

SIMCOE LLC
(formerly BPX Energy Inc.)

REVIEWED

By Mike Buchanan at 3:03 pm, Jan 17, 2024

Review of the
GCU#170
Groundwater
Remediation Report:
Content Satisfactory
1. Continue to conduct
groundwater
monitoring until eight
(8) consecutive
quarterly samples, or
different number of
samples approved by
NMOCD, are below
NMWQCC standards.
2. Continue to submit
annual remediation
reports by April 1, 2024

GROUNDWATER REMEDIATION REPORT

Gallego Canyon Unit #170
(K) SECTION 35, T29N, R12W, NMPM
SAN JUAN COUNTY, NEW MEXICO

PREPARED FOR:
NEW MEXICO OIL CONSERVATION DIVISION

JANUARY 2022

PREPARED BY:
SIMCOE LLC
1100 Main Ave., Suite 101
Durango, Colorado 81301

SIMCOE LLC
GCU # 170
Unit Letter K, Sec. 35, T29N, R12W
Incident #: nCS1621656998 / nAUTOfWCO00211
Administrative Environmental Order# 3RP-422-0

Monitor Well Sampling Dates: 03/31/2021 & 8/17/2021

Pit Closure & Background:

In 1995, remedial excavation of a historic pit was performed at the Gallegos Canyon Unit #170. Some of those impacts remained on site and four groundwater monitoring wells were installed as part of the remediation plan for that project. In 2016, a tank of condensate overflowed on site. Removal of the 2016 impacts was conducted, during which three of the original groundwater monitoring wells were removed, then reinstalled. Four additional groundwater monitoring wells were also installed. See Figure 1 for the locations of all monitoring wells.

In 2017, monitoring demonstrated that benzene, toluene, ethylbenzene, and total xylenes had been remediated and no further sampling of these constituents was required.

Groundwater Monitor Well Sampling Procedures:

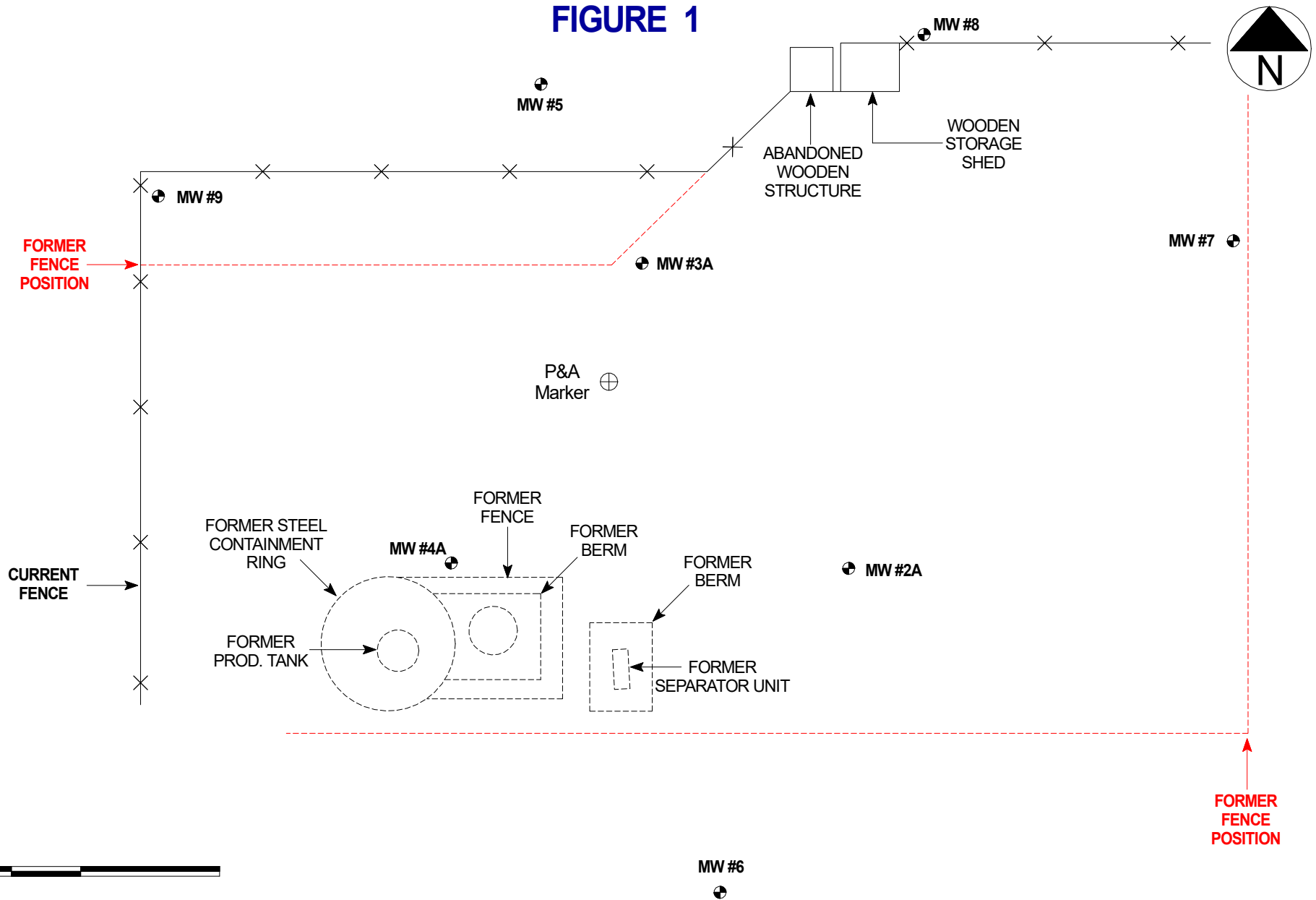
Groundwater sampling was conducted on March 31 and August 17, 2021. Prior to groundwater sample collection, depth-to-water measurements were collected from all eight groundwater monitoring wells.

Prior to sample collection, approximately three wellbore volumes were purged from each well with new disposable bailers. The groundwater samples were collected following US EPA SW-846 protocol. The groundwater samples were transferred into laboratory-provided containers with the appropriate preservative, stored in a cooler on ice, and submitted with a complete chain-of-custody to Hall Environmental Analysis Laboratory (HEAL) for analysis of API water, pH, TDS (total dissolved solids), anions, and cations. Cottonwood also collected field measurements of pH, conductivity, and temperature.

Monitoring Results:

Sulfate and TDS were elevated above the New Mexico Water Quality Control Commission (NMWQCC) standard in MW #2A, MW #3A, MW #5, MW #7, and MW #8 during one or both of the biannual sampling events conducted in 2021. A groundwater sampling results table and the groundwater sampling laboratory reports from the 2021 groundwater sampling are included.

FIGURE 1



SIMCOE LLC

GCU # 170

NE/4 SW/4 SEC. 35, T29N, R12W

SAN JUAN COUNTY, NEW MEXICO



PROJECT: GROUNDWATER MONITORING

DRAWN BY: NJV

DRAFTED: 04/21/2017

SITE MAP

May 2017

LAB BTEX

TABLE

SUMMARY



**Gallegos Canyon Unit #170
Groundwater Sampling Results
Simcoe LLC**

Sample ID	Sample Date	Depth to Water (ft)	Well Depth (ft)	Conductivity- Lab (umhos)	Conductivity- Field (umhos)	Temp. (°C)	pH (Lab)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)
MW # 2A	04/17/17	8.71	14.80	1,400	1,680	13.2	7.63	8.8	440	1,010	<1.0	<1.0	<1.0	<1.5
MW # 2A	08/10/17	7.43	"	1,100	1,070	16.0	7.63	8.1	220	780	<1.0	<1.0	<1.0	<1.5
MW # 2A	10/19/17	7.02	"	1,200	1,570	15.7	7.45	5.3	210	795	<1.0	<1.0	<1.0	<1.5
MW # 2A	04/10/18	7.21	"	1,400	1,440	14.5	7.49	6.6	340	1,000	-	-	-	-
MW # 2A	09/19/18	6.99	"	1,000	1,310	18.1	7.62	6.0	140	706	-	-	-	-
MW # 2A	06/25/19	6.70	"	1,300	2,000	15.2	7.27	8.6	350	940	-	-	-	-
MW # 2A	12/11/19	8.01	"	1,500	1,490	13.2	7.70	11	420	1,090	-	-	-	-
MW # 2A	03/25/20	8.87	"	1,600	1,660	11.4	7.58	17	490	1,240	-	-	-	-
MW # 2A	08/12/20	6.47	"	3,700	1,410	16.3	7.36	140	1600	3,060	-	-	-	-
MW # 2A	03/31/21	-	"	2,400	-	-	7.38	100	880	1,770	-	-	-	-
MW # 2A	08/17/21	6.81	"	1,600	1,704	19.9	7.33	35	480	870	-	-	-	-
MW # 3A	04/17/17	7.92	15.88	1,500	1,790	13.1	7.49	13	520	1,160	<1.0	<1.0	<1.0	<1.5
MW # 3A	08/10/17	6.74	"	2,100	1,850	16.5	7.59	6.5	980	1,940	<1.0	<1.0	<1.0	<1.5
MW # 3A	10/19/17	6.43	"	2,000	1,250	15.7	7.47	6.1	820	1,670	<1.0	<1.0	<1.0	<1.5
MW # 3A	04/10/18	6.60	"	2,000	1,520	14.4	7.60	9.6	810	1,680	-	-	-	-
MW # 3A	09/19/18	6.39	"	1,700	1,280	18.2	7.62	6.4	710	1,310	-	-	-	-
MW # 3A	06/25/19	7.80	"	1,800	1,410	16.5	7.30	8.0	790	1,550	-	-	-	-
MW # 3A	12/11/19	7.22	"	1,600	1,430	13.1	7.81	8.5	680	1,400	-	-	-	-
MW # 3A	03/25/20	7.98	"	1,800	1,670	10.9	7.96	11	820	1,570	-	-	-	-
MW # 3A	08/12/20	6.02	"	1,800	1,790	16.2	7.48	45	630	1,290	-	-	-	-
MW # 3A	03/31/21	-	"	1,900	-	-	7.38	12	850	1,570	-	-	-	-
MW # 3A	08/17/21	6.25	"	1,800	1,685	20.2	7.41	13	810	1,250	-	-	-	-
MW # 4A	04/17/17	8.86	15.98	1,100	1,450	12.1	7.70	7.7	270	770	<1.0	<1.0	<1.0	<1.5
MW # 4A	08/10/17	7.51	"	950	1,110	16.1	7.73	6.0	140	650	<1.0	<1.0	<1.0	<1.5
MW # 4A	10/19/17	7.10	"	990	1,090	16.3	7.52	7.4	140	596	<1.0	<1.0	<1.0	<1.5
MW # 4A	04/10/18	7.31	"	1,100	1,100	14.8	7.67	10.0	140	740	-	-	-	-
MW # 4A	09/19/18	7.12	"	1,000	1,110	17.8	7.69	8.2	140	690	-	-	-	-
MW # 4A	06/25/19	8.78	"	1,100	1,100	14.9	7.41	10	140	185	-	-	-	-
MW # 4A	12/11/19	8.09	"	1,400	1,460	13.6	7.82	79	230	955	-	-	-	-
MW # 4A	03/25/20	8.98	"	1,100	1,310	11.0	7.80	27	190	820	-	-	-	-
MW # 4A	08/12/20	6.67	"	4,000	5,700	16.8	7.53	340	1,500	3,140	-	-	-	-
MW # 4A	03/31/21	-	"	1,200	-	-	7.43	22	200	670	-	-	-	-
MW # 4A	08/17/21	6.60	"	1,300	1,353	21.4	7.44	48	260	780	-	-	-	-
NMWQCC Groundwater Standard							6 - 9	250	600	1,000	5	1,000	700	620



**Gallegos Canyon Unit #170
Groundwater Sampling Results
Simcoe LLC**

Sample ID	Sample Date	Depth to Water (ft)	Well Depth (ft)	Conductivity- Lab (umhos)	Conductivity- Field (umhos)	Temp. (°C)	pH (Lab)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)
MW # 5	04/17/17	7.47	19.24	1,900	1,710	13.3	7.58	12	840	1,490	<1.0	<1.0	<1.0	<1.5
MW # 5	08/10/17	6.42	"	4,200	2,200	16.4	7.74	8.4	2,500	3,460	<1.0	<1.0	<1.0	<1.5
MW # 5	10/19/17	6.15	"	3,500	1,620	15.9	7.44	6.1	1,800	3,060	<1.0	<1.0	<1.0	<1.5
MW # 5	04/10/18	6.26	"	2,400	1,830	14.7	7.60	8.7	1,100	2,140	-	-	-	-
MW # 5	09/19/18	6.10	"	2,100	1,360	16.3	7.95	7.3	910	1,610	-	-	-	-
MW # 5	06/25/19	7.29	"	2,200	1,800	15.7	7.37	8.3	1,100	1,610	-	-	-	-
MW # 5	12/11/19	6.82	"	2,000	2,000	13.3	7.87	7.6	980	1,660	-	-	-	-
MW # 5	03/25/20	7.50	"	2,100	2,100	11.8	7.79	11	1,100	1,880	-	-	-	-
MW # 5	08/12/20	5.73	"	1,800	1,560	17.1	7.51	12	700	1,400	-	-	-	-
MW # 5	03/31/21	-	"	2,200	-	-	7.45	7.5	1,100	1,840	-	-	-	-
MW # 5	08/17/21	5.96	"	2,300	2,220	21.9	7.41	21	1,000	1,780	-	-	-	-
MW # 6	04/17/17	9.98	15.98	830	800	12.6	7.61	5.6	85	450	<1.0	<1.0	<1.0	<1.5
MW # 6	08/10/17	8.47	"	820	820	15.8	7.69	7.6	76	560	<1.0	<1.0	<1.0	<1.5
MW # 6	10/19/17	7.98	"	1,000	920	15.6	7.40	5.7	77	540	<1.0	<1.0	<1.0	<1.5
MW # 6	04/10/18	8.27	"	930	900	14.1	7.67	6.8	75	580	-	-	-	-
MW # 6	09/19/18	7.98	"	1,200	1,210	17.9	7.67	16.0	130	780	-	-	-	-
MW # 6	06/25/19	9.99	"	880	850	14.6	7.42	<5.0	72	395	-	-	-	-
MW # 6	12/11/19	9.20	"	830	850	13.6	7.63	4.0	75	610	-	-	-	-
MW # 6	03/25/20	10.21	"	800	800	11.6	7.97	4.3	77	585	-	-	-	-
MW # 6	08/12/20	7.36	"	850	810	17.9	7.60	<2.5	53	516	-	-	-	-
MW # 6	03/31/21	-	"	840	-	-	7.27	4.3	76	535	-	-	-	-
MW # 6	08/17/21	7.56	"	1,000	1,026	23.3	7.32	4.0	72	580	-	-	-	-
MW # 7	04/17/17	9.25	18.78	1,900	1,850	14.1	7.60	7.7	930	1,610	<1.0	<1.0	<1.0	<1.5
MW # 7	08/10/17	8.17	"	1,800	1,960	16.8	7.60	17.0	690	1,570	<1.0	<1.0	<1.0	<1.5
MW # 7	10/19/17	7.81	"	1,900	1,670	16.1	7.40	<5.0	730	1,510	<1.0	<1.0	<1.0	<1.5
MW # 7	04/10/18	7.99	"	1,800	1,710	14.5	7.56	6.6	720	1,480	-	-	-	-
MW # 7	09/19/18	7.72	"	1,500	1,250	17.7	7.66	6.9	500	1,100	-	-	-	-
MW # 7	06/25/19	9.20	"	1,800	1,420	16.6	7.34	9.7	710	1,180	-	-	-	-
MW # 7	12/11/19	8.61	"	1,900	1,770	12.3	7.82	11	920	1,670	-	-	-	-
MW # 7	03/25/20	9.36	"	1,900	1,830	10.8	7.95	8.6	940	1,680	-	-	-	-
MW # 7	08/12/20	7.39	"	1,700	1,490	17.1	7.66	15	730	1,350	-	-	-	-
MW # 7	03/31/21	-	"	1,900	-	-	7.29	16	840	1,580	-	-	-	-
MW # 7	08/17/21	7.65	"	2,000	2,040	20.0	7.46	14	1,000	1,440	-	-	-	-
NMWQCC Groundwater Standard							6 - 9	250	600	1,000	5	1,000	700	620



**Gallegos Canyon Unit #170
Groundwater Sampling Results
Simcoe LLC**

Sample ID	Sample Date	Depth to Water (ft)	Well Depth (ft)	Conductivity- Lab (umhos)	Conductivity- Field (umhos)	Temp. (°C)	pH (Lab)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)
MW # 8	04/17/17	8.63	18.08	2,300	2,300	13.4	7.58	12	1,200	1,880	<1.0	<1.0	<1.0	<1.5
MW # 8	08/10/17	7.78	"	2,000	1,900	16.3	7.69	8.7	1,100	1,760	<1.0	<1.0	<1.0	<1.5
MW # 8	10/19/17	7.54	"	2,200	1,780	15.7	7.53	6.3	920	1,760	<1.0	<1.0	<1.0	<1.5
MW # 8	04/10/18	7.64	"	2,000	1,880	14.2	7.63	7.5	680	1,600	-	-	-	-
MW # 8	09/19/18	7.45	"	2,100	1,820	16.0	8.10	15.0	910	1,650	-	-	-	-
MW # 8	06/25/19	8.54	"	2,000	1,190	15.6	7.40	8.2	930	1,660	-	-	-	-
MW # 8	12/11/19	8.12	"	2,200	2,100	12.6	7.84	11	990	1,940	-	-	-	-
MW # 8	03/25/20	8.72	"	2,100	2,000	11.0	7.97	9	1,200	1,970	-	-	-	-
MW # 8	08/12/20	7.20	"	2,600	2,600	15.9	7.61	33	1100	2,120	-	-	-	-
MW # 8	03/31/21	-	"	2,200	-	-	7.40	8.2	1100	1,990	-	-	-	-
MW # 8	08/17/21	7.40	"	2,000	1,968	21.1	7.52	12	980	1,600	-	-	-	-
MW # 9	04/17/17	11.38	18.43	1,200	1,530	13.8	7.75	55	220	800	<1.0	<1.0	<1.0	<1.5
MW # 9	08/10/17	10.16	"	1,100	1,210	16.3	7.81	38	210	850	<1.0	<1.0	<1.0	<1.5
MW # 9	10/19/17	9.84	"	1,200	1,070	16.3	7.66	21	190	710	<1.0	<1.0	<1.0	<1.5
MW # 9	04/10/18	9.98	"	970	1,240	14.5	7.72	24	120	615	-	-	-	-
MW # 9	09/19/18	9.85	"	1,100	1,180	16.4	7.91	22	150	700	-	-	-	-
MW # 9	06/25/19	11.22	"	1,100	240	14.4	7.56	23	220	650	-	-	-	-
MW # 9	12/11/19	10.63	"	1,500	1,450	13.6	7.88	18	500	1,180	-	-	-	-
MW # 9	03/25/20	11.44	"	1,500	1,440	11.6	7.91	31	460	1,060	-	-	-	-
MW # 9	08/12/20	9.36	"	1,400	2,400	16.5	7.71	93	230	932	-	-	-	-
MW # 9	03/31/21	-	"	990	-	-	7.39	18	200	630	-	-	-	-
MW # 9	08/17/21	9.58	"	1,100	1,084	20.3	7.60	19	240	635	-	-	-	-
NMWQCC Groundwater Standard							6 - 9	250	600	1,000	5	1,000	700	620

Notes:

TDS - Total Dissolved Solids

ft - feet

mg/L - milligrams per liter

umhos - microhms

ppb - parts per billion

"-" - Indicates no data

NMWQCC - New Mexico Water Quality Control Commission

Depth to water measured from top of well casing

Bold values exceed NMWQCC Standard

°C - degrees Celsius

2021 LAB REPORTS



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

April 12, 2021

Steve Moskal
SIMCOE
1100 Main St.
Durango, CO 81301
TEL: (505) 330-9179
FAX:

RE: Gallegos Canyon Unit 170

OrderNo.: 2104008

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 8 sample(s) on 4/1/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2104008

Date Reported: 4/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW-6

Project: Gallegos Canyon Unit 170

Collection Date: 3/31/2021 10:25:00 AM

Lab ID: 2104008-001

Matrix: AQUEOUS

Received Date: 4/1/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.53	0.50		mg/L	5	4/1/2021 8:38:20 PM
Chloride	4.3	2.5		mg/L	5	4/1/2021 8:38:20 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	4/1/2021 8:38:20 PM
Bromide	ND	0.50		mg/L	5	4/1/2021 8:38:20 PM
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	4/1/2021 8:38:20 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	4/1/2021 8:38:20 PM
Sulfate	76	2.5		mg/L	5	4/1/2021 8:38:20 PM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	150	5.0		mg/L	5	4/6/2021 1:28:25 PM
Iron	18	2.5	*	mg/L	50	4/6/2021 3:03:09 PM
Magnesium	19	1.0		mg/L	1	4/6/2021 1:27:04 PM
Potassium	4.5	1.0		mg/L	1	4/6/2021 1:27:04 PM
Sodium	34	1.0		mg/L	1	4/7/2021 12:49:10 PM
SM2340B: HARDNESS						Analyst: ELS
Hardness (As CaCO ₃)	460	6.6		mg/L	1	4/6/2021 11:34:00 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: MH
Conductivity	840	10		µmhos/c	1	4/5/2021 12:59:54 PM
SM4500-H+B / 9040C: PH						Analyst: MH
pH	7.27		H	pH units	1	4/5/2021 12:59:54 PM
SM2320B: ALKALINITY						Analyst: MH
Bicarbonate (As CaCO ₃)	383.8	20.00		mg/L Ca	1	4/5/2021 12:59:54 PM
Carbonate (As CaCO ₃)	ND	2.000		mg/L Ca	1	4/5/2021 12:59:54 PM
Total Alkalinity (as CaCO ₃)	383.8	20.00		mg/L Ca	1	4/5/2021 12:59:54 PM
SPECIFIC GRAVITY						Analyst: JRR
Specific Gravity	0.9940	0			1	4/7/2021 10:10:00 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	535	100	*D	mg/L	1	4/7/2021 2:14:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 16

Analytical Report

Lab Order 2104008

Date Reported: 4/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW-9

Project: Gallegos Canyon Unit 170

Collection Date: 3/31/2021 10:50:00 AM

Lab ID: 2104008-002

Matrix: AQUEOUS

Received Date: 4/1/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.52	0.50		mg/L	5	4/1/2021 9:03:09 PM
Chloride	18	2.5		mg/L	5	4/1/2021 9:03:09 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	4/1/2021 9:03:09 PM
Bromide	ND	0.50		mg/L	5	4/1/2021 9:03:09 PM
Nitrogen, Nitrate (As N)	0.73	0.50		mg/L	5	4/1/2021 9:03:09 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	4/1/2021 9:03:09 PM
Sulfate	200	2.5		mg/L	5	4/1/2021 9:03:09 PM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	160	5.0		mg/L	5	4/6/2021 1:31:03 PM
Iron	23	2.5	*	mg/L	50	4/6/2021 3:04:46 PM
Magnesium	21	1.0		mg/L	1	4/6/2021 1:29:45 PM
Potassium	5.4	1.0		mg/L	1	4/6/2021 1:29:45 PM
Sodium	69	1.0		mg/L	1	4/7/2021 12:50:30 PM
SM2340B: HARDNESS						Analyst: ELS
Hardness (As CaCO ₃)	500	6.6		mg/L	1	4/6/2021 11:34:00 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: MH
Conductivity	990	10		µmhos/c	1	4/5/2021 1:17:08 PM
SM4500-H+B / 9040C: PH						Analyst: MH
pH	7.39		H	pH units	1	4/5/2021 1:17:08 PM
SM2320B: ALKALINITY						Analyst: MH
Bicarbonate (As CaCO ₃)	332.0	20.00		mg/L Ca	1	4/5/2021 1:17:08 PM
Carbonate (As CaCO ₃)	ND	2.000		mg/L Ca	1	4/5/2021 1:17:08 PM
Total Alkalinity (as CaCO ₃)	332.0	20.00		mg/L Ca	1	4/5/2021 1:17:08 PM
SPECIFIC GRAVITY						Analyst: JRR
Specific Gravity	0.9938	0			1	4/7/2021 10:10:00 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	630	100	*D	mg/L	1	4/7/2021 2:14:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	E	Value above quantitation range
		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
		ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
		PQL	Practical Quantitative Limit	RL	Reporting Limit
		S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104008

Date Reported: 4/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW-7

Project: Gallegos Canyon Unit 170

Collection Date: 3/31/2021 11:20:00 AM

Lab ID: 2104008-003

Matrix: AQUEOUS

Received Date: 4/1/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.53	0.50		mg/L	5	4/1/2021 9:27:58 PM
Chloride	16	2.5		mg/L	5	4/1/2021 9:27:58 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	4/1/2021 9:27:58 PM
Bromide	0.54	0.50		mg/L	5	4/1/2021 9:27:58 PM
Nitrogen, Nitrate (As N)	1.2	0.50		mg/L	5	4/1/2021 9:27:58 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	4/1/2021 9:27:58 PM
Sulfate	840	25	*	mg/L	50	4/7/2021 11:54:54 PM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	360	5.0		mg/L	5	4/6/2021 1:33:42 PM
Iron	10	1.0	*	mg/L	20	4/6/2021 3:06:23 PM
Magnesium	38	1.0		mg/L	1	4/6/2021 1:32:24 PM
Potassium	4.5	1.0		mg/L	1	4/6/2021 1:32:24 PM
Sodium	110	5.0		mg/L	5	4/7/2021 12:51:51 PM
SM2340B: HARDNESS						Analyst: ELS
Hardness (As CaCO ₃)	1100	6.6		mg/L	1	4/6/2021 11:34:00 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: MH
Conductivity	1900	10		µmhos/c	1	4/5/2021 1:32:35 PM
SM4500-H+B / 9040C: PH						Analyst: MH
pH	7.29		H	pH units	1	4/5/2021 1:32:35 PM
SM2320B: ALKALINITY						Analyst: MH
Bicarbonate (As CaCO ₃)	278.2	20.00		mg/L Ca	1	4/5/2021 1:32:35 PM
Carbonate (As CaCO ₃)	ND	2.000		mg/L Ca	1	4/5/2021 1:32:35 PM
Total Alkalinity (as CaCO ₃)	278.2	20.00		mg/L Ca	1	4/5/2021 1:32:35 PM
SPECIFIC GRAVITY						Analyst: JRR
Specific Gravity	1.002	0			1	4/7/2021 10:10:00 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	1580	100	*D	mg/L	1	4/7/2021 2:14:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 16

Analytical Report

Lab Order 2104008

Date Reported: 4/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW-8

Project: Gallegos Canyon Unit 170

Collection Date: 3/31/2021 11:45:00 AM

Lab ID: 2104008-004

Matrix: AQUEOUS

Received Date: 4/1/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.53	0.50		mg/L	5	4/1/2021 10:17:35 PM
Chloride	8.2	2.5		mg/L	5	4/1/2021 10:17:35 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	4/1/2021 10:17:35 PM
Bromide	ND	0.50		mg/L	5	4/1/2021 10:17:35 PM
Nitrogen, Nitrate (As N)	1.4	0.50		mg/L	5	4/1/2021 10:17:35 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	4/1/2021 10:17:35 PM
Sulfate	1100	25	*	mg/L	50	4/8/2021 12:07:49 AM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	400	5.0		mg/L	5	4/6/2021 1:36:23 PM
Iron	12	1.0	*	mg/L	20	4/6/2021 3:07:59 PM
Magnesium	38	1.0		mg/L	1	4/6/2021 1:35:02 PM
Potassium	5.2	1.0		mg/L	1	4/6/2021 1:35:02 PM
Sodium	100	5.0		mg/L	5	4/7/2021 12:53:10 PM
SM2340B: HARDNESS						Analyst: ELS
Hardness (As CaCO ₃)	1200	6.6		mg/L	1	4/6/2021 11:34:00 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: MH
Conductivity	2200	10		µmhos/c	1	4/5/2021 1:46:34 PM
SM4500-H+B / 9040C: PH						Analyst: MH
pH	7.40		H	pH units	1	4/5/2021 1:46:34 PM
SM2320B: ALKALINITY						Analyst: MH
Bicarbonate (As CaCO ₃)	217.1	20.00		mg/L Ca	1	4/5/2021 1:46:34 PM
Carbonate (As CaCO ₃)	ND	2.000		mg/L Ca	1	4/5/2021 1:46:34 PM
Total Alkalinity (as CaCO ₃)	217.1	20.00		mg/L Ca	1	4/5/2021 1:46:34 PM
SPECIFIC GRAVITY						Analyst: JRR
Specific Gravity	0.9997	0			1	4/7/2021 10:10:00 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	1990	100	*D	mg/L	1	4/7/2021 2:14:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 16

Analytical Report

Lab Order 2104008

Date Reported: 4/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW-5

Project: Gallegos Canyon Unit 170

Collection Date: 3/31/2021 12:45:00 PM

Lab ID: 2104008-005

Matrix: AQUEOUS

Received Date: 4/1/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.55	0.50		mg/L	5	4/1/2021 10:42:24 PM
Chloride	7.5	2.5		mg/L	5	4/1/2021 10:42:24 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	4/1/2021 10:42:24 PM
Bromide	0.82	0.50		mg/L	5	4/1/2021 10:42:24 PM
Nitrogen, Nitrate (As N)	0.68	0.50		mg/L	5	4/1/2021 10:42:24 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	4/1/2021 10:42:24 PM
Sulfate	1100	25	*	mg/L	50	4/8/2021 12:20:41 AM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	390	5.0		mg/L	5	4/6/2021 1:39:01 PM
Iron	29	2.5	*	mg/L	50	4/6/2021 3:15:17 PM
Magnesium	52	1.0		mg/L	1	4/6/2021 1:37:41 PM
Potassium	8.0	1.0		mg/L	1	4/6/2021 1:37:41 PM
Sodium	98	5.0		mg/L	5	4/7/2021 12:54:31 PM
SM2340B: HARDNESS						Analyst: ELS
Hardness (As CaCO ₃)	1200	6.6		mg/L	1	4/6/2021 11:34:00 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: MH
Conductivity	2200	10		µmhos/c	1	4/5/2021 1:58:39 PM
SM4500-H+B / 9040C: PH						Analyst: MH
pH	7.45		H	pH units	1	4/5/2021 1:58:39 PM
SM2320B: ALKALINITY						Analyst: MH
Bicarbonate (As CaCO ₃)	190.6	20.00		mg/L Ca	1	4/5/2021 1:58:39 PM
Carbonate (As CaCO ₃)	ND	2.000		mg/L Ca	1	4/5/2021 1:58:39 PM
Total Alkalinity (as CaCO ₃)	190.6	20.00		mg/L Ca	1	4/5/2021 1:58:39 PM
SPECIFIC GRAVITY						Analyst: JRR
Specific Gravity	0.9970	0			1	4/7/2021 10:10:00 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	1840	100	*D	mg/L	1	4/7/2021 2:14:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 16

Analytical Report

Lab Order 2104008

Date Reported: 4/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW-3A

Project: Gallegos Canyon Unit 170

Collection Date: 3/31/2021 1:05:00 PM

Lab ID: 2104008-006

Matrix: AQUEOUS

Received Date: 4/1/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.50	0.50		mg/L	5	4/1/2021 11:07:14 PM
Chloride	12	2.5		mg/L	5	4/1/2021 11:07:14 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	4/1/2021 11:07:14 PM
Bromide	0.52	0.50		mg/L	5	4/1/2021 11:07:14 PM
Nitrogen, Nitrate (As N)	0.71	0.50		mg/L	5	4/1/2021 11:07:14 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	4/1/2021 11:07:14 PM
Sulfate	850	25	*	mg/L	50	4/8/2021 12:33:34 AM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	380	5.0		mg/L	5	4/6/2021 1:46:34 PM
Iron	31	2.5	*	mg/L	50	4/6/2021 3:16:55 PM
Magnesium	41	1.0		mg/L	1	4/6/2021 1:45:12 PM
Potassium	7.5	1.0		mg/L	1	4/6/2021 1:45:12 PM
Sodium	73	1.0		mg/L	1	4/7/2021 12:55:50 PM
SM2340B: HARDNESS						Analyst: ELS
Hardness (As CaCO ₃)	1100	6.6		mg/L	1	4/6/2021 11:34:00 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: MH
Conductivity	1900	10		µmhos/c	1	4/5/2021 2:09:51 PM
SM4500-H+B / 9040C: PH						Analyst: MH
pH	7.38		H	pH units	1	4/5/2021 2:09:51 PM
SM2320B: ALKALINITY						Analyst: MH
Bicarbonate (As CaCO ₃)	220.7	20.00		mg/L Ca	1	4/5/2021 2:09:51 PM
Carbonate (As CaCO ₃)	ND	2.000		mg/L Ca	1	4/5/2021 2:09:51 PM
Total Alkalinity (as CaCO ₃)	220.7	20.00		mg/L Ca	1	4/5/2021 2:09:51 PM
SPECIFIC GRAVITY						Analyst: JRR
Specific Gravity	0.9975	0			1	4/7/2021 10:10:00 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	1570	100	*D	mg/L	1	4/7/2021 2:14:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 16

Analytical Report

Lab Order 2104008

Date Reported: 4/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW-4A

Project: Gallegos Canyon Unit 170

Collection Date: 3/31/2021 1:30:00 PM

Lab ID: 2104008-007

Matrix: AQUEOUS

Received Date: 4/1/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.52	0.50		mg/L	5	4/1/2021 11:32:03 PM
Chloride	22	2.5		mg/L	5	4/1/2021 11:32:03 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	4/1/2021 11:32:03 PM
Bromide	ND	0.50		mg/L	5	4/1/2021 11:32:03 PM
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	4/1/2021 11:32:03 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	4/1/2021 11:32:03 PM
Sulfate	200	2.5		mg/L	5	4/1/2021 11:32:03 PM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	220	5.0		mg/L	5	4/6/2021 1:49:14 PM
Iron	50	5.0	*	mg/L	100	4/6/2021 3:18:32 PM
Magnesium	30	1.0		mg/L	1	4/6/2021 1:47:54 PM
Potassium	7.9	1.0		mg/L	1	4/6/2021 1:47:54 PM
Sodium	70	1.0		mg/L	1	4/7/2021 1:04:47 PM
SM2340B: HARDNESS						Analyst: ELS
Hardness (As CaCO ₃)	670	6.6		mg/L	1	4/6/2021 11:34:00 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: MH
Conductivity	1200	10		µmhos/c	1	4/5/2021 2:28:07 PM
SM4500-H+B / 9040C: PH						Analyst: MH
pH	7.43		H	pH units	1	4/5/2021 2:28:07 PM
SM2320B: ALKALINITY						Analyst: MH
Bicarbonate (As CaCO ₃)	417.6	20.00		mg/L Ca	1	4/5/2021 2:28:07 PM
Carbonate (As CaCO ₃)	ND	2.000		mg/L Ca	1	4/5/2021 2:28:07 PM
Total Alkalinity (as CaCO ₃)	417.6	20.00		mg/L Ca	1	4/5/2021 2:28:07 PM
SPECIFIC GRAVITY						Analyst: JRR
Specific Gravity	0.9993	0			1	4/7/2021 10:10:00 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	670	200	*D	mg/L	1	4/7/2021 2:14:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 16

Analytical Report

Lab Order 2104008

Date Reported: 4/12/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW-2A

Project: Gallegos Canyon Unit 170

Collection Date: 3/31/2021 1:55:00 PM

Lab ID: 2104008-008

Matrix: AQUEOUS

Received Date: 4/1/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.55	0.50		mg/L	5	4/2/2021 12:46:30 AM
Chloride	100	10		mg/L	20	4/2/2021 1:23:43 AM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	4/2/2021 12:46:30 AM
Bromide	1.5	0.50		mg/L	5	4/2/2021 12:46:30 AM
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	4/2/2021 12:46:30 AM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	4/2/2021 12:46:30 AM
Sulfate	880	10	*	mg/L	20	4/2/2021 1:23:43 AM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	380	5.0		mg/L	5	4/6/2021 1:51:55 PM
Iron	100	10	*	mg/L	200	4/6/2021 3:20:09 PM
Magnesium	67	1.0		mg/L	1	4/6/2021 1:50:34 PM
Potassium	11	1.0		mg/L	1	4/6/2021 1:50:34 PM
Sodium	230	5.0		mg/L	5	4/7/2021 1:06:10 PM
SM2340B: HARDNESS						Analyst: ELS
Hardness (As CaCO ₃)	1200	6.6		mg/L	1	4/6/2021 11:34:00 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: MH
Conductivity	2400	10		µmhos/c	1	4/5/2021 2:46:16 PM
SM4500-H+B / 9040C: PH						Analyst: MH
pH	7.38		H	pH units	1	4/5/2021 2:46:16 PM
SM2320B: ALKALINITY						Analyst: MH
Bicarbonate (As CaCO ₃)	450.3	20.00		mg/L Ca	1	4/5/2021 2:46:16 PM
Carbonate (As CaCO ₃)	ND	2.000		mg/L Ca	1	4/5/2021 2:46:16 PM
Total Alkalinity (as CaCO ₃)	450.3	20.00		mg/L Ca	1	4/5/2021 2:46:16 PM
SPECIFIC GRAVITY						Analyst: JRR
Specific Gravity	0.9960	0			1	4/7/2021 10:10:00 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	1770	200	*D	mg/L	1	4/7/2021 2:14:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 16

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104008

12-Apr-21

Client: SIMCOE
Project: Gallegos Canyon Unit 170

Sample ID: MB-59170	SampType: MBLK	TestCode: EPA Method 200.7: Metals								
Client ID: PBW	Batch ID: 59170	RunNo: 76490								
Prep Date: 4/2/2021	Analysis Date: 4/6/2021	SeqNo: 2709716 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Iron	ND	0.050								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID: LLCS-59170	SampType: LCSLL	TestCode: EPA Method 200.7: Metals								
Client ID: BatchQC	Batch ID: 59170	RunNo: 76490								
Prep Date: 4/2/2021	Analysis Date: 4/6/2021	SeqNo: 2709806 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	104	50	150			
Iron	ND	0.050	0.02000	0	123	50	150			
Magnesium	ND	1.0	0.5000	0	104	50	150			
Potassium	ND	1.0	0.5000	0	94.4	50	150			
Sodium	ND	1.0	0.5000	0	121	50	150			

Sample ID: LCS-59170	SampType: LCS	TestCode: EPA Method 200.7: Metals								
Client ID: LCSW	Batch ID: 59170	RunNo: 76490								
Prep Date: 4/2/2021	Analysis Date: 4/6/2021	SeqNo: 2709808 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	50	1.0	50.00	0	100	85	115			
Iron	0.49	0.050	0.5000	0	98.1	85	115			
Magnesium	51	1.0	50.00	0	101	85	115			
Potassium	50	1.0	50.00	0	99.3	85	115			
Sodium	52	1.0	50.00	0	104	85	115			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 9 of 16

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104008

12-Apr-21

Client: SIMCOE
Project: Gallegos Canyon Unit 170

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R76406	RunNo: 76406								
Prep Date:	Analysis Date: 4/1/2021	SeqNo: 2706094 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R76406	RunNo: 76406								
Prep Date:	Analysis Date: 4/1/2021	SeqNo: 2706095 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.48	0.10	0.5000	0	95.1	90	110			
Chloride	4.8	0.50	5.000	0	95.0	90	110			
Nitrogen, Nitrite (As N)	1.0	0.10	1.000	0	99.6	90	110			
Bromide	2.4	0.10	2.500	0	98.0	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	102	90	110			
Phosphorus, Orthophosphate (As P)	4.7	0.50	5.000	0	93.4	90	110			
Sulfate	9.8	0.50	10.00	0	97.8	90	110			

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: A76406	RunNo: 76406								
Prep Date:	Analysis Date: 4/1/2021	SeqNo: 2706153 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: A76406	RunNo: 76406								
Prep Date:	Analysis Date: 4/2/2021	SeqNo: 2706154 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.47	0.10	0.5000	0	94.4	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104008

12-Apr-21

Client: SIMCOE**Project:** Gallegos Canyon Unit 170

Sample ID: LCS	SampType: lcs			TestCode: EPA Method 300.0: Anions						
Client ID: LCSW	Batch ID: A76406			RunNo: 76406						
Prep Date:	Analysis Date: 4/2/2021			SeqNo: 2706154			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.2	90	110			
Nitrogen, Nitrite (As N)	0.99	0.10	1.000	0	98.5	90	110			
Bromide	2.4	0.10	2.500	0	97.1	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Phosphorus, Orthophosphate (As P)	4.6	0.50	5.000	0	92.6	90	110			
Sulfate	9.7	0.50	10.00	0	96.7	90	110			

Sample ID: 2104008-008AMS	SampType: ms			TestCode: EPA Method 300.0: Anions						
Client ID: MW-2A	Batch ID: A76406			RunNo: 76406						
Prep Date:	Analysis Date: 4/2/2021			SeqNo: 2706158			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.7	0.50	2.500	0.5465	84.5	73.3	111			
Nitrogen, Nitrite (As N)	4.9	0.50	5.000	0	98.8	75.5	113			
Bromide	14	0.50	12.50	1.504	98.1	85.9	106			
Nitrogen, Nitrate (As N)	13	0.50	12.50	0.1875	102	86.8	110			
Phosphorus, Orthophosphate (As P)	24	2.5	25.00	0	96.3	70.5	118			

Sample ID: 2104008-008AMSD	SampType: msd			TestCode: EPA Method 300.0: Anions						
Client ID: MW-2A	Batch ID: A76406			RunNo: 76406						
Prep Date:	Analysis Date: 4/2/2021			SeqNo: 2706159			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.7	0.50	2.500	0.5465	86.1	73.3	111	1.51	20	
Nitrogen, Nitrite (As N)	4.9	0.50	5.000	0	98.0	75.5	113	0.793	20	
Bromide	14	0.50	12.50	1.504	97.3	85.9	106	0.722	20	
Nitrogen, Nitrate (As N)	13	0.50	12.50	0.1875	101	86.8	110	0.966	20	
Phosphorus, Orthophosphate (As P)	24	2.5	25.00	0	96.2	70.5	118	0.116	20	

Sample ID: MB	SampType: mblk			TestCode: EPA Method 300.0: Anions						
Client ID: PBW	Batch ID: A76513			RunNo: 76513						
Prep Date:	Analysis Date: 4/7/2021			SeqNo: 2711576			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104008

12-Apr-21

Client: SIMCOE

Project: Gallegos Canyon Unit 170

Sample ID: LCS		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSW		Batch ID: A76513		RunNo: 76513						
Prep Date:		Analysis Date: 4/7/2021		SeqNo: 2711577		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.9	0.50	10.00	0	98.8	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104008

12-Apr-21

Client: SIMCOE

Project: Gallegos Canyon Unit 170

Sample ID: Ics-1 99.5uS eC	SampType: Ics	TestCode: SM2510B: Specific Conductance
Client ID: LCSW	Batch ID: R76453	RunNo: 76453
Prep Date:	Analysis Date: 4/5/2021	SeqNo: 2708648 Units: µmhos/cm
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Conductivity	100	10 99.50 0 101 85 115

Sample ID: Ics-2 99.5u eC	SampType: Ics	TestCode: SM2510B: Specific Conductance
Client ID: LCSW	Batch ID: R76453	RunNo: 76453
Prep Date:	Analysis Date: 4/5/2021	SeqNo: 2708674 Units: µmhos/cm
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Conductivity	100	10 99.50 0 104 85 115

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104008

12-Apr-21

Client: SIMCOE

Project: Gallegos Canyon Unit 170

Sample ID: mb-1 alk	SampType: mblk	TestCode: SM2320B: Alkalinity
Client ID: PBW	Batch ID: R76453	RunNo: 76453
Prep Date:	Analysis Date: 4/5/2021	SeqNo: 2708714 Units: mg/L CaCO3
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Total Alkalinity (as CaCO3)	ND	20.00

Sample ID: lcs-1 alk	SampType: lcs	TestCode: SM2320B: Alkalinity
Client ID: LCSW	Batch ID: R76453	RunNo: 76453
Prep Date:	Analysis Date: 4/5/2021	SeqNo: 2708715 Units: mg/L CaCO3
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Total Alkalinity (as CaCO3)	72.28	20.00 80.00 0 90.4 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104008

12-Apr-21

Client: SIMCOE

Project: Gallegos Canyon Unit 170

Sample ID: 2104008-001ADUP		SampType: DUP		TestCode: Specific Gravity						
Client ID: MW-6		Batch ID: R76527		RunNo: 76527						
Prep Date:		Analysis Date: 4/7/2021		SeqNo: 2711236		Units:				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Specific Gravity	0.9997	0						0.572	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104008

12-Apr-21

Client: SIMCOE
Project: Gallegos Canyon Unit 170

Sample ID: MB-59238	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 59238	RunNo: 76510								
Prep Date: 4/6/2021	Analysis Date: 4/7/2021	SeqNo: 2710850 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: LCS-59238	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 59238	RunNo: 76510								
Prep Date: 4/6/2021	Analysis Date: 4/7/2021	SeqNo: 2710851 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Sample ID: 2104008-004ADUP	SampType: DUP	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: MW-8	Batch ID: 59238	RunNo: 76510								
Prep Date: 4/6/2021	Analysis Date: 4/7/2021	SeqNo: 2710894 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1940	100						2.29	10	*D

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **SIMCOE**Work Order Number: **2104008**

RcptNo: 1

Received By: **Juan Rojas**

4/1/2021 8:00:00 AM

*Juan Rojas*Completed By: **Sean Livingston**

4/1/2021 8:42:30 AM

Sean Livingston

Reviewed By:

SPA 4.1.21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: 8
(<2 or >12 unless noted)

Adjusted? NOChecked by: IO 4/1/21

IO

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good				



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

August 30, 2021

Steve Moskal
SIMCOE
1100 Main St.
Durango, CO 81301
TEL: (505) 330-9179
FAX

RE: GCU 170

OrderNo.: 2108943

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 8 sample(s) on 8/18/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2108943

Date Reported: 8/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW #2A

Project: GCU 170

Collection Date: 8/17/2021 12:45:00 PM

Lab ID: 2108943-001

Matrix: AQUEOUS

Received Date: 8/18/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.57	0.50		mg/L	5	8/18/2021 4:03:41 PM
Chloride	35	2.5		mg/L	5	8/18/2021 4:03:41 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	8/18/2021 4:03:41 PM
Bromide	ND	0.50		mg/L	5	8/18/2021 4:03:41 PM
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	8/18/2021 4:03:41 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	8/18/2021 4:03:41 PM
Sulfate	480	10	*	mg/L	20	8/18/2021 4:16:34 PM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	260	5.0		mg/L	5	8/24/2021 10:28:34 AM
Magnesium	30	1.0		mg/L	1	8/24/2021 10:24:22 AM
Potassium	2.6	1.0		mg/L	1	8/24/2021 10:24:22 AM
Sodium	85	5.0		mg/L	5	8/24/2021 10:28:34 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: CAS
Conductivity	1600	10		µmhos/c	1	8/19/2021 1:06:05 PM
SM4500-H+B / 9040C: PH						Analyst: CAS
pH	7.33		H	pH units	1	8/19/2021 1:06:05 PM
SM2320B: ALKALINITY						Analyst: CAS
Bicarbonate (As CaCO ₃)	407.2	20.00		mg/L Ca	1	8/19/2021 1:06:05 PM
Carbonate (As CaCO ₃)	ND	2.000		mg/L Ca	1	8/19/2021 1:06:05 PM
Total Alkalinity (as CaCO ₃)	407.2	20.00		mg/L Ca	1	8/19/2021 1:06:05 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: JMT
Total Dissolved Solids	870	200	*D	mg/L	1	8/25/2021 1:56:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 16

Analytical Report

Lab Order 2108943

Date Reported: 8/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW #3A

Project: GCU 170

Collection Date: 8/17/2021 1:00:00 PM

Lab ID: 2108943-002

Matrix: AQUEOUS

Received Date: 8/18/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.55	0.50		mg/L	5	8/18/2021 4:29:27 PM
Chloride	13	2.5		mg/L	5	8/18/2021 4:29:27 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	8/18/2021 4:29:27 PM
Bromide	ND	0.50		mg/L	5	8/18/2021 4:29:27 PM
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	8/18/2021 4:29:27 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	8/18/2021 4:29:27 PM
Sulfate	810	10	*	mg/L	20	8/18/2021 4:42:20 PM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	360	5.0		mg/L	5	8/24/2021 10:41:52 AM
Magnesium	30	1.0		mg/L	1	8/24/2021 10:37:41 AM
Potassium	3.7	1.0		mg/L	1	8/24/2021 10:37:41 AM
Sodium	70	5.0		mg/L	5	8/24/2021 10:41:52 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: CAS
Conductivity	1800	10		µmhos/c	1	8/19/2021 1:24:14 PM
SM4500-H+B / 9040C: PH						Analyst: CAS
pH	7.41		H	pH units	1	8/19/2021 1:24:14 PM
SM2320B: ALKALINITY						Analyst: CAS
Bicarbonate (As CaCO ₃)	272.6	20.00		mg/L Ca	1	8/19/2021 1:24:14 PM
Carbonate (As CaCO ₃)	ND	2.000		mg/L Ca	1	8/19/2021 1:24:14 PM
Total Alkalinity (as CaCO ₃)	272.6	20.00		mg/L Ca	1	8/19/2021 1:24:14 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: JMT
Total Dissolved Solids	1250	200	*D	mg/L	1	8/25/2021 1:56:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 16

Analytical Report

Lab Order 2108943

Date Reported: 8/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW #4A

Project: GCU 170

Collection Date: 8/17/2021 12:20:00 PM

Lab ID: 2108943-003

Matrix: AQUEOUS

Received Date: 8/18/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.69	0.50		mg/L	5	8/18/2021 4:55:13 PM
Chloride	48	2.5		mg/L	5	8/18/2021 4:55:13 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	8/18/2021 4:55:13 PM
Bromide	0.62	0.50		mg/L	5	8/18/2021 4:55:13 PM
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	8/18/2021 4:55:13 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	8/18/2021 4:55:13 PM
Sulfate	260	10	*	mg/L	20	8/18/2021 5:08:06 PM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	190	5.0		mg/L	5	8/24/2021 10:48:18 AM
Magnesium	23	1.0		mg/L	1	8/24/2021 10:46:53 AM
Potassium	2.3	1.0		mg/L	1	8/24/2021 10:46:53 AM
Sodium	110	5.0		mg/L	5	8/24/2021 10:48:18 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: CAS
Conductivity	1300	10		µmhos/c	1	8/19/2021 1:51:36 PM
SM4500-H+B / 9040C: PH						Analyst: CAS
pH	7.44		H	pH units	1	8/19/2021 1:51:36 PM
SM2320B: ALKALINITY						Analyst: CAS
Bicarbonate (As CaCO ₃)	413.0	20.00		mg/L Ca	1	8/19/2021 1:51:36 PM
Carbonate (As CaCO ₃)	ND	2.000		mg/L Ca	1	8/19/2021 1:51:36 PM
Total Alkalinity (as CaCO ₃)	413.0	20.00		mg/L Ca	1	8/19/2021 1:51:36 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: JMT
Total Dissolved Solids	780	200	*D	mg/L	1	8/25/2021 1:56:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 16

Analytical Report

Lab Order 2108943

Date Reported: 8/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW #5

Project: GCU 170

Collection Date: 8/17/2021 1:50:00 PM

Lab ID: 2108943-004

Matrix: AQUEOUS

Received Date: 8/18/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	ND	0.50		mg/L	5	8/18/2021 5:20:59 PM
Chloride	21	2.5		mg/L	5	8/18/2021 5:20:59 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	8/18/2021 5:20:59 PM
Bromide	ND	0.50		mg/L	5	8/18/2021 5:20:59 PM
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	8/18/2021 5:20:59 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	8/18/2021 5:20:59 PM
Sulfate	1000	25	*	mg/L	50	8/20/2021 2:46:06 AM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	400	5.0		mg/L	5	8/24/2021 10:56:23 AM
Magnesium	49	1.0		mg/L	1	8/24/2021 10:54:57 AM
Potassium	18	1.0		mg/L	1	8/24/2021 10:54:57 AM
Sodium	120	5.0		mg/L	5	8/24/2021 10:56:23 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: CAS
Conductivity	2300	10		µmhos/c	1	8/19/2021 2:09:43 PM
SM4500-H+B / 9040C: PH						Analyst: CAS
pH	7.41		H	pH units	1	8/19/2021 2:09:43 PM
SM2320B: ALKALINITY						Analyst: CAS
Bicarbonate (As CaCO ₃)	340.5	20.00		mg/L Ca	1	8/19/2021 2:09:43 PM
Carbonate (As CaCO ₃)	ND	2.000		mg/L Ca	1	8/19/2021 2:09:43 PM
Total Alkalinity (as CaCO ₃)	340.5	20.00		mg/L Ca	1	8/19/2021 2:09:43 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: JMT
Total Dissolved Solids	1780	200	*D	mg/L	1	8/25/2021 1:56:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 16

Analytical Report

Lab Order 2108943

Date Reported: 8/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW #6

Project: GCU 170

Collection Date: 8/17/2021 12:30:00 PM

Lab ID: 2108943-005

Matrix: AQUEOUS

Received Date: 8/18/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.59	0.50		mg/L	5	8/18/2021 6:12:31 PM
Chloride	4.0	2.5		mg/L	5	8/18/2021 6:12:31 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	8/18/2021 6:12:31 PM
Bromide	ND	0.50		mg/L	5	8/18/2021 6:12:31 PM
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	8/18/2021 6:12:31 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	8/18/2021 6:12:31 PM
Sulfate	72	2.5		mg/L	5	8/18/2021 6:12:31 PM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	190	5.0		mg/L	5	8/24/2021 10:59:28 AM
Magnesium	20	1.0		mg/L	1	8/24/2021 10:58:03 AM
Potassium	1.1	1.0		mg/L	1	8/24/2021 10:58:03 AM
Sodium	43	1.0		mg/L	1	8/24/2021 10:58:03 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: CAS
Conductivity	1000	10		µmhos/c	1	8/19/2021 2:25:20 PM
SM4500-H+B / 9040C: PH						Analyst: CAS
pH	7.32		H	pH units	1	8/19/2021 2:25:20 PM
SM2320B: ALKALINITY						Analyst: CAS
Bicarbonate (As CaCO ₃)	511.0	20.00		mg/L Ca	1	8/19/2021 2:25:20 PM
Carbonate (As CaCO ₃)	ND	2.000		mg/L Ca	1	8/19/2021 2:25:20 PM
Total Alkalinity (as CaCO ₃)	511.0	20.00		mg/L Ca	1	8/19/2021 2:25:20 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: JMT
Total Dissolved Solids	580	200	*D	mg/L	1	8/25/2021 1:56:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 16

Analytical Report

Lab Order 2108943

Date Reported: 8/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW #7

Project: GCU 170

Collection Date: 8/17/2021 1:20:00 PM

Lab ID: 2108943-006

Matrix: AQUEOUS

Received Date: 8/18/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.58	0.50		mg/L	5	8/18/2021 6:38:15 PM
Chloride	14	2.5		mg/L	5	8/18/2021 6:38:15 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	8/18/2021 6:38:15 PM
Bromide	ND	0.50		mg/L	5	8/18/2021 6:38:15 PM
Nitrogen, Nitrate (As N)	0.98	0.50		mg/L	5	8/18/2021 6:38:15 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	8/18/2021 6:38:15 PM
Sulfate	1000	25	*	mg/L	50	8/20/2021 2:58:26 AM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	380	5.0		mg/L	5	8/24/2021 11:02:32 AM
Magnesium	35	1.0		mg/L	1	8/24/2021 11:01:08 AM
Potassium	3.5	1.0		mg/L	1	8/24/2021 11:01:08 AM
Sodium	96	5.0		mg/L	5	8/24/2021 11:02:32 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: CAS
Conductivity	2000	10		µmhos/c	1	8/19/2021 2:46:21 PM
SM4500-H+B / 9040C: PH						Analyst: CAS
pH	7.46		H	pH units	1	8/19/2021 2:46:21 PM
SM2320B: ALKALINITY						Analyst: CAS
Bicarbonate (As CaCO ₃)	242.9	20.00		mg/L Ca	1	8/19/2021 2:46:21 PM
Carbonate (As CaCO ₃)	ND	2.000		mg/L Ca	1	8/19/2021 2:46:21 PM
Total Alkalinity (as CaCO ₃)	242.9	20.00		mg/L Ca	1	8/19/2021 2:46:21 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: JMT
Total Dissolved Solids	1440	200	*D	mg/L	1	8/25/2021 1:56:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 16

Analytical Report

Lab Order 2108943

Date Reported: 8/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW #8

Project: GCU 170

Collection Date: 8/17/2021 1:35:00 PM

Lab ID: 2108943-007

Matrix: AQUEOUS

Received Date: 8/18/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.56	0.50		mg/L	5	8/18/2021 7:04:01 PM
Chloride	12	2.5		mg/L	5	8/18/2021 7:04:01 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	8/18/2021 7:04:01 PM
Bromide	ND	0.50		mg/L	5	8/18/2021 7:04:01 PM
Nitrogen, Nitrate (As N)	0.72	0.50		mg/L	5	8/18/2021 7:04:01 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	8/18/2021 7:04:01 PM
Sulfate	980	25	*	mg/L	50	8/20/2021 3:10:47 AM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	370	5.0		mg/L	5	8/24/2021 11:05:23 AM
Magnesium	31	1.0		mg/L	1	8/24/2021 11:03:57 AM
Potassium	4.3	1.0		mg/L	1	8/24/2021 11:03:57 AM
Sodium	120	5.0		mg/L	5	8/24/2021 11:05:23 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: CAS
Conductivity	2000	10		µmhos/c	1	8/19/2021 2:58:47 PM
SM4500-H+B / 9040C: PH						Analyst: CAS
pH	7.52		H	pH units	1	8/19/2021 2:58:47 PM
SM2320B: ALKALINITY						Analyst: CAS
Bicarbonate (As CaCO ₃)	224.0	20.00		mg/L Ca	1	8/19/2021 2:58:47 PM
Carbonate (As CaCO ₃)	ND	2.000		mg/L Ca	1	8/19/2021 2:58:47 PM
Total Alkalinity (as CaCO ₃)	224.0	20.00		mg/L Ca	1	8/19/2021 2:58:47 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: JMT
Total Dissolved Solids	1600	100	*D	mg/L	1	8/25/2021 1:56:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 16

Analytical Report

Lab Order 2108943

Date Reported: 8/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW #9

Project: GCU 170

Collection Date: 8/17/2021 12:05:00 PM

Lab ID: 2108943-008

Matrix: AQUEOUS

Received Date: 8/18/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.58	0.50		mg/L	5	8/18/2021 7:29:47 PM
Chloride	19	2.5		mg/L	5	8/18/2021 7:29:47 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	8/18/2021 7:29:47 PM
Bromide	ND	0.50		mg/L	5	8/18/2021 7:29:47 PM
Nitrogen, Nitrate (As N)	0.52	0.50		mg/L	5	8/18/2021 7:29:47 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	8/18/2021 7:29:47 PM
Sulfate	240	2.5		mg/L	5	8/18/2021 7:29:47 PM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	160	5.0		mg/L	5	8/24/2021 11:08:13 AM
Magnesium	18	1.0		mg/L	1	8/24/2021 11:06:48 AM
Potassium	2.2	1.0		mg/L	1	8/24/2021 11:06:48 AM
Sodium	65	1.0		mg/L	1	8/24/2021 11:06:48 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: CAS
Conductivity	1100	10		µmhos/c	1	8/19/2021 3:10:29 PM
SM4500-H+B / 9040C: PH						Analyst: CAS
pH	7.60		H	pH units	1	8/19/2021 3:10:29 PM
SM2320B: ALKALINITY						Analyst: CAS
Bicarbonate (As CaCO ₃)	339.1	20.00		mg/L Ca	1	8/19/2021 3:10:29 PM
Carbonate (As CaCO ₃)	ND	2.000		mg/L Ca	1	8/19/2021 3:10:29 PM
Total Alkalinity (as CaCO ₃)	339.1	20.00		mg/L Ca	1	8/19/2021 3:10:29 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: JMT
Total Dissolved Solids	635	100	*D	mg/L	1	8/25/2021 1:56:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 16

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2108943

30-Aug-21

Client: SIMCOE

Project: GCU 170

Sample ID: LLLCS-62130	SampType: LCSLL	TestCode: EPA Method 200.7: Metals								
Client ID: BatchQC	Batch ID: 62130	RunNo: 80750								
Prep Date: 8/23/2021	Analysis Date: 8/24/2021	SeqNo: 2848847 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	97.9	50	150			
Magnesium	ND	1.0	0.5000	0	99.2	50	150			
Potassium	ND	1.0	0.5000	0	96.8	50	150			
Sodium	ND	1.0	0.5000	0	109	50	150			

Sample ID: LCS-62130	SampType: LCS	TestCode: EPA Method 200.7: Metals								
Client ID: LCSW	Batch ID: 62130	RunNo: 80750								
Prep Date: 8/23/2021	Analysis Date: 8/24/2021	SeqNo: 2848849 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	47	1.0	50.00	0	94.8	85	115			
Magnesium	49	1.0	50.00	0	97.6	85	115			
Potassium	48	1.0	50.00	0	96.9	85	115			
Sodium	49	1.0	50.00	0	97.3	85	115			

Sample ID: 2108943-001BMS	SampType: MS	TestCode: EPA Method 200.7: Metals								
Client ID: MW #2A	Batch ID: 62130	RunNo: 80750								
Prep Date: 8/23/2021	Analysis Date: 8/24/2021	SeqNo: 2848901 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	80	1.0	50.00	30.01	99.9	70	130			
Potassium	53	1.0	50.00	2.578	101	70	130			

Sample ID: 2108943-001BMSD	SampType: MSD	TestCode: EPA Method 200.7: Metals								
Client ID: MW #2A	Batch ID: 62130	RunNo: 80750								
Prep Date: 8/23/2021	Analysis Date: 8/24/2021	SeqNo: 2848902 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	82	1.0	50.00	30.01	104	70	130	2.32	20	
Potassium	53	1.0	50.00	2.578	102	70	130	0.552	20	

Sample ID: 2108943-001BMS	SampType: MS	TestCode: EPA Method 200.7: Metals								
Client ID: MW #2A	Batch ID: 62130	RunNo: 80750								
Prep Date: 8/23/2021	Analysis Date: 8/24/2021	SeqNo: 2848907 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	140	5.0	50.00	84.96	106	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2108943

30-Aug-21

Client: SIMCOE

Project: GCU 170

Sample ID: 2108943-001BMSD	SampType: MSD	TestCode: EPA Method 200.7: Metals								
Client ID: MW #2A	Batch ID: 62130	RunNo: 80750								
Prep Date: 8/23/2021	Analysis Date: 8/24/2021	SeqNo: 2848908 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	130	5.0	50.00	84.96	96.2	70	130	3.54	20	

Sample ID: 2108943-002BMS	SampType: MS	TestCode: EPA Method 200.7: Metals								
Client ID: MW #3A	Batch ID: 62130	RunNo: 80750								
Prep Date: 8/23/2021	Analysis Date: 8/24/2021	SeqNo: 2848910 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	84	1.0	50.00	30.17	108	70	130			
Potassium	57	1.0	50.00	3.710	107	70	130			

Sample ID: 2108943-002BMSD	SampType: MSD	TestCode: EPA Method 200.7: Metals								
Client ID: MW #3A	Batch ID: 62130	RunNo: 80750								
Prep Date: 8/23/2021	Analysis Date: 8/24/2021	SeqNo: 2848911 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	83	1.0	50.00	30.17	106	70	130	1.25	20	
Potassium	56	1.0	50.00	3.710	105	70	130	1.92	20	

Sample ID: 2108943-002BMS	SampType: MS	TestCode: EPA Method 200.7: Metals								
Client ID: MW #3A	Batch ID: 62130	RunNo: 80750								
Prep Date: 8/23/2021	Analysis Date: 8/24/2021	SeqNo: 2848913 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	120	5.0	50.00	69.85	97.5	70	130			

Sample ID: 2108943-002BMSD	SampType: MSD	TestCode: EPA Method 200.7: Metals								
Client ID: MW #3A	Batch ID: 62130	RunNo: 80750								
Prep Date: 8/23/2021	Analysis Date: 8/24/2021	SeqNo: 2848914 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	120	5.0	50.00	69.85	104	70	130	2.75	20	

Sample ID: MB-62130	SampType: MBLK	TestCode: EPA Method 200.7: Metals								
Client ID: PBW	Batch ID: 62130	RunNo: 80750								
Prep Date: 8/23/2021	Analysis Date: 8/24/2021	SeqNo: 2848932 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 10 of 16

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108943

30-Aug-21

Client: SIMCOE
Project: GCU 170

Sample ID: MB-62130		SampType: MBLK		TestCode: EPA Method 200.7: Metals						
Client ID: PBW		Batch ID: 62130		RunNo: 80750						
Prep Date: 8/23/2021		Analysis Date: 8/24/2021		SeqNo: 2848932		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	1.0								

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2108943

30-Aug-21

Client: SIMCOE**Project:** GCU 170

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R80634	RunNo: 80634								
Prep Date:	Analysis Date: 8/18/2021	SeqNo: 2844511 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R80634	RunNo: 80634								
Prep Date:	Analysis Date: 8/18/2021	SeqNo: 2844512 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	101	90	110			
Chloride	4.8	0.50	5.000	0	96.7	90	110			
Nitrogen, Nitrite (As N)	0.98	0.10	1.000	0	97.7	90	110			
Bromide	2.5	0.10	2.500	0	99.8	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	102	90	110			
Phosphorus, Orthophosphate (As P)	4.6	0.50	5.000	0	91.1	90	110			
Sulfate	9.9	0.50	10.00	0	99.3	90	110			

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: A80673	RunNo: 80673								
Prep Date:	Analysis Date: 8/20/2021	SeqNo: 2845972 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: A80673	RunNo: 80673								
Prep Date:	Analysis Date: 8/20/2021	SeqNo: 2845973 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.7	0.50	10.00	0	96.7	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108943

30-Aug-21

Client: SIMCOE
Project: GCU 170

Sample ID: Ics-1 98.7uS eC		SampType: Ics		TestCode: SM2510B: Specific Conductance						
Client ID: LCSW		Batch ID: R80675		RunNo: 80675						
Prep Date:		Analysis Date: 8/19/2021		SeqNo: 2846075		Units: µmhos/cm				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	98.70	0	101	85	115			

Sample ID: 2108943-002A dup		SampType: dup		TestCode: SM2510B: Specific Conductance						
Client ID: MW #3A		Batch ID: R80675		RunNo: 80675						
Prep Date:		Analysis Date: 8/19/2021		SeqNo: 2846079		Units: µmhos/cm				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	1800	10						0.268	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108943

30-Aug-21

Client: SIMCOE

Project: GCU 170

Sample ID: 2108943-002A dup		SampType: dup		TestCode: SM4500-H+B / 9040C: pH						
Client ID: MW #3A		Batch ID: R80675		RunNo: 80675						
Prep Date:		Analysis Date: 8/19/2021		SeqNo: 2846092		Units: pH units				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.45									H

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2108943

30-Aug-21

Client: SIMCOE

Project: GCU 170

Sample ID: mb-1 alk	SampType: mblk	TestCode: SM2320B: Alkalinity								
Client ID: PBW	Batch ID: R80675	RunNo: 80675								
Prep Date:	Analysis Date: 8/19/2021	SeqNo: 2846009 Units: mg/L CaCO3								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: lcs-1 alk	SampType: lcs	TestCode: SM2320B: Alkalinity								
Client ID: LCSW	Batch ID: R80675	RunNo: 80675								
Prep Date:	Analysis Date: 8/19/2021	SeqNo: 2846011 Units: mg/L CaCO3								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	79.68	20.00	80.00	0	99.6	90	110			

Sample ID: 2108943-002A dup	SampType: dup	TestCode: SM2320B: Alkalinity								
Client ID: MW #3A	Batch ID: R80675	RunNo: 80675								
Prep Date:	Analysis Date: 8/19/2021	SeqNo: 2846020 Units: mg/L CaCO3								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	273.5	20.00						0.352	20	

Sample ID: mb-2 alk	SampType: mblk	TestCode: SM2320B: Alkalinity								
Client ID: PBW	Batch ID: R80675	RunNo: 80675								
Prep Date:	Analysis Date: 8/19/2021	SeqNo: 2846049 Units: mg/L CaCO3								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: lcs-2 alk	SampType: lcs	TestCode: SM2320B: Alkalinity								
Client ID: LCSW	Batch ID: R80675	RunNo: 80675								
Prep Date:	Analysis Date: 8/19/2021	SeqNo: 2846051 Units: mg/L CaCO3								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	79.64	20.00	80.00	0	99.6	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108943

30-Aug-21

Client: SIMCOE
Project: GCU 170

Sample ID: MB-62151	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 62151	RunNo: 80788								
Prep Date: 8/24/2021	Analysis Date: 8/25/2021	SeqNo: 2850559	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: LCS-62151	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 62151	RunNo: 80788								
Prep Date: 8/24/2021	Analysis Date: 8/25/2021	SeqNo: 2850560	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1040	20.0	1000	0	104	80	120			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

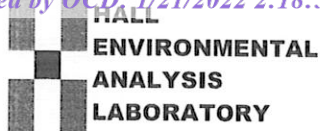
Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: SIMCOE

Work Order Number: 2108943

RcptNo: 1

Received By: Cheyenne Cason 8/18/2021 7:00:00 AM

Completed By: Sean Livingston 8/18/2021 10:17:05 AM

Reviewed By: HPG 8/18/21

Handwritten signatures:
Cason
S. Livingston

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☒ No ☐ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ HNO₃ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH: 8
(<2 or >12 unless noted)

Adjusted? yesChecked by: jr 8/18/21Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

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

16. Additional remarks:

Poured off ~200mL from 001-008A for metals analysis and added ~0.5mL HNO₃ to samples 001-0008B, checked for preferred pH <2 - jr 8/18/21

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good				
2	4.8	Good				

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 74374

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID:
	329736
	Action Number:
	74374
Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)	

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the GCU#170 Groundwater Remediation Report: Content Satisfactory 1. Continue to conduct groundwater monitoring until eight (8) consecutive quarterly samples, or different number of samples approved by NMOCD, are below NMWQCC standards. 2. Continue to submit annual remediation reports by April 1, 2024	1/17/2024