1.60	20	70	130	
Selenium	0	5.000	5.1	103	5.000	5.1	103	0.171	20	70	130	
Thallium	0	1.000	1.0	103	1.000	1.0	102	1.48	20	70	130	

Analysis: Mercury
Method: EPA 245.1 **Batch ID:** **R44484**

Method Blank

RunID: 44484 SeqNo 1057401 Units: mg/L

Analysis Date: 8/11/2020 10:57:47 AM Analyst: KL

Analyte	Result	Rep Limit	Rep Qual
Mercury	< 0.0001	0.0001	

Laboratory Control Sample (LCS)

RunID: 44484 SeqNo 1057402 Units: mg/L

Analysis Date: 8/11/2020 10:57:47 AM Analyst: KL

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Mercury	0.006000	0.00601	100								

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 20071487-10B

RunID: 44484 SeqNo 1057407 Units: mg/L

Analysis Date: 8/11/2020 10:57:47 AM Analyst: KL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Mercury	0	0.005000	0.00564	113	0.005000	0.00560	112	0.712	20	70	130	

Original

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Quality Control Report

WO#: **20080135**
8/25/2020

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 20080374-01B

RunID: 44484 SeqNo 1057424 Units: mg/L

Analysis Date: 8/11/2020 10:57:47 AM Analyst: KL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Mercury	0	0.005000	0.00603	121	0.005000	0.00616	123	2.13	20	70	130	

Analysis: Metals 200.7
Method: EPA 200.7 **Batch ID:** **R44679**

Method Blank

RunID: 44679 SeqNo 1062549 Units: mg/L

Analysis Date: 8/18/2020 1:24:26 PM Analyst: KL

Analyte	Result	Rep Limit	Rep Qual
Aluminum	< 0.050	0.050	

Laboratory Control Sample (LCS)

RunID: 44679 SeqNo 1062548 Units: mg/L

Analysis Date: 8/18/2020 1:22:17 PM Analyst: KL

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Aluminum	6.000	5.9	98.7								

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 20080135-01B

RunID: 44679 SeqNo 1062553 Units: mg/L

Analysis Date: 8/18/2020 1:33:03 PM Analyst: KL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Aluminum	0.02840	5.000	4.8	95.4	5.000	4.9	96.4	1.07	20	70	130	

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

August 24, 2020

Mr. Joe Nava
Sierra Environmental Monitoring, Inc.
1135 Financial Blvd.
Reno, NV 89502

RE: Project: 20080135
Pace Project No.: 30376735

Dear Mr. Nava:

Enclosed are the analytical results for sample(s) received by the laboratory on August 10, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carin A. Ferris

Carin Ferris
carin.ferris@pacelabs.com
724-850-5615
Project Manager

Enclosures

cc: Ms. Carly Wood, Sierra Environmental Monitoring, Inc.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 20080135
Pace Project No.: 30376735

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: 20080135
Pace Project No.: 30376735

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30376735001	**20080135-03A**	Drinking Water	08/03/20 15:40	08/10/20 09:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20080135
Pace Project No.: 30376735

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30376735001	**20080135-03A**	EPA 900.0	ERT	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 20080135
Pace Project No.: 30376735

Sample: 20080135-03A **Lab ID: 30376735001** Collected: 08/03/20 15:40 Received: 08/10/20 09:50 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Gross Alpha	EPA 900.0	**0.249 ± 0.776 (1.95) C:NA T:NA**	pCi/L	08/20/20 07:30	12587-46-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 20080135
Pace Project No.: 30376735

QC Batch: 409095
QC Batch Method: EPA 900.0
Analysis Method: EPA 900.0
Analysis Description: 900.0 Gross Alpha/Beta
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30376735001

METHOD BLANK: 1979962 Matrix: Water
Associated Lab Samples: 30376735001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	1.04 ± 0.742 (1.04) C:NA T:NA	pCi/L	08/20/20 07:29	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 20080135
Pace Project No.: 30376735

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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SilverState Analytical Laboratories
Sierra Environmental Monitoring

CHAIN OF CUSTODY RECORD

COC ID: 7927	PAGE: 1	OF: 1

ADDRESS
Silver State Labs-Reno
1135 Financial Blvd
Reno, NV 89502
TEL: (775) 857-2400
FAX: (888) 398-7002
Website: www.ssalabs.com

SUB CONTRATOR: Pace Greenburg-R COMPANY: Pace Analytical Services
ADDRESS: 1638 Roseytown Road
CITY, STATE, ZIP: Greenburg, PA 15601
PHONE: (724) 850-5600 FAX: EMAIL:
ACCOUNT #: Client # / ID: 30- PO#: 20080135 SAMPLER: Jeffrey C Lang

SPECIAL INSTRUCTIONS / COMMENTS:
Please send results to: jnava@ssalabs.com; cwood@ssalabs.com CA Sample

ITEM #	SAMPLE ID	Client Sample ID	Bottle Type	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	ANALYTICAL PARAMETERS: SUB-G ALPHA 900-R (E900)	
1	20080135-03A	Well #2	POLY HNO3	Drinking Water	08/03/2020 15:40	1	√	001

WO# : 30376735
30376735

8-5-20, 1500

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	8/4/2020	3:05 PM	Nicole Rund	8/10/2020	950
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☒ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐
Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples _____ °C Attempt to Cool ? _____
Comments: _____

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Sierra

Project # # 30376735

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Label NMR
LIMS Login NMR

Tracking #: 157633128646 NMR 8/11/2020

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Thermometer Used _____ Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# 10D5191 / Date and Initials of person examining contents: NMR 8/11/2020
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC: -Includes date/time/ID Matrix: DW	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓	✓		10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16. pH<2
All containers meet method preservation requirements.	✓			Initial when completed: NMR Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:		✓		18.
Trip Blank Custody Seals Present			✓	
Rad Samples Screened < 0.5 mrem/hr	✓			Initial when completed: NMR Date: 8/11/2020

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Date of Report: 08/24/2020

Joe Nava

Sierra Environmental Monitoring
1135 Financial
Reno, NV 89502

Client Project:	20080135
BCL Project:	Drinking Water Analysis
BCL Work Order:	2022718
Invoice ID:	B389874

Enclosed are the results of analyses for samples received by the laboratory on 8/6/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Felicia Johnson
Client Service Rep

Stuart Buttram
Technical Director

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Table of Contents

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Chain of Custody and Cooler Receipt Form for 2022718 Page 1 of 2

SilverState Analytical Laboratories
Sierra Environmental Monitoring

CHAIN OF CUSTODY RECORD

COC ID: 7926 | PAGE: 1 | OF: 1

ADDRESS
Silver State Labs-Reno
1135 Financial Blvd
Reno, NV 89502
TEL: (775) 857-2400
FAX: (888) 398-7002
Website: www.ssalabs.com

20-22718

SUB CONTRATOR: BC Labs-R COMPANY: BC Laboratories
ADDRESS: 4100 Atlas Court
CITY, STATE, ZIP: Bakersfield, CA 93308
PHONE: (661) 327-4911 FAX: EMAIL:
ACCOUNT #: SRRAE PO#: 20080135 SAMPLER: Jeffrey C Lang

SPECIAL INSTRUCTIONS / COMMENTS:
Please send results to: jnava@ssalabs.com; cwood@ssalabs.com CA Sample

ANALYTICAL PARAMETERS

ITEM #	SAMPLE ID	Client Sample ID	Bottle Type	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	SUB-PERCHLORATE 314-R (SUB)
1	20080135-02A	Well #2		Drinking Water	08/03/2020 15:40	1	√

CHK BY: GM
DISTRIBUTION
SUB OUT ☒

8-5-20, 1500

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
AB [signature]	8/4/2020	3:02 PM	[signature]	8-6-20	1125
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☒ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐
Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples ______ °C Attempt to Cool ? ______
Comments: ______

Chain of Custody and Cooler Receipt Form for 2022718 Page 2 of 2

C LABORATORIES INC. COOLER RECEIPT FORM

Submission #: 20-22718 Page ___ Of ___

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☒ UPS ☐ Ontrac ☐ Hand Delivery ☐ BC Lab Field Service ☐ Other ☐ (Specify)_____	Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐ W / S

Refrigerant: Ice ☐ Blue Ice ☒ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: PE Thermometer ID: 274 Date/Time: TH 8-6-20 1125

Temperature: (A) 5.3 °C / (C) 5.2 °C Analyst Init TH

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	A									
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
oz EPA 548										
QT EPA 549										
PT EPA 8015M										
T EPA 8270										
z / 16oz / 32oz AMBER										
z / 16oz / 32oz JAR										
ML SLEEVE										
B VIAL										
ASTIC BAG										
DLAR BAG										
RROUS IRON										
CORE										
ART KIT										
MMA CANISTER										

Comments:

Sample Numbering Completed By: VM Date/Time: 8/6 1729

Actual / C = Corrected

Rev 21 05/23/2016

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Sierra Environmental Monitoring
1135 Financial
Reno, NV 89502

Reported: 08/24/2020 12:43
Project: Drinking Water Analysis
Project Number: 20080135
Project Manager: Joe Nava

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2022718-01	**COC Number:**	---	**Receive Date:**	08/06/2020 11:25
	Project Number:	---	**Sampling Date:**	08/03/2020 15:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Well #2	**Lab Matrix:**	Water
	Sampled By:	Jeffrey C. Lang	**Sample Type:**	Drinking Water

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Sierra Environmental Monitoring
1135 Financial
Reno, NV 89502

Reported: 08/24/2020 12:43
Project: Drinking Water Analysis
Project Number: 20080135
Project Manager: Joe Nava

Water Analysis (General Chemistry)

BCL Sample ID: 2022718-01 | **Client Sample Name:** Well #2, 8/3/2020 3:40:00PM, Jeffrey C. Lang

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/20/20 09:00	08/20/20 13:13	SAV	IC6	1	B085327	No Prep

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Sierra Environmental Monitoring
1135 Financial
Reno, NV 89502

Reported: 08/24/2020 12:43
Project: Drinking Water Analysis
Project Number: 20080135
Project Manager: Joe Nava

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B085327						
Perchlorate	B085327-BLK1	ND	ug/L	4.0	0.81	

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Sierra Environmental Monitoring
1135 Financial
Reno, NV 89502

Reported: 08/24/2020 12:43
Project: Drinking Water Analysis
Project Number: 20080135
Project Manager: Joe Nava

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: B085327										
Perchlorate	B085327-BS1	LCS	9.9387	10.000	ug/L	99.4		85 - 115		

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Sierra Environmental Monitoring
1135 Financial
Reno, NV 89502

Reported: 08/24/2020 12:43
Project: Drinking Water Analysis
Project Number: 20080135
Project Manager: Joe Nava

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: B085327	Used client sample: N										
Perchlorate	DUP	2022717-01	ND	ND		ug/L			15		
	MS	2022717-01	ND	11.243	10.101	ug/L		111		80 - 120	
	MSD	2022717-01	ND	11.822	10.101	ug/L	5.0	117	15	80 - 120	

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Sierra Environmental Monitoring
1135 Financial
Reno, NV 89502

Reported: 08/24/2020 12:43
Project: Drinking Water Analysis
Project Number: 20080135
Project Manager: Joe Nava

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit

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SilverState Analytical Laboratories

Sierra Environmental Monitoring | EnviroTech

ssalabs.com | sem-analytical.com | envirotechonline.com

☐ [illegible] Phone (702) 873-4478 Fax: (702) 873-7967 (EPA#: NV00930, CA2885)

2008135

■ 1135 FINANCIAL BOULEVARD, RENO, NV 89502
Phone (775) 857-2400 Fax: (888) 398-7002 (EPA#: NV00015, CA2526)

CHAIN-OF-CUSTODY-RECORD

Page 1 of 1

Page 27 of 29

Report Results To:

Report Attention: GLEN REYNOLDS | Project Number:
Company: LASSEN COMMUNITY COLLEGE
Mailing Address: PO BOX 3000
City, State, Zip: SUSANVILLE CA 96130
Phone: 650-204-9596 OR 530-260-2518 | Email / Fax:

Send Invoice To:

Invoice Attention: MAINTENANCE | PO# | Quote #
Company: LASSEN Community College
Mailing Address: P.O. Box 3000
City, State, Zip: SUSANVILLE, CA. 96130
Phone: 530-251-8889 | Email / Fax: gcollins@lassencollege.edu

COMPLIANCE MONITORING? Yes ☒ No ☐
NEW ADDRESS? Results ☐ Invoice ☐

Applicable Program: SDWA ☐ CWA ☐ RCRA ☐ Mining ☐ Other ____

QC Level Report: ○ II III IV
NOTE: Surcharges apply to Level II, III and IV reports

Sampled by: JEFFREY G. LANG Signature: [signature] jlang@lassencollege.edu

ANALYSES REQUESTED

I attest to the validity and authenticity of the sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time is considered fraud and may be grounds for legal action. Samples may be subcontracted as necessary.

Standard: ☒ Standard TAT 7-10 Business Days. Note that some tests vary.

Rush
☐ Same Day: ☐ 3 Day: ☐ Other (specify): ____
☐ 1 Day: ☐ 4 Day:
☐ 2 Day: ☐ 5 Day:
Rush results will be issued after 4:00 p.m.

NOTE: A Rush Surcharge is applied for rush samples

Other Pertinent Information / Special Instructions

Send Results Via: Mail: ☐ Email: ☒ EDD: ☐
Send Invoice Via: Mail: ☐ Email: ☒

Field Measurements: On-Site pH: | Chlorine: | Temperature: | Other:

Date Sampled	Time Sampled	Sample Identification	SSAL - SEM Lab No.	Comp. Grab	Matrix*	Preservative**	Number / Type of Containers ***	SEE ATTACHED
8-3-20	3:40pm	Well # 2 (5) Samples		G		2,6	5	

Metals*

COMMENTS:

	Signature	Print Name	Company	Date	Time
Relinquished By:	[signature]	JEFFREY G. LANG	LASSEN COMMUNITY COLLEGE	08-04-20	10:36
Received By:	[signature]	ALEX BENITEZ	SSAL	8-4-20	10:30
Relinquished By:	[signature]	ALEX BENITEZ	SSAL	8-4-20	13:45
Received By:	[signature]	K. Grover	SSAL	8-4-20	1345
Relinquished By:					
Received By:					
Authorized By:					

Authorization is required to process samples. This obligates your organization for service fees. SSAL Standard T & C's or other written agreement applies. If collections or legal services are required to recover said fees, your organization will be responsible for all fees and costs in addition to service fees.

Samples are discarded 30 days after results are reported unless other arrangements are made and storage fees may apply. The analytical results associated with this COC apply only to these samples as they are received by the laboratory. The liability of the laboratory is limited to the amount paid for the report.

Matrix* DW-Drinking Water, WW-Waste Water, GW-Ground Water, SW-Surface Water, SS-Soil, S-Solid, OT-Other

Preservative** 1=H_2SO_4, 2=HNO_3, 3=HCl, 4=NaOH, 5=$Na_2S_2O_3$, 6=None, 7=Other

Container*** P-Plastic, G-Glass, V-Voa Vial, OT-Other

Lassen Community College sampling and testing.

WELL #1

RUN 2 MINUTES

Well 01 – Upper Well – Standby

1800585-001

NO2, NO3 – 48 hour hold-time

Mix + Transfer

Perchlorate – 28 Day hold-time

1, 2, 3-TCP – 14 Days hold-time (NO Headspace)

Fill ascorbic Acid To Shoulder

1800585-002 – Lower Well #2

Al, Sb, As, Ba, Be, Cd, Cr, Hg, Ni, Se, Tl – 6 Month hold-time

Fluoride, NO3, NO2 – 48 hour hold-time

Perchlorate – 28 Day hold-time

Gross alpha – 6 Month hold-time

Distribution System – 2 Samples

TTHM (Trihalomethanes) – 14 Day hold-time (NO Headspace)

HAA-5 (Halo Acetic Acids) – 14 Day hold-time

Silver State Labs-Reno
1135 Financial Blvd
Reno, NV 89502
(775) 857-2400 FAX: (888) 398-7002
www.ssalabs.com

Definitions & Qualifiers

WO#: **20080135**
Date: **8/25/2020**

Definitions:

LCS: Laboratory Control Sample; prepared by adding a known mass of target analytes to a specified amount of de-ionized water and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: LCS Duplicate; used to calculate both Accuracy (%REC) and Precision (%RPD)

MBLK: Method Blank; a sample of similar matrix that is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, and in which no target analytes
or interferences are present at concentrations that impact the analytical results for sample analyses.

MS: Matrix Spike; prepared by adding a known mass of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: Matrix Spike Duplicate; used to calculate both Accuracy (%REC) and Precision (%RPD)

RPD: Relative Percent Difference; comparison between sample and duplicate and/or MS and MSD.

PQL: Practical Quantitation Limit; the limit to which data is quantitated for reporting.

MDL: Method Detection Limit; the limit to which the instrument can reliably detect.

MCL: Maximum Contaminant Level; value set according to EPA guidelines.

Qualifiers:

* - Analyte exceeds Safe Drinking Water Act MCL, does not meet drinking water standards.
C - Analyte value below Safe Drinking Water Act MCL, does not meet drinking water standards.
B - Analyte found above the PQL in associated method blank.
G - Calibration blank analyte detected above PQL.
H - Sample analyzed beyond holding time for this parameter.
J - Estimated Value; Analyte found between MDL and PQL limits.
L - Sample concentration is at least 5 times greater than spike contribution. Spike recovery criteria do not apply.
R - RPD between sample and duplicate sample outside the RPD acceptance limits.
S - Batch MS and/or MSD were outside acceptance limits, batch LCS was acceptable.
W - Sample temperature when recieved was out of limit as specified by method.
Z - Batch LCS and/or LCSD were outside acceptance limits.