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505.286.6026
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April 25, 2024

State of Colorado
Division of Reclamation, Mining & Safety
1313 Sherman St., Room 215
Denver, CO 80203

Attn: Clayton Wein, Environmental Protection Specialist

Re: GCC Energy, LLC, King II Mine
CDRMS Permit # C-1981-035
Water Monitoring Analysis; King I & King II
1st Quarter 2024

Mr. Wein:

Please find enclosed a copy of quarterly water analysis reports for the 1st quarter of 2024 for the following water monitoring locations:

Wiltse Well
#1 Up-gradient Monitoring Well & Blind Duplicate MW-98
#2 Down-gradient Monitoring Well
Hay Gulch Irrigation Ditch, Down-gradient & Resample
Hay Gulch Irrigation Ditch, Up-gradient
MW-1-A
MW-3-MI, MW-3-A, MW-3-C
MW-4-MI & Blind Duplicate MW-99, MW-4-A, MW-4-C
MW-5-MI
MW-HGA-4
MW-6-LM
MW-7-EAA
MW-8-EAA, MW-8-MI, MW-8-LM, MW-8-PL
Seep 1
Seep 3

Also enclosed are summary sheets for the above water monitoring locations which include field collection data.

Please contact me at 505.238.8272 or svance@gcc.com if you have any questions or require any additional information.

Sincerely,

A handwritten signature in blue ink that reads "Sarah Vance".

Sarah Vance
Environmental Manager
GCC Energy, LLC

GCC Energy Hydrologic Monitoring Data

MW-1-MI																														
Year	2018									2019				2020				2021				2022				2023				2024
Quarter	Q1			Q2		Q3			Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Month	1	2	3	4	5	6	7	8	11	2	5	8	11	2	5	9	11	2	5	8	11	3	6	9	12	3	6	8	11	3
Sample Date	1/2	2/9	3/22	4/11	5/10	--	7/23	8/7	11/1	2/20	5/30	8/14	11/5	2/12	5/28	9/1	11/16	2/15	5/20	8/23	11/17	3/17	6/14	9/12	12/4	3/18	6/14	8/16	11/14	3/17
Lab Analysis (Y/N)	N	N	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Field Parameters:																														
Purge Flow Rate	gpm	dry	dry	dry	dry	***	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
Total Purged	gal																													

Notes & Definitions:

- Historical data prior to 2018 can be found in earlier posted versions of this table

*** La Plata County stage 3 fire restrictions prevented sampling activity
- Y/Nyes or no

gpmgallons per minute

deg Cdegrees Celsius

SUstandard pH units

µS/cmmicrosiemens per centimeter

mVmillivolts

mg/Lmilligram per liter

pCi/Lpicocuries per liter

NMnot measured (field)

NAnot analyzed (lab)

ng/Lnanogram per liter
1. "≤" values denote that the quantification of that analyte is below the reporting level for the analytical laboratory, acceptable by environmental water quality laboratory industry standards.

2. Total alkalinity is measured by titration with hydrochloric acid to a set pH point, reporting this value as an equivalent amount of calcium carbonate. This value is then partitioned into bicarbonate, carbonate and hydroxide depending on the initial pH of the sample solution, each components reported as equivalent CaCO3.

3. Industry standard Quality Assurance/Quality Control (QA/QC) protocol are followed for this hydrologic monitoring program by both GCC Energy and the contracted environmental water quality analytical laboratories. QA/QC results are not shown in this table.

GCC Energy Hydrologic Monitoring Data

MW-2-A																												
Year	2018							2019				2020				2021				2022				2023				2024
Quarter	Q1			Q2		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Month	1	2	3	4	5	8	11	2	5	8	11	2	5	9	11	2	5	8	11	3	6	9	12	3	6	8	11	3
Sample Date	1/2	2/9	3/22	4/11	5/10	8/7	11/1	2/20	5/29	8/14	11/6	2/11	5/27	9/1	11/24	2/15	5/20	8/24	11/17	3/23	6/14	9/8	12/4	3/31	6/14	8/18	11/13	3/17
Lab Analysis (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Field Parameters:																												
Purge Flow Rate	gpm	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
Total Purged	gal																											
Depth to Water	ft bgs																											
Temperature	deg C																											
pH	SU																											
Specific Conductance	µS/cm																											
Oxygen Reduction Potential	mV																											
Lab Analytical Results:																												

Notes & Definitions:		
	Historical data prior to 2018 can be found in earlier posted versions of this table	
Y/N	yes or no	1. "<" values denote that the quantification of that analyte is below the reporting level for the analytical laboratory, acceptable by environmental water quality laboratory industry standards.
gpm	gallons per minute	
deg C	degrees Celsius	
SU	standard pH units	2. Total alkalinity is measured by titration with hydrochloric acid to a set pH point, reporting this value as an equivalent amount of calcium carbonate. This value is then partitioned into bicarbonate, carbonate and hydroxide depending on the initial pH of the sample solution, each components reported as equivalent CaCO3.
µS/cm	microsiemens per centimeter	
mV	millivolts	
mg/L	milligram per liter	
pCi/L	picocuries per liter	
NM	not measured (field)	3. Industry standard Quality Assurance/Quality Control (QA/QC) protocol are followed for this hydrologic monitoring program by both GCC Energy and the contracted environmental water quality analytical laboratories. QA/QC results are not shown in this table.
NA	not analyzed (lab)	
ng/L	nanogram per liter	

GCC Energy Hydrologic Monitoring Data

MW-2-MI																												
Year	2018							2019				2020				2021				2022				2023				2024
Quarter	Q1			Q2		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Month	1	2	3	4	5	8	11	2	5	8	11	2	5	9	11	2	5	8	11	3	6	9	12	3	6	8	11	3
Sample Date	1/2	2/9	3/22	4/11	5/10	8/7	11/1	2/20	5/29	8/14	11/6	2/11	5/27	9/1	11/24	2/15	5/20	8/24	11/17	3/23	6/14	9/8	12/4	3/31	6/14	8/18	11/13	3/17
Lab Analysis (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Field Parameters:																												
Purge Flow Rate	gpm	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
Total Purged	gal																											
Depth to Water	ft bgs																											
Temperature	deg C																											
pH	SU																											
Specific Conductance	µS/cm																											
Oxygen Reduction Potential	mV																											
Lab Analytical Results:																												
Hardness as CaCO3	mg/L																											

Notes & Definitions:

- Y/N

yes or no
- gpm

gallons per minute
- deg C

degrees Celsius
- SU

standard pH units
- µS/cm

microsiemens per centimeter
- mV

millivolts
- mg/L

milligram per liter
- pCi/L

picocuries per liter
- NM

not measured (field)
- NA

not analyzed (lab)
- ng/L

nanogram per liter
1.

"<" values denote that the quantification of that analyte is below the reporting level for the analytical laboratory, acceptable by environmental water quality laboratory industry standards.
2.

Total alkalinity is measured by titration with hydrochloric acid to a set pH point, reporting this value as an equivalent amount of calcium carbonate. This value is then partitioned into bicarbonate, carbonate and hydroxide depending on the initial pH of the sample solution, each components reported as equivalent CaCO3.
3.

Industry standard Quality Assurance/Quality Control (QA/QC) protocol are followed for this hydrologic monitoring program by both GCC Energy and the contracted environmental water quality analytical laboratories. QA/QC results are not shown in this table.

GCC Energy Hydrologic Monitoring Data

MW-2-C																												
Year	2018							2019				2020				2021				2022				2023				2024
Quarter	Q1			Q2		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Month	1	2	3	4	5	8	11	2	5	8	11	2	5	9	11	2	5	8	11	3	6	9	12	3	6	8	11	3
Sample Date	1/2	2/9	3/22	4/11	5/10	8/7	11/1	2/20	5/29	8/14	11/6	2/11	5/27	9/1	11/24	2/15	5/20	8/24	11/17	3/23	6/14	9/8	12/4	3/31	6/14	8/18	11/13	3/17
Lab Analysis (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Field Parameters:																												
Purge Flow Rate	gpm	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
Total Purged	gal																											
Depth to Water	ft bgs																											
Temperature	deg C																											
pH	SU																											
Specific Conductance	µS/cm																											
Oxygen Reduction Potential	mV																											
Lab Analytical Results:																												
Hardness as CaCO3	mg/L																											

Notes & Definitions:

- Y/N

yes or no
- gpm

gallons per minute
- deg C

degrees Celsius
- SU

standard pH units
- µS/cm

microsiemens per centimeter
- mV

millivolts
- mg/L

milligram per liter
- pCi/L

picocuries per liter
- NM

not measured (field)
- NA

not analyzed (lab)
- ng/L

nanogram per liter
1.

"<" values denote that the quantification of that analyte is below the reporting level for the analytical laboratory, acceptable by environmental water quality laboratory industry standards.
2.

Total alkalinity is measured by titration with hydrochloric acid to a set pH point, reporting this value as an equivalent amount of calcium carbonate. This value is then partitioned into bicarbonate, carbonate and hydroxide depending on the initial pH of the sample solution, each components reported as equivalent CaCO3.
3.

Industry standard Quality Assurance/Quality Control (QA/QC) protocol are followed for this hydrologic monitoring program by both GCC Energy and the contracted environmental water quality analytical laboratories. QA/QC results are not shown in this table.

GCC Energy Hydrologic Monitoring Data

MW-6-MI																														
Year		2018	2019										2020				2021				2022				2023				2024	
Quarter		Q4	Q1			Q2			Q3			Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	
Month		12	1	2	3	4	5	5	6	7	8	9	11	2	5	8	11	2	5	8	11	2	5	8	11	3	5	8	11	2
Sample Date		12/29	1/31	2/25	3/21	4/19	5/20	5/30	6/19	7/23	8/15	9/24	11/7	2/5	5/14	8/11	11/24	2/9	5/17	8/9	11/9	2/15	5/10	8/1	11/25	3/13	5/31	8/8	11/16	2/5
Lab Analysis (Y/N)		Y	N	Y	N	N	N [#]	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Field Parameters:																														
Purge Flow Rate	gpm	NM	NM	NM	0.5	0.1	0.015	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	
Total Purged	gal	11.3	0.5	1.5	0.5	1.0																								

Notes & Definitions:

- # No sample collected, due to low yield, insufficient volume for lab sample after field parameters we measured

Y/N yes or no

gpm gallons per minute

deg C degrees Celsius

SU standard pH units

µS/cm microsiemens per centimeter

mV millivolts

mg/L milligram per liter

pCi/L picocuries per liter

NM not measured (field)

NA not analyzed (lab)

ng/L nanogram per liter
1. "<" values denote that the quantification of that analyte is below the reporting level for the analytical laboratory, acceptable by environmental water quality laboratory industry standards.

2. Total alkalinity is measured by titration with hydrochloric acid to a set pH point, reporting this value as an equivalent amount of calcium carbonate. This value is then partitioned into bicarbonate, carbonate and hydroxide depending on the initial pH of the sample solution, each components reported as equivalent CaCO3.

3. Industry standard Quality Assurance/Quality Control (QA/QC) protocol are followed for this hydrologic monitoring program by both GCC Energy and the contracted environmental water quality analytical laboratories. QA/QC results are not shown in this table.

GCC Energy Hydrologic Monitoring Data

MW-6-C																												
Year	2018	2019										2020				2021				2022				2023				2024
Quarter	Q4	Q1			Q2			Q3			Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Month	12	1	2	3	4	5	6	7	8	9	11	2	5	8	11	2	5	8	11	2	5	8	11	3	5	8	11	2
Sample Date	12/24	1/30	2/21	3/21	4/23	5/20	6/19	7/23	8/15	9/24	11/7	2/5	5/12	8/11	11/24	2/9	5/17	8/9	11/9	2/15	5/10	8/1	11/25					

GCC Energy Hydrologic Monitoring Data

MW-6-LM																													
Year	2018	2019										2020				2021				2022				2023				2024	
Quarter	Q4	Q1			Q2			Q3			Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Month	12	1	2	3	4	5	6	7	8	9	10	11	2	5	8	11	2	5	8	11	2	5	8	11	3	5	8	11	2
Sample Date	12/30	1/31	2/25	3/21	4/23	5/20	6/19	7/23	8/15	9/24	10/28	11/7	2/5	5/14	8/11	11/25	2/9	5/17	8/9	1									



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
jeremy.allen@greenanalytical.com

26 February 2024

Michael Dickson
GCC Energy, LLC
6473 CR 120
Hesperus, CO 81326
RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 02/12/24 15:32. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells
Project Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-23-16

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/26/24 09:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-4-C	2402097-01	Water	02/12/24 13:47	02/12/24 15:32	
MW-6-LM	2402097-02	Water	02/12/24 13:56	02/12/24 15:32	
MW-4-MI	2402097-03	Water	02/12/24 12:50	02/12/24 15:32	
MW-4-A	2402097-04	Water	02/12/24 13:24	02/12/24 15:32	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/26/24 09:49

MW-4-C

2402097-01 (Ground Water)

Sampled Date: 02/12/24 13:47

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Total as CaCO ₃ *	2350	10.0	8.00	mg/L	10	02/16/24 11:00	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	10	02/16/24 11:00	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	20.0	10.0	8.00	mg/L	10	02/16/24 11:00	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	2330	10.0	8.00	mg/L	10	02/16/24 11:00	2320 B		IDB
Cation/Anion Balance	-0.800	-100	-100	%	1	02/22/24 08:35	Calculation		JDA
Chloride*	575	10.0	0.555	mg/L	10	02/16/24 19:30	EPA300.0		AWG
Fluoride*	1.75	1.00	0.0971	mg/L	10	02/16/24 19:30	EPA300.0		AWG
Nitrate/Nitrite as N*	0.252	0.020	0.013	mg/L as N	1	02/16/24 16:22	EPA353.2		CAI
pH*	7.65			pH Units	1	02/13/24 13:18	EPA150.1		IDB
pH Temperature, degrees C	22.1			pH Units	1	02/13/24 13:18	EPA150.1		IDB
Sulfate*	11.1	10.0	1.24	mg/L	10	02/16/24 19:30	EPA300.0		AWG
Total Dissolved Solids*	3420	10.0		mg/L	1	02/14/24 13:25	EPA160.1		IDB
Total Organic Carbon*	6.25	0.500	0.290	mg/L	1	02/14/24 18:35	5310C		IDB

Dissolved Metals by ICP

Aluminum*	<0.300	0.300	0.133	mg/L	6	02/21/24 17:57	EPA200.7		AES
Calcium*	5.54	0.600	0.108	mg/L	6	02/21/24 17:57	EPA200.7		AES
Hardness as CaCO ₃	23.5	3.97	1.02	mg/L	6	02/21/24 17:57	2340 B		AES
Iron*	<0.300	0.300	0.119	mg/L	6	02/21/24 17:57	EPA200.7		AES
Magnesium*	2.36	0.600	0.182	mg/L	6	02/21/24 17:57	EPA200.7		AES
Potassium*	<6.00	6.00	0.449	mg/L	6	02/21/24 17:57	EPA200.7		AES
Silica (SiO ₂)	9.06	6.42	0.598	mg/L	6	02/21/24 17:57	Calculation		AES
Silicon	4.24	3.00	0.280	mg/L	6	02/21/24 17:57	EPA200.7		AES
Sodium*	1410	6.00	1.38	mg/L	6	02/21/24 17:57	EPA200.7		AES

Dissolved Metals by ICPMS

Arsenic*	0.0181	0.0100	0.0062	mg/L	10	02/14/24 17:16	EPA200.8		AES
Cadmium*	<0.0050	0.0050	0.0006	mg/L	10	02/14/24 17:16	EPA200.8		AES
Copper*	0.0487	0.0100	0.0008	mg/L	10	02/21/24 11:38	EPA200.8		AES
Lead*	<0.0050	0.0050	0.0012	mg/L	10	02/20/24 14:20	EPA200.8		AES
Manganese*	0.0067	0.0050	0.0018	mg/L	10	02/14/24 17:16	EPA200.8		AES
Molybdenum*	<0.0050	0.0050	0.0005	mg/L	10	02/14/24 17:16	EPA200.8		AES
Selenium*	0.0271	0.0100	0.0027	mg/L	10	02/14/24 17:16	EPA200.8		AES

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/26/24 09:49

MW-4-C

2402097-01 (Ground Water)

Sampled Date: 02/12/24 13:47

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	<0.0050	0.0050	0.0004	mg/L	10	02/20/24 14:20	EPA200.8		AES
Zinc*	<0.0200	0.0200	0.0060	mg/L	10	02/14/24 17:16	EPA200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/21/24 11:13	EPA245.7	M5	CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/26/24 09:49

MW-6-LM

2402097-02 (Ground Water)

Sampled Date: 02/12/24 13:56

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Total as CaCO ₃ *	355	10.0	8.00	mg/L	5	02/16/24 11:00	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/16/24 11:00	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/16/24 11:00	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	355	10.0	8.00	mg/L	5	02/16/24 11:00	2320 B		IDB
Cation/Anion Balance	2.70	-100	-100	%	1	02/22/24 08:35	Calculation		JDA
Chloride*	6.04	5.00	0.278	mg/L	5	02/16/24 19:50	EPA300.0		AWG
Fluoride*	<0.500	0.500	0.0486	mg/L	5	02/16/24 19:50	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/16/24 16:24	EPA353.2		CAI
pH*	7.48			pH Units	1	02/13/24 13:18	EPA150.1		IDB
pH Temperature, degrees C	22.2			pH Units	1	02/13/24 13:18	EPA150.1		IDB
Sulfate*	451	5.00	0.620	mg/L	5	02/16/24 19:50	EPA300.0		AWG
Total Dissolved Solids*	940	10.0		mg/L	1	02/14/24 13:25	EPA160.1		IDB
Total Organic Carbon*	1.70	1.00	0.580	mg/L	2	02/15/24 12:48	5310C		IDB

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	02/21/24 18:01	EPA200.7		AES
Calcium*	86.9	0.200	0.036	mg/L	2	02/21/24 18:01	EPA200.7		AES
Hardness as CaCO ₃	535	1.32	0.339	mg/L	2	02/21/24 18:01	2340 B		AES
Iron*	<0.100	0.100	0.040	mg/L	2	02/21/24 18:01	EPA200.7		AES
Magnesium*	77.2	0.200	0.061	mg/L	2	02/21/24 18:01	EPA200.7		AES
Potassium*	3.47	2.00	0.150	mg/L	2	02/21/24 18:01	EPA200.7		AES
Silica (SiO ₂)	16.4	2.14	0.199	mg/L	2	02/21/24 18:01	Calculation		AES
Silicon	7.68	1.00	0.093	mg/L	2	02/21/24 18:01	EPA200.7		AES
Sodium*	131	2.00	0.460	mg/L	2	02/21/24 18:01	EPA200.7		AES

Dissolved Metals by ICPMS

Arsenic*	0.0052	0.0020	0.0012	mg/L	2	02/14/24 17:19	EPA200.8		AES
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	02/14/24 17:19	EPA200.8		AES
Copper*	0.0060	0.0050	0.0004	mg/L	5	02/21/24 11:40	EPA200.8		AES
Lead*	<0.0025	0.0025	0.0006	mg/L	5	02/20/24 14:25	EPA200.8		AES
Manganese*	0.215	0.0010	0.0004	mg/L	2	02/14/24 17:19	EPA200.8		AES
Molybdenum*	<0.0010	0.0010	0.0001	mg/L	2	02/14/24 17:19	EPA200.8		AES
Selenium*	<0.0020	0.0020	0.0005	mg/L	2	02/14/24 17:19	EPA200.8		AES

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/26/24 09:49

MW-6-LM

2402097-02 (Ground Water)

Sampled Date: 02/12/24 13:56

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	<0.0025	0.0025	0.0002	mg/L	5	02/20/24 14:25	EPA200.8		AES
Zinc*	<0.0040	0.0040	0.0012	mg/L	2	02/14/24 17:19	EPA200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/21/24 11:21	EPA245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/26/24 09:49

MW-4-MI

2402097-03 (Ground Water)

Sampled Date: 02/12/24 12:50

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Total as CaCO ₃ *	975	10.0	8.00	mg/L	5	02/16/24 11:00	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/16/24 11:00	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/16/24 11:00	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	975	10.0	8.00	mg/L	5	02/16/24 11:00	2320 B		IDB
Cation/Anion Balance	-0.780	-100	-100	%	1	02/22/24 08:35	Calculation		JDA
Chloride*	<5.00	5.00	0.278	mg/L	5	02/16/24 20:10	EPA300.0		AWG
Fluoride*	5.08	0.500	0.0486	mg/L	5	02/16/24 20:10	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/16/24 16:25	EPA353.2		CAI
pH*	7.39			pH Units	1	02/13/24 13:18	EPA150.1		IDB
pH Temperature, degrees C	22.1			pH Units	1	02/13/24 13:18	EPA150.1		IDB
Sulfate*	8.52	5.00	0.620	mg/L	5	02/16/24 20:10	EPA300.0		AWG
Total Dissolved Solids*	1000	10.0		mg/L	1	02/14/24 13:25	EPA160.1		IDB
Total Organic Carbon*	4.07	0.500	0.290	mg/L	1	02/14/24 19:18	5310C		IDB

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	02/21/24 18:09	EPA200.7		AES
Calcium*	0.989	0.200	0.036	mg/L	2	02/21/24 18:09	EPA200.7		AES
Hardness as CaCO ₃	3.70	1.32	0.339	mg/L	2	02/21/24 18:09	2340 B		AES
Iron*	<0.100	0.100	0.040	mg/L	2	02/21/24 18:09	EPA200.7		AES
Magnesium*	0.299	0.200	0.061	mg/L	2	02/21/24 18:09	EPA200.7		AES
Potassium*	<2.00	2.00	0.150	mg/L	2	02/21/24 18:09	EPA200.7		AES
Silica (SiO ₂)	8.09	2.14	0.199	mg/L	2	02/21/24 18:09	Calculation		AES
Silicon	3.78	1.00	0.093	mg/L	2	02/21/24 18:09	EPA200.7		AES
Sodium*	439	2.00	0.460	mg/L	2	02/21/24 18:08	EPA200.7		AES

Dissolved Metals by ICPMS

Arsenic*	0.0079	0.0020	0.0012	mg/L	2	02/14/24 17:24	EPA200.8		AES
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	02/14/24 17:24	EPA200.8		AES
Copper*	0.0159	0.0050	0.0004	mg/L	5	02/21/24 11:42	EPA200.8		AES
Lead*	<0.0010	0.0010	0.0002	mg/L	2	02/14/24 17:24	EPA200.8		AES
Manganese*	0.0080	0.0010	0.0004	mg/L	2	02/14/24 17:24	EPA200.8		AES
Molybdenum*	0.0048	0.0010	0.0001	mg/L	2	02/14/24 17:24	EPA200.8		AES
Selenium*	<0.0020	0.0020	0.0005	mg/L	2	02/14/24 17:24	EPA200.8		AES

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/26/24 09:49

MW-4-MI

2402097-03 (Ground Water)

Sampled Date: 02/12/24 12:50

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	0.0079	0.0010	0.00008	mg/L	2	02/14/24 17:24	EPA200.8		AES
Zinc*	<0.0040	0.0040	0.0012	mg/L	2	02/14/24 17:24	EPA200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/21/24 11:24	EPA245.7		CAI
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Green Analytical Laboratories

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Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/26/24 09:49

MW-4-A

2402097-04 (Ground Water)

Sampled Date: 02/12/24 13:24

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Total as CaCO ₃ *	555	10.0	8.00	mg/L	5	02/16/24 11:00	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/16/24 11:00	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/16/24 11:00	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	545	10.0	8.00	mg/L	5	02/16/24 11:00	2320 B		IDB
Cation/Anion Balance	1.35	-100	-100	%	1	02/22/24 08:35	Calculation		JDA
Chloride*	11.3	10.0	0.555	mg/L	10	02/16/24 20:30	EPA300.0		AWG
Fluoride*	<1.00	1.00	0.0971	mg/L	10	02/16/24 20:30	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/16/24 16:26	EPA353.2		CAI
pH*	8.07			pH Units	1	02/13/24 13:18	EPA150.1		IDB
pH Temperature, degrees C	22.0			pH Units	1	02/13/24 13:18	EPA150.1		IDB
Sulfate*	586	10.0	1.24	mg/L	10	02/16/24 20:30	EPA300.0		AWG
Total Dissolved Solids*	1350	10.0		mg/L	1	02/14/24 13:25	EPA160.1		IDB
Total Organic Carbon*	3.69	2.50	1.45	mg/L	5	02/15/24 17:28	5310C		IDB

Dissolved Metals by ICP

Aluminum*	<0.150	0.150	0.066	mg/L	3	02/21/24 18:12	EPA200.7		AES
Calcium*	1.83	0.300	0.054	mg/L	3	02/21/24 18:12	EPA200.7		AES
Hardness as CaCO ₃	7.88	1.98	0.509	mg/L	3	02/21/24 18:12	2340 B		AES
Iron*	<0.150	0.150	0.060	mg/L	3	02/21/24 18:12	EPA200.7		AES
Magnesium*	0.803	0.300	0.091	mg/L	3	02/21/24 18:12	EPA200.7		AES
Potassium*	<3.00	3.00	0.225	mg/L	3	02/21/24 18:12	EPA200.7		AES
Silica (SiO ₂)	9.79	3.21	0.299	mg/L	3	02/21/24 18:12	Calculation		AES
Silicon	4.58	1.50	0.140	mg/L	3	02/21/24 18:12	EPA200.7		AES
Sodium*	538	3.00	0.690	mg/L	3	02/21/24 18:12	EPA200.7		AES

Dissolved Metals by ICPMS

Arsenic*	<0.0050	0.0050	0.0031	mg/L	5	02/14/24 17:26	EPA200.8		AES
Cadmium*	<0.0025	0.0025	0.0003	mg/L	5	02/14/24 17:26	EPA200.8		AES
Copper*	0.0185	0.0050	0.0004	mg/L	5	02/21/24 11:43	EPA200.8		AES
Lead*	<0.0025	0.0025	0.0006	mg/L	5	02/14/24 17:26	EPA200.8		AES
Manganese*	0.0029	0.0025	0.0009	mg/L	5	02/14/24 17:26	EPA200.8		AES
Molybdenum*	<0.0025	0.0025	0.0003	mg/L	5	02/14/24 17:26	EPA200.8		AES
Selenium*	<0.0050	0.0050	0.0014	mg/L	5	02/14/24 17:26	EPA200.8		AES

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/26/24 09:49

MW-4-A

2402097-04 (Ground Water)

Sampled Date: 02/12/24 13:24

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	<0.0025	0.0025	0.0002	mg/L	5	02/14/24 17:26	EPA200.8		AES
Zinc*	<0.0100	0.0100	0.0030	mg/L	5	02/14/24 17:26	EPA200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	02/21/24 11:26	EPA245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/26/24 09:49

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B240321 - General Prep - Wet Chem										
Reference (B240321-SRM1)				Prepared & Analyzed: 02/13/24						
pH	6.94		pH Units	7.00		99.1	98.57-101.42			
Batch B240328 - General Prep - Wet Chem										
Blank (B240328-BLK1)				Prepared & Analyzed: 02/14/24						
Total Organic Carbon	ND	0.500	mg/L							
LCS (B240328-BS1)				Prepared & Analyzed: 02/14/24						
Total Organic Carbon	9.87	0.500	mg/L	10.0		98.7	85-115			
Batch B240329 - Lachat										
Blank (B240329-BLK1)				Prepared: 02/14/24 Analyzed: 02/16/24						
Nitrate/Nitrite as N	ND	0.020	mg/L as N							
LCS (B240329-BS1)				Prepared: 02/14/24 Analyzed: 02/16/24						
Nitrate/Nitrite as N	1.06	0.020	mg/L as N	1.00		106	90-110			
Batch B240331 - General Prep - Wet Chem										
Blank (B240331-BLK1)				Prepared & Analyzed: 02/14/24						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B240331-SRM1)				Prepared & Analyzed: 02/14/24						
Total Dissolved Solids	390	10.0	mg/L	400		97.5	85-115			
Batch B240348 - IC- Ion Chromatograph										
Blank (B240348-BLK1)				Prepared: 02/15/24 Analyzed: 02/16/24						
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B240348-BS1)				Prepared: 02/15/24 Analyzed: 02/16/24						
Chloride	24.8	1.00	mg/L	25.0		99.1	90-110			
Fluoride	2.62	0.100	mg/L	2.50		105	90-110			
Sulfate	24.9	1.00	mg/L	25.0		99.7	90-110			
Batch B240349 - General Prep - Wet Chem										
Blank (B240349-BLK1)				Prepared & Analyzed: 02/16/24						

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/26/24 09:49

General Chemistry - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240349 - General Prep - Wet Chem (Continued)

Blank (B240349-BLK1) (Continued)

Prepared & Analyzed: 02/16/24

Alkalinity, Bicarbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Total as CaCO ₃	ND	10.0	mg/L							

LCS (B240349-BS1)

Prepared & Analyzed: 02/16/24

Alkalinity, Total as CaCO ₃	99.0	10.0	mg/L	100		99.0	85-115			
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Reference (B240349-SRM1)

Prepared & Analyzed: 02/16/24

Alkalinity, Total as CaCO ₃	74.0	10.0	mg/L	72.7		102	85-115			
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Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240391 - Dissolved ICP

Blank (B240391-BLK1)

Prepared & Analyzed: 02/21/24

Aluminum	ND	0.050	mg/L							
Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Silicon	ND	0.500	mg/L							
Sodium	ND	1.00	mg/L							

LCS (B240391-BS1)

Prepared & Analyzed: 02/21/24

Aluminum	4.37	0.050	mg/L	4.00		109	85-115			
Calcium	4.23	0.100	mg/L	4.00		106	85-115			
Iron	4.19	0.050	mg/L	4.00		105	85-115			
Magnesium	21.8	0.100	mg/L	20.0		109	85-115			
Potassium	8.66	1.00	mg/L	8.00		108	85-115			
Silicon	4.14	0.500	mg/L	4.00		104	85-115			
Sodium	3.55	1.00	mg/L	3.24		110	85-115			

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/26/24 09:49

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240326 - Dissolved ICPMS

Blank (B240326-BLK1)

Prepared & Analyzed: 02/14/24

Arsenic	ND	0.0010	mg/L
Cadmium	ND	0.0005	mg/L
Lead	ND	0.0005	mg/L
Manganese	ND	0.0005	mg/L
Molybdenum	ND	0.0005	mg/L
Selenium	ND	0.0010	mg/L
Uranium	ND	0.0005	mg/L
Zinc	ND	0.0020	mg/L

LCS (B240326-BS1)

Prepared & Analyzed: 02/14/24

Arsenic	0.0539	0.0010	mg/L	0.0500	108	85-115
Cadmium	0.0521	0.0005	mg/L	0.0500	104	85-115
Lead	0.0514	0.0005	mg/L	0.0500	103	85-115
Manganese	0.0507	0.0005	mg/L	0.0500	101	85-115
Molybdenum	0.0515	0.0005	mg/L	0.0500	103	85-115
Selenium	0.263	0.0010	mg/L	0.250	105	85-115
Uranium	0.0521	0.0005	mg/L	0.0500	104	85-115
Zinc	0.0526	0.0020	mg/L	0.0500	105	85-115

Batch B240362 - Dissolved ICPMS

Blank (B240362-BLK1)

Prepared: 02/19/24 Analyzed: 02/21/24

Copper	ND	0.0010	mg/L
Lead	ND	0.0005	mg/L
Uranium	ND	0.0005	mg/L

LCS (B240362-BS1)

Prepared: 02/19/24 Analyzed: 02/21/24

Copper	0.0491	0.0010	mg/L	0.0500	98.2	85-115
Lead	0.0484	0.0005	mg/L	0.0500	96.8	85-115
Uranium	0.0528	0.0005	mg/L	0.0500	106	85-115

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/26/24 09:49

Dissolved Mercury by CVAFS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B240355 - EPA 245.7

Blank (B240355-BLK1)

Prepared: 02/16/24 Analyzed: 02/21/24

Mercury	ND	100	ng/L
---------	----	-----	------

LCS (B240355-BS1)

Prepared: 02/16/24 Analyzed: 02/21/24

Mercury	1630	100	ng/L	2000	81.4	76-113
---------	------	-----	------	------	------	--------

Notes and Definitions

M5	Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
02/26/24 09:49

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2402097-01	Mercury Dissolved by CVAFS	Mercury	M5	Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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Table of Contents									
Note: Write-Out™ or similar products cannot be used on the Chain of Custody									
Bill to (if different):									
ANALYSIS REQUEST									
Company or Client: GCE Energy									
Address: 6473 CE120									
City: 16890000 State: CO Zip: 81326									
Phone #: 970-385-4528									
Contact Person: Tom Bickel For Client, LAMAR Bickel For Laboratory or TELL									
Email Report to: Tom Bickel For Client, LAMAR Bickel For Laboratory or TELL									
Project Name(optional):									
Sampler Name (Print): BRANDON WADSWORTH									
Y N									
Rush?									
P.O. #:									
Matrix (check one)									
# of containers									
GROUNDWATER									
SURFACE WATER									
WASTEWATER									
PRODUCED WATER									
DRINKING WATER									
SOIL									
OTHER:									
No preservation									
Nitric Acid									
Hydrochloric Acid									
Sulfuric Acid									
Sodium Hydroxide									
OTHER:									
GCE GW BASELINE									
Lab I.D.									
Sample Name or Location									
Date									
Time									
2402097									
01 1) MW-4-C 2-12-24 13:47									
02 2) MW-4-LM 2-12-24 13:50									
03 3) MW-4-MT 2-12-24 12:50									
04 4) MW-4-A 2-12-24 13:24									
5)									
6)									
7)									
8)									
9)									
10)									
PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion of the applicable service. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.									
Relinquished By: [Signature] Date: 2-12-24 Time: 3:32 PM Received By: [Signature] Date: 2-12-24 Time: 1532									
Relinquished By: [Signature] Date: [] Time: [] Received By: [Signature] Date: [] Time: []									
Relinquished By: [Signature] Date: [] Time: [] Received By: [Signature] Date: [] Time: []									
Temperature at receipt: 5.1°C									
Checked by: MRN									
On Ice? Y N									
Therm. used: 10555									

Project Information

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Printed: 02/12/2024 4:47 pm

GCC Energy, LLC

6473 CR 120
Hesperus, CO 81326
Laboratory PM: Veronica Wells

GCC Energy

Phone: (970) 385-4528
Fax: (970) 385-4638

Project Name: GCC GW Baseline
Project Number:
Client PM: Tom Bird
Comments: All Metals Are Field Filtered. Send Out PRESERVED bottles per Landon. 11-01-18

Analysis	Comment
Alkalinity, Total	
Aluminum Dissolved by ICP	
Arsenic Dissolved by ICPMS	
CAB	
Cadmium Dissolved by ICPMS	
Chloride [IC]	
Copper Dissolved by ICPMS	
Fluoride [IC]	
Hardness [DISSOLVED]	
Iron Dissolved by ICP	
Lead Dissolved by ICPMS	
Manganese Dissolved by ICPMS	
Mercury Dissolved by CVAFS	
Molybdenum Dissolved by ICPMS	
Nitrate/Nitrite [LACHAT]	
pH	
Potassium Dissolved by ICP	
Selenium Dissolved by ICPMS	
Silica Dissolved by ICP	
Sodium Dissolved by ICP	
Sulfate [IC]	
Total Dissolved Solids [TDS]	
Total Organic Carbon [TOC]	
Uranium Dissolved by ICPMS	
Zinc Dissolved by ICPMS	
Hardness [DISSOLVED] subanalyses:	
Calcium Dissolved by ICP	
Magnesium Dissolved by ICP	
Silica Dissolved by ICP subanalyses:	
Silicon Dissolved by ICP	

All metals are field filtered. Send out preserved bottles



SAMPLE CONDITION RECEIPT FORM

Client Name: GCC EnergyWork Order # 2402097Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody Seals on Box/Cooler Present: ☐ Yes ☒ NoSeals Intact: ☐ Yes ☐ NoThermometer Used: 2 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☒ Wet ☐ Blue ☐ NoneCooler Temp: Observed Temp: 5.1 °C Correction Factor: 0 °C Final Temp: 5.1 °C

*Temp should be above freezing to 6°C

Date/Initials of person examining contents: 2.12.24
RADLabeled by initials: _____
(if different than above)

Chain of Custody Present:	☐ Yes ☐ No	1.
Chain of Custody Filled Out:	☐ Yes ☐ No	2.
Chain of Custody Relinquished:	☐ Yes ☐ No	3.
Sampler Name and Signature on COC:	☐ Yes ☐ No	4.
Samples arrived within hold time:	☐ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☐ No	6. <u>PH</u>
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume:	☐ Yes ☐ No	8.
Correct Containers Used:	☐ Yes ☐ No	9.
Containers Intact:	☐ Yes ☐ No	10.
Dissolved Testing Needed:	☒ Yes ☐ No	11.
Field Filtered: ☒ Yes ☐ No		
Sample Labels match COC: -Includes Date/Time/ID	☐ Yes ☐ No	12.
Matrix:	☒ WT ☐ SL ☐ OT	
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	13.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☒ N/A	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

 Comments/Resolution: _____



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
jeremy.allen@greenanalytical.com

06 March 2024

Michael Dickson
GCC Energy, LLC
6473 CR 120
Hesperus, CO 81326
RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 02/23/24 15:00. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells
Project Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-23-16

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GCC Energy, LLC
 6473 CR 120
 Hesperus CO, 81326

Project: GCC GW Baseline
 Project Name / Number: [none]
 Project Manager: Michael Dickson

Reported:
 03/06/24 08:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
WILTSE	2402195-01	Water	02/23/24 14:15	02/23/24 15:00	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:41

WILTSE

2402195-01 (Ground Water)

Sampled Date: 02/23/24 14:15

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Total as CaCO ₃ *	480	10.0	8.00	mg/L	5	02/26/24 10:30	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/26/24 10:30	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/26/24 10:30	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	480	10.0	8.00	mg/L	5	02/26/24 10:30	2320 B		IDB
Cation/Anion Balance	-5.76	-100	-100	%	1	03/04/24 08:56	Calculation		JDA
Chloride*	70.5	5.00	0.278	mg/L	5	03/01/24 19:49	EPA300.0		AWG
Fluoride*	<0.500	0.500	0.0486	mg/L	5	03/01/24 19:49	EPA300.0		AWG
Nitrate/Nitrite as N*	2.09	0.040	0.026	mg/L as N	2	03/01/24 16:23	EPA353.2		CAI
pH*	7.18			pH Units	1	02/23/24 16:50	EPA150.1		CAI
pH Temperature, degrees C	21.7			pH Units	1	02/23/24 16:50	EPA150.1		CAI
Sulfate*	1140	15.0	1.86	mg/L	15	03/01/24 20:09	EPA300.0		AWG
Total Dissolved Solids*	2080	10.0		mg/L	1	02/27/24 14:23	EPA160.1		IDB
Total Organic Carbon*	4.72	0.500	0.290	mg/L	1	02/29/24 17:07	5310C		IDB

Dissolved Metals by ICP

Aluminum*	<0.150	0.150	0.066	mg/L	3	02/28/24 13:02	EPA200.7		JDA
Calcium*	255	0.300	0.054	mg/L	3	02/28/24 13:02	EPA200.7		JDA
Hardness as CaCO ₃	1340	1.98	0.509	mg/L	3	02/28/24 13:02	2340 B		JDA
Iron*	<0.150	0.150	0.060	mg/L	3	02/28/24 13:02	EPA200.7		JDA
Magnesium*	170	0.300	0.091	mg/L	3	02/28/24 13:02	EPA200.7		JDA
Potassium*	4.52	3.00	0.225	mg/L	3	02/28/24 13:02	EPA200.7		JDA
Silica (SiO ₂)	12.4	3.21	0.299	mg/L	3	02/28/24 13:02	Calculation		JDA
Silicon	5.80	1.50	0.140	mg/L	3	02/28/24 13:02	EPA200.7		JDA
Sodium*	87.4	3.00	0.690	mg/L	3	02/28/24 13:02	EPA200.7		JDA

Dissolved Metals by ICPMS

Arsenic*	<0.0050	0.0050	0.0031	mg/L	5	03/04/24 12:38	EPA200.8		AES
Cadmium*	<0.0025	0.0025	0.0003	mg/L	5	03/04/24 12:38	EPA200.8		AES
Copper*	0.0090	0.0050	0.0004	mg/L	5	03/04/24 12:38	EPA200.8		AES
Lead*	<0.0025	0.0025	0.0006	mg/L	5	03/05/24 12:37	EPA200.8		AES
Manganese*	0.635	0.0025	0.0009	mg/L	5	03/04/24 12:38	EPA200.8		AES
Molybdenum*	<0.0025	0.0025	0.0003	mg/L	5	03/04/24 12:38	EPA200.8		AES
Selenium*	<0.0050	0.0050	0.0014	mg/L	5	03/04/24 12:38	EPA200.8		AES

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:41

WILTSE

2402195-01 (Ground Water)

Sampled Date: 02/23/24 14:15

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	0.0043	0.0025	0.0002	mg/L	5	03/04/24 12:38	EPA200.8		AES
Zinc*	0.0143	0.0100	0.0030	mg/L	5	03/04/24 12:38	EPA200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	03/01/24 13:55	EPA245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:41

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240429 - General Prep - Wet Chem

Reference (B240429-SRM1)

Prepared & Analyzed: 02/23/24

pH	6.99		pH Units	7.00		99.9	98.57-101.42			
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Batch B240433 - General Prep - Wet Chem

Blank (B240433-BLK1)

Prepared & Analyzed: 02/26/24

Alkalinity, Bicarbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Total as CaCO ₃	ND	10.0	mg/L							

LCS (B240433-BS1)

Prepared & Analyzed: 02/26/24

Alkalinity, Total as CaCO ₃	101	10.0	mg/L	100		101	85-115			
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LCS Dup (B240433-BSD1)

Prepared & Analyzed: 02/26/24

Alkalinity, Total as CaCO ₃	99.0	10.0	mg/L	100		99.0	85-115	2.00	20	
--	------	------	------	-----	--	------	--------	------	----	--

Reference (B240433-SRM1)

Prepared & Analyzed: 02/26/24

Alkalinity, Total as CaCO ₃	66.0	10.0	mg/L	72.7		90.8	85-115			
--	------	------	------	------	--	------	--------	--	--	--

Batch B240445 - General Prep - Wet Chem

Blank (B240445-BLK1)

Prepared & Analyzed: 02/27/24

Total Dissolved Solids	ND	10.0	mg/L							
------------------------	----	------	------	--	--	--	--	--	--	--

Reference (B240445-SRM1)

Prepared & Analyzed: 02/27/24

Total Dissolved Solids	370	10.0	mg/L	400		92.5	85-115			
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Batch B240452 - Lachat

Blank (B240452-BLK1)

Prepared & Analyzed: 03/01/24

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B240452-BS1)

Prepared & Analyzed: 03/01/24

Nitrate/Nitrite as N	0.975	0.020	mg/L as N	1.00		97.5	90-110			
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LCS Dup (B240452-BSD1)

Prepared & Analyzed: 03/01/24

Nitrate/Nitrite as N	0.981	0.020	mg/L as N	1.00		98.1	90-110	0.532	20	
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Batch B240461 - General Prep - Wet Chem

Blank (B240461-BLK1)

Prepared & Analyzed: 02/29/24

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:41

General Chemistry - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B240461 - General Prep - Wet Chem (Continued)

Blank (B240461-BLK1) (Continued)

Prepared & Analyzed: 02/29/24

Total Organic Carbon	ND	0.500	mg/L
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LCS (B240461-BS1)

Prepared & Analyzed: 02/29/24

Total Organic Carbon	10.1	0.500	mg/L	10.0	101	85-115
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LCS Dup (B240461-BSD1)

Prepared & Analyzed: 02/29/24

Total Organic Carbon	10.1	0.500	mg/L	10.0	101	85-115	0.0993	20
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Batch B240476 - IC- Ion Chromatograph

Blank (B240476-BLK1)

Prepared & Analyzed: 03/01/24

Chloride	ND	1.00	mg/L
Fluoride	ND	0.100	mg/L
Sulfate	ND	1.00	mg/L

LCS (B240476-BS1)

Prepared & Analyzed: 03/01/24

Chloride	23.8	1.00	mg/L	25.0	95.3	90-110
Fluoride	2.44	0.100	mg/L	2.50	97.8	90-110
Sulfate	23.9	1.00	mg/L	25.0	95.7	90-110

LCS Dup (B240476-BSD1)

Prepared & Analyzed: 03/01/24

Chloride	24.8	1.00	mg/L	25.0	99.2	90-110	3.99	20
Fluoride	2.51	0.100	mg/L	2.50	101	90-110	2.82	20
Sulfate	24.8	1.00	mg/L	25.0	99.2	90-110	3.56	20

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:41

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240454 - Dissolved ICP

Blank (B240454-BLK1)

Prepared & Analyzed: 02/28/24

Aluminum	ND	0.050	mg/L							
Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Silicon	ND	0.500	mg/L							
Sodium	ND	1.00	mg/L							

LCS (B240454-BS1)

Prepared & Analyzed: 02/28/24

Aluminum	3.94	0.050	mg/L	4.00		98.5	85-115			
Calcium	3.78	0.100	mg/L	4.00		94.5	85-115			
Iron	3.79	0.050	mg/L	4.00		94.6	85-115			
Magnesium	19.9	0.100	mg/L	20.0		99.3	85-115			
Potassium	8.03	1.00	mg/L	8.00		100	85-115			
Silicon	3.81	0.500	mg/L	4.00		95.2	85-115			
Sodium	3.21	1.00	mg/L	3.24		99.2	85-115			

LCS Dup (B240454-BSD1)

Prepared & Analyzed: 02/28/24

Aluminum	3.95	0.050	mg/L	4.00		98.7	85-115	0.240	20	
Calcium	3.78	0.100	mg/L	4.00		94.5	85-115	0.0181	20	
Iron	3.82	0.050	mg/L	4.00		95.5	85-115	0.911	20	
Magnesium	19.9	0.100	mg/L	20.0		99.7	85-115	0.431	20	
Potassium	7.97	1.00	mg/L	8.00		99.6	85-115	0.808	20	
Silicon	3.82	0.500	mg/L	4.00		95.5	85-115	0.394	20	
Sodium	3.21	1.00	mg/L	3.24		98.9	85-115	0.280	20	

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:41

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240466 - Dissolved ICPMS

Blank (B240466-BLK1)

Prepared: 02/29/24 Analyzed: 03/04/24

Arsenic	ND	0.0010	mg/L
Cadmium	ND	0.0005	mg/L
Copper	ND	0.0010	mg/L
Manganese	ND	0.0005	mg/L
Molybdenum	ND	0.0005	mg/L
Selenium	ND	0.0010	mg/L
Uranium	ND	0.0005	mg/L
Zinc	ND	0.0020	mg/L

LCS (B240466-BS1)

Prepared: 02/29/24 Analyzed: 03/04/24

Arsenic	0.0513	0.0010	mg/L	0.0500	103	85-115
Cadmium	0.0502	0.0005	mg/L	0.0500	100	85-115
Copper	0.0449	0.0010	mg/L	0.0500	89.7	85-115
Manganese	0.0497	0.0005	mg/L	0.0500	99.3	85-115
Molybdenum	0.0506	0.0005	mg/L	0.0500	101	85-115
Selenium	0.255	0.0010	mg/L	0.250	102	85-115
Uranium	0.0514	0.0005	mg/L	0.0500	103	85-115
Zinc	0.0461	0.0020	mg/L	0.0500	92.3	85-115

LCS Dup (B240466-BSD1)

Prepared: 02/29/24 Analyzed: 03/04/24

Arsenic	0.0518	0.0010	mg/L	0.0500	104	85-115	0.960	20
Cadmium	0.0498	0.0005	mg/L	0.0500	99.7	85-115	0.830	20
Copper	0.0462	0.0010	mg/L	0.0500	92.4	85-115	3.00	20
Manganese	0.0504	0.0005	mg/L	0.0500	101	85-115	1.52	20
Molybdenum	0.0519	0.0005	mg/L	0.0500	104	85-115	2.48	20
Selenium	0.259	0.0010	mg/L	0.250	103	85-115	1.27	20
Uranium	0.0506	0.0005	mg/L	0.0500	101	85-115	1.65	20
Zinc	0.0474	0.0020	mg/L	0.0500	94.9	85-115	2.76	20

Batch B240500 - Dissolved ICPMS

Blank (B240500-BLK1)

Prepared: 03/04/24 Analyzed: 03/05/24

Lead	ND	0.0005	mg/L
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LCS (B240500-BS1)

Prepared: 03/04/24 Analyzed: 03/05/24

Lead	0.0486	0.0005	mg/L	0.0500	97.2	85-115
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LCS Dup (B240500-BSD1)

Prepared: 03/04/24 Analyzed: 03/05/24

Lead	0.0489	0.0005	mg/L	0.0500	97.8	85-115	0.687	20
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Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:41

Dissolved Mercury by CVAFS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B240455 - EPA 245.7

Blank (B240455-BLK1)

Prepared: 02/28/24 Analyzed: 03/01/24

Mercury	ND	100	ng/L
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LCS (B240455-BS1)

Prepared: 02/28/24 Analyzed: 03/01/24

Mercury	1910	200	ng/L	2000	95.5	76-113
---------	------	-----	------	------	------	--------

LCS Dup (B240455-BSD1)

Prepared: 02/28/24 Analyzed: 03/01/24

Mercury	1910	200	ng/L	2000	95.6	76-113	0.136	20
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Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

Veronica Wells, Project Manager

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75 Suttle Street
Durango, CO 81303
(970) 247-4220

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
FORM-006, R 8.0

Note: Write-Out™ or similar products cannot be used on the Chain of Custody

Company or Client:

GCC Energy

Bill to (if different):

ANALYSIS REQUEST

Address:

6473 CR 120

City:

Hesperus

State: CO Zip: 81326

Phone #:

970-385-4528

Contact Person:

Landon Beck for Logistical or Technical

Email Report to:

lbeck@slrconsulting.com

tom@haygulchservices.com

mdickson@gcc.com

Project Name(optional):

P.O. #:

Rush? ☐ Y ☒ N

TAT Needed? ☐ Y ☒ N

Sampler Name (Print):

Brandon Waddell

Collected

Matrix (check one)

of containers

Sample Name or Location

Lab I.D.

Lab Use Only

2402-145

01

WILTSE

Date

Time

2.23.24

14:15

X

GROUNDWATER

SURFACE WATER

WASTEWATER

PRODUCED WATER

DRINKING WATER

SOIL

OTHER:

No preservation

Nitric Acid

Hydrochloric Acid

Sulfuric Acid

Sodium Hydroxide

OTHER:

X

GCC GW Baseline

GCC S&S Baseline

GCC SW Baseline

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion of the applicable service. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 2-23-24

Received By:

Date: 2-23-24

ADDITIONAL REMARKS:

Relinquished By:

Date: 15:00

Received By:

Date: 1500

Relinquished By:

Date:

Received By:

Date:

Temperature at receipt:

Checked by:

On Ice? ☐ Y ☒ N

Therm. used:

6.0 °C

MPH

Y N

1500

* GAL cannot accept verbal changes. Please email changes to receiving@greenanalytical.com
* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

Project Information

Table of Contents

Printed: 02/23/2024 3:02 pm

GCC Energy, LLC

6473 CR 120

Hesperus, CO 81326

Laboratory PM: Veronica Wells

GCC Energy

Phone: (970) 385-4528

Fax: (970) 385-4638

Project Name: GCC GW Baseline

Project Number:

Client PM: Tom Bird

Comments: All Metals Are Field Filtered. Send Out PRESERVED bottles per Landon. 11-01-18

Analysis	Comment
Alkalinity, Total	
Aluminum Dissolved by ICP	
Arsenic Dissolved by ICPMS	
CAB	
Cadmium Dissolved by ICPMS	
Chloride [IC]	
Copper Dissolved by ICPMS	
Fluoride [IC]	
Hardness [DISSOLVED]	
Iron Dissolved by ICP	
Lead Dissolved by ICPMS	
Manganese Dissolved by ICPMS	
Mercury Dissolved by CVAFS	
Molybdenum Dissolved by ICPMS	
Nitrate/Nitrite [LACHAT]	
pH	
Potassium Dissolved by ICP	
Selenium Dissolved by ICPMS	
Silica Dissolved by ICP	
Sodium Dissolved by ICP	
Sulfate [IC]	
Total Dissolved Solids [TDS]	
Total Organic Carbon [TOC]	
Uranium Dissolved by ICPMS	
Zinc Dissolved by ICPMS	
Hardness [DISSOLVED] subanalyses:	
Calcium Dissolved by ICP	
Magnesium Dissolved by ICP	
Silica Dissolved by ICP subanalyses:	
Silicon Dissolved by ICP	

All metals are field filtered. Send out preserved bottles



SAMPLE CONDITION RECEIPT FORM

Client Name: GCCWork Order # 2402-195Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody Seals on Box/Cooler Present: ☐ Yes ☒ NoSeals Intact: ☐ Yes ☐ NoThermometer Used: #2 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☒ Wet ☐ Blue ☐ NoneCooler Temp: Observed Temp: 6.0 °C Correction Factor: 0 °C Final Temp: 6.0 °C

*Temp should be above freezing to 6°C

Date/Initials of person examining contents: MPA 2.23.24Labeled by initials: _____
(if different than above)

Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name and Signature on COC:	☒ Yes ☐ No	4.
Samples arrived within hold time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	6. pH
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume:	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9.
Containers Intact:	☒ Yes ☐ No	10.
Dissolved Testing Needed:	☒ Yes ☐ No	11. 0:17
Field Filtered: ☒ Yes ☐ No		
Sample Labels match COC: -Includes Date/Time/ID	☒ Yes ☐ No	12.
Matrix:	☒ WT ☐ SL ☐ OT	
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	13.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☒ N/A	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

 Comments/Resolution: _____



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
jeremy.allen@greenanalytical.com

06 March 2024

Michael Dickson
GCC Energy, LLC
6473 CR 120
Hesperus, CO 81326
RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 02/26/24 15:47. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells
Project Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-23-16

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Well #2 Down Gradient	2402201-01	Water	02/26/24 14:40	02/26/24 15:47	
Well #1 Up Gradient	2402201-02	Water	02/26/24 13:08	02/26/24 15:47	
MW-HGA-4	2402201-03	Water	02/26/24 15:06	02/26/24 15:47	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:46

Well #2 Down Gradient

2402201-01 (Ground Water)

Sampled Date: 02/26/24 14:40

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Total as CaCO ₃ *	372	10.0	8.00	mg/L	2	02/28/24 08:40	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	2	02/28/24 08:40	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	2	02/28/24 08:40	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	372	10.0	8.00	mg/L	2	02/28/24 08:40	2320 B		IDB
Cation/Anion Balance	-3.22	-100	-100	%	1	03/04/24 08:56	Calculation		JDA
Chloride*	43.0	2.00	0.111	mg/L	2	03/01/24 21:09	EPA300.0		AWG
Fluoride*	<0.200	0.200	0.0194	mg/L	2	03/01/24 21:09	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	03/01/24 16:29	EPA353.2		CAI
pH*	7.57			pH Units	1	03/01/24 13:18	EPA150.1	H3	IDB
pH Temperature, degrees C	19.9			pH Units	1	03/01/24 13:18	EPA150.1		IDB
Sulfate*	195	2.00	0.248	mg/L	2	03/01/24 21:09	EPA300.0		AWG
Total Dissolved Solids*	660	10.0		mg/L	1	02/27/24 14:23	EPA160.1		IDB
Total Organic Carbon*	1.79	0.500	0.290	mg/L	1	02/29/24 18:14	5310C		IDB

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	02/28/24 13:09	EPA200.7		JDA
Calcium*	73.4	0.200	0.036	mg/L	2	02/28/24 13:09	EPA200.7		JDA
Hardness as CaCO ₃	500	1.32	0.339	mg/L	2	02/28/24 13:09	2340 B		JDA
Iron*	<0.100	0.100	0.040	mg/L	2	02/28/24 13:09	EPA200.7		JDA
Magnesium*	76.8	0.200	0.061	mg/L	2	02/28/24 13:09	EPA200.7		JDA
Potassium*	2.02	2.00	0.150	mg/L	2	02/28/24 13:09	EPA200.7		JDA
Silica (SiO ₂)	10.4	2.14	0.199	mg/L	2	02/28/24 13:09	Calculation		JDA
Silicon	4.84	1.00	0.093	mg/L	2	02/28/24 13:09	EPA200.7		JDA
Sodium*	27.0	2.00	0.460	mg/L	2	02/28/24 13:09	EPA200.7		JDA

Dissolved Metals by ICPMS

Arsenic*	0.0011	0.0010	0.0006	mg/L	1	03/04/24 12:43	EPA200.8		AES
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	03/04/24 12:43	EPA200.8		AES
Copper*	0.0025	0.0010	0.00008	mg/L	1	03/04/24 12:43	EPA200.8		AES
Lead*	<0.0005	0.0005	0.0001	mg/L	1	03/05/24 12:45	EPA200.8		AES
Manganese*	0.399	0.0005	0.0002	mg/L	1	03/04/24 12:43	EPA200.8		AES
Molybdenum*	0.0032	0.0005	0.00005	mg/L	1	03/04/24 12:43	EPA200.8		AES
Selenium*	0.0013	0.0010	0.0003	mg/L	1	03/04/24 12:43	EPA200.8		AES

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:46

Well #2 Down Gradient

2402201-01 (Ground Water)

Sampled Date: 02/26/24 14:40

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Dissolved Metals by ICPMS

Uranium	0.0017	0.0005	0.00004	mg/L	1	03/04/24 12:43	EPA200.8		AES
Zinc*	<0.0020	0.0020	0.0006	mg/L	1	03/04/24 12:43	EPA200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	03/01/24 13:58	EPA245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:46

Well #1 Up Gradient

2402201-02 (Ground Water)

Sampled Date: 02/26/24 13:08

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Total as CaCO ₃ *	590	10.0	8.00	mg/L	5	02/28/24 08:40	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/28/24 08:40	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/28/24 08:40	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	590	10.0	8.00	mg/L	5	02/28/24 08:40	2320 B		IDB
Cation/Anion Balance	0.430	-100	-100	%	1	03/04/24 08:56	Calculation		JDA
Chloride*	5.05	2.00	0.111	mg/L	2	03/01/24 21:29	EPA300.0		AWG
Fluoride*	0.266	0.200	0.0194	mg/L	2	03/01/24 21:29	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	03/01/24 16:30	EPA353.2		CAI
pH*	7.67			pH Units	1	03/01/24 13:18	EPA150.1	H3	IDB
pH Temperature, degrees C	19.2			pH Units	1	03/01/24 13:18	EPA150.1		IDB
Sulfate*	117	2.00	0.248	mg/L	2	03/01/24 21:29	EPA300.0		AWG
Total Dissolved Solids*	745	10.0		mg/L	1	02/27/24 14:23	EPA160.1		IDB
Total Organic Carbon*	5.09	2.50	1.45	mg/L	5	02/29/24 19:14	5310C		IDB

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	02/28/24 13:15	EPA200.7		JDA
Calcium*	61.3	0.200	0.036	mg/L	2	02/28/24 13:15	EPA200.7		JDA
Hardness as CaCO ₃	330	1.32	0.339	mg/L	2	02/28/24 13:15	2340 B		JDA
Iron*	2.03	0.100	0.040	mg/L	2	02/28/24 13:15	EPA200.7		JDA
Magnesium*	43.0	0.200	0.061	mg/L	2	02/28/24 13:15	EPA200.7		JDA
Potassium*	2.80	2.00	0.150	mg/L	2	02/28/24 13:15	EPA200.7		JDA
Silica (SiO ₂)	12.9	2.14	0.199	mg/L	2	02/28/24 13:15	Calculation		JDA
Silicon	6.05	1.00	0.093	mg/L	2	02/28/24 13:15	EPA200.7		JDA
Sodium*	158	2.00	0.460	mg/L	2	02/28/24 13:15	EPA200.7		JDA

Dissolved Metals by ICPMS

Arsenic*	<0.0020	0.0020	0.0012	mg/L	2	03/04/24 12:45	EPA200.8		AES
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	03/04/24 12:45	EPA200.8		AES
Copper*	0.0055	0.0020	0.0002	mg/L	2	03/04/24 12:45	EPA200.8		AES
Lead*	<0.0010	0.0010	0.0002	mg/L	2	03/05/24 12:47	EPA200.8		AES
Manganese*	0.517	0.0010	0.0004	mg/L	2	03/04/24 12:45	EPA200.8		AES
Molybdenum*	<0.0010	0.0010	0.0001	mg/L	2	03/04/24 12:45	EPA200.8		AES
Selenium*	0.0075	0.0020	0.0005	mg/L	2	03/04/24 12:45	EPA200.8		AES

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:46

Well #1 Up Gradient

2402201-02 (Ground Water)

Sampled Date: 02/26/24 13:08

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	<0.0010	0.0010	0.00008	mg/L	2	03/04/24 12:45	EPA200.8		AES
Zinc*	<0.0040	0.0040	0.0012	mg/L	2	03/04/24 12:45	EPA200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	03/01/24 14:39	EPA245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:46

MW-HGA-4

2402201-03 (Ground Water)

Sampled Date: 02/26/24 15:06

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Total as CaCO ₃ *	390	10.0	8.00	mg/L	10	02/28/24 08:40	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	10	02/28/24 08:40	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	10	02/28/24 08:40	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	390	10.0	8.00	mg/L	10	02/28/24 08:40	2320 B		IDB
Cation/Anion Balance	0.880	-100	-100	%	1	03/04/24 08:56	Calculation		JDA
Chloride*	3.63	1.00	0.0555	mg/L	1	03/01/24 21:49	EPA300.0		AWG
Fluoride*	0.342	0.100	0.00971	mg/L	1	03/01/24 21:49	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	03/01/24 16:31	EPA353.2		CAI
pH*	7.39			pH Units	1	03/01/24 13:18	EPA150.1	H3	IDB
pH Temperature, degrees C	20.3			pH Units	1	03/01/24 13:18	EPA150.1		IDB
Sulfate*	142	1.00	0.124	mg/L	1	03/01/24 21:49	EPA300.0		AWG
Total Dissolved Solids*	570	20.0		mg/L	2	02/27/24 14:23	EPA160.1		IDB
Total Organic Carbon*	4.98	2.50	1.45	mg/L	5	02/29/24 19:42	5310C		IDB

Dissolved Metals by ICP

Aluminum*	<0.050	0.050	0.022	mg/L	1	02/28/24 13:16	EPA200.7		JDA
Calcium*	75.3	0.100	0.018	mg/L	1	02/28/24 13:16	EPA200.7		JDA
Hardness as CaCO ₃	410	0.662	0.170	mg/L	1	02/28/24 13:16	2340 B		JDA
Iron*	9.07	0.050	0.020	mg/L	1	02/28/24 13:16	EPA200.7		JDA
Magnesium*	54.0	0.100	0.030	mg/L	1	02/28/24 13:16	EPA200.7		JDA
Potassium*	2.14	1.00	0.075	mg/L	1	02/28/24 13:16	EPA200.7		JDA
Silica (SiO ₂)	12.5	1.07	0.0997	mg/L	1	02/28/24 13:16	Calculation		JDA
Silicon	5.85	0.500	0.047	mg/L	1	02/28/24 13:16	EPA200.7		JDA
Sodium*	37.3	1.00	0.230	mg/L	1	02/28/24 13:16	EPA200.7		JDA

Dissolved Metals by ICPMS

Arsenic*	0.0040	0.0010	0.0006	mg/L	1	03/04/24 12:47	EPA200.8		AES
Cadmium*	<0.0005	0.0005	0.00006	mg/L	1	03/04/24 12:47	EPA200.8		AES
Copper*	0.0018	0.0010	0.00008	mg/L	1	03/04/24 12:47	EPA200.8		AES
Lead*	<0.0005	0.0005	0.0001	mg/L	1	03/05/24 12:49	EPA200.8		AES
Manganese*	0.416	0.0005	0.0002	mg/L	1	03/04/24 12:47	EPA200.8		AES
Molybdenum*	0.0058	0.0005	0.00005	mg/L	1	03/04/24 12:47	EPA200.8		AES
Selenium*	<0.0010	0.0010	0.0003	mg/L	1	03/04/24 12:47	EPA200.8		AES

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:46

MW-HGA-4

2402201-03 (Ground Water)

Sampled Date: 02/26/24 15:06

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	<0.0005	0.0005	0.00004	mg/L	1	03/04/24 12:47	EPA200.8		AES
Zinc*	<0.0020	0.0020	0.0006	mg/L	1	03/04/24 12:47	EPA200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	03/01/24 14:41	EPA245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:46

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B240445 - General Prep - Wet Chem										
Blank (B240445-BLK1)				Prepared & Analyzed: 02/27/24						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B240445-SRM1)				Prepared & Analyzed: 02/27/24						
Total Dissolved Solids	370	10.0	mg/L	400		92.5	85-115			
Batch B240448 - General Prep - Wet Chem										
Reference (B240448-SRM1)				Prepared & Analyzed: 03/01/24						
pH	6.91		pH Units	7.00		98.7	98.57-101.42			
Batch B240450 - General Prep - Wet Chem										
Blank (B240450-BLK1)				Prepared & Analyzed: 02/28/24						
Alkalinity, Bicarbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Total as CaCO ₃	ND	10.0	mg/L							
LCS (B240450-BS1)				Prepared & Analyzed: 02/28/24						
Alkalinity, Total as CaCO ₃	100	10.0	mg/L	100		100	85-115			
LCS Dup (B240450-BSD1)				Prepared & Analyzed: 02/28/24						
Alkalinity, Total as CaCO ₃	98.0	10.0	mg/L	100		98.0	85-115	2.02	20	
Reference (B240450-SRM1)				Prepared & Analyzed: 02/28/24						
Alkalinity, Total as CaCO ₃	72.0	10.0	mg/L	72.7		99.0	85-115			
Batch B240452 - Lachat										
Blank (B240452-BLK1)				Prepared & Analyzed: 03/01/24						
Nitrate/Nitrite as N	ND	0.020	mg/L as N							
LCS (B240452-BS1)				Prepared & Analyzed: 03/01/24						
Nitrate/Nitrite as N	0.975	0.020	mg/L as N	1.00		97.5	90-110			
LCS Dup (B240452-BSD1)				Prepared & Analyzed: 03/01/24						
Nitrate/Nitrite as N	0.981	0.020	mg/L as N	1.00		98.1	90-110	0.532	20	
Batch B240461 - General Prep - Wet Chem										
Blank (B240461-BLK1)				Prepared & Analyzed: 02/29/24						

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:46

General Chemistry - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240461 - General Prep - Wet Chem (Continued)

Blank (B240461-BLK1) (Continued)

Prepared & Analyzed: 02/29/24

Total Organic Carbon	ND	0.500	mg/L
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LCS (B240461-BS1)

Prepared & Analyzed: 02/29/24

Total Organic Carbon	10.1	0.500	mg/L	10.0	101	85-115
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LCS Dup (B240461-BSD1)

Prepared & Analyzed: 02/29/24

Total Organic Carbon	10.1	0.500	mg/L	10.0	101	85-115	0.0993	20
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Batch B240476 - IC- Ion Chromatograph

Blank (B240476-BLK1)

Prepared & Analyzed: 03/01/24

Chloride	ND	1.00	mg/L
Fluoride	ND	0.100	mg/L
Sulfate	ND	1.00	mg/L

LCS (B240476-BS1)

Prepared & Analyzed: 03/01/24

Chloride	23.8	1.00	mg/L	25.0	95.3	90-110
Fluoride	2.44	0.100	mg/L	2.50	97.8	90-110
Sulfate	23.9	1.00	mg/L	25.0	95.7	90-110

LCS Dup (B240476-BSD1)

Prepared & Analyzed: 03/01/24

Chloride	24.8	1.00	mg/L	25.0	99.2	90-110	3.99	20
Fluoride	2.51	0.100	mg/L	2.50	101	90-110	2.82	20
Sulfate	24.8	1.00	mg/L	25.0	99.2	90-110	3.56	20

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:46

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240454 - Dissolved ICP

Blank (B240454-BLK1)

Prepared & Analyzed: 02/28/24

Aluminum	ND	0.050	mg/L							
Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Silicon	ND	0.500	mg/L							
Sodium	ND	1.00	mg/L							

LCS (B240454-BS1)

Prepared & Analyzed: 02/28/24

Aluminum	3.94	0.050	mg/L	4.00	98.5	85-115				
Calcium	3.78	0.100	mg/L	4.00	94.5	85-115				
Iron	3.79	0.050	mg/L	4.00	94.6	85-115				
Magnesium	19.9	0.100	mg/L	20.0	99.3	85-115				
Potassium	8.03	1.00	mg/L	8.00	100	85-115				
Silicon	3.81	0.500	mg/L	4.00	95.2	85-115				
Sodium	3.21	1.00	mg/L	3.24	99.2	85-115				

LCS Dup (B240454-BSD1)

Prepared & Analyzed: 02/28/24

Aluminum	3.95	0.050	mg/L	4.00	98.7	85-115	0.240	20		
Calcium	3.78	0.100	mg/L	4.00	94.5	85-115	0.0181	20		
Iron	3.82	0.050	mg/L	4.00	95.5	85-115	0.911	20		
Magnesium	19.9	0.100	mg/L	20.0	99.7	85-115	0.431	20		
Potassium	7.97	1.00	mg/L	8.00	99.6	85-115	0.808	20		
Silicon	3.82	0.500	mg/L	4.00	95.5	85-115	0.394	20		
Sodium	3.21	1.00	mg/L	3.24	98.9	85-115	0.280	20		

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:46

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240466 - Dissolved ICPMS

Blank (B240466-BLK1)

Prepared: 02/29/24 Analyzed: 03/04/24

Arsenic	ND	0.0010	mg/L							
Cadmium	ND	0.0005	mg/L							
Copper	ND	0.0010	mg/L							
Manganese	ND	0.0005	mg/L							
Molybdenum	ND	0.0005	mg/L							
Selenium	ND	0.0010	mg/L							
Uranium	ND	0.0005	mg/L							
Zinc	ND	0.0020	mg/L							

LCS (B240466-BS1)

Prepared: 02/29/24 Analyzed: 03/04/24

Arsenic	0.0513	0.0010	mg/L	0.0500	103	85-115				
Cadmium	0.0502	0.0005	mg/L	0.0500	100	85-115				
Copper	0.0449	0.0010	mg/L	0.0500	89.7	85-115				
Manganese	0.0497	0.0005	mg/L	0.0500	99.3	85-115				
Molybdenum	0.0506	0.0005	mg/L	0.0500	101	85-115				
Selenium	0.255	0.0010	mg/L	0.250	102	85-115				
Uranium	0.0514	0.0005	mg/L	0.0500	103	85-115				
Zinc	0.0461	0.0020	mg/L	0.0500	92.3	85-115				

LCS Dup (B240466-BSD1)

Prepared: 02/29/24 Analyzed: 03/04/24

Arsenic	0.0518	0.0010	mg/L	0.0500	104	85-115	0.960	20		
Cadmium	0.0498	0.0005	mg/L	0.0500	99.7	85-115	0.830	20		
Copper	0.0462	0.0010	mg/L	0.0500	92.4	85-115	3.00	20		
Manganese	0.0504	0.0005	mg/L	0.0500	101	85-115	1.52	20		
Molybdenum	0.0519	0.0005	mg/L	0.0500	104	85-115	2.48	20		
Selenium	0.259	0.0010	mg/L	0.250	103	85-115	1.27	20		
Uranium	0.0506	0.0005	mg/L	0.0500	101	85-115	1.65	20		
Zinc	0.0474	0.0020	mg/L	0.0500	94.9	85-115	2.76	20		

Batch B240500 - Dissolved ICPMS

Blank (B240500-BLK1)

Prepared: 03/04/24 Analyzed: 03/05/24

Lead	ND	0.0005	mg/L							
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LCS (B240500-BS1)

Prepared: 03/04/24 Analyzed: 03/05/24

Lead	0.0486	0.0005	mg/L	0.0500	97.2	85-115				
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LCS Dup (B240500-BSD1)

Prepared: 03/04/24 Analyzed: 03/05/24

Lead	0.0489	0.0005	mg/L	0.0500	97.8	85-115	0.687	20		
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Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:46

Dissolved Mercury by CVAFS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240455 - EPA 245.7

Blank (B240455-BLK1)

Prepared: 02/28/24 Analyzed: 03/01/24

Mercury	ND	100	ng/L
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LCS (B240455-BS1)

Prepared: 02/28/24 Analyzed: 03/01/24

Mercury	1910	200	ng/L	2000	95.5	76-113
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LCS Dup (B240455-BSD1)

Prepared: 02/28/24 Analyzed: 03/01/24

Mercury	1910	200	ng/L	2000	95.6	76-113	0.136	20
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Notes and Definitions

H3	Initial analysis performed within hold-time but not reportable due to QC failure or other issue. Sample was subsequently re-analyzed past hold time specified by method.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 08:46

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2402201-01	pH	pH	H3	Initial analysis performed within hold-time but not reportable due to QC failure or other issue. Sample was subsequently re-analyzed past hold time specified by method.
2402201-02	pH	pH	H3	Initial analysis performed within hold-time but not reportable due to QC failure or other issue. Sample was subsequently re-analyzed past hold time specified by method.
2402201-03	pH	pH	H3	Initial analysis performed within hold-time but not reportable due to QC failure or other issue. Sample was subsequently re-analyzed past hold time specified by method.

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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75 Suttle Street
Durango, CO 81303
(970) 247-4220

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006, R 8.0

Note: Write-Out™ or similar products cannot be used on the Chain of Custody

Company or Client:		GCC Energy		Bill to (if different):		ANALYSIS REQUEST	
Address:		6473 CR 120					
City:		Hesperus		State: CO Zip: 81326			
Phone #:		970-385-4528					
Contact Person:		Landon Beck for Logistical or Technical					
Email Report to:		lbeck@slrconsulting.com tom@hayguichservices.com mdickson@gcc.com					
Project Name(optional):				P.O. #:			
Sampler Name (Print):		Brandon Waddell		Rush? ☐ Y ☒ N TAT Needed? ☐ Y ☒ N			
Lab Use Only		Sample Name or Location		Collected		# of containers	
				Date		Time	
01		W&E #2 DOWNGRAVATION		2.26.24		14:40	
02		W&E #1 UP GRAVATION		2.26.24		13:08	
03		MW-HGA-4		2.26.24		15:06	
4)							
5)							
6)							
7)							
8)							
9)							
10)							
				GROUNDWATER		☒	
				SURFACE WATER		☐	
				WASTEWATER		☐	
				PRODUCED WATER		☐	
				DRINKING WATER		☐	
				SOIL		☐	
				OTHER:		☐	
				No preservation		☒	
				Nitric Acid		☐	
				Hydrochloric Acid		☐	
				Sulfuric Acid		☐	
				Sodium Hydroxide		☐	
				OTHER:		☐	
				GCC GW Baseline		☒	
				GCC S&S Baseline		☐	
				GCC SW Baseline		☐	

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion of the applicable service. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Relinquished By:

Relinquished By:

73

Date: 2-26-24
Time: 15:47

Received By: [Signature]
Date: 2-26-24
Time: 15:47

Received By: [Signature]
Date: 2-26-24
Time: 15:47

Received By: [Signature]
Date: 2-26-24
Time: 15:47

Received By: [Signature]
Date: 2-26-24
Time: 15:47

Received By: [Signature]
Date: 2-26-24
Time: 15:47

Received By: [Signature]
Date: 2-26-24
Time: 15:47

Relinquished By:

Relinquished By:

Relinquished By:

† GAL cannot accept verbal changes. Please email changes to receiving@greenanalytical.com
* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

Project Information

Table of Contents

Printed: 02/26/2024 4:22 pm

GCC Energy, LLC

6473 CR 120

Hesperus, CO 81326

Laboratory PM: Veronica Wells

GCC Energy

Phone: (970) 385-4528

Fax: (970) 385-4638

Project Name: GCC GW Baseline

Project Number:

Client PM: Tom Bird

Comments: All Metals Are Field Filtered. Send Out PRESERVED bottles per Landon. 11-01-18

Analysis	Comment
----------	---------

Alkalinity, Total

Aluminum Dissolved by ICP

Arsenic Dissolved by ICPMS

CAB

Cadmium Dissolved by ICPMS

Chloride [IC]

Copper Dissolved by ICPMS

Fluoride [IC]

Hardness [DISSOLVED]

Iron Dissolved by ICP

Lead Dissolved by ICPMS

Manganese Dissolved by ICPMS

Mercury Dissolved by CVAFS

Molybdenum Dissolved by ICPMS

Nitrate/Nitrite [LACHAT]

pH

Potassium Dissolved by ICP

Selenium Dissolved by ICPMS

Silica Dissolved by ICP

Sodium Dissolved by ICP

Sulfate [IC]

Total Dissolved Solids [TDS]

Total Organic Carbon [TOC]

Uranium Dissolved by ICPMS

Zinc Dissolved by ICPMS

Hardness [DISSOLVED] subanalyses:

Calcium Dissolved by ICP

Magnesium Dissolved by ICP

Silica Dissolved by ICP subanalyses:

Silicon Dissolved by ICP

All metals are field filtered. Send out preserved bottles



SAMPLE CONDITION RECEIPT FORM

Client Name: GCC EnergyWork Order # 2402-200
-201Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody Seals on Box/Cooler Present: ☐ Yes ☒ NoSeals Intact: ☐ Yes ☐ NoThermometer Used: 2 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☒ Wet ☐ Blue ☐ NoneCooler Temp: Observed Temp: 6.5 °C Correction Factor: 0 °C Final Temp: 6.5 °C

*Temp should be above freezing to 6°C

Date/Initials of person
examining contents: VJW 2/26/24Labeled by initials: _____
(if different than above)

Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name and Signature on COC:	☒ Yes ☐ No	4.
Samples arrived within hold time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	6. <u>pH</u>
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume:	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9.
Containers Intact:	☒ Yes ☐ No	10.
Dissolved Testing Needed:	☒ Yes ☐ No	11. <u>Diss</u>
Field Filtered: ☒ Yes ☐ No		
Sample Labels match COC: -Includes Date/Time/ID	☒ Yes ☐ No	12.
Matrix: <u>WT</u> <u>SL</u> <u>OT</u>		
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	13.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☐ N/A	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

 Comments/Resolution: _____



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
jeremy.allen@greenanalytical.com

06 March 2024

Michael Dickson
GCC Energy, LLC
6473 CR 120
Hesperus, CO 81326
RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 02/21/24 14:22. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells
Project Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-23-16

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 10:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-3-MI	2402178-01	Water	02/21/24 11:53	02/21/24 14:22	
MW-3-A	2402178-02	Water	02/21/24 12:13	02/21/24 14:22	
MW-3-C	2402178-03	Water	02/21/24 12:40	02/21/24 14:22	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 10:12

MW-3-MI

2402178-01 (Ground Water)

Sampled Date: 02/21/24 11:53

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Total as CaCO ₃ *	670	10.0	8.00	mg/L	5	02/26/24 10:30	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/26/24 10:30	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	80.0	10.0	8.00	mg/L	5	02/26/24 10:30	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	590	10.0	8.00	mg/L	5	02/26/24 10:30	2320 B		IDB
Cation/Anion Balance	-3.65	-100	-100	%	1	03/04/24 08:56	Calculation		JDA
Chloride*	10.7	2.00	0.111	mg/L	2	02/28/24 00:44	EPA300.0		AWG
Fluoride*	0.940	0.200	0.0194	mg/L	2	02/28/24 00:44	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/26/24 10:38	EPA353.2		CAI
pH*	8.76			pH Units	1	02/22/24 14:00	EPA150.1		IDB
pH Temperature, degrees C	22.6			pH Units	1	02/22/24 14:00	EPA150.1		IDB
Sulfate*	245	2.00	0.248	mg/L	2	02/28/24 00:44	EPA300.0		AWG
Total Dissolved Solids*	1120	10.0		mg/L	1	02/22/24 16:34	EPA160.1		CAI
Total Organic Carbon*	5.37	2.50	1.45	mg/L	5	02/29/24 14:10	5310C		IDB

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	02/28/24 12:45	EPA200.7		JDA
Calcium*	1.14	0.200	0.036	mg/L	2	02/28/24 12:45	EPA200.7		JDA
Hardness as CaCO ₃	4.21	1.32	0.339	mg/L	2	02/28/24 12:45	2340 B		JDA
Iron*	<0.100	0.100	0.040	mg/L	2	02/28/24 12:45	EPA200.7		JDA
Magnesium*	0.332	0.200	0.061	mg/L	2	02/28/24 12:45	EPA200.7		JDA
Potassium*	<2.00	2.00	0.150	mg/L	2	02/28/24 12:45	EPA200.7		JDA
Silica (SiO ₂)	7.98	2.14	0.199	mg/L	2	02/28/24 12:45	Calculation		JDA
Silicon	3.73	1.00	0.093	mg/L	2	02/28/24 12:45	EPA200.7		JDA
Sodium*	388	2.00	0.460	mg/L	2	02/28/24 12:45	EPA200.7		JDA

Dissolved Metals by ICPMS

Arsenic*	0.0067	0.0020	0.0012	mg/L	2	03/04/24 12:28	EPA200.8		AES
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	03/04/24 12:28	EPA200.8		AES
Copper*	0.0136	0.0020	0.0002	mg/L	2	03/04/24 12:28	EPA200.8		AES
Lead*	<0.0025	0.0025	0.0006	mg/L	5	03/05/24 12:32	EPA200.8		AES
Manganese*	0.0057	0.0010	0.0004	mg/L	2	03/04/24 12:28	EPA200.8		AES
Molybdenum*	0.0130	0.0010	0.0001	mg/L	2	03/04/24 12:28	EPA200.8		AES
Selenium*	0.0023	0.0020	0.0005	mg/L	2	03/04/24 12:28	EPA200.8		AES

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 10:12

MW-3-MI

2402178-01 (Ground Water)

Sampled Date: 02/21/24 11:53

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	0.0021	0.0010	0.00008	mg/L	2	03/04/24 12:28	EPA200.8		AES
Zinc*	<0.0040	0.0040	0.0012	mg/L	2	03/04/24 12:28	EPA200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	03/01/24 13:42	EPA245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 10:12

MW-3-A

2402178-02 (Ground Water)

Sampled Date: 02/21/24 12:13

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Total as CaCO ₃ *	465	10.0	8.00	mg/L	5	02/26/24 10:30	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/26/24 10:30	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	02/26/24 10:30	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	465	10.0	8.00	mg/L	5	02/26/24 10:30	2320 B		IDB
Cation/Anion Balance	-3.33	-100	-100	%	1	03/04/24 08:56	Calculation		JDA
Chloride*	17.3	5.00	0.278	mg/L	5	03/05/24 11:13	EPA300.0		AWG
Fluoride*	<0.500	0.500	0.0486	mg/L	5	03/05/24 11:13	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/26/24 10:39	EPA353.2		CAI
pH*	8.20			pH Units	1	02/22/24 14:00	EPA150.1		IDB
pH Temperature, degrees C	22.2			pH Units	1	02/22/24 14:00	EPA150.1		IDB
Sulfate*	545	5.00	0.620	mg/L	5	03/05/24 11:13	EPA300.0		AWG
Total Dissolved Solids*	1320	10.0		mg/L	1	02/22/24 16:36	EPA160.1		CAI
Total Organic Carbon*	3.25	2.50	1.45	mg/L	5	02/29/24 15:21	5310C		IDB

Dissolved Metals by ICP

Aluminum*	<0.150	0.150	0.066	mg/L	3	02/28/24 12:47	EPA200.7		JDA
Calcium*	2.25	0.300	0.054	mg/L	3	02/28/24 12:47	EPA200.7		JDA
Hardness as CaCO ₃	8.16	1.98	0.509	mg/L	3	02/28/24 12:47	2340 B		JDA
Iron*	<0.150	0.150	0.060	mg/L	3	02/28/24 12:47	EPA200.7		JDA
Magnesium*	0.619	0.300	0.091	mg/L	3	02/28/24 12:47	EPA200.7		JDA
Potassium*	<3.00	3.00	0.225	mg/L	3	02/28/24 12:47	EPA200.7		JDA
Silica (SiO ₂)	9.34	3.21	0.299	mg/L	3	02/28/24 12:47	Calculation		JDA
Silicon	4.36	1.50	0.140	mg/L	3	02/28/24 12:47	EPA200.7		JDA
Sodium*	436	3.00	0.690	mg/L	3	02/28/24 12:47	EPA200.7		JDA

Dissolved Metals by ICPMS

Arsenic*	<0.0020	0.0020	0.0012	mg/L	2	03/04/24 12:32	EPA200.8		AES
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	03/04/24 12:30	EPA200.8		AES
Copper*	0.0159	0.0020	0.0002	mg/L	2	03/04/24 12:32	EPA200.8		AES
Lead*	<0.0025	0.0025	0.0006	mg/L	5	03/05/24 12:34	EPA200.8		AES
Manganese*	<0.0010	0.0010	0.0004	mg/L	2	03/04/24 12:30	EPA200.8		AES
Molybdenum*	0.0018	0.0010	0.0001	mg/L	2	03/04/24 12:32	EPA200.8		AES
Selenium*	0.0063	0.0020	0.0005	mg/L	2	03/04/24 12:32	EPA200.8		AES

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 10:12

MW-3-A

2402178-02 (Ground Water)

Sampled Date: 02/21/24 12:13

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	<0.0010	0.0010	0.00008	mg/L	2	03/04/24 12:32	EPA200.8		AES
Zinc*	<0.0040	0.0040	0.0012	mg/L	2	03/04/24 12:30	EPA200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	03/01/24 13:50	EPA245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 10:12

MW-3-C

2402178-03 (Ground Water)

Sampled Date: 02/21/24 12:40

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Total as CaCO ₃ *	2180	10.0	8.00	mg/L	20	02/26/24 10:30	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	20	02/26/24 10:30	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	120	10.0	8.00	mg/L	20	02/26/24 10:30	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	2060	10.0	8.00	mg/L	20	02/26/24 10:30	2320 B		IDB
Cation/Anion Balance	-6.12	-100	-100	%	1	03/04/24 08:56	Calculation		JDA
Chloride*	646	5.00	0.278	mg/L	5	03/05/24 11:33	EPA300.0		AWG
Fluoride*	3.14	0.500	0.0486	mg/L	5	03/05/24 11:33	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	02/26/24 10:41	EPA353.2		CAI
pH*	8.39			pH Units	1	02/22/24 14:00	EPA150.1		IDB
pH Temperature, degrees C	22.6			pH Units	1	02/22/24 14:00	EPA150.1		IDB
Sulfate*	<5.00	5.00	0.620	mg/L	5	03/05/24 11:33	EPA300.0		AWG
Total Dissolved Solids*	3360	10.0		mg/L	1	02/22/24 16:38	EPA160.1		CAI
Total Organic Carbon*	20.5	2.50	1.45	mg/L	5	02/29/24 15:39	5310C		IDB

Dissolved Metals by ICP

Aluminum*	<0.300	0.300	0.133	mg/L	6	02/28/24 12:51	EPA200.7		JDA
Calcium*	3.74	0.600	0.108	mg/L	6	02/28/24 12:51	EPA200.7		JDA
Hardness as CaCO ₃	16.3	3.97	1.02	mg/L	6	02/28/24 12:51	2340 B		JDA
Iron*	<0.300	0.300	0.119	mg/L	6	02/28/24 12:51	EPA200.7		JDA
Magnesium*	1.70	0.600	0.182	mg/L	6	02/28/24 12:51	EPA200.7		JDA
Potassium*	<6.00	6.00	0.449	mg/L	6	02/28/24 12:51	EPA200.7		JDA
Silica (SiO ₂)	7.28	6.42	0.598	mg/L	6	02/28/24 12:51	Calculation		JDA
Silicon	3.41	3.00	0.280	mg/L	6	02/28/24 12:51	EPA200.7		JDA
Sodium*	1240	6.00	1.38	mg/L	6	02/28/24 12:51	EPA200.7		JDA

Dissolved Metals by ICPMS

Arsenic*	0.0171	0.0050	0.0031	mg/L	5	03/04/24 12:33	EPA200.8		AES
Cadmium*	<0.0025	0.0025	0.0003	mg/L	5	03/04/24 12:33	EPA200.8		AES
Copper*	0.0460	0.0050	0.0004	mg/L	5	03/04/24 12:33	EPA200.8		AES
Lead*	<0.0050	0.0050	0.0012	mg/L	10	03/05/24 12:35	EPA200.8		AES
Manganese*	<0.0025	0.0025	0.0009	mg/L	5	03/04/24 12:33	EPA200.8		AES
Molybdenum*	0.0057	0.0025	0.0003	mg/L	5	03/04/24 12:33	EPA200.8		AES
Selenium*	0.0241	0.0050	0.0014	mg/L	5	03/04/24 12:33	EPA200.8		AES

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 10:12

MW-3-C

2402178-03 (Ground Water)

Sampled Date: 02/21/24 12:40

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Dissolved Metals by ICPMS

Uranium	<0.0025	0.0025	0.0002	mg/L	5	03/04/24 12:33	EPA200.8		AES
Zinc*	<0.0100	0.0100	0.0030	mg/L	5	03/04/24 12:33	EPA200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	03/01/24 13:53	EPA245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 10:12

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B240402 - General Prep - Wet Chem										
Blank (B240402-BLK1)				Prepared & Analyzed: 02/22/24						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B240402-SRM1)				Prepared & Analyzed: 02/22/24						
Total Dissolved Solids	380	10.0	mg/L	400		95.0	85-115			
Batch B240407 - Lachat										
Blank (B240407-BLK1)				Prepared: 02/22/24 Analyzed: 02/26/24						
Nitrate/Nitrite as N	ND	0.020	mg/L as N							
LCS (B240407-BS1)				Prepared: 02/22/24 Analyzed: 02/26/24						
Nitrate/Nitrite as N	0.973	0.020	mg/L as N	1.00		97.3	90-110			
LCS Dup (B240407-BSD1)				Prepared: 02/22/24 Analyzed: 02/26/24						
Nitrate/Nitrite as N	0.975	0.020	mg/L as N	1.00		97.5	90-110	0.185	20	
Batch B240415 - General Prep - Wet Chem										
Reference (B240415-SRM1)				Prepared & Analyzed: 02/22/24						
pH	6.96		pH Units	7.00		99.4	98.57-101.42			
Batch B240427 - IC- Ion Chromatograph										
Blank (B240427-BLK1)				Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B240427-BS1)				Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	24.1	1.00	mg/L	25.0		96.5	90-110			
Fluoride	2.47	0.100	mg/L	2.50		98.6	90-110			
Sulfate	24.2	1.00	mg/L	25.0		96.6	90-110			
LCS Dup (B240427-BSD1)				Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	24.6	1.00	mg/L	25.0		98.6	90-110	2.12	20	
Fluoride	2.55	0.100	mg/L	2.50		102	90-110	3.39	20	
Sulfate	24.8	1.00	mg/L	25.0		99.2	90-110	2.62	20	
Batch B240433 - General Prep - Wet Chem										
Blank (B240433-BLK1)				Prepared & Analyzed: 02/26/24						

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 10:12

General Chemistry - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240433 - General Prep - Wet Chem (Continued)

Blank (B240433-BLK1) (Continued)

Prepared & Analyzed: 02/26/24

Alkalinity, Bicarbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Total as CaCO ₃	ND	10.0	mg/L							

LCS (B240433-BS1)

Prepared & Analyzed: 02/26/24

Alkalinity, Total as CaCO ₃	101	10.0	mg/L	100		101	85-115			
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LCS Dup (B240433-BSD1)

Prepared & Analyzed: 02/26/24

Alkalinity, Total as CaCO ₃	99.0	10.0	mg/L	100		99.0	85-115	2.00	20	
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Reference (B240433-SRM1)

Prepared & Analyzed: 02/26/24

Alkalinity, Total as CaCO ₃	66.0	10.0	mg/L	72.7		90.8	85-115			
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Batch B240461 - General Prep - Wet Chem

Blank (B240461-BLK1)

Prepared & Analyzed: 02/29/24

Total Organic Carbon	ND	0.500	mg/L							
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LCS (B240461-BS1)

Prepared & Analyzed: 02/29/24

Total Organic Carbon	10.1	0.500	mg/L	10.0		101	85-115			
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LCS Dup (B240461-BSD1)

Prepared & Analyzed: 02/29/24

Total Organic Carbon	10.1	0.500	mg/L	10.0		101	85-115	0.0993	20	
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Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 10:12

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240454 - Dissolved ICP

Blank (B240454-BLK1)

Prepared & Analyzed: 02/28/24

Aluminum	ND	0.050	mg/L							
Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Silicon	ND	0.500	mg/L							
Sodium	ND	1.00	mg/L							

LCS (B240454-BS1)

Prepared & Analyzed: 02/28/24

Aluminum	3.94	0.050	mg/L	4.00		98.5	85-115			
Calcium	3.78	0.100	mg/L	4.00		94.5	85-115			
Iron	3.79	0.050	mg/L	4.00		94.6	85-115			
Magnesium	19.9	0.100	mg/L	20.0		99.3	85-115			
Potassium	8.03	1.00	mg/L	8.00		100	85-115			
Silicon	3.81	0.500	mg/L	4.00		95.2	85-115			
Sodium	3.21	1.00	mg/L	3.24		99.2	85-115			

LCS Dup (B240454-BS1)

Prepared & Analyzed: 02/28/24

Aluminum	3.95	0.050	mg/L	4.00		98.7	85-115	0.240	20	
Calcium	3.78	0.100	mg/L	4.00		94.5	85-115	0.0181	20	
Iron	3.82	0.050	mg/L	4.00		95.5	85-115	0.911	20	
Magnesium	19.9	0.100	mg/L	20.0		99.7	85-115	0.431	20	
Potassium	7.97	1.00	mg/L	8.00		99.6	85-115	0.808	20	
Silicon	3.82	0.500	mg/L	4.00		95.5	85-115	0.394	20	
Sodium	3.21	1.00	mg/L	3.24		98.9	85-115	0.280	20	

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 10:12

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240466 - Dissolved ICPMS

Blank (B240466-BLK1)

Prepared: 02/29/24 Analyzed: 03/04/24

Arsenic	ND	0.0010	mg/L							
Cadmium	ND	0.0005	mg/L							
Copper	ND	0.0010	mg/L							
Manganese	ND	0.0005	mg/L							
Molybdenum	ND	0.0005	mg/L							
Selenium	ND	0.0010	mg/L							
Uranium	ND	0.0005	mg/L							
Zinc	ND	0.0020	mg/L							

LCS (B240466-BS1)

Prepared: 02/29/24 Analyzed: 03/04/24

Arsenic	0.0513	0.0010	mg/L	0.0500	103	85-115				
Cadmium	0.0502	0.0005	mg/L	0.0500	100	85-115				
Copper	0.0449	0.0010	mg/L	0.0500	89.7	85-115				
Manganese	0.0497	0.0005	mg/L	0.0500	99.3	85-115				
Molybdenum	0.0506	0.0005	mg/L	0.0500	101	85-115				
Selenium	0.255	0.0010	mg/L	0.250	102	85-115				
Uranium	0.0514	0.0005	mg/L	0.0500	103	85-115				
Zinc	0.0461	0.0020	mg/L	0.0500	92.3	85-115				

LCS Dup (B240466-BSD1)

Prepared: 02/29/24 Analyzed: 03/04/24

Arsenic	0.0518	0.0010	mg/L	0.0500	104	85-115	0.960	20		
Cadmium	0.0498	0.0005	mg/L	0.0500	99.7	85-115	0.830	20		
Copper	0.0462	0.0010	mg/L	0.0500	92.4	85-115	3.00	20		
Manganese	0.0504	0.0005	mg/L	0.0500	101	85-115	1.52	20		
Molybdenum	0.0519	0.0005	mg/L	0.0500	104	85-115	2.48	20		
Selenium	0.259	0.0010	mg/L	0.250	103	85-115	1.27	20		
Uranium	0.0506	0.0005	mg/L	0.0500	101	85-115	1.65	20		
Zinc	0.0474	0.0020	mg/L	0.0500	94.9	85-115	2.76	20		

Batch B240500 - Dissolved ICPMS

Blank (B240500-BLK1)

Prepared: 03/04/24 Analyzed: 03/05/24

Lead	ND	0.0005	mg/L							
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LCS (B240500-BS1)

Prepared: 03/04/24 Analyzed: 03/05/24

Lead	0.0486	0.0005	mg/L	0.0500	97.2	85-115				
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LCS Dup (B240500-BSD1)

Prepared: 03/04/24 Analyzed: 03/05/24

Lead	0.0489	0.0005	mg/L	0.0500	97.8	85-115	0.687	20		
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Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/06/24 10:12

Dissolved Mercury by CVAFS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240455 - EPA 245.7

Blank (B240455-BLK1)

Prepared: 02/28/24 Analyzed: 03/01/24

Mercury	ND	100	ng/L
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LCS (B240455-BS1)

Prepared: 02/28/24 Analyzed: 03/01/24

Mercury	1910	200	ng/L	2000	95.5	76-113
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LCS Dup (B240455-BSD1)

Prepared: 02/28/24 Analyzed: 03/01/24

Mercury	1910	200	ng/L	2000	95.6	76-113	0.136	20
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Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

Veronica Wells, Project Manager

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Project Information

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Printed: 02/21/2024 2:57 pm

GCC Energy, LLC

6473 CR 120
Hesperus, CO 81326
Laboratory PM: Veronica Wells

GCC Energy

Phone: (970) 385-4528
Fax: (970) 385-4638

Project Name: GCC GW Baseline
Project Number:
Client PM: Tom Bird
Comments: All Metals Are Field Filtered. Send Out PRESERVED bottles per Landon. 11-01-18

Analysis	Comment
Alkalinity, Total	
Aluminum Dissolved by ICP	
Arsenic Dissolved by ICPMS	
CAB	
Cadmium Dissolved by ICPMS	
Chloride [IC]	
Copper Dissolved by ICPMS	
Fluoride [IC]	
Hardness [DISSOLVED]	
Iron Dissolved by ICP	
Lead Dissolved by ICPMS	
Manganese Dissolved by ICPMS	
Mercury Dissolved by CVAFS	
Molybdenum Dissolved by ICPMS	
Nitrate/Nitrite [LACHAT]	
pH	
Potassium Dissolved by ICP	
Selenium Dissolved by ICPMS	
Silica Dissolved by ICP	
Sodium Dissolved by ICP	
Sulfate [IC]	
Total Dissolved Solids [TDS]	
Total Organic Carbon [TOC]	
Uranium Dissolved by ICPMS	
Zinc Dissolved by ICPMS	
Hardness [DISSOLVED] subanalyses:	
Calcium Dissolved by ICP	
Magnesium Dissolved by ICP	
Silica Dissolved by ICP subanalyses:	
Silicon Dissolved by ICP	

All metals are field filtered. Send out preserved bottles



SAMPLE CONDITION RECEIPT FORM

Client Name: GCCWork Order # 2402-178Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody Seals on Box/Cooler Present: ☐ Yes ☒ NoSeals Intact: ☐ Yes ☐ NoThermometer Used: #2 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☒ Wet ☐ Blue ☐ NoneCooler Temp: Observed Temp: 9.3 °C Correction Factor: 0 °C Final Temp: 9.3 °C

*Temp should be above freezing to 6°C

Date/Initials of person
examining contents: MPN 2-21-24Labeled by initials: _____
(if different than above)

Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name and Signature on COC:	☒ Yes ☐ No	4.
Samples arrived within hold time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	6. <u>PH</u>
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume:	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9.
Containers Intact:	☒ Yes ☐ No	10.
Dissolved Testing Needed:	☒ Yes ☐ No	11.
Field Filtered: ☒ Yes ☐ No		12. <u>0.55</u>
Sample Labels match COC: -Includes Date/Time/ID	☒ Yes ☐ No	13.
Matrix:	<u>WT</u> ☐ SL ☐ OT	
Trip Blank Present:	☐ Yes ☒ No ☐ N/A	
Trip Blank Custody Seals Present:	☐ Yes ☒ No ☐ N/A	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

 Comments/Resolution: _____



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
jeremy.allen@greenanalytical.com

28 March 2024

Michael Dickson
GCC Energy, LLC
6473 CR 120
Hesperus, CO 81326
RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 03/18/24 10:10. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells
Project Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-23-16

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Chain of Custody & Attachments	12



GCC Energy, LLC
 6473 CR 120
 Hesperus CO, 81326

Project: GCC GW Baseline
 Project Name / Number: [none]
 Project Manager: Michael Dickson

Reported:
 03/28/24 08:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-5-MI	2403154-01	Water	03/17/24 10:55	03/18/24 10:10	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/28/24 08:26

MW-5-MI

2403154-01 (Ground Water)

Sampled Date: 03/17/24 10:55

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Total as CaCO ₃ *	925	10.0	8.00	mg/L	5	03/21/24 13:30	2320 B		IDB
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	5	03/21/24 13:30	2320 B		IDB
Alkalinity, Carbonate as CaCO ₃ *	20.0	10.0	8.00	mg/L	5	03/21/24 13:30	2320 B		IDB
Alkalinity, Bicarbonate as CaCO ₃ *	905	10.0	8.00	mg/L	5	03/21/24 13:30	2320 B		IDB
Cation/Anion Balance	-2.45	-100	-100	%	1	03/27/24 13:24	Calculation		JDA
Chloride*	5.50	2.00	0.111	mg/L	2	03/26/24 16:44	EPA300.0		AWG
Fluoride*	0.310	0.200	0.0194	mg/L	2	03/26/24 16:44	EPA300.0		AWG
Nitrate/Nitrite as N*	<0.020	0.020	0.013	mg/L as N	1	03/21/24 16:44	EPA353.2	M5	CAI
pH*	8.19			pH Units	1	03/18/24 15:40	EPA150.1		IDB
pH Temperature, degrees C	19.5			pH Units	1	03/18/24 15:40	EPA150.1		IDB
Sulfate*	7.17	2.00	0.248	mg/L	2	03/26/24 16:44	EPA300.0		AWG
Total Dissolved Solids*	1070	10.0		mg/L	1	03/19/24 09:22	EPA160.1		IDB
Total Organic Carbon*	3.49	2.00	1.16	mg/L	4	03/22/24 12:07	5310C		IDB

Dissolved Metals by ICP

Aluminum*	<0.100	0.100	0.044	mg/L	2	03/25/24 12:00	EPA200.7		AES
Calcium*	2.25	0.200	0.036	mg/L	2	03/25/24 12:00	EPA200.7		AES
Hardness as CaCO ₃	8.53	1.32	0.339	mg/L	2	03/25/24 12:00	2340 B		AES
Iron*	<0.100	0.100	0.040	mg/L	2	03/25/24 12:00	EPA200.7		AES
Magnesium*	0.708	0.200	0.061	mg/L	2	03/25/24 12:00	EPA200.7		AES
Potassium*	<2.00	2.00	0.150	mg/L	2	03/25/24 12:00	EPA200.7		AES
Silica (SiO ₂)	7.40	2.14	0.199	mg/L	2	03/25/24 12:00	Calculation		AES
Silicon	3.46	1.00	0.093	mg/L	2	03/25/24 12:00	EPA200.7		AES
Sodium*	396	2.00	0.460	mg/L	2	03/25/24 12:00	EPA200.7		AES

Dissolved Metals by ICPMS

Arsenic*	0.0087	0.0020	0.0012	mg/L	2	03/21/24 12:08	EPA200.8		AES
Cadmium*	<0.0010	0.0010	0.0001	mg/L	2	03/21/24 12:08	EPA200.8		AES
Copper*	0.0171	0.0020	0.0002	mg/L	2	03/21/24 12:08	EPA200.8		AES
Lead*	<0.0010	0.0010	0.0002	mg/L	2	03/21/24 12:08	EPA200.8		AES
Manganese*	0.0170	0.0010	0.0004	mg/L	2	03/21/24 12:08	EPA200.8		AES
Molybdenum*	0.0025	0.0010	0.0001	mg/L	2	03/21/24 12:08	EPA200.8		AES
Selenium*	<0.0020	0.0020	0.0005	mg/L	2	03/21/24 12:08	EPA200.8		AES

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/28/24 08:26

MW-5-MI

2403154-01 (Ground Water)

Sampled Date: 03/17/24 10:55

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Dissolved Metals by ICPMS

Uranium	0.0058	0.0010	0.00008	mg/L	2	03/21/24 12:08	EPA200.8		AES
Zinc*	0.0523	0.0040	0.0012	mg/L	2	03/21/24 12:08	EPA200.8		AES

Dissolved Mercury by CVAFS

Mercury	<100	100	19.6	ng/L	1	03/21/24 16:17	EPA245.7		CAI
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Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/28/24 08:26

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B240637 - General Prep - Wet Chem										
Blank (B240637-BLK1)				Prepared & Analyzed: 03/19/24						
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B240637-SRM1)				Prepared & Analyzed: 03/19/24						
Total Dissolved Solids	405	10.0	mg/L	400		101	85-115			
Batch B240644 - General Prep - Wet Chem										
Reference (B240644-SRM1)				Prepared & Analyzed: 03/18/24						
pH	7.09		pH Units	7.00		101	98.57-101.42			
Batch B240652 - General Prep - Wet Chem										
Blank (B240652-BLK1)				Prepared & Analyzed: 03/20/24						
Total Organic Carbon	ND	0.500	mg/L							
LCS (B240652-BS1)				Prepared & Analyzed: 03/20/24						
Total Organic Carbon	9.92	0.500	mg/L	10.0		99.2	85-115			
LCS Dup (B240652-BSD1)				Prepared & Analyzed: 03/20/24						
Total Organic Carbon	10.0	0.500	mg/L	10.0		100	85-115	0.923	20	
Batch B240665 - Lachat										
Blank (B240665-BLK1)				Prepared & Analyzed: 03/21/24						
Nitrate/Nitrite as N	ND	0.020	mg/L as N							
LCS (B240665-BS1)				Prepared & Analyzed: 03/21/24						
Nitrate/Nitrite as N	0.917	0.020	mg/L as N	1.00		91.7	90-110			
LCS Dup (B240665-BSD1)				Prepared & Analyzed: 03/21/24						
Nitrate/Nitrite as N	0.908	0.020	mg/L as N	1.00		90.8	90-110	0.975	20	
Batch B240668 - General Prep - Wet Chem										
Blank (B240668-BLK1)				Prepared & Analyzed: 03/21/24						
Alkalinity, Bicarbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Total as CaCO ₃	ND	10.0	mg/L							
LCS (B240668-BS1)				Prepared & Analyzed: 03/21/24						

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/28/24 08:26

General Chemistry - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240668 - General Prep - Wet Chem (Continued)

LCS (B240668-BS1) (Continued)

Prepared & Analyzed: 03/21/24

Alkalinity, Total as CaCO ₃	99.0	10.0	mg/L	100	99.0	85-115
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LCS Dup (B240668-BSD1)

Prepared & Analyzed: 03/21/24

Alkalinity, Total as CaCO ₃	98.0	10.0	mg/L	100	98.0	85-115	1.02	20
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Reference (B240668-SRM1)

Prepared & Analyzed: 03/21/24

Alkalinity, Total as CaCO ₃	72.0	10.0	mg/L	72.7	99.0	85-115
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Batch B240672 - IC- Ion Chromatograph

Blank (B240672-BLK1)

Prepared: 03/22/24 Analyzed: 03/26/24

Chloride	ND	1.00	mg/L
Fluoride	ND	0.100	mg/L
Sulfate	ND	1.00	mg/L

LCS (B240672-BS1)

Prepared: 03/22/24 Analyzed: 03/26/24

Chloride	25.1	1.00	mg/L	25.0	100	90-110
Fluoride	2.59	0.100	mg/L	2.50	104	90-110
Sulfate	24.8	1.00	mg/L	25.0	99.0	90-110

LCS Dup (B240672-BSD1)

Prepared: 03/22/24 Analyzed: 03/26/24

Chloride	25.2	1.00	mg/L	25.0	101	90-110	0.418	20
Fluoride	2.60	0.100	mg/L	2.50	104	90-110	0.423	20
Sulfate	24.9	1.00	mg/L	25.0	99.4	90-110	0.403	20

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/28/24 08:26

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240651 - Dissolved ICP

Blank (B240651-BLK1)

Prepared: 03/20/24 Analyzed: 03/25/24

Aluminum	ND	0.050	mg/L
Calcium	ND	0.100	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.100	mg/L
Potassium	ND	1.00	mg/L
Silicon	ND	0.500	mg/L
Sodium	ND	1.00	mg/L

LCS (B240651-BS1)

Prepared: 03/20/24 Analyzed: 03/25/24

Aluminum	4.20	0.050	mg/L	4.00	105	85-115
Calcium	4.13	0.100	mg/L	4.00	103	85-115
Iron	4.21	0.050	mg/L	4.00	105	85-115
Magnesium	21.3	0.100	mg/L	20.0	107	85-115
Potassium	8.36	1.00	mg/L	8.00	104	85-115
Silicon	4.05	0.500	mg/L	4.00	101	85-115
Sodium	3.39	1.00	mg/L	3.24	105	85-115

LCS Dup (B240651-BSD1)

Prepared: 03/20/24 Analyzed: 03/25/24

Aluminum	4.10	0.050	mg/L	4.00	103	85-115	2.37	20
Calcium	3.99	0.100	mg/L	4.00	99.8	85-115	3.44	20
Iron	4.08	0.050	mg/L	4.00	102	85-115	3.23	20
Magnesium	20.7	0.100	mg/L	20.0	104	85-115	2.78	20
Potassium	8.24	1.00	mg/L	8.00	103	85-115	1.45	20
Silicon	3.96	0.500	mg/L	4.00	99.0	85-115	2.39	20
Sodium	3.33	1.00	mg/L	3.24	103	85-115	1.79	20

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/28/24 08:26

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240661 - Dissolved ICPMS

Blank (B240661-BLK1)

Prepared & Analyzed: 03/21/24

Arsenic	ND	0.0010	mg/L							
Cadmium	ND	0.0005	mg/L							
Copper	ND	0.0010	mg/L							
Lead	ND	0.0005	mg/L							
Manganese	ND	0.0005	mg/L							
Molybdenum	ND	0.0005	mg/L							
Selenium	ND	0.0010	mg/L							
Uranium	ND	0.0005	mg/L							
Zinc	ND	0.0020	mg/L							

LCS (B240661-BS1)

Prepared & Analyzed: 03/21/24

Arsenic	0.0480	0.0010	mg/L	0.0500	95.9	85-115				
Cadmium	0.0482	0.0005	mg/L	0.0500	96.4	85-115				
Copper	0.0486	0.0010	mg/L	0.0500	97.1	85-115				
Lead	0.0485	0.0005	mg/L	0.0500	96.9	85-115				
Manganese	0.0496	0.0005	mg/L	0.0500	99.2	85-115				
Molybdenum	0.0484	0.0005	mg/L	0.0500	96.8	85-115				
Selenium	0.240	0.0010	mg/L	0.250	95.8	85-115				
Uranium	0.0502	0.0005	mg/L	0.0500	100	85-115				
Zinc	0.0483	0.0020	mg/L	0.0500	96.6	85-115				

LCS Dup (B240661-BSD1)

Prepared & Analyzed: 03/21/24

Arsenic	0.0490	0.0010	mg/L	0.0500	97.9	85-115	2.06	20		
Cadmium	0.0484	0.0005	mg/L	0.0500	96.8	85-115	0.451	20		
Copper	0.0488	0.0010	mg/L	0.0500	97.6	85-115	0.477	20		
Lead	0.0486	0.0005	mg/L	0.0500	97.3	85-115	0.380	20		
Manganese	0.0496	0.0005	mg/L	0.0500	99.1	85-115	0.0462	20		
Molybdenum	0.0487	0.0005	mg/L	0.0500	97.5	85-115	0.629	20		
Selenium	0.242	0.0010	mg/L	0.250	96.8	85-115	0.958	20		
Uranium	0.0502	0.0005	mg/L	0.0500	100	85-115	0.0785	20		
Zinc	0.0488	0.0020	mg/L	0.0500	97.6	85-115	1.01	20		

Green Analytical Laboratories



GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/28/24 08:26

Dissolved Mercury by CVAFS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B240632 - EPA 245.7

Blank (B240632-BLK1)

Prepared: 03/18/24 Analyzed: 03/21/24

Mercury	ND	100	ng/L
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LCS (B240632-BS1)

Prepared: 03/18/24 Analyzed: 03/21/24

Mercury	824	100	ng/L	1000	82.4	76-113
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LCS Dup (B240632-BSD1)

Prepared: 03/18/24 Analyzed: 03/21/24

Mercury	833	100	ng/L	1000	83.3	76-113	1.06	20
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Notes and Definitions

M5	Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

Veronica Wells, Project Manager

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GCC Energy, LLC
6473 CR 120
Hesperus CO, 81326

Project: GCC GW Baseline
Project Name / Number: [none]
Project Manager: Michael Dickson

Reported:
03/28/24 08:26

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2403154-01	Nitrate/Nitrite [LCHAT]	Nitrate/Nitrite as N	M5	Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006, R 8.0



75 Suttle Street
Durango, CO 81303
(970) 247-4220

Note: Wite-Out™ or similar products cannot be used on the Chain of Custody

Company or Client: GCC Energy		Bill to (if different):		ANALYSIS REQUEST									
Address: 6473 CR 120													
City: Hesperus		State: CO Zip: 81326											
Phone #: 970-385-4528													
Contact Person: Landon Beck for Logistical or Technical													
Email Report to: lbeck@slrconsulting.com tom@haygulchservices.com mdickson@gcc.com													
Project Name(optional):													
Sampler Name (Print): Brandon Waddell													
Sample Name or Location		Collected											
Date		Time											
3/17/24		10:55											
1) MW-5-MT													
2)													
3)													
4)													
5)													
6)													
7)													
8)													
9)													
10)													
Lab I.D. 2403-154		Lab Use Only											
P.O. #:		Rush? ☐ Y ☒ N TAT Needed? ☒											
Matrix (check one)		# of containers											
GROUNDWATER		1											
SURFACE WATER													
WASTEWATER													
PRODUCED WATER													
DRINKING WATER													
SOIL													
OTHER:													
No preservation													
Nitric Acid													
Hydrochloric Acid													
Sulfuric Acid													
Sodium Hydroxide													
OTHER:													
GCC GW Baseline		X											
GCC S&S Baseline													
GCC SW Baseline													

USE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed void unless made in writing and received by GAL within 30 days after completion of the applicable service. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:		Received By:		Date: 3-18-24		Date: 3-18-24	
Time: 10:10		Time: 10:10		Time: 10:10		Time: 10:10	
Relinquished By:		Received By:		Date:		Date:	
Time:		Time:		Time:		Time:	
Relinquished By:		Received By:		Date:		Date:	
Time:		Time:		Time:		Time:	
Temperature at receipt: 3.3 °C		Checked by: MW		On Ice? Y		Therm. used: Wiser 2	

† GAL cannot accept verbal changes. Please email changes to receiving@greenanalytical.com
* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

Project Information

GCC Energy, LLC

6473 CR 120
Hesperus, CO 81326
Laboratory PM: Veronica Wells

GCC Energy

Phone: (970) 385-4528
Fax: (970) 385-4638

Project Name: GCC GW Baseline
Project Number:
Client PM: Michael Dickson
Comments: All Metals Are Field Filtered. Send Out PRESERVED bottles per Landon. 11-01-18

Analysis	Comment
Alkalinity, Total	
Aluminum Dissolved by ICP	
Arsenic Dissolved by ICPMS	
CAB	
Cadmium Dissolved by ICPMS	
Chloride [IC]	
Copper Dissolved by ICPMS	
Fluoride [IC]	
Hardness [DISSOLVED]	
Iron Dissolved by ICP	
Lead Dissolved by ICPMS	
Manganese Dissolved by ICPMS	
Mercury Dissolved by CVAFS	
Molybdenum Dissolved by ICPMS	
Nitrate/Nitrite [LACHAT]	
pH	
Potassium Dissolved by ICP	
Selenium Dissolved by ICPMS	
Silica Dissolved by ICP	
Sodium Dissolved by ICP	
Sulfate [IC]	
Total Dissolved Solids [TDS]	
Total Organic Carbon [TOC]	
Uranium Dissolved by ICPMS	
Zinc Dissolved by ICPMS	
Hardness [DISSOLVED] subanalyses:	
Calcium Dissolved by ICP	
Magnesium Dissolved by ICP	
Silica Dissolved by ICP subanalyses:	
Silicon Dissolved by ICP	

All metals are field filtered. Send out preserved bottles



SAMPLE CONDITION RECEIPT FORM

Client Name: GCC EnergyWork Order # 2403-154 CPV 3/18Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody Seals on Box/Cooler Present: ☐ Yes ☒ NoSeals Intact: ☐ Yes ☐ NoThermometer Used: #2 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☒ Wet ☐ Blue ☐ NoneCooler Temp: Observed Temp: 3.3 °C Correction Factor: 0 °C Final Temp: 3.3 °C

C

* Temp should be above freezing to 6°C

Date/Initials of person
examining contents: CPV 3/18Labeled by initials: _____
(if different than above)

Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name and Signature on COC:	☒ Yes ☐ No	4.
Samples arrived within hold time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	6. <u>PH</u>
Rush Turn Around Time Requested:	☐ Yes ☒ No	7.
Sufficient Volume:	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9.
Containers Intact:	☒ Yes ☐ No	10.
Dissolved Testing Needed:	☒ Yes ☐ No	11. <u>Dissolved</u>
Field Filtered: ☒ Yes ☐ No		
Sample Labels match COC: -Includes Date/Time/ID	☒ Yes ☐ No	12.
Matrix:	☒ WT ☐ SL ☐ OT	
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	13.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☒ N/A	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____
